

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120623\
 Data File : BF136432.D
 Acq On : 06 Dec 2023 17:13
 Operator : CG\JU
 Sample : 05602-07
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ROUTE-4-TP-4

Quant Time: Dec 07 00:53:22 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF120523.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 06 09:40:27 2023
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 12/07/2023
 Supervised By :mohammad ahmed 12/07/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.799	152	92745	20.000	ng	0.00
21) Naphthalene-d8	8.075	136	328029	20.000	ng	0.00
39) Acenaphthene-d10	9.828	164	129079	20.000	ng	-0.01
64) Phenanthrene-d10	11.322	188	217313	20.000	ng	0.00
76) Chrysene-d12	13.969	240	202659	20.000	ng	#-0.01
86) Perylene-d12	15.451	264	162172	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.428	112	477921	76.102	ng	0.00
7) Phenol-d6	6.428	99	558747	71.312	ng	-0.02
23) Nitrobenzene-d5	7.357	82	322506	53.150	ng	-0.01
42) 2,4,6-Tribromophenol	10.622	330	101022	63.474	ng	-0.01
45) 2-Fluorobiphenyl	9.151	172	516287	54.577	ng	-0.01
79) Terphenyl-d14	12.916	244	542753	35.299	ng	0.00
Target Compounds						
						Qvalue
71) Phenanthrene	11.345	178	118556	9.926	ng	98
72) Anthracene	11.392	178	40606	3.375	ng	98
75) Fluoranthene	12.539	202	170614	13.630	ng	98
78) Pyrene	12.769	202	163292	8.227	ng	97
81) Benzo(a)anthracene	13.963	228	73219	5.187	ng	96
83) Chrysene	13.998	228	66459	4.785	ng	97
88) Benzo(b)fluoranthene	15.016	252	55939m	5.045	ng	
89) Benzo(k)fluoranthene	15.045	252	21321m	2.040	ng	
90) Benzo(a)pyrene	15.386	252	42261	4.615	ng	98
92) Benzo(g,h,i)perylene	17.398	276	19371	2.045	ng	96

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

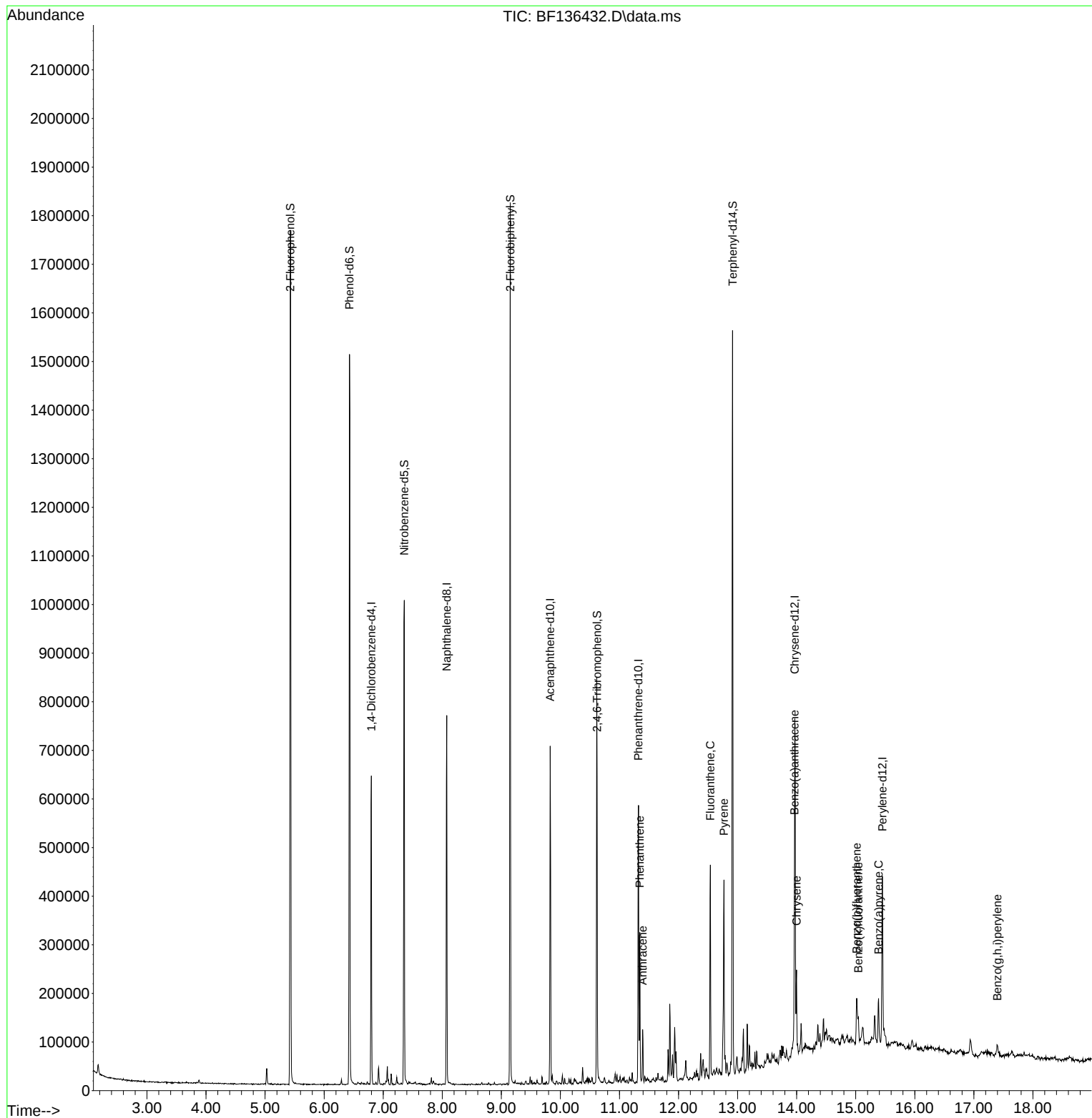
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120623\
Data File : BF136432.D
Acq On : 06 Dec 2023 17:13
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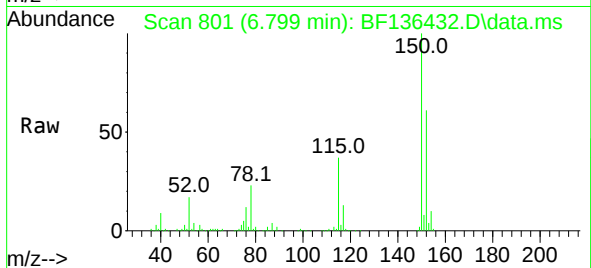
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.799 min Scan# 801
Delta R.T. -0.005 min
Lab File: BF136432.D
Acq: 06 Dec 2023 17:13

Instrument :

BNA_F

ClientSampleId :

