

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071323\
 Data File : BF134276.D
 Acq On : 13 Jul 2023 23:18
 Operator : CG\JU
 Sample : 03565-01 2X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PAT-DIS-01-7-10-2023

Quant Time: Jul 13 23:41:36 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 11 13:06:48 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/14/2023
 Supervised By :mohammad ahmed 07/14/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.839	152	70535	20.000	ng	0.00
21) Naphthalene-d8	8.122	136	262028	20.000	ng	0.00
39) Acenaphthene-d10	9.880	164	130898	20.000	ng	0.00
64) Phenanthrene-d10	11.374	188	237437	20.000	ng	0.00
76) Chrysene-d12	14.039	240	157288	20.000	ng	0.00
86) Perylene-d12	15.545	264	114268	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.469	112	218458	51.808	ng	0.00
7) Phenol-d6	6.475	99	261965	50.517	ng	-0.01
23) Nitrobenzene-d5	7.398	82	166317	34.215	ng	-0.01
42) 2,4,6-Tribromophenol	10.675	330	86755	52.861	ng	0.00
45) 2-Fluorobiphenyl	9.198	172	277740	30.849	ng	0.00
79) Terphenyl-d14	12.969	244	261701	26.778	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.139	128	34640	2.737	ng	98
37) 2-Methylnaphthalene	8.833	142	29633	3.311	ng	99
38) 1-Methylnaphthalene	8.933	142	36020	4.329	ng	92
49) Acenaphthylene	9.739	152	78482	5.980	ng	96
52) Acenaphthene	9.910	154	60626	7.961	ng	99
55) Dibenzofuran	10.086	168	69674	5.854	ng	# 96
58) Fluorene	10.427	166	123606	13.350	ng	99
71) Phenanthrene	11.404	178	956370	80.011	ng	99
72) Anthracene	11.451	178	226579	18.225	ng	99
73) Carbazole	11.610	167	102347	8.994	ng	97
75) Fluoranthene	12.604	202	1157493	89.574	ng	98
78) Pyrene	12.833	202	1196794	81.761	ng	100
81) Benzo(a)anthracene	14.027	228	449860	41.240	ng	97
83) Chrysene	14.068	228	434990	41.172	ng	98
87) Indeno(1,2,3-cd)pyrene	17.092	276	126493	15.953	ng	95
88) Benzo(b)fluoranthene	15.104	252	334279m	49.751	ng	
89) Benzo(k)fluoranthene	15.127	252	102771m	15.023	ng	
90) Benzo(a)pyrene	15.486	252	243950	37.547	ng	96
91) Dibenzo(a,h)anthracene	17.098	278	37186m	5.742	ng	
92) Benzo(g,h,i)perylene	17.562	276	138095	20.677	ng	98

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

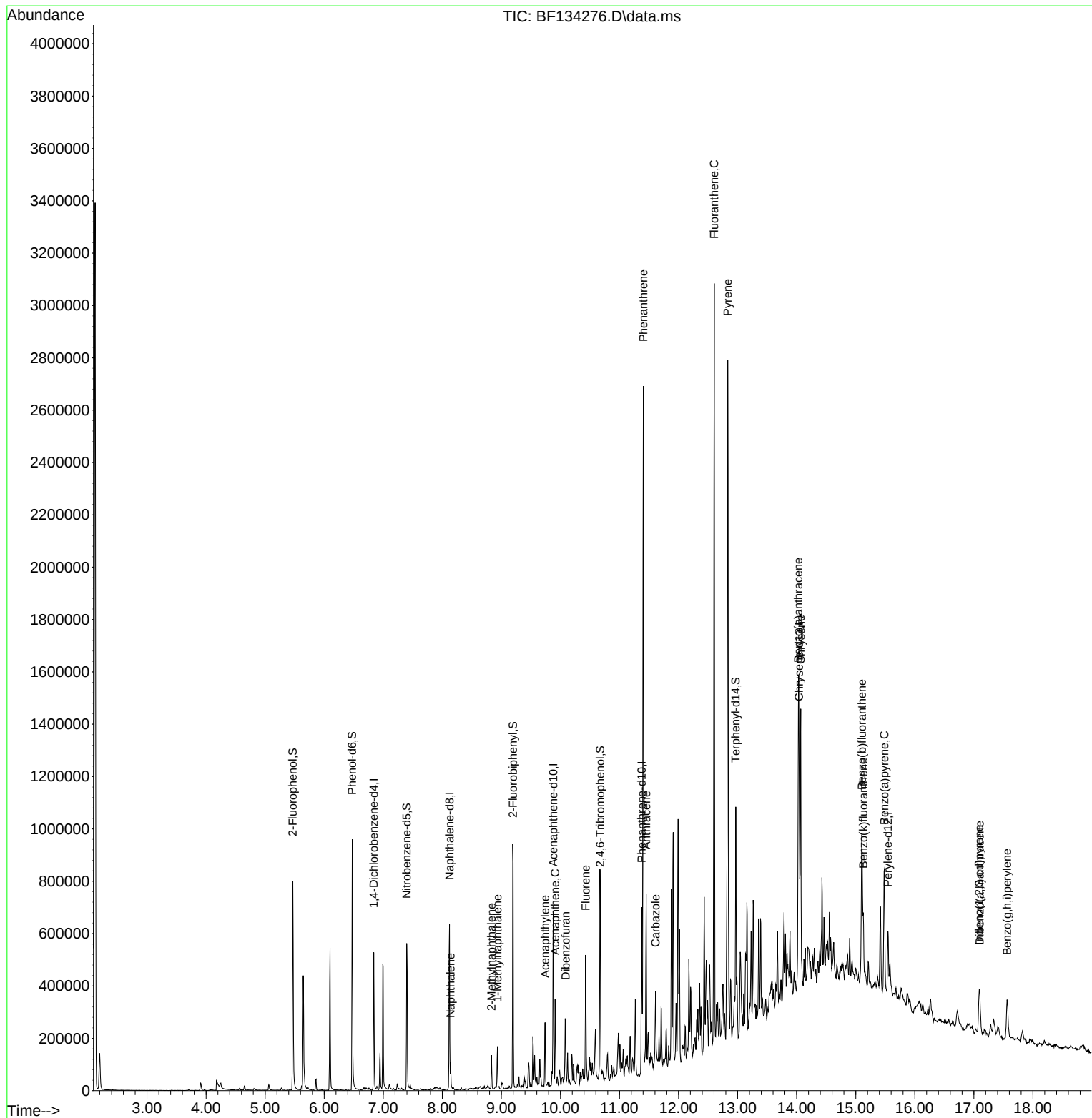
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071323\
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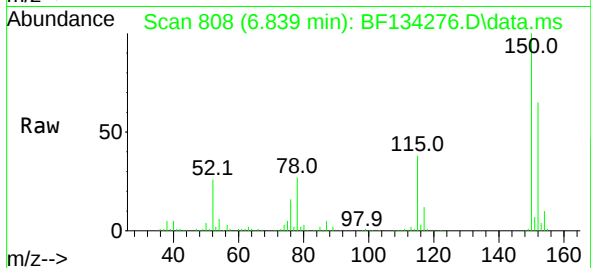
Reviewed By :Yogesh Patel 07/14/2023
 Supervised By :mohammad ahmed 07/14/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.839 min Scan# 80
Delta R.T. -0.006 min
Lab File: BF134276.D
Acq: 13 Jul 2023 23:18

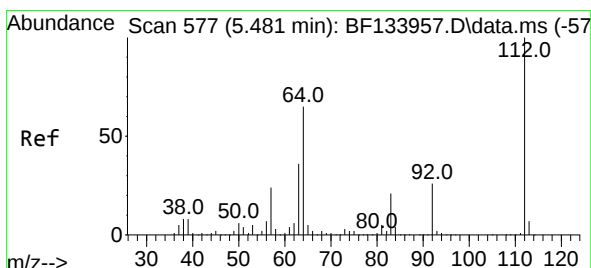
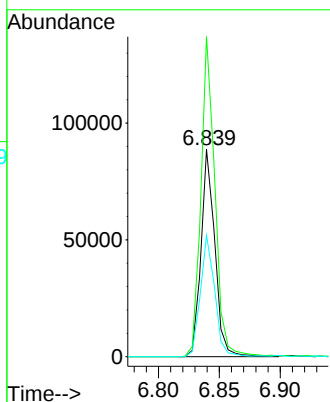
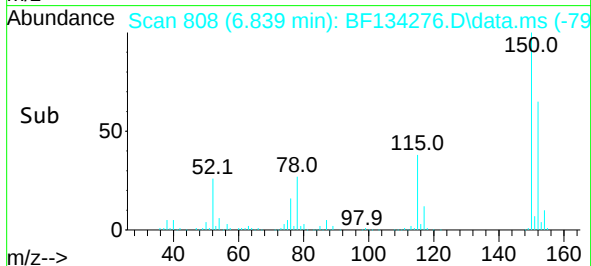
Instrument :
BNA_F
ClientSampleId :
PAT-DIS-01-7-10-2023



Tgt Ion:152 Resp: 7053
Ion Ratio Lower Upper
152 100
150 154.4 124.5 186.7
115 58.6 50.2 75.2

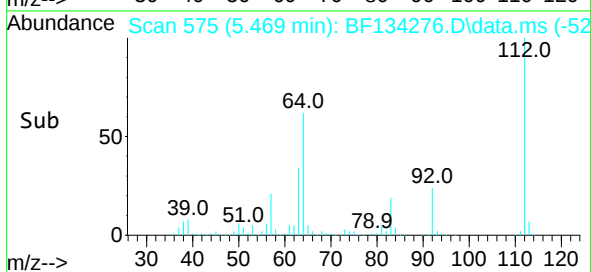
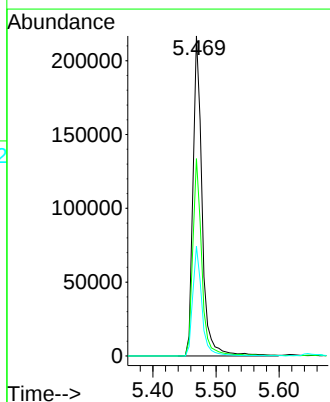
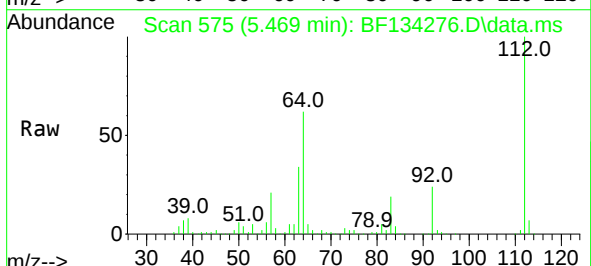
Manual Integrations
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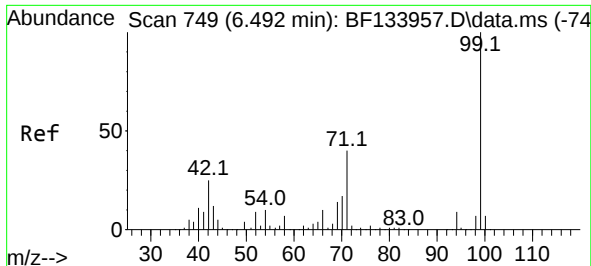
Reviewed By :Yogesh Patel 07/14/2023
Supervised By :mohammad ahmed 07/14/2023