ROUTE-4-TP-4

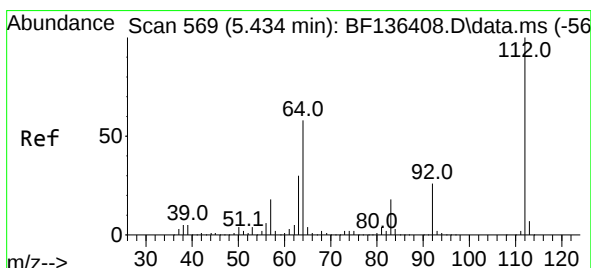
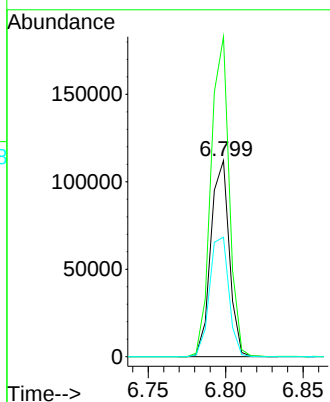
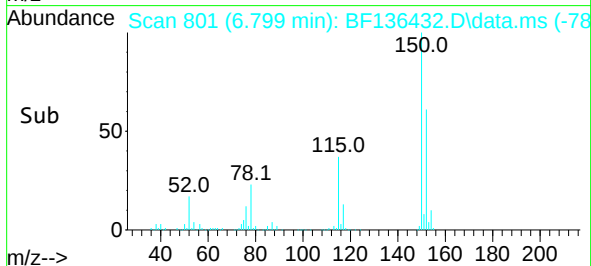


Tgt Ion:152 Resp: 92745
Ion Ratio Lower Upper
152 100
150 163.1 126.4 189.6
115 60.9 48.2 72.4

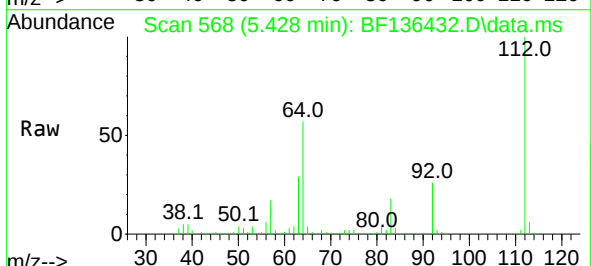
Manual Integrations

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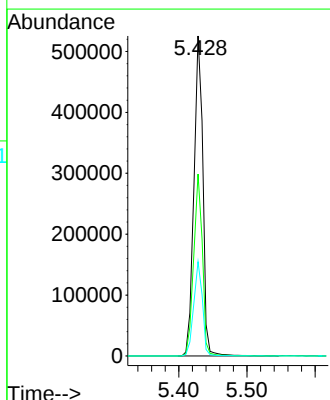
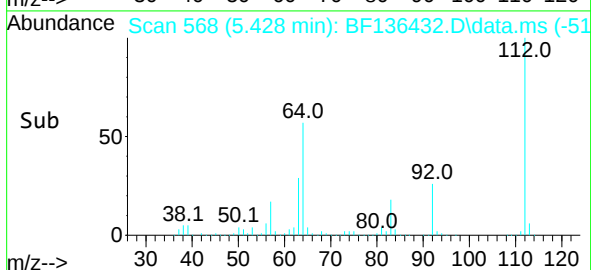
Reviewed By :Yogesh Patel 12/07/2023
Supervised By :mohammad ahmed 12/07/2023

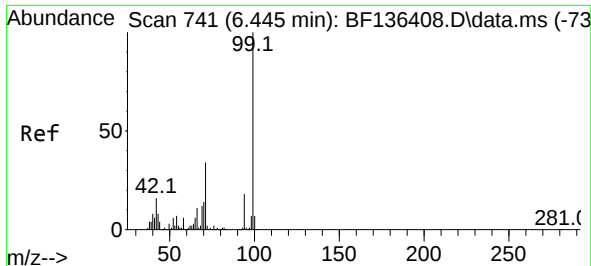


#5
2-Fluorophenol
Concen: 76.102 ng
RT: 5.428 min Scan# 568
Delta R.T. -0.006 min
Lab File: BF136432.D
Acq: 06 Dec 2023 17:13



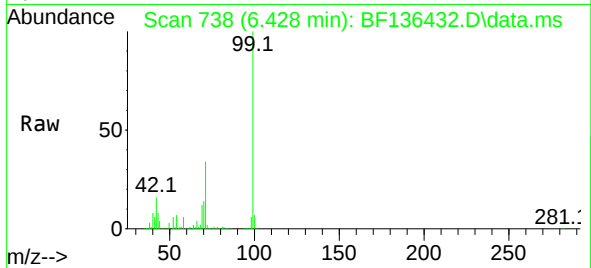
Tgt Ion:112 Resp: 477921
Ion Ratio Lower Upper
112 100
64 56.8 46.5 69.7
63 29.5 23.9 35.9





#7
Phenol-d6
Concen: 71.312 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.017 min
Lab File: BF136432.D
Acq: 06 Dec 2023 17:13

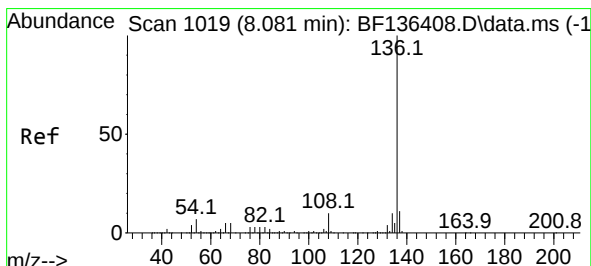
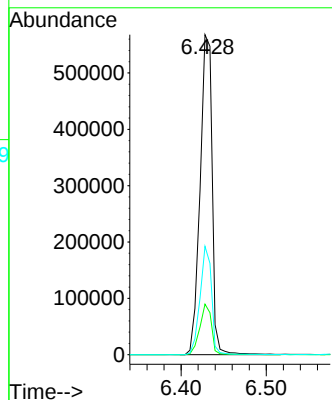
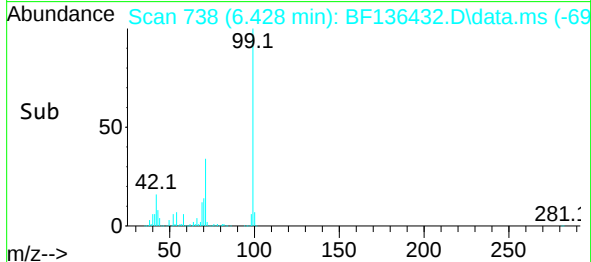
Instrument :
BNA_F
ClientSampleId :
ROUTE-4-TP-4



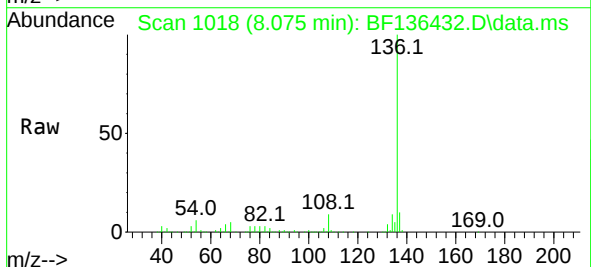
Tgt Ion: 99 Resp: 55874
Ion Ratio Lower Upper
99 100
42 15.8 12.8 19.2
71 33.9 27.0 40.4

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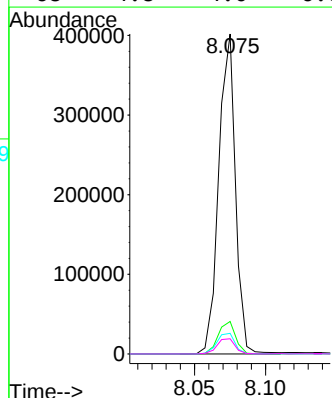
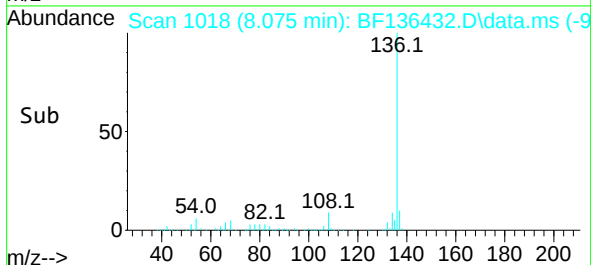
Reviewed By :Yogesh Patel 12/07/2023
Supervised By :mohammad ahmed 12/07/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.075 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF136432.D
Acq: 06 Dec 2023 17:13



Tgt Ion:136 Resp: 328029
Ion Ratio Lower Upper
136 100
137 10.1 8.6 12.8
54 6.5 5.7 8.5
68 4.8 4.0 6.0





#23

Nitrobenzene-d5

Concen: 53.150 ng

RT: 7.357 min Scan# 89

Delta R.T. -0.012 min

Lab File: BF136432.D

Acq: 06 Dec 2023 17:13

Instrument :

BNA_F

ClientSampleId :

ROUTE-4-TP-4

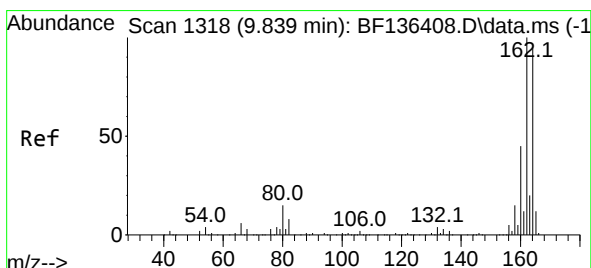
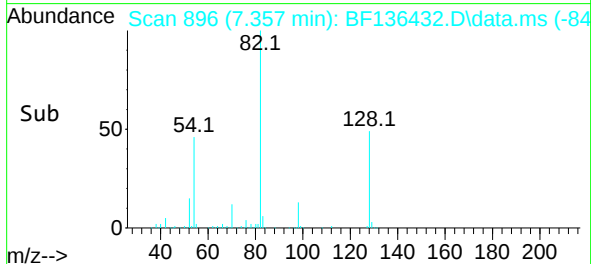
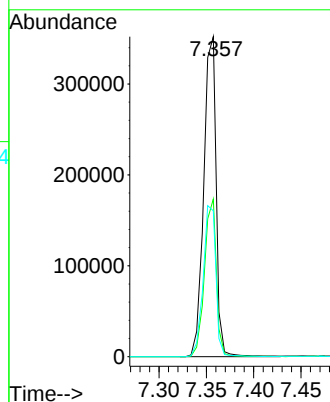
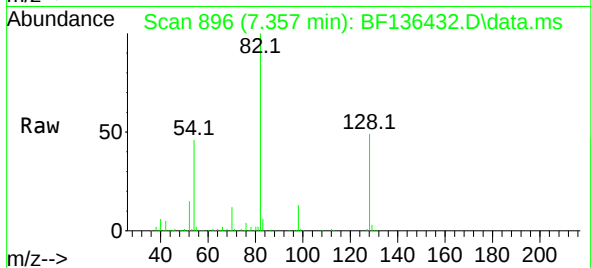
Tgt Ion:	82	Resp:	322500
Ion Ratio	Lower	Upper	
82	100		
128	49.3	36.3	54.5
54	45.6	39.0	58.6

Manual Integrations

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Supervised By :mohammad ahmed 12/07/2023



#39

Acenaphthene-d10

Concen: 20.000 ng

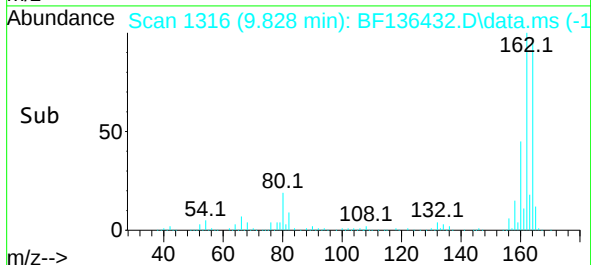
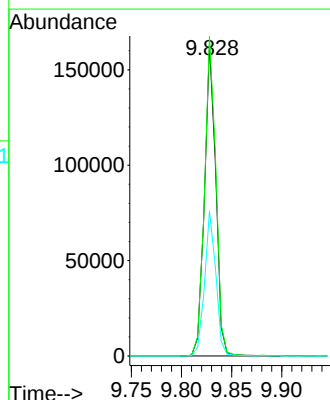
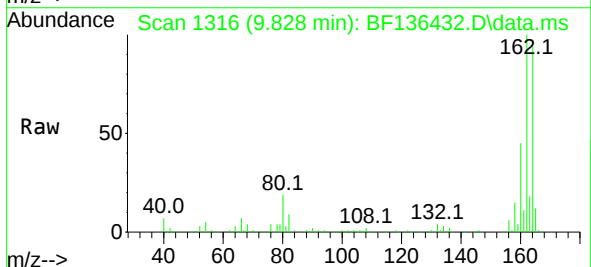
RT: 9.828 min Scan# 1316

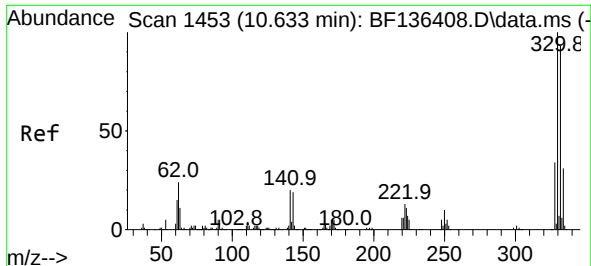
Delta R.T. -0.012 min

Lab File: BF136432.D

Acq: 06 Dec 2023 17:13

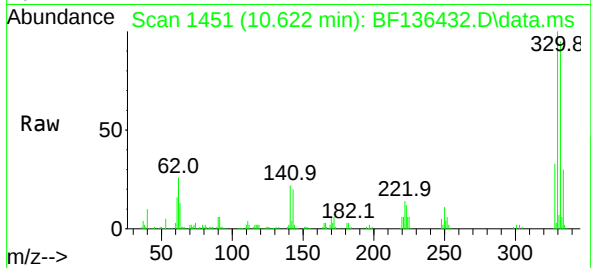
Tgt Ion:	164	Resp:	129079
Ion Ratio	Lower	Upper	
164	100		
162	102.6	84.4	126.6
160	46.5	37.6	56.4





#42
2,4,6-Tribromophenol
Concen: 63.474 ng
RT: 10.622 min Scan# 1451
Delta R.T. -0.012 min
Lab File: BF136432.D
Acq: 06 Dec 2023 17:13