#5
2-Fluorophenol
Concen: 51.808 ng
RT: 5.469 min Scan# 575
Delta R.T. -0.006 min
Lab File: BF134276.D
Acq: 13 Jul 2023 23:18

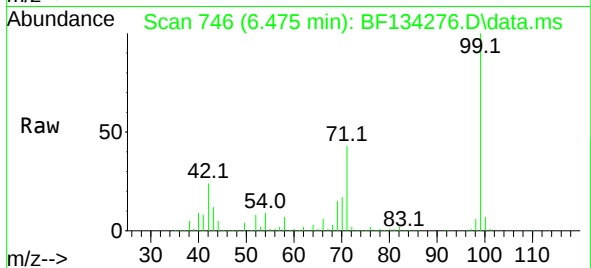
Tgt Ion:112 Resp: 218458
Ion Ratio Lower Upper
112 100
64 61.6 52.1 78.1
63 34.3 28.6 42.8





#7
Phenol-d6
Concen: 50.517 ng
RT: 6.475 min Scan# 749
Delta R.T. -0.012 min
Lab File: BF134276.D
Acq: 13 Jul 2023 23:18

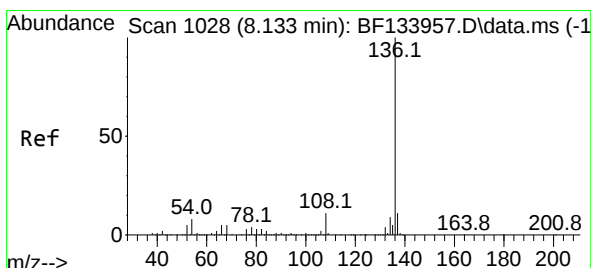
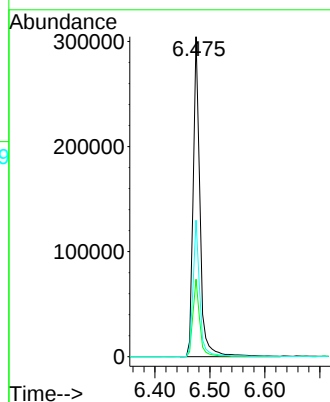
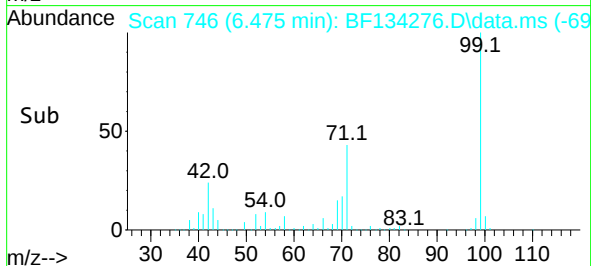
Instrument :
BNA_F
ClientSampleId :
PAT-DIS-01-7-10-2023



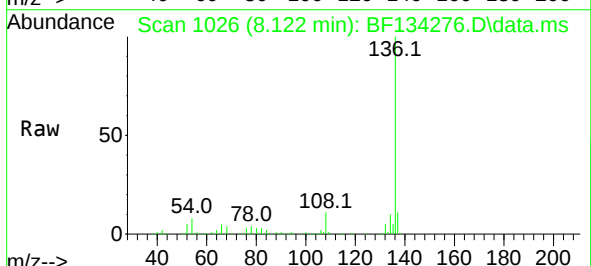
Tgt Ion: 99 Resp: 261968
Ion Ratio Lower Upper
99 100
42 24.2 19.8 29.6
71 42.6 31.9 47.9

Manual Integrations
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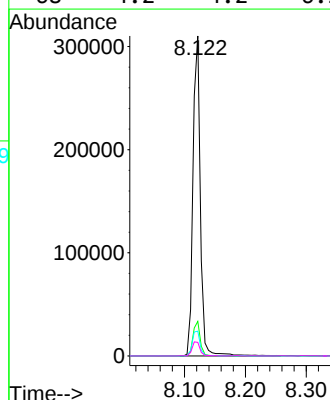
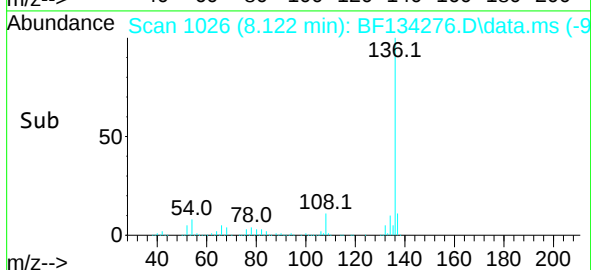
Reviewed By :Yogesh Patel 07/14/2023
Supervised By :mohammad ahmed 07/14/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.122 min Scan# 1026
Delta R.T. -0.006 min
Lab File: BF134276.D
Acq: 13 Jul 2023 23:18



Tgt Ion:136 Resp: 262028
Ion Ratio Lower Upper
136 100
137 10.8 8.6 12.8
54 7.8 6.5 9.7
68 4.2 4.2 6.2





#23

Nitrobenzene-d5

Concen: 34.215 ng

RT: 7.398 min Scan# 90

Delta R.T. -0.012 min

Lab File: BF134276.D

Acq: 13 Jul 2023 23:18

Instrument :

BNA_F

ClientSampleId :

PAT-DIS-01-7-10-2023

Tgt Ion: 82 Resp: 16631

Ion Ratio Lower Upper

82 100

128 38.0 32.5 48.7

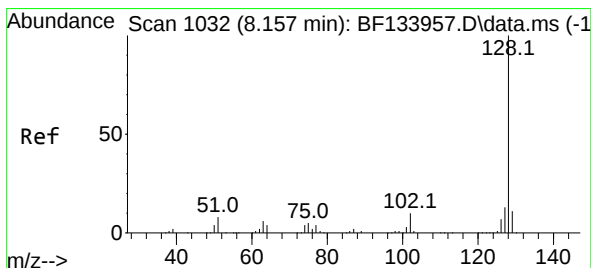
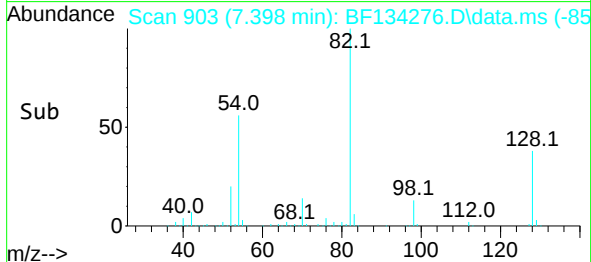
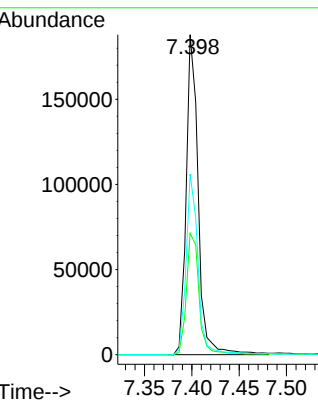
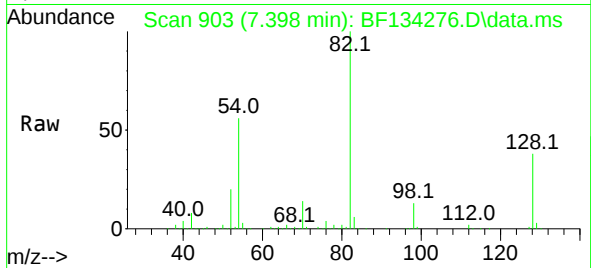
54 56.5 48.2 72.2

Manual Integrations

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Reviewed By :Yogesh Patel 07/14/2023

Supervised By :mohammad ahmed 07/14/2023



#31

Naphthalene

Concen: 2.737 ng

RT: 8.139 min Scan# 1029

Delta R.T. -0.012 min

Lab File: BF134276.D

Acq: 13 Jul 2023 23:18

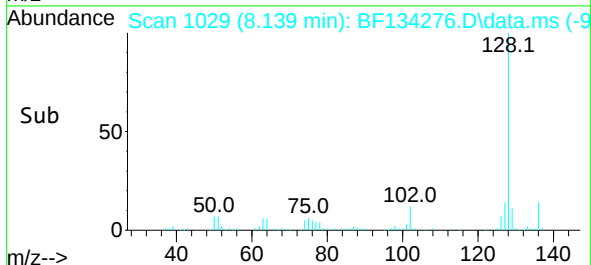
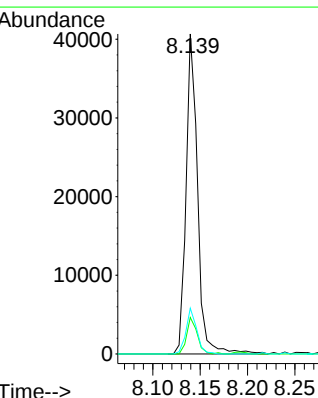
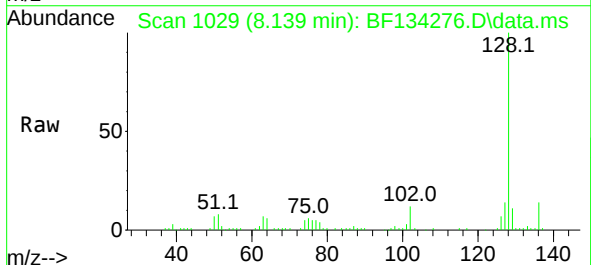
Tgt Ion:128 Resp: 34640