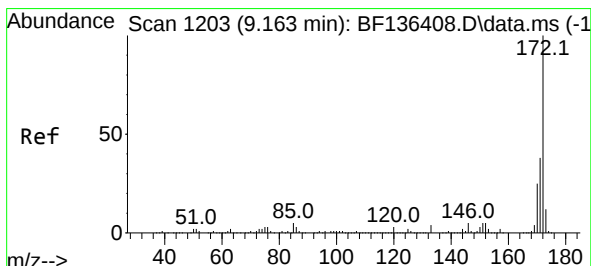
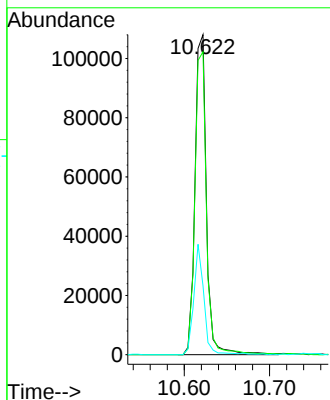
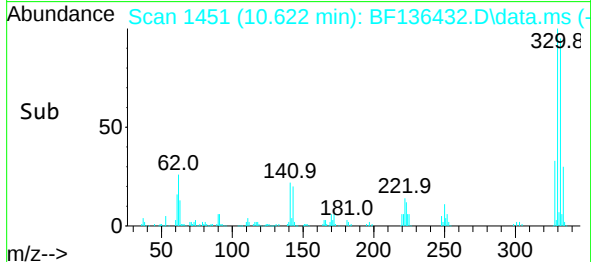
Instrument :
BNA_F
ClientSampleId :
ROUTE-4-TP-4



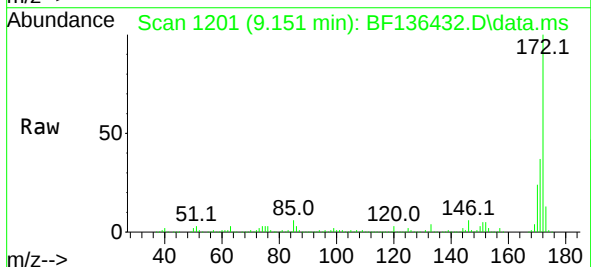
Tgt Ion: 330 Resp: 10102
Ion Ratio Lower Upper
330 100
332 95.6 76.4 114.6
141 30.6 23.4 35.2

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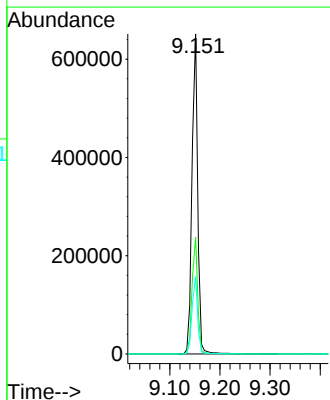
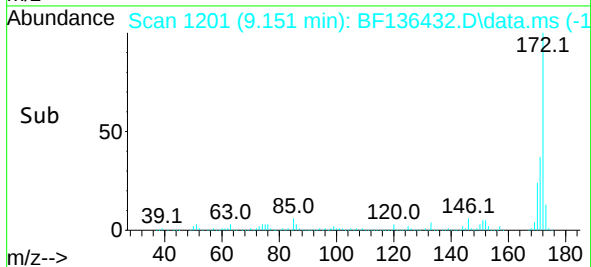
Reviewed By : Yogesh Patel 12/07/2023
Supervised By : mohammad ahmed 12/07/2023

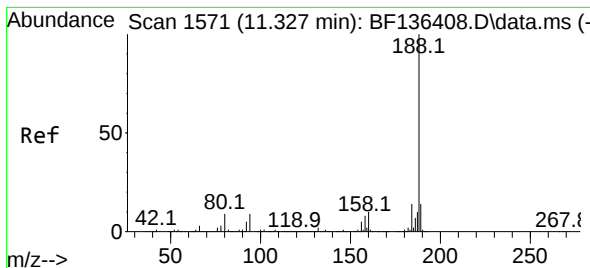


#45
2-Fluorobiphenyl
Concen: 54.577 ng
RT: 9.151 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF136432.D
Acq: 06 Dec 2023 17:13



Tgt Ion: 172 Resp: 516287
Ion Ratio Lower Upper
172 100
171 36.6 30.5 45.7
170 24.2 19.9 29.9





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.322 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF136432.D

Acq: 06 Dec 2023 17:13

Instrument :

BNA_F

ClientSampleId :

ROUTE-4-TP-4

Tgt Ion:188 Resp: 21731

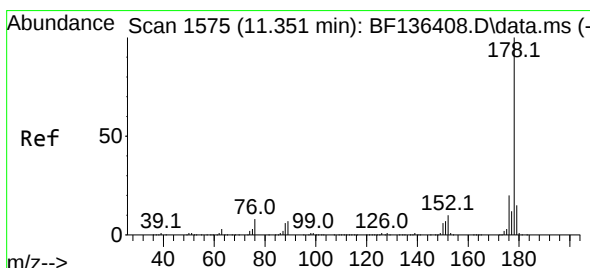
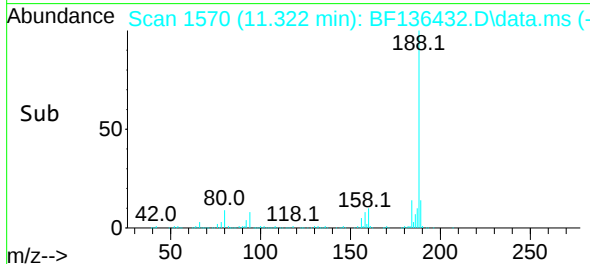
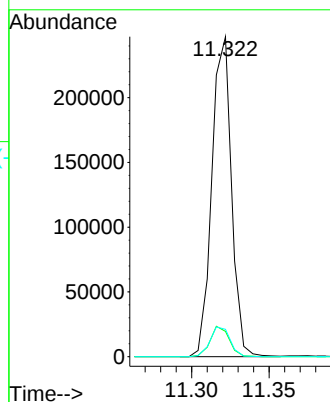
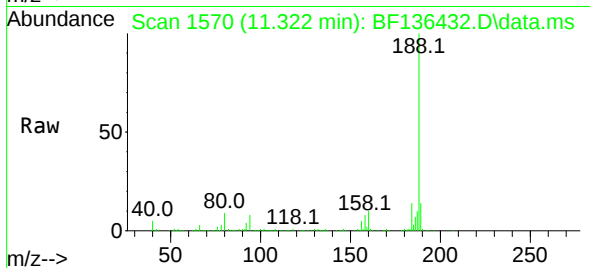
Ion	Ratio	Lower	Upper
188	100		
94	7.9	7.2	10.8
80	8.6	7.2	10.8

Manual Integrations

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Supervised By :mohammad ahmed 12/07/2023



#71

Phenanthrene

Concen: 9.926 ng

RT: 11.345 min Scan# 1574

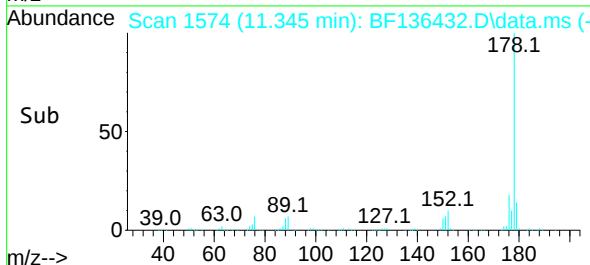
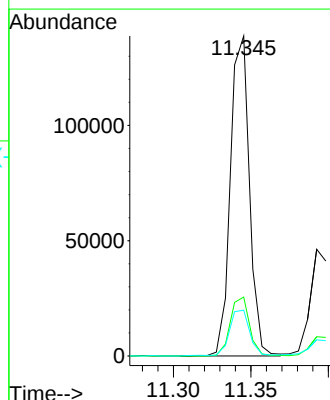
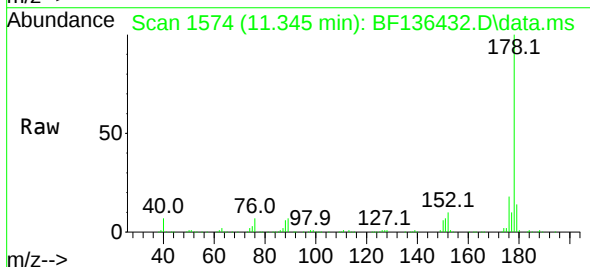
Delta R.T. -0.006 min

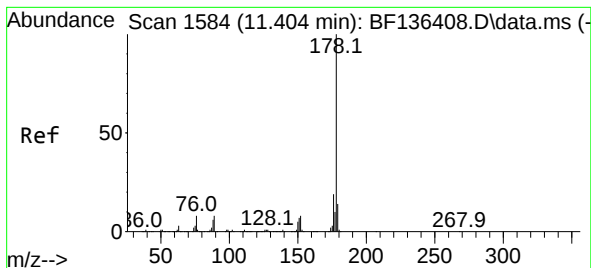
Lab File: BF136432.D

Acq: 06 Dec 2023 17:13

Tgt Ion:178 Resp: 118556

Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.9	23.9
179	14.3	11.8	17.6





#72

Anthracene

Concen: 3.375 ng

RT: 11.392 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF136432.D

Acq: 06 Dec 2023 17:13

Instrument :

BNA_F

ClientSampleId :

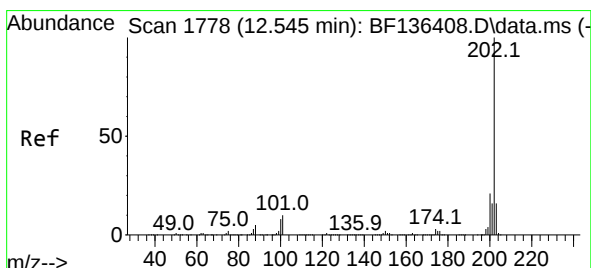
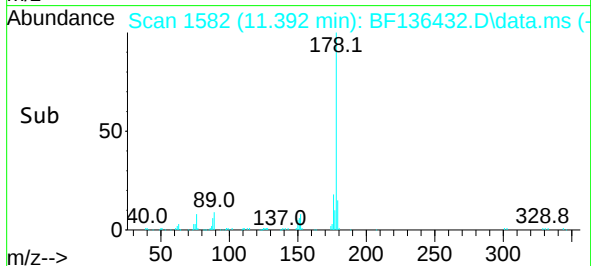
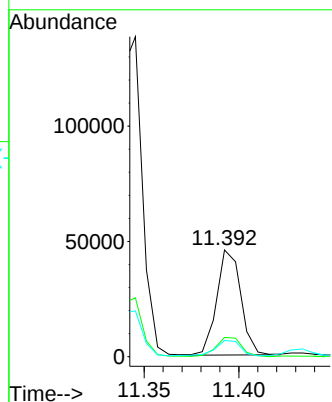
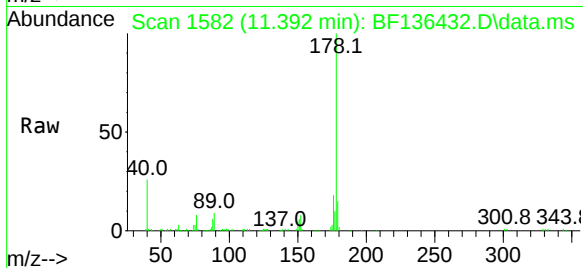
ROUTE-4-TP-4

Tgt Ion:178 Resp: 40600
 Ion Ratio Lower Upper
 178 100
 176 17.9 15.3 22.9
 179 15.1 11.4 17.0

Manual Integrations

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Reviewed By :Yogesh Patel 12/07/2023
 Supervised By :mohammad ahmed 12/07/2023



#75

Fluoranthene

Concen: 13.630 ng

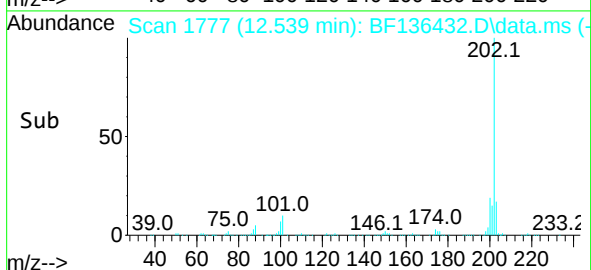
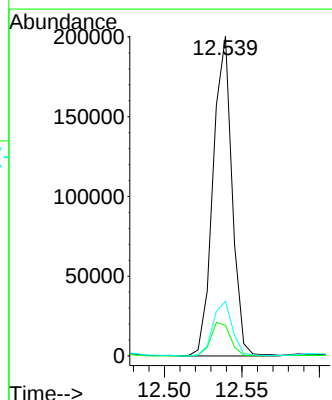
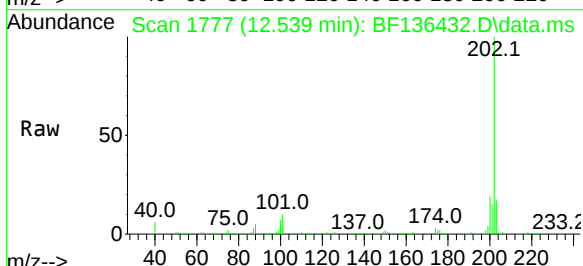
RT: 12.539 min Scan# 1777

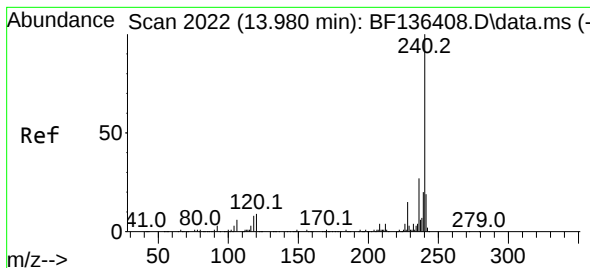
Delta R.T. -0.006 min

Lab File: BF136432.D

Acq: 06 Dec 2023 17:13

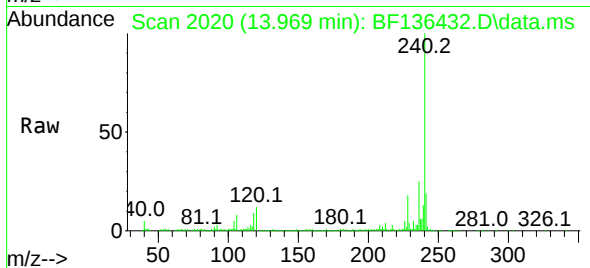
Tgt Ion:202 Resp: 170614
 Ion Ratio Lower Upper
 202 100
 101 9.6 0.0 29.9
 203 17.1 0.0 36.3





#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.969 min Scan# 2020
Delta R.T. -0.012 min
Lab File: BF136432.D
Acq: 06 Dec 2023 17:13