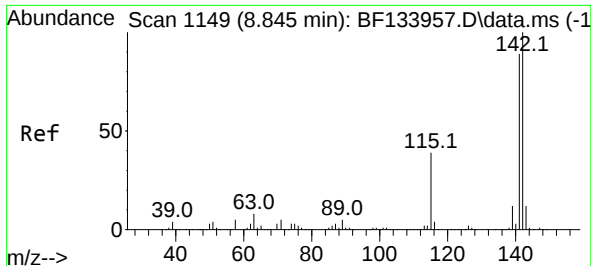
Ion Ratio Lower Upper

128 100

129 11.4 8.7 13.1

127 14.3 10.6 15.8





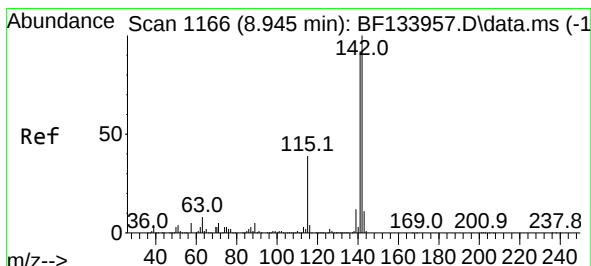
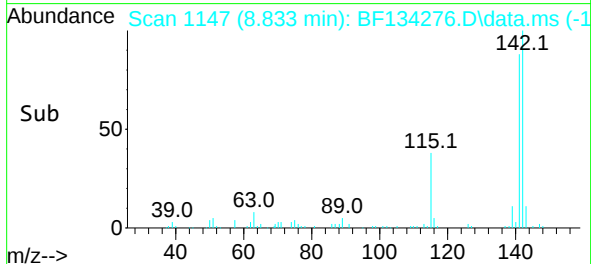
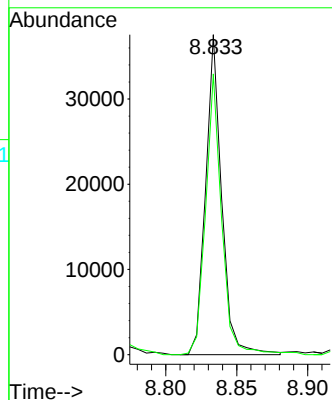
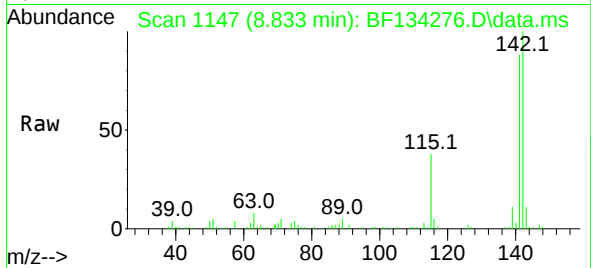
#37
2-Methylnaphthalene
Concen: 3.311 ng
RT: 8.833 min Scan# 1149
Delta R.T. -0.006 min
Lab File: BF134276.D
Acq: 13 Jul 2023 23:18

Instrument :
BNA_F
ClientSampleId :
PAT-DIS-01-7-10-2023

Tgt Ion:142 Resp: 2963
Ion Ratio Lower Upper
142 100
141 87.8 71.0 106.4

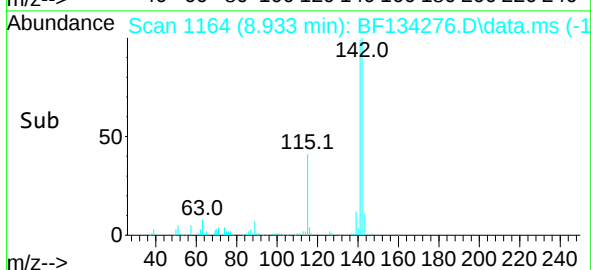
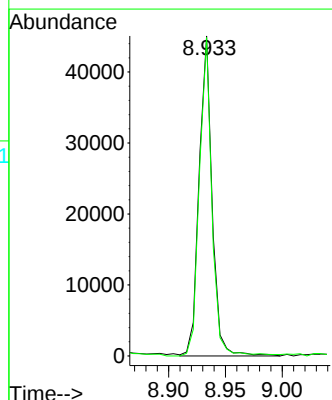
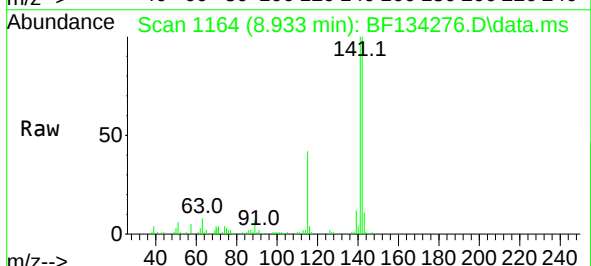
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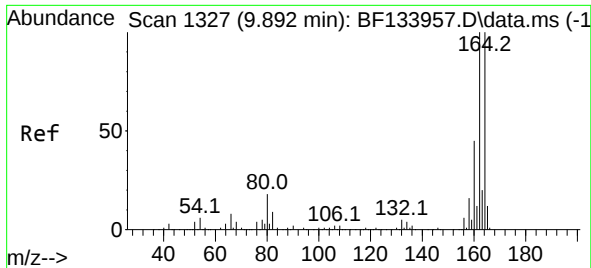
Reviewed By :Yogesh Patel 07/14/2023
Supervised By :mohammad ahmed 07/14/2023



#38
1-Methylnaphthalene
Concen: 4.329 ng
RT: 8.933 min Scan# 1164
Delta R.T. -0.006 min
Lab File: BF134276.D
Acq: 13 Jul 2023 23:18

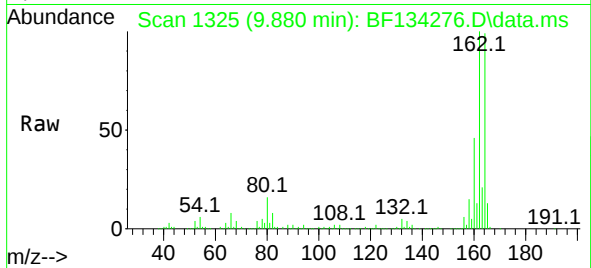
Tgt Ion:142 Resp: 36020
Ion Ratio Lower Upper
142 100
141 99.5 73.5 110.3





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.880 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF134276.D
Acq: 13 Jul 2023 23:18

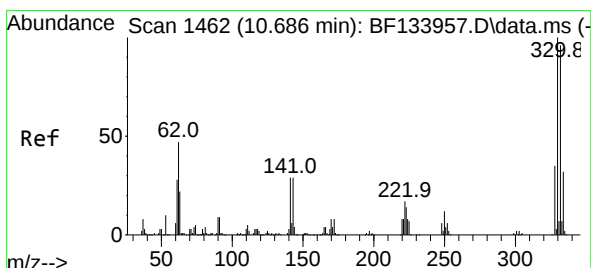
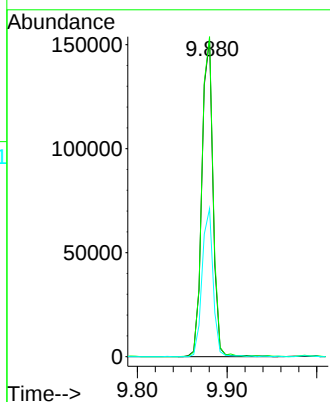
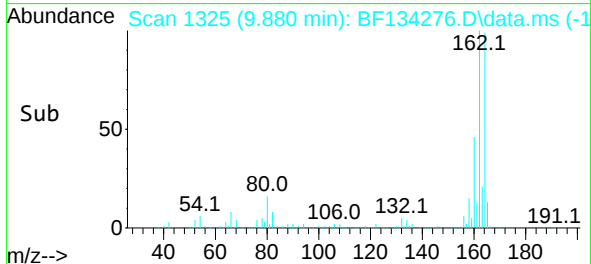
Instrument :
BNA_F
ClientSampleId :
PAT-DIS-01-7-10-2023



Tgt Ion:164 Resp: 130898
Ion Ratio Lower Upper
164 100
162 100.9 80.0 120.0
160 46.7 35.9 53.9

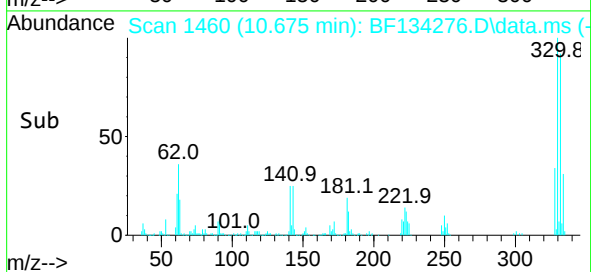
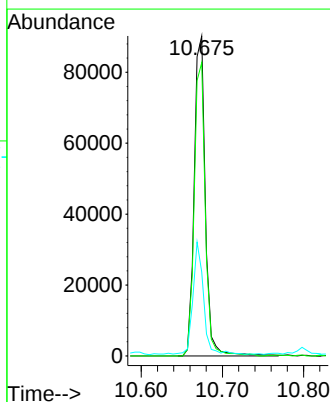
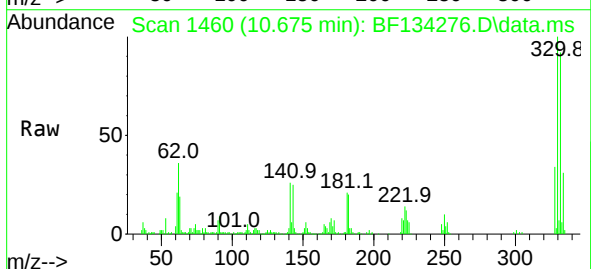
Manual Integrations
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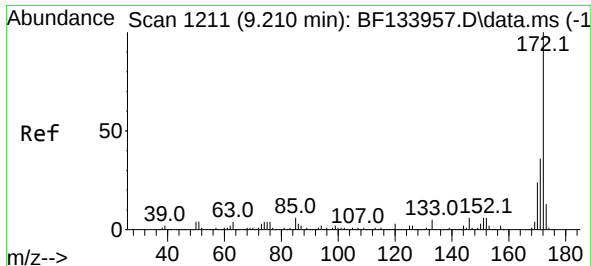
Reviewed By :Yogesh Patel 07/14/2023
Supervised By :mohammad ahmed 07/14/2023



#42
2,4,6-Tribromophenol
Concen: 52.861 ng
RT: 10.675 min Scan# 1460
Delta R.T. -0.006 min
Lab File: BF134276.D
Acq: 13 Jul 2023 23:18

Tgt Ion:330 Resp: 86755
Ion Ratio Lower Upper
330 100
332 91.2 77.0 115.6
141 34.5 26.3 39.5





#45

2-Fluorobiphenyl

Concen: 30.849 ng

RT: 9.198 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF134276.D

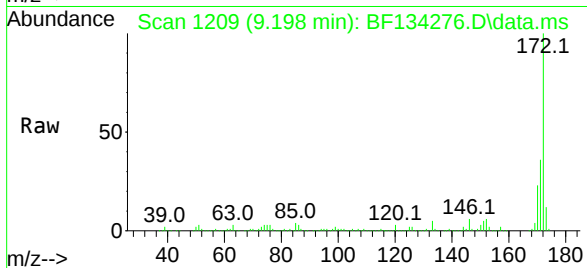
Acq: 13 Jul 2023 23:18

Instrument :