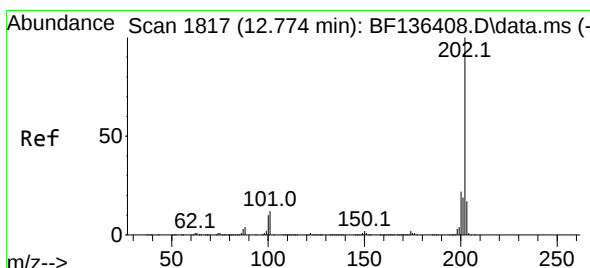
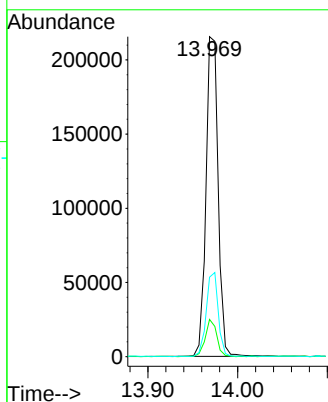
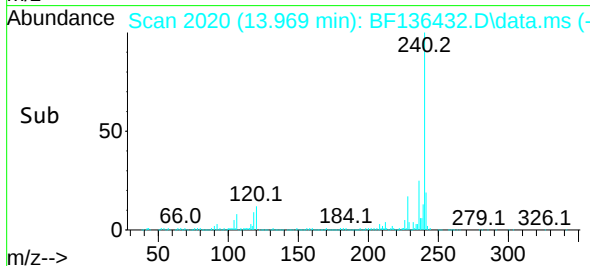
Instrument :
BNA_F
ClientSampleId :
ROUTE-4-TP-4



Tgt Ion:240 Resp: 202659
Ion Ratio Lower Upper
240 100
120 11.6 7.3 10.9
236 24.9 21.3 31.9

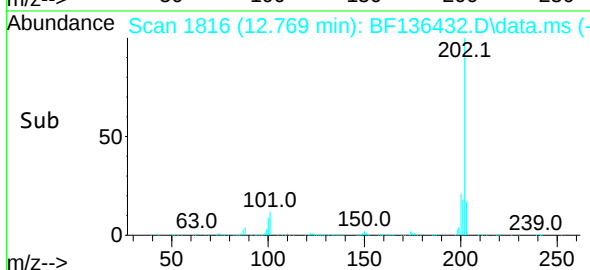
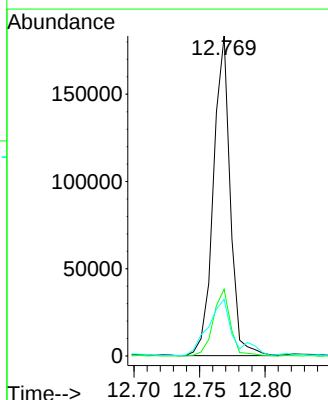
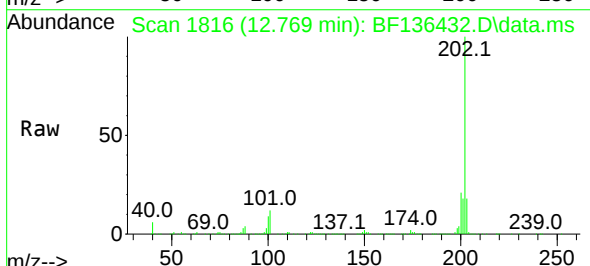
Manual Integrations
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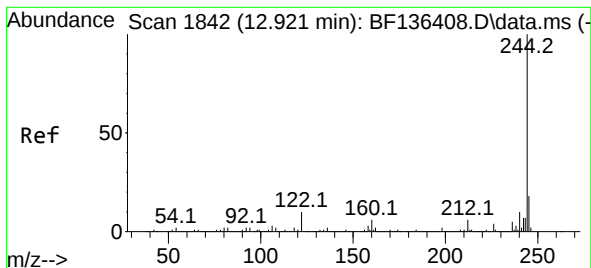
Reviewed By :Yogesh Patel 12/07/2023
Supervised By :mohammad ahmed 12/07/2023



#78
Pyrene
Concen: 8.227 ng
RT: 12.769 min Scan# 1816
Delta R.T. -0.006 min
Lab File: BF136432.D
Acq: 06 Dec 2023 17:13

Tgt Ion:202 Resp: 163292
Ion Ratio Lower Upper
202 100
200 20.8 18.0 27.0
203 17.7 13.5 20.3





#79

Terphenyl-d14

Concen: 35.299 ng

RT: 12.916 min Scan# 1841

Delta R.T. -0.006 min

Lab File: BF136432.D

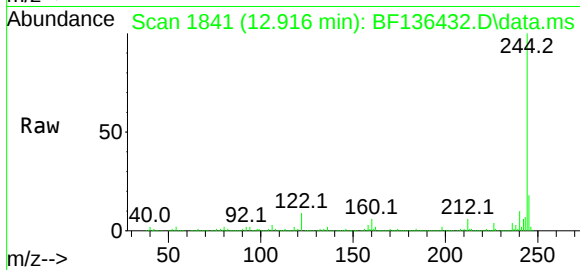
Acq: 06 Dec 2023 17:13

Instrument :

BNA_F

ClientSampleId :

ROUTE-4-TP-4



Tgt Ion:244 Resp: 54275

Ion Ratio Lower Upper

244 100

212 6.0 5.0 7.4

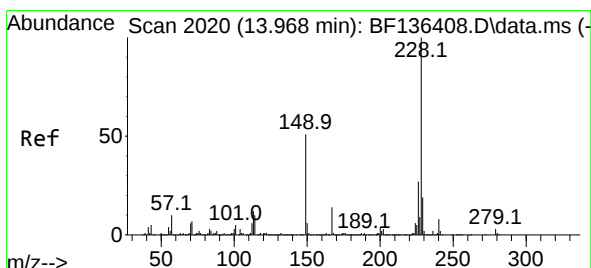
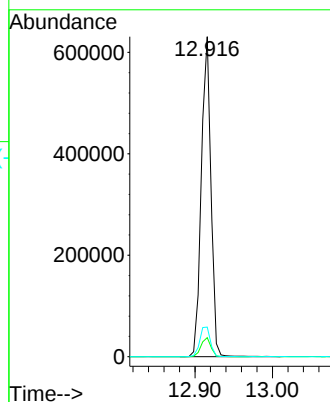
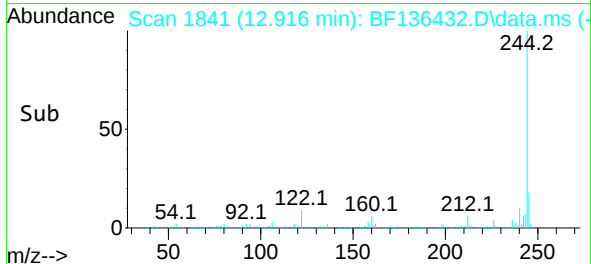
122 9.2 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/07/2023

Supervised By :mohammad ahmed 12/07/2023



#81

Benzo(a)anthracene

Concen: 5.187 ng

RT: 13.963 min Scan# 2019

Delta R.T. -0.006 min

Lab File: BF136432.D

Acq: 06 Dec 2023 17:13

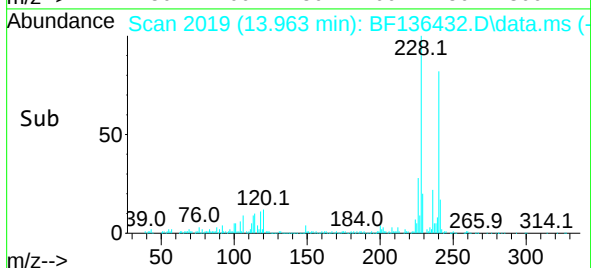
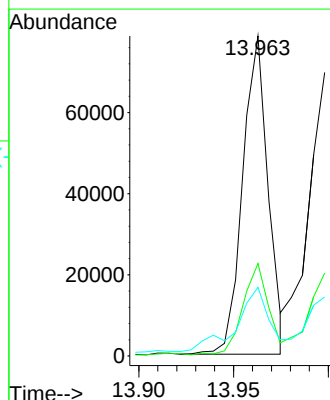
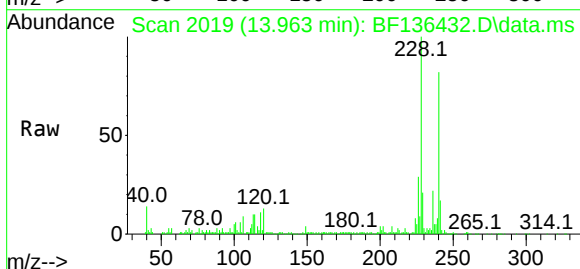
Tgt Ion:228 Resp: 73219