BNA_F

ClientSampleId :

PAT-DIS-01-7-10-2023



Tgt Ion:172 Resp: 277740

Ion Ratio Lower Upper

172 100

171 35.8 28.6 43.0

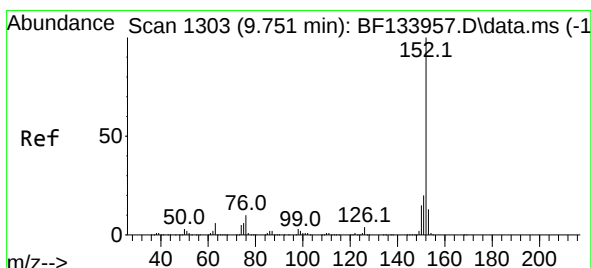
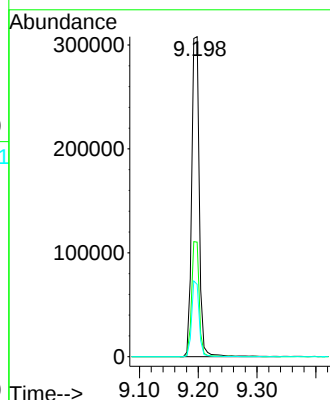
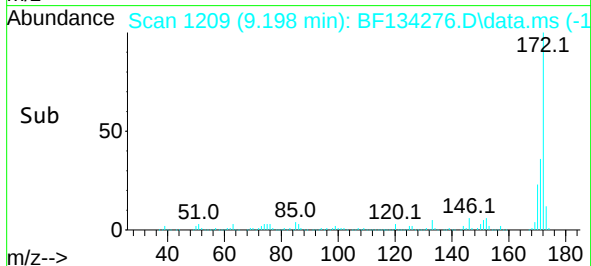
170 22.6 19.4 29.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/14/2023

Supervised By :mohammad ahmed 07/14/2023



#49

Acenaphthylene

Concen: 5.980 ng

RT: 9.739 min Scan# 1301

Delta R.T. -0.006 min

Lab File: BF134276.D

Acq: 13 Jul 2023 23:18

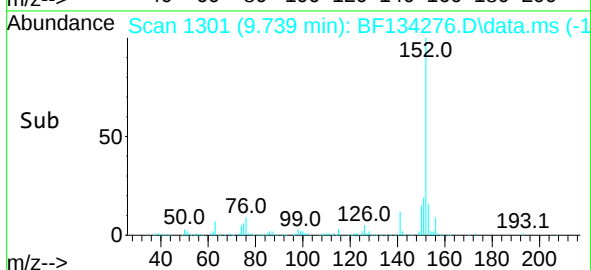
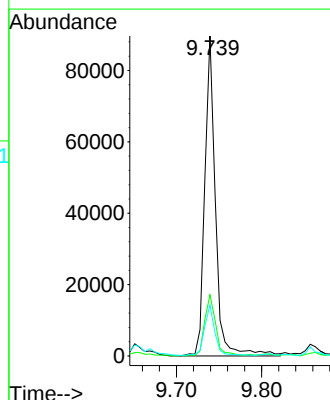
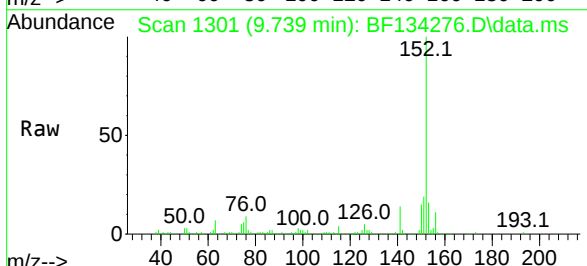
Tgt Ion:152 Resp: 78482

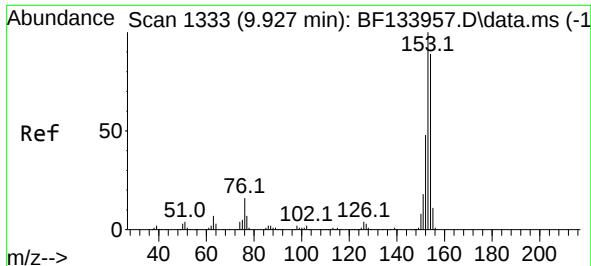
Ion Ratio Lower Upper

152 100

151 19.1 16.2 24.2

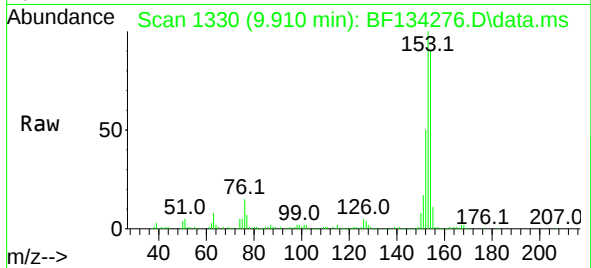
153 15.9 10.8 16.2





#52
Acenaphthene
Concen: 7.961 ng
RT: 9.910 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF134276.D
Acq: 13 Jul 2023 23:18

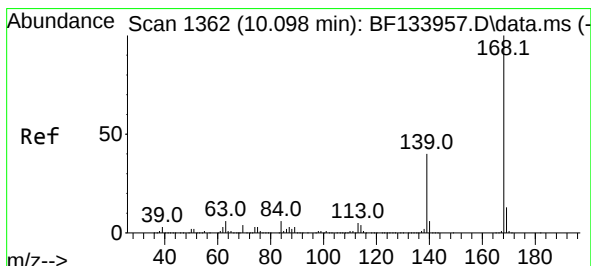
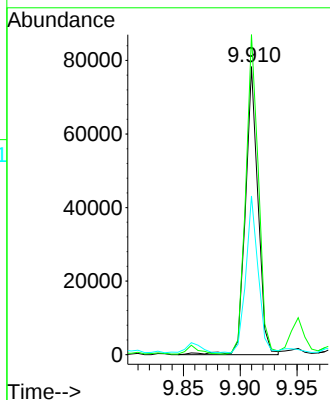
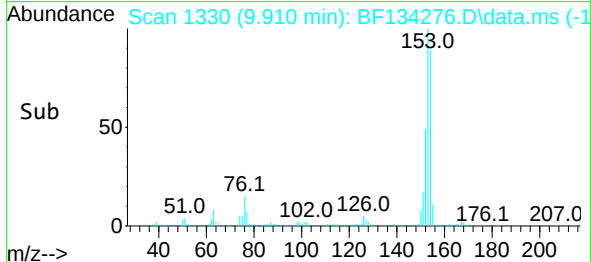
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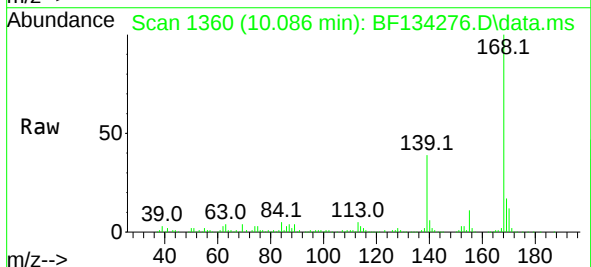
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Ion Ratio Lower Upper
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153 111.1 89.4 134.2
152 55.1 42.8 64.2

Manual Integrations
APPROVED

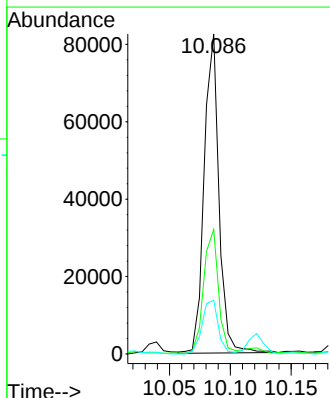
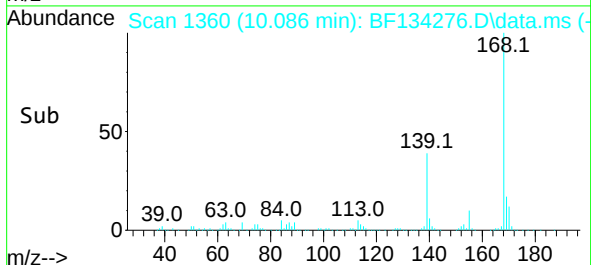
Reviewed By :Yogesh Patel 07/14/2023
Supervised By :mohammad ahmed 07/14/2023

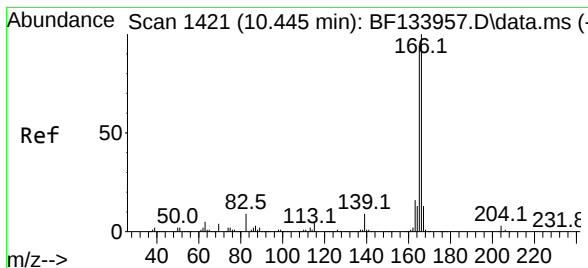


#55
Dibenzofuran
Concen: 5.854 ng
RT: 10.086 min Scan# 1360
Delta R.T. -0.006 min
Lab File: BF134276.D
Acq: 13 Jul 2023 23:18



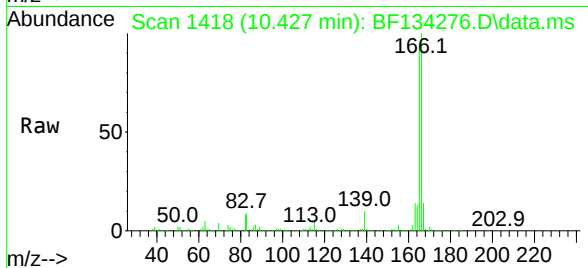
Tgt Ion:168 Resp: 69674
Ion Ratio Lower Upper
168 100
139 38.9 32.0 48.0
169 16.8 10.6 16.0#





#58
Fluorene
Concen: 13.350 ng
RT: 10.427 min Scan# 1421
Delta R.T. -0.012 min
Lab File: BF134276.D
Acq: 13 Jul 2023 23:18

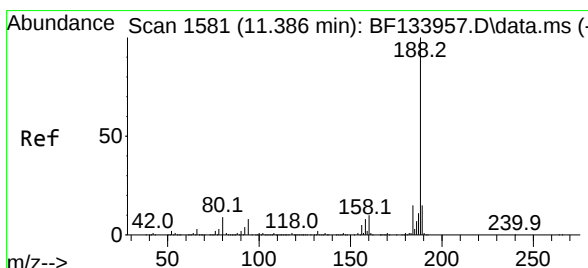
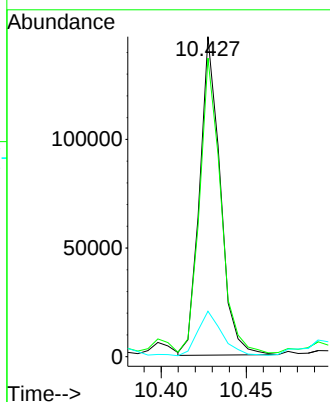
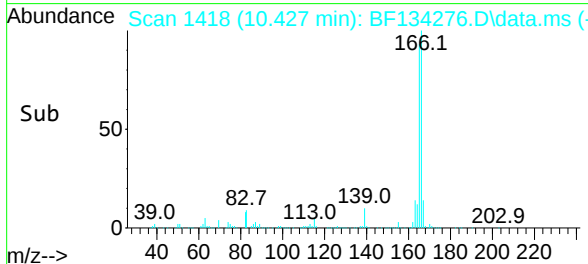
Instrument :
BNA_F
ClientSampleId :
PAT-DIS-01-7-10-2023



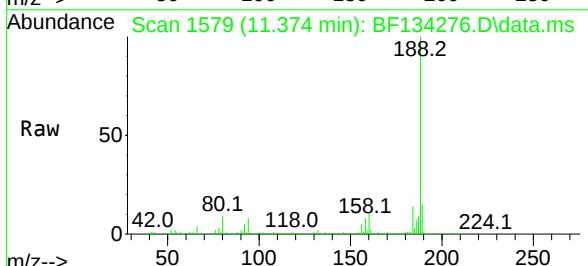
Tgt Ion:166 Resp: 123600
Ion Ratio Lower Upper
166 100
165 93.3 75.0 112.4
167 14.2 10.6 15.8

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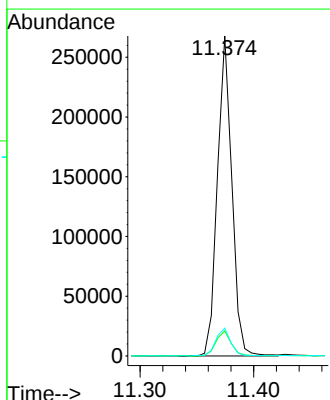
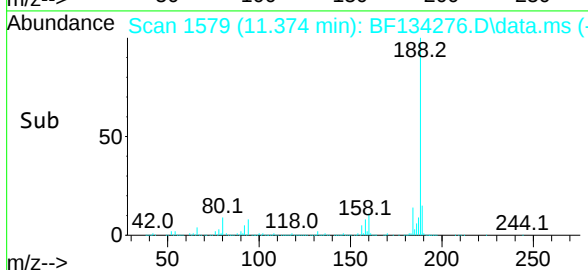
Reviewed By :Yogesh Patel 07/14/2023
Supervised By :mohammad ahmed 07/14/2023

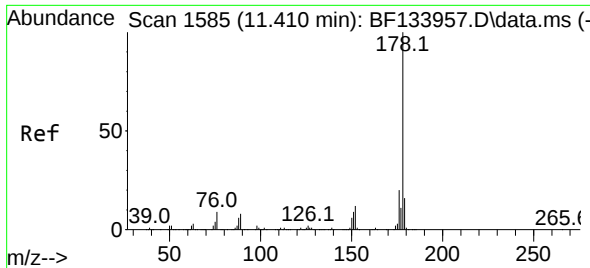


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.374 min Scan# 1579
Delta R.T. -0.006 min
Lab File: BF134276.D
Acq: 13 Jul 2023 23:18



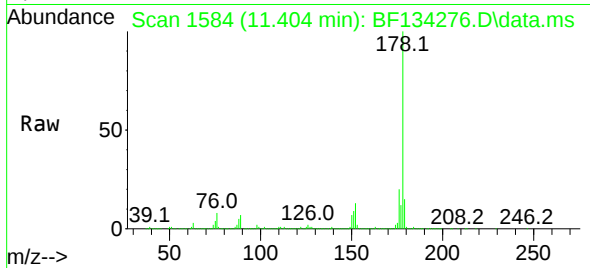
Tgt Ion:188 Resp: 237437
Ion Ratio Lower Upper
188 100
94 7.9 6.4 9.6
80 8.7 7.3 10.9





#71
Phenanthrene
Concen: 80.011 ng
RT: 11.404 min Scan# 1584
Delta R.T. 0.000 min
Lab File: BF134276.D
Acq: 13 Jul 2023 23:18

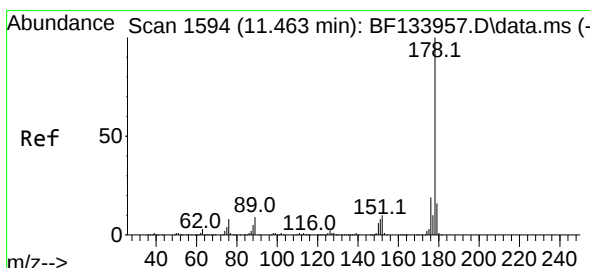
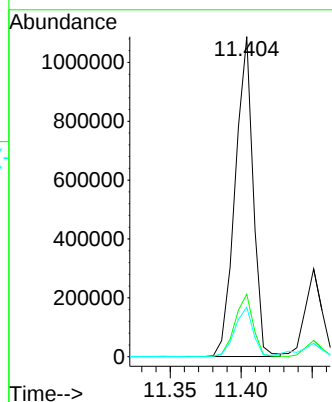
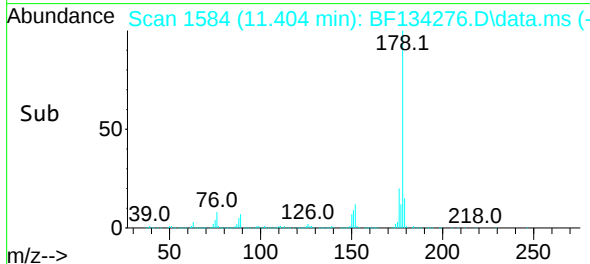
Instrument :
BNA_F
ClientSampleId :
PAT-DIS-01-7-10-2023



Tgt Ion:178 Resp: 956370
Ion Ratio Lower Upper
178 100
176 19.6 16.0 24.0
179 15.5 12.4 18.6

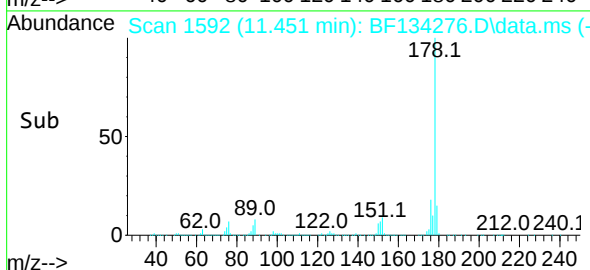
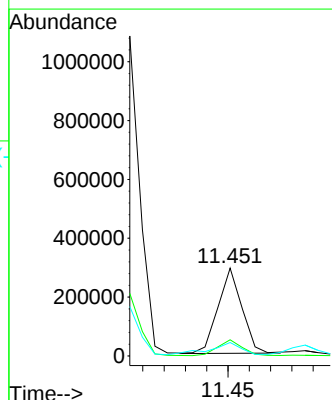
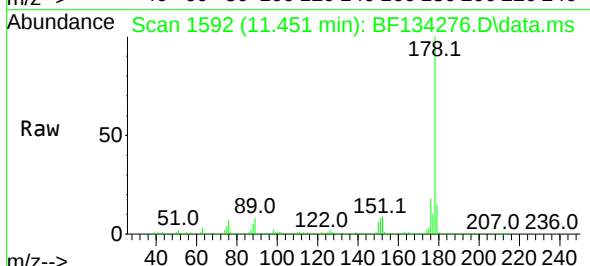
Manual Integrations
APPROVED

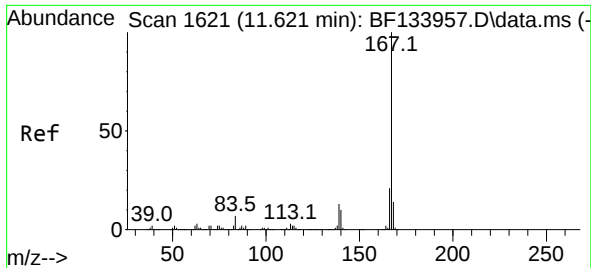
Reviewed By :Yogesh Patel 07/14/2023
Supervised By :mohammad ahmed 07/14/2023



#72
Anthracene
Concen: 18.225 ng
RT: 11.451 min Scan# 1592
Delta R.T. -0.006 min
Lab File: BF134276.D
Acq: 13 Jul 2023 23:18

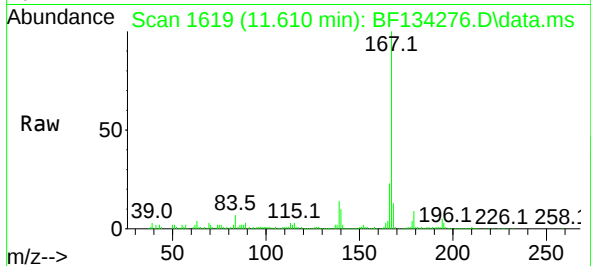
Tgt Ion:178 Resp: 226579
Ion Ratio Lower Upper
178 100
176 18.4 15.3 22.9
179 15.2 12.4 18.6





#73
 Carbazole
 Concen: 8.994 ng
 RT: 11.610 min Scan# 1619
 Delta R.T. -0.006 min
 Lab File: BF134276.D
 Acq: 13 Jul 2023 23:18

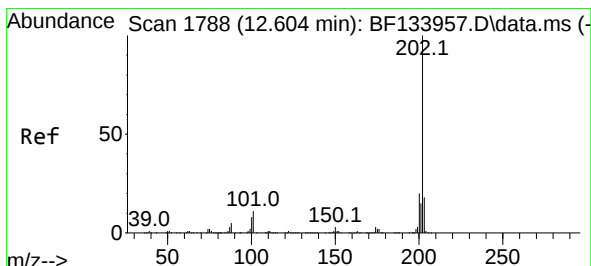
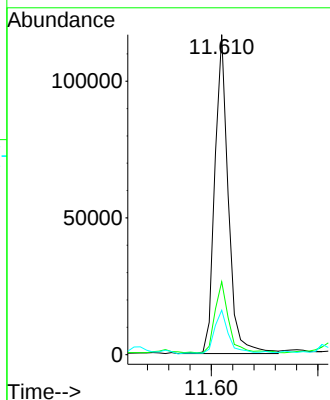
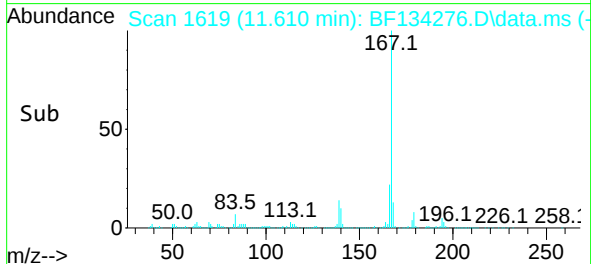
Instrument :
 BNA_F
 ClientSampleId :
 PAT-DIS-01-7-10-2023