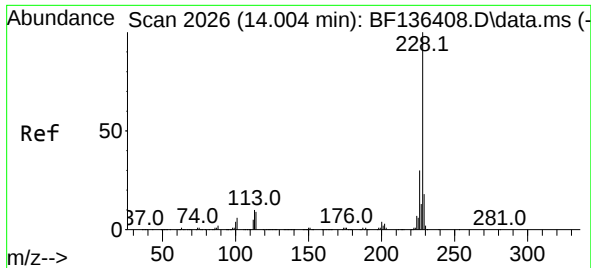
Ion Ratio Lower Upper

228 100

226 28.9 21.8 32.8

229 21.4 15.0 22.4





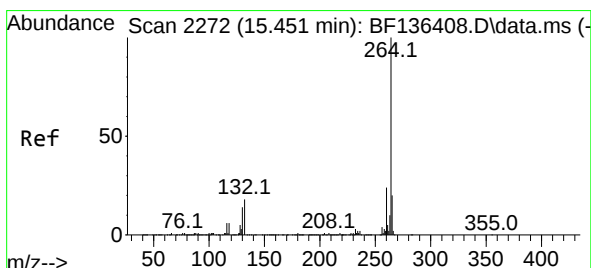
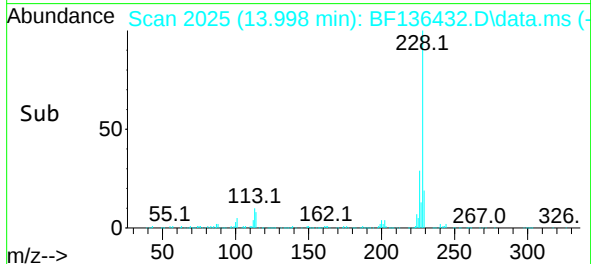
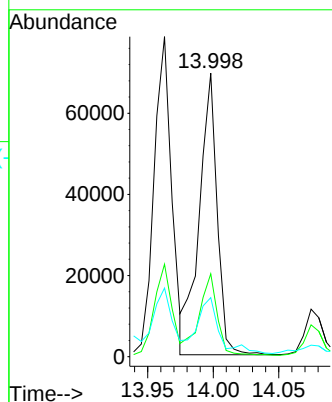
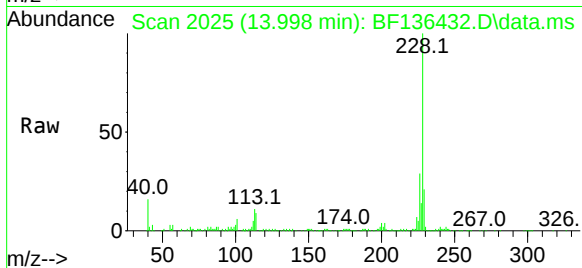
#83
Chrysene
Concen: 4.785 ng
RT: 13.998 min Scan# 2026
Delta R.T. -0.006 min
Lab File: BF136432.D
Acq: 06 Dec 2023 17:13

Instrument :
BNA_F
ClientSampleId :
ROUTE-4-TP-4

Tgt Ion:228 Resp: 66459
Ion Ratio Lower Upper
228 100
226 29.2 23.8 35.6
229 20.9 14.8 22.2

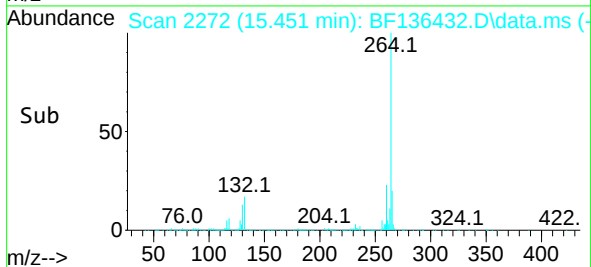
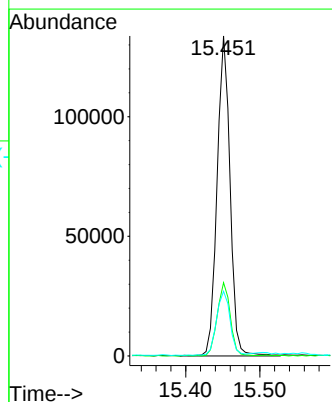
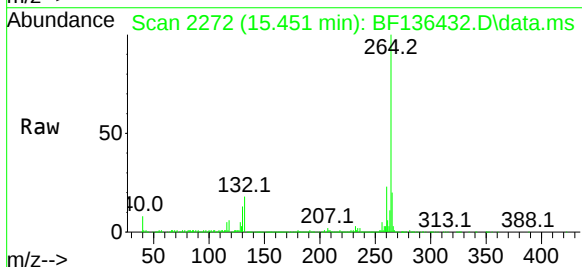
Manual Integrations
APPROVED

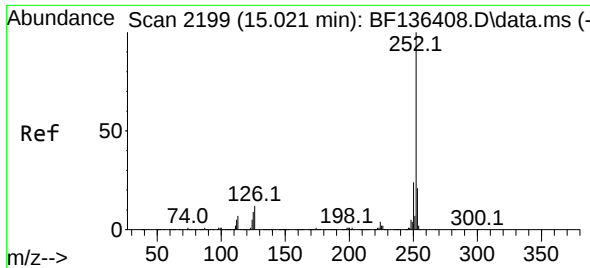
Reviewed By :Yogesh Patel 12/07/2023
Supervised By :mohammad ahmed 12/07/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.451 min Scan# 2272
Delta R.T. 0.000 min
Lab File: BF136432.D
Acq: 06 Dec 2023 17:13

Tgt Ion:264 Resp: 162172
Ion Ratio Lower Upper
264 100
260 22.9 19.2 28.8
265 20.2 15.9 23.9