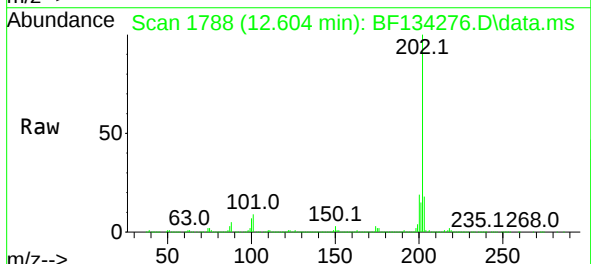
Tgt Ion:167 Resp: 10234
 Ion Ratio Lower Upper
 167 100
 166 22.8 17.0 25.6
 139 13.9 10.4 15.6

Manual Integrations
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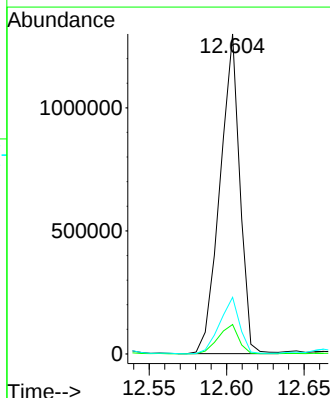
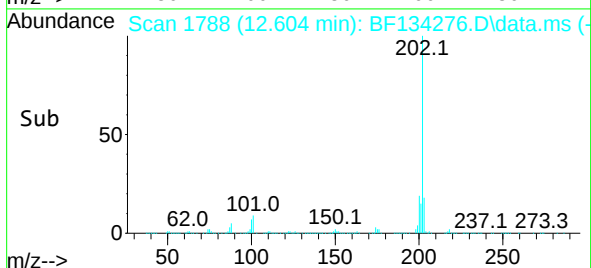
Reviewed By :Yogesh Patel 07/14/2023
 Supervised By :mohammad ahmed 07/14/2023

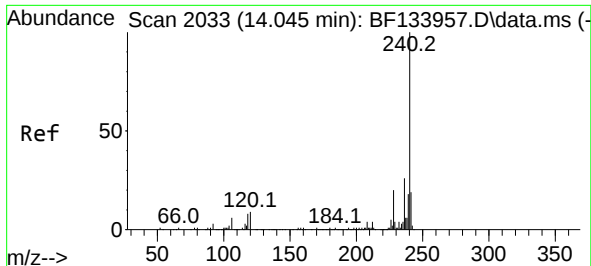


#75
 Fluoranthene
 Concen: 89.574 ng
 RT: 12.604 min Scan# 1788
 Delta R.T. 0.000 min
 Lab File: BF134276.D
 Acq: 13 Jul 2023 23:18



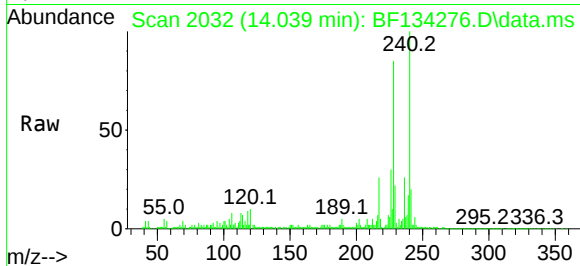
Tgt Ion:202 Resp: 1157493
 Ion Ratio Lower Upper
 202 100
 101 9.2 0.0 31.0
 203 17.7 0.0 37.6





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF134276.D
Acq: 13 Jul 2023 23:18

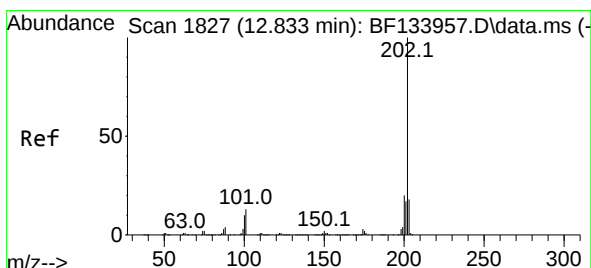
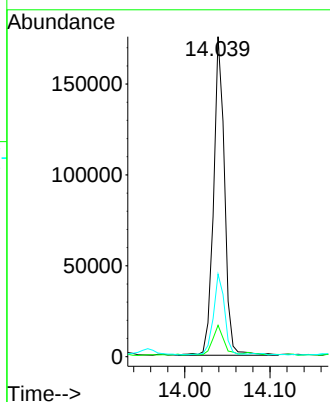
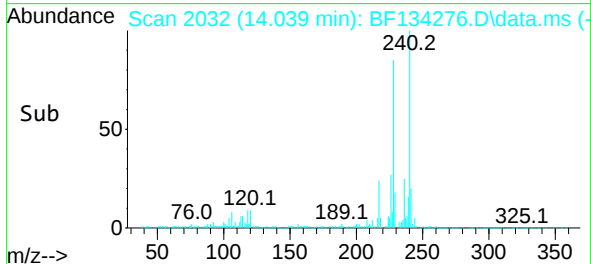
Instrument :
BNA_F
ClientSampleId :
PAT-DIS-01-7-10-2023



Tgt Ion:240 Resp: 157288
Ion Ratio Lower Upper
240 100
120 9.8 7.4 11.0
236 25.8 21.0 31.6

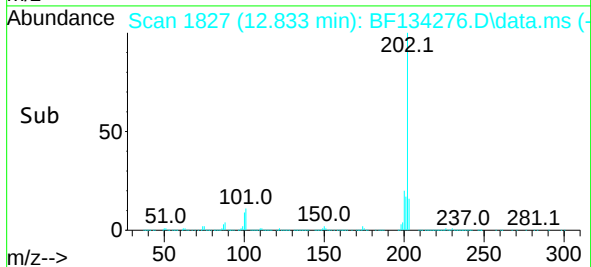
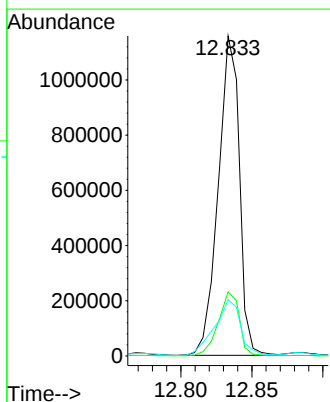
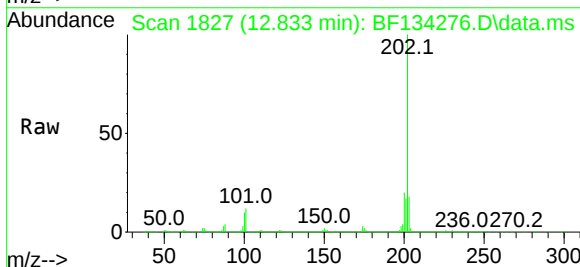
Manual Integrations
APPROVED

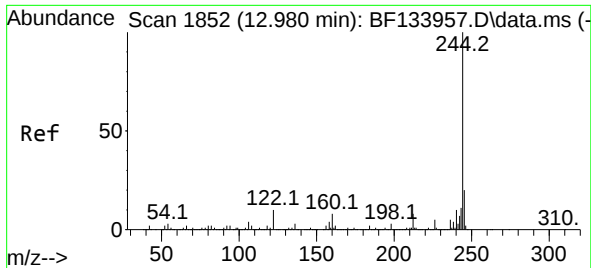
Reviewed By :Yogesh Patel 07/14/2023
Supervised By :mohammad ahmed 07/14/2023



#78
Pyrene
Concen: 81.761 ng
RT: 12.833 min Scan# 1827
Delta R.T. 0.000 min
Lab File: BF134276.D
Acq: 13 Jul 2023 23:18

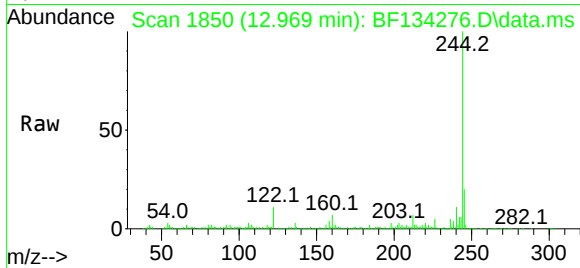
Tgt Ion:202 Resp: 1196794
Ion Ratio Lower Upper
202 100
200 20.0 16.1 24.1
203 17.6 14.3 21.5





#79
 Terphenyl-d14
 Concen: 26.778 ng
 RT: 12.969 min Scan# 1850
 Delta R.T. -0.006 min
 Lab File: BF134276.D
 Acq: 13 Jul 2023 23:18

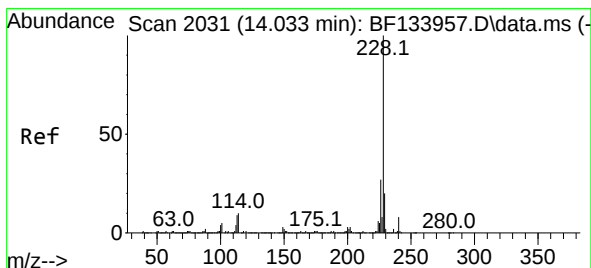
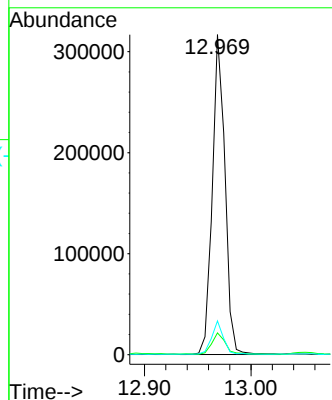
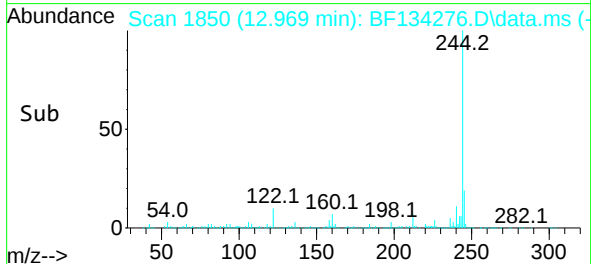
Instrument :
 BNA_F
 ClientSampleId :
 PAT-DIS-01-7-10-2023