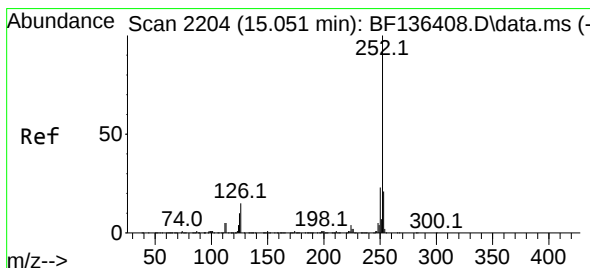
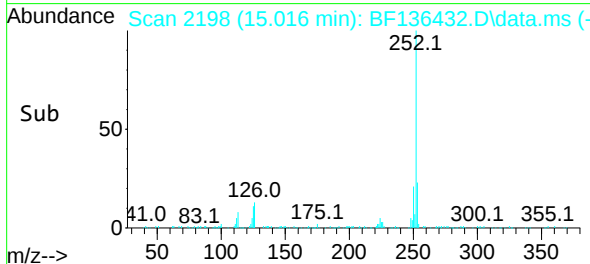
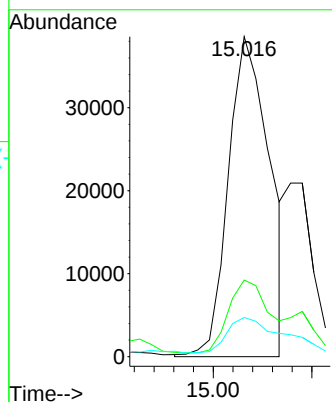
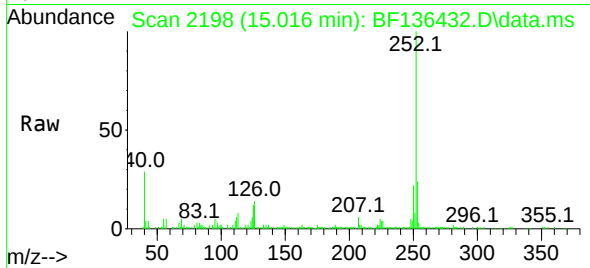
#88
Benzo(b)fluoranthene
Concen: 5.045 ng m
RT: 15.016 min Scan# 2199
Delta R.T. -0.006 min
Lab File: BF136432.D
Acq: 06 Dec 2023 17:13

Instrument :
BNA_F
ClientSampleId :
ROUTE-4-TP-4

Tgt Ion:252 Resp: 55939
Ion Ratio Lower Upper
252 100
253 24.0 16.9 25.3
125 12.3 7.4 11.2

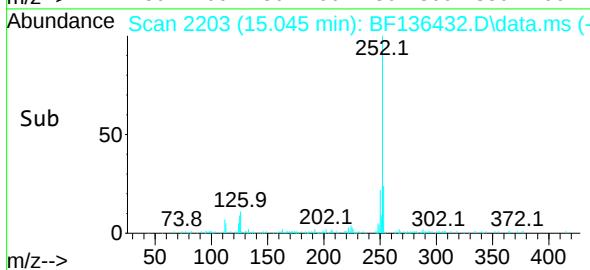
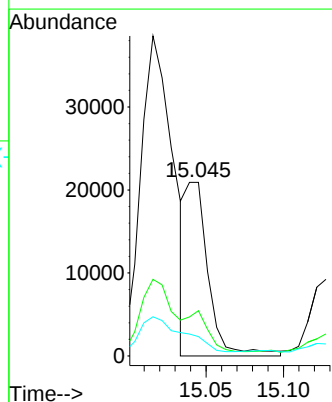
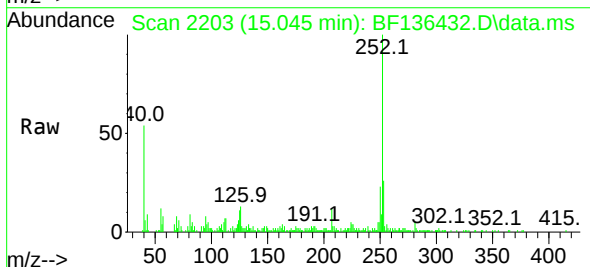
Manual Integrations
APPROVED

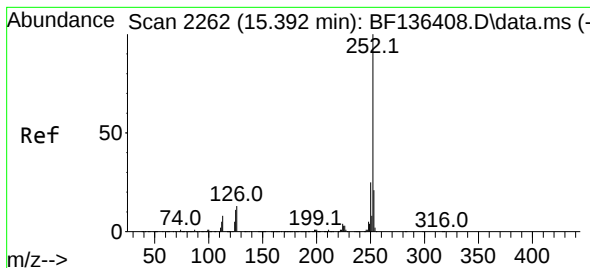
Reviewed By :Yogesh Patel 12/07/2023
Supervised By :mohammad ahmed 12/07/2023



#89
Benzo(k)fluoranthene
Concen: 2.040 ng m
RT: 15.045 min Scan# 2203
Delta R.T. -0.006 min
Lab File: BF136432.D
Acq: 06 Dec 2023 17:13

Tgt Ion:252 Resp: 21321
Ion Ratio Lower Upper
252 100
253 26.1 16.9 25.3#
125 11.1 7.5 11.3





#90

Benzo(a)pyrene

Concen: 4.615 ng

RT: 15.386 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF136432.D

Acq: 06 Dec 2023 17:13

Instrument :

BNA_F

ClientSampleId :

ROUTE-4-TP-4

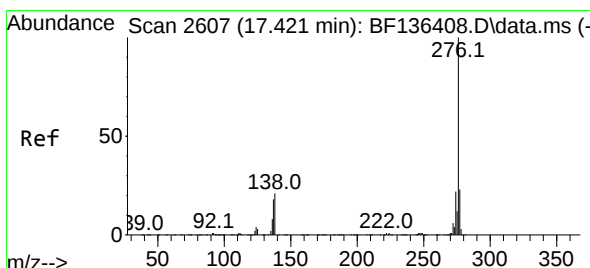
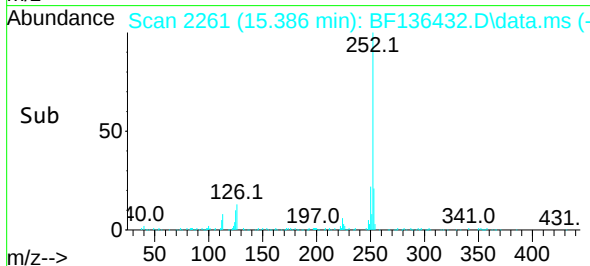
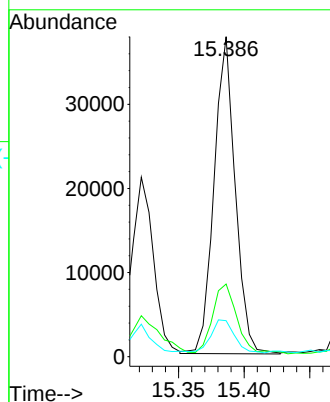
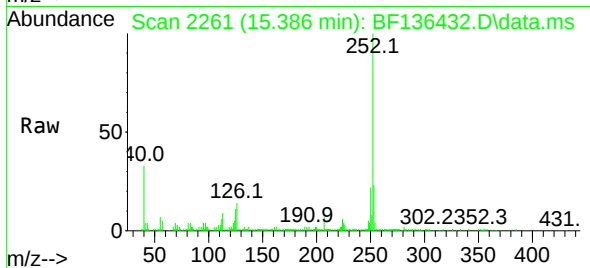
Tgt Ion:	252	Resp:	4226
Ion Ratio	Lower	Upper	
252	100		
253	22.7	17.0	25.4
125	11.2	8.6	13.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/07/2023

Supervised By :mohammad ahmed 12/07/2023



#92

Benzo(g,h,i)perylene

Concen: 2.045 ng

RT: 17.398 min Scan# 2603

Delta R.T. -0.023 min

Lab File: BF136432.D

Acq: 06 Dec 2023 17:13

Tgt Ion:	276	Resp:	19371
Ion Ratio	Lower	Upper	
276	100		
277	23.2	18.7	28.1
138	24.8	16.6	25.0