Tgt Ion:244 Resp: 26170
 Ion Ratio Lower Upper
 244 100
 212 6.8 6.0 9.0
 122 10.5 8.3 12.5

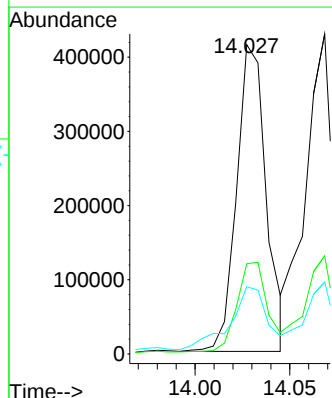
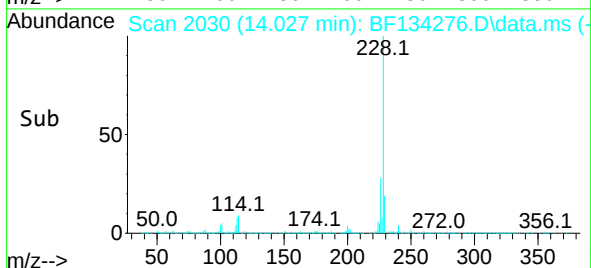
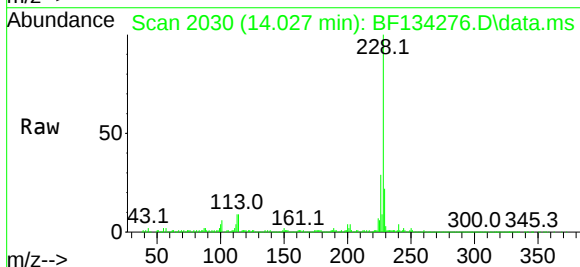
Manual Integrations
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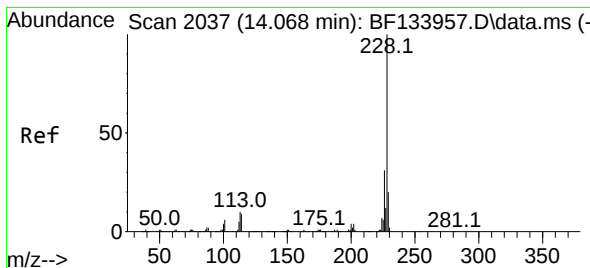
Reviewed By :Yogesh Patel 07/14/2023
 Supervised By :mohammad ahmed 07/14/2023



#81
 Benzo(a)anthracene
 Concen: 41.240 ng
 RT: 14.027 min Scan# 2030
 Delta R.T. -0.006 min
 Lab File: BF134276.D
 Acq: 13 Jul 2023 23:18

Tgt Ion:228 Resp: 449860
 Ion Ratio Lower Upper
 228 100
 226 29.2 22.0 33.0
 229 21.8 16.3 24.5





#83

Chrysene

Concen: 41.172 ng

RT: 14.068 min Scan# 2037

Delta R.T. 0.000 min

Lab File: BF134276.D

Acq: 13 Jul 2023 23:18

Instrument :

BNA_F

ClientSampleId :

PAT-DIS-01-7-10-2023

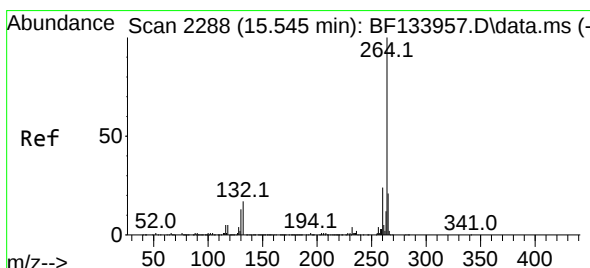
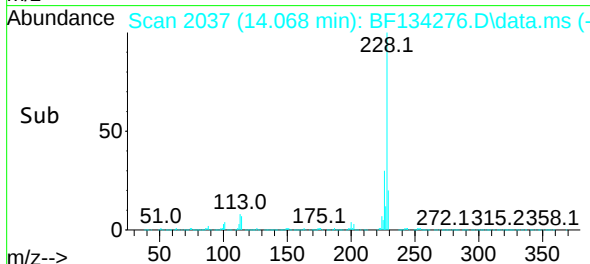
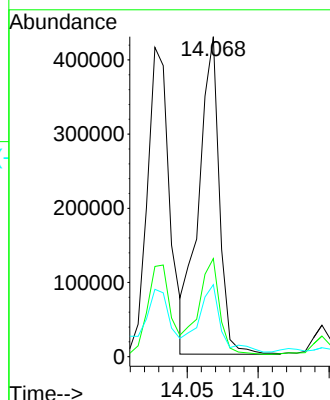
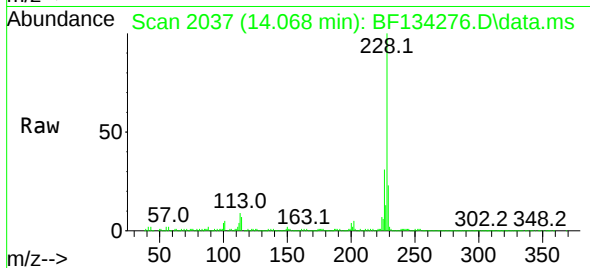
Tgt Ion:228	Resp: 434990
Ion Ratio	Lower Upper
228 100	
226 30.7	24.4 36.6
229 22.5	16.1 24.1

Manual Integrations

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Reviewed By :Yogesh Patel 07/14/2023

Supervised By :mohammad ahmed 07/14/2023



#86

Perylene-d12

Concen: 20.000 ng

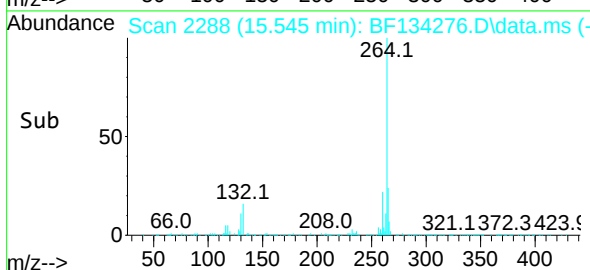
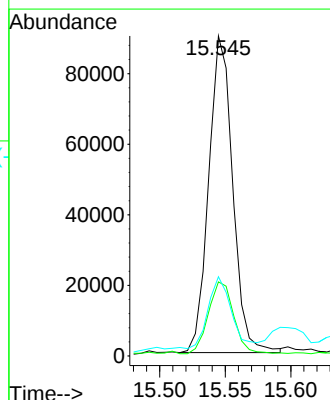
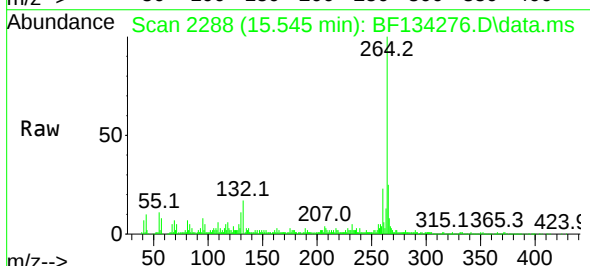
RT: 15.545 min Scan# 2288

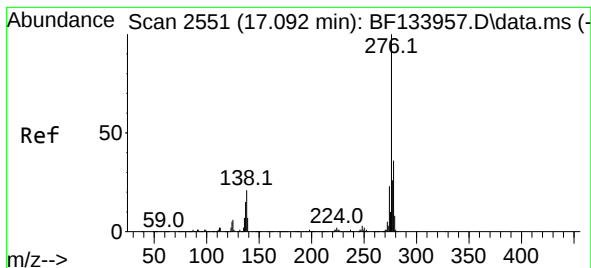
Delta R.T. 0.000 min

Lab File: BF134276.D

Acq: 13 Jul 2023 23:18

Tgt Ion:264	Resp: 114268		
Ion Ratio	Lower	Upper	
264	100		
260	23.2	19.5	29.3
265	24.7	16.6	25.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 15.953 ng

RT: 17.092 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF134276.D

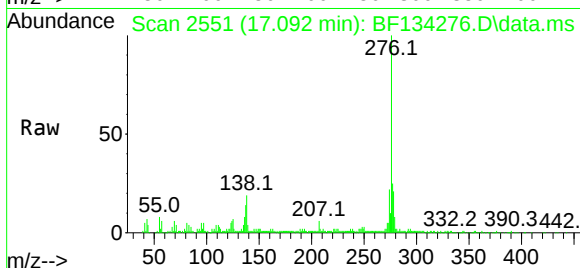
Acq: 13 Jul 2023 23:18

Instrument :

BNA_F

ClientSampleId :

PAT-DIS-01-7-10-2023



Tgt Ion: 276 Resp: 12649

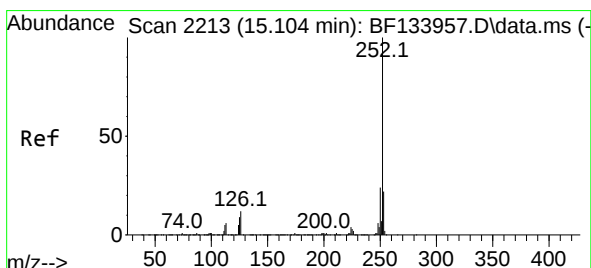
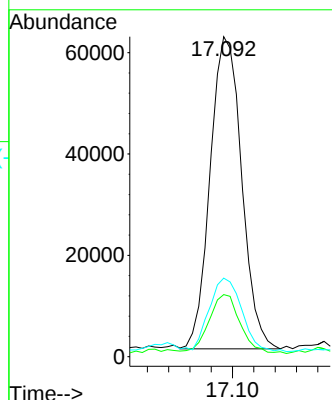
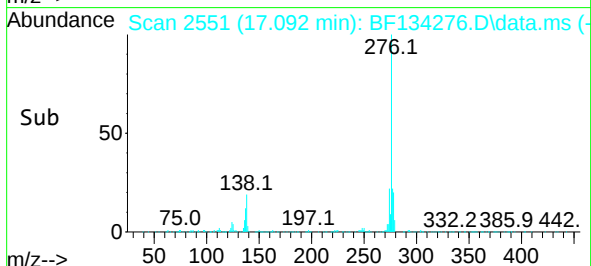
Ion	Ratio	Lower	Upper
276	100		
138	18.9	18.7	28.1
277	24.5	19.9	29.9

Manual Integrations

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Reviewed By :Yogesh Patel 07/14/2023

Supervised By :mohammad ahmed 07/14/2023



#88

Benzo(b)fluoranthene

Concen: 49.751 ng m

RT: 15.104 min Scan# 2213

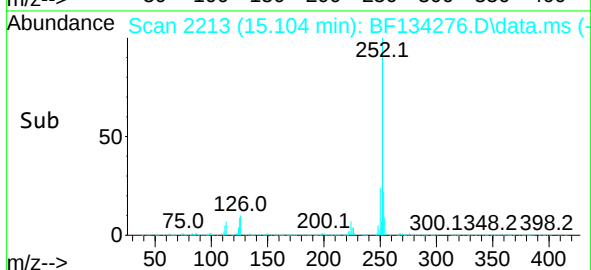
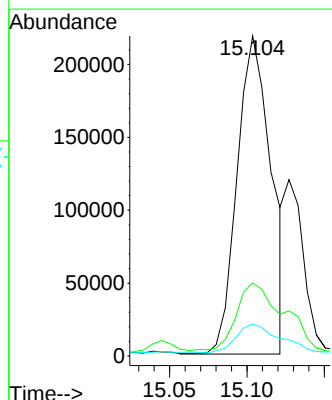
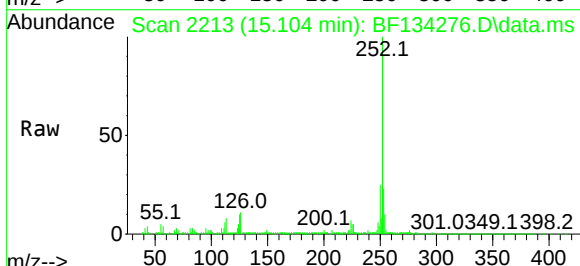
Delta R.T. 0.000 min

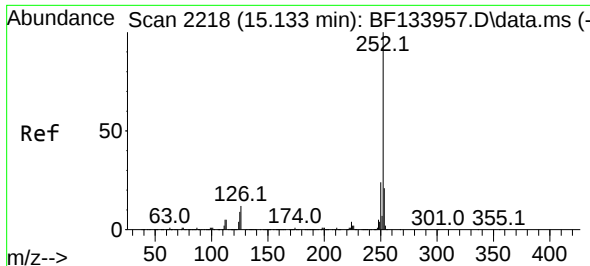
Lab File: BF134276.D

Acq: 13 Jul 2023 23:18

Tgt Ion: 252 Resp: 334279

Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.4	26.0
125	10.0	7.1	10.7





#89

Benzo(k)fluoranthene

Concen: 15.023 ng m

RT: 15.127 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF134276.D

Acq: 13 Jul 2023 23:18

Instrument :

BNA_F

ClientSampleId :

PAT-DIS-01-7-10-2023

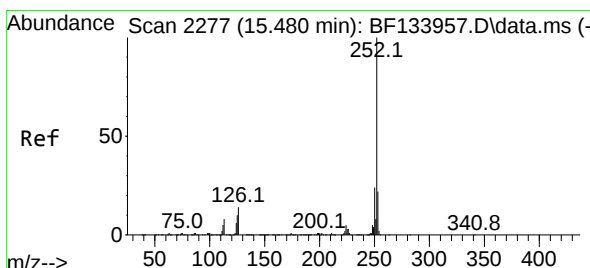
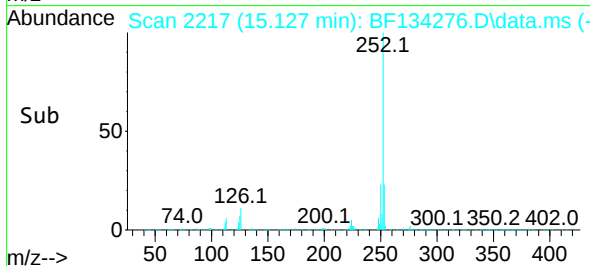
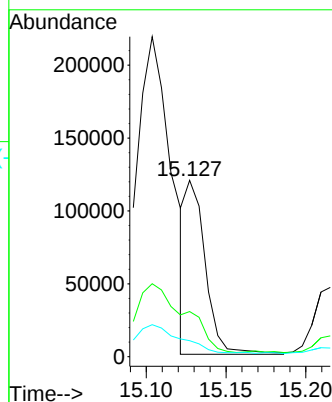
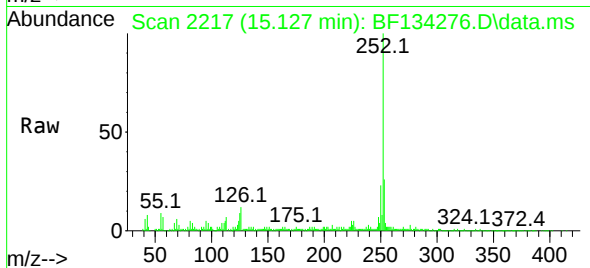
Tgt Ion:252 Resp: 10277
 Ion Ratio Lower Upper
 252 100
 253 25.6 16.9 25.3
 125 9.1 7.4 11.2

Manual Integrations

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Reviewed By :Yogesh Patel 07/14/2023

Supervised By :mohammad ahmed 07/14/2023



#90

Benzo(a)pyrene

Concen: 37.547 ng

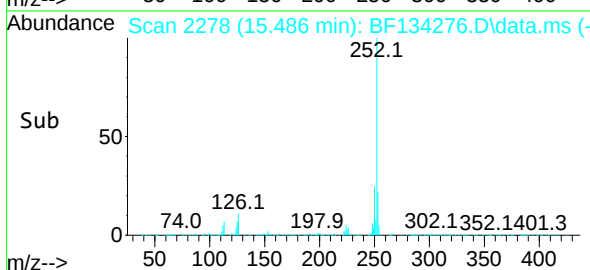
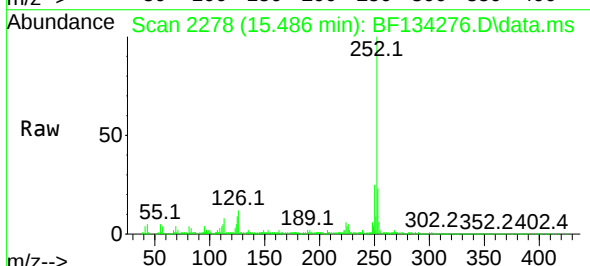
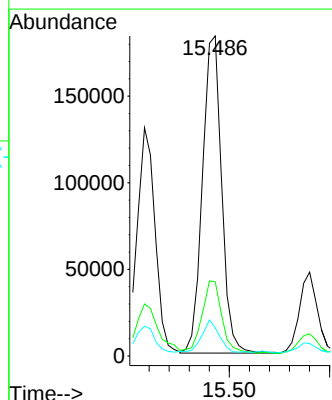
RT: 15.486 min Scan# 2278

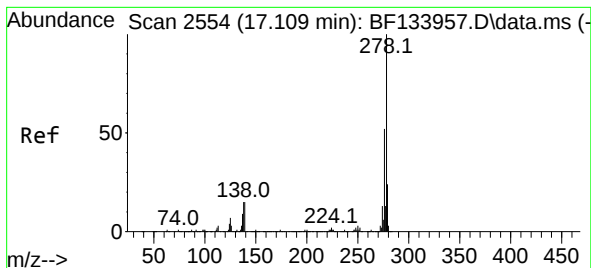
Delta R.T. 0.006 min

Lab File: BF134276.D

Acq: 13 Jul 2023 23:18

Tgt Ion:252 Resp: 243950
 Ion Ratio Lower Upper
 252 100
 253 23.2 17.4 26.0
 125 8.7 8.4 12.6





#91

Dibenzo(a,h)anthracene

Concen: 5.742 ng m

RT: 17.098 min Scan# 2

Delta R.T. -0.018 min

Lab File: BF134276.D

Acq: 13 Jul 2023 23:18

Instrument :

BNA_F

ClientSampleId :

PAT-DIS-01-7-10-2023

Tgt Ion:278 Resp: 3718

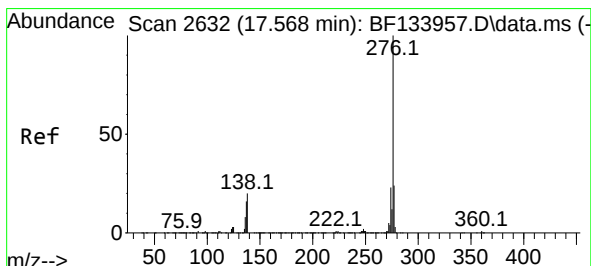
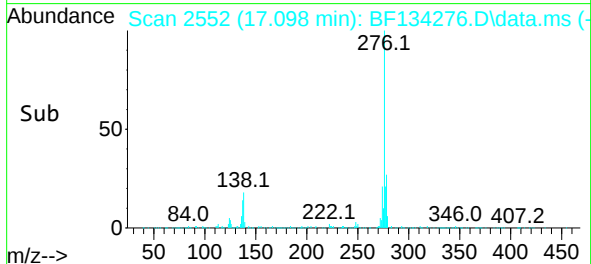
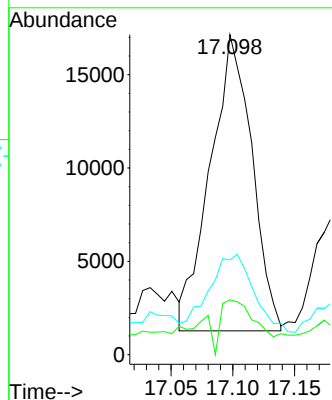
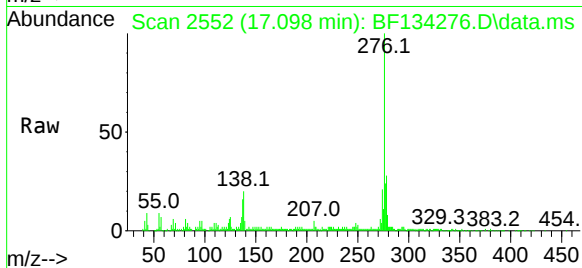
Ion	Ratio	Lower	Upper
278	100		
139	17.1	12.2	18.4
279	29.6	19.4	29.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/14/2023

Supervised By :mohammad ahmed 07/14/2023



#92

Benzo(g,h,i)perylene

Concen: 20.677 ng

RT: 17.562 min Scan# 2631

Delta R.T. -0.006 min

Lab File: BF134276.D

Acq: 13 Jul 2023 23:18

Tgt Ion:276 Resp: 138095

Ion	Ratio	Lower	Upper
276	100		
277	23.5	19.0	28.6
138	18.9	16.2	24.2

