

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060723\
 Data File : BF133621.D
 Acq On : 07 Jun 2023 13:12
 Operator : CG\JU
 Sample : 03002-09DL 10X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC02DL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 06/08/2023
 Supervised By :mohammad ahmed 06/08/2023

Quant Time: Jun 07 13:40:53 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052523.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 07 11:27:15 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.834	152	125898	20.000	ng	0.00
21) Naphthalene-d8	8.116	136	470167	20.000	ng	0.00
39) Acenaphthene-d10	9.875	164	227183	20.000	ng	0.00
64) Phenanthrene-d10	11.363	188	411816	20.000	ng	0.00
76) Chrysene-d12	14.010	240	217880	20.000	ng	0.00
86) Perylene-d12	15.474	264	245561	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.434	112	59957	7.946	ng	-0.01
7) Phenol-d6	6.451	99	76680	8.255	ng	-0.02
23) Nitrobenzene-d5	7.393	82	45160	6.413	ng	-0.01
42) 2,4,6-Tribromophenol	10.663	330	18332	8.095	ng	0.00
45) 2-Fluorobiphenyl	9.192	172	98899	6.719	ng	0.00
79) Terphenyl-d14	12.951	244	83643	6.826	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.140	128	82444	3.617	ng	98
37) 2-Methylnaphthalene	8.828	142	119184	7.658	ng	98
38) 1-Methylnaphthalene	8.928	142	108451	7.475	ng	98
52) Acenaphthene	9.904	154	173042	12.514	ng	100
55) Dibenzofuran	10.081	168	211942	10.302	ng	98
58) Fluorene	10.422	166	361196	23.963	ng	98
71) Phenanthrene	11.398	178	1800670	86.329	ng	99
72) Anthracene	11.445	178	702475	32.723	ng	99
73) Carbazole	11.592	167	134263	6.613	ng	99
75) Fluoranthene	12.586	202	1558431	67.642	ng	98
78) Pyrene	12.816	202	1338320	72.183	ng	100
81) Benzo(a)anthracene	14.004	228	666340	45.909	ng	99
83) Chrysene	14.039	228	580613	39.625	ng	97
87) Indeno(1,2,3-cd)pyrene	16.933	276	249955	15.980	ng	94
88) Benzo(b)fluoranthene	15.051	252	660339m	41.296	ng	
89) Benzo(k)fluoranthene	15.074	252	225906m	14.489	ng	
90) Benzo(a)pyrene	15.416	252	506103	34.783	ng	96
91) Dibenzo(a,h)anthracene	16.945	278	72122	5.687	ng	# 91
92) Benzo(g,h,i)perylene	17.374	276	216097	16.899	ng	99

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

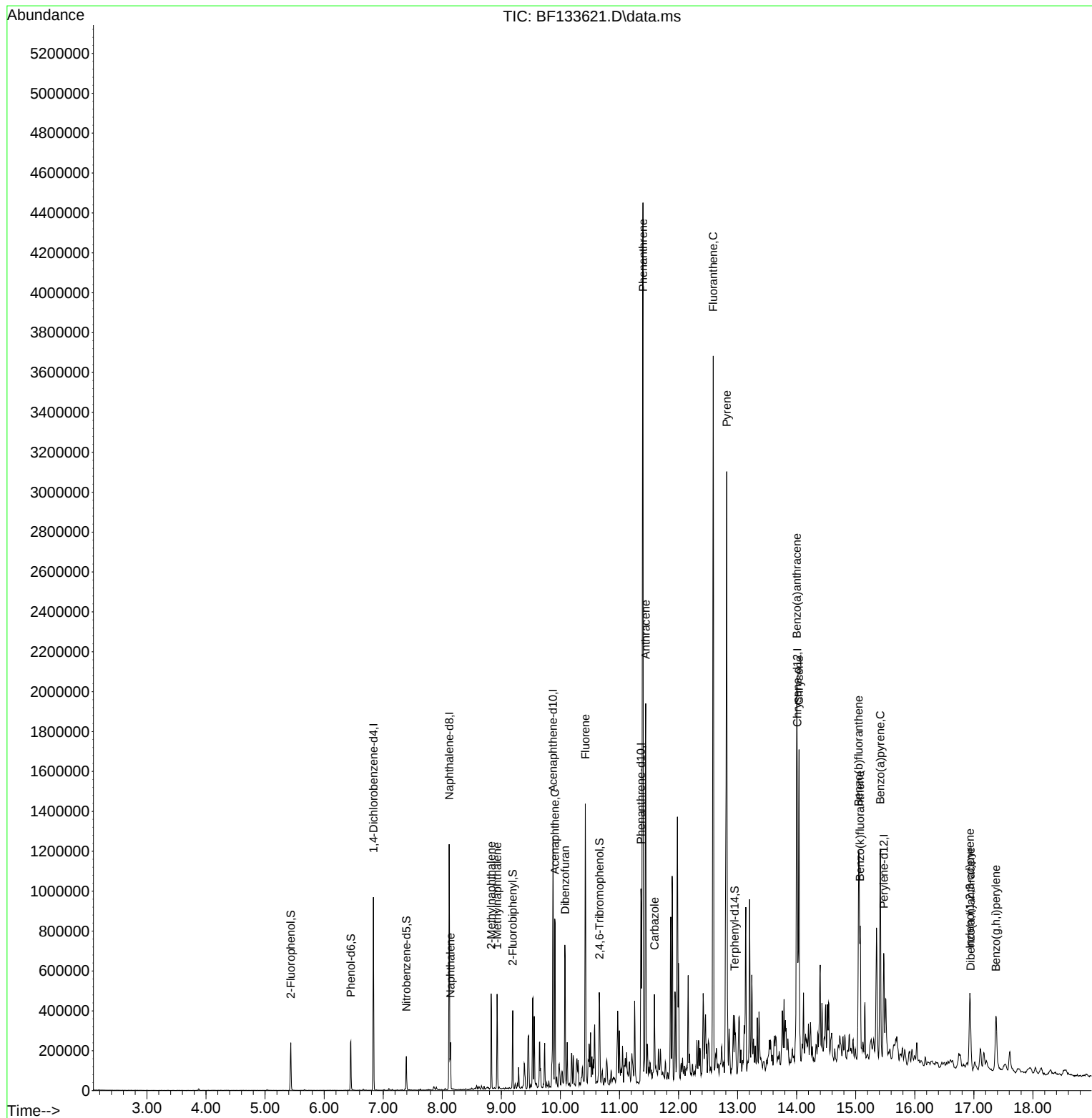
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060723\
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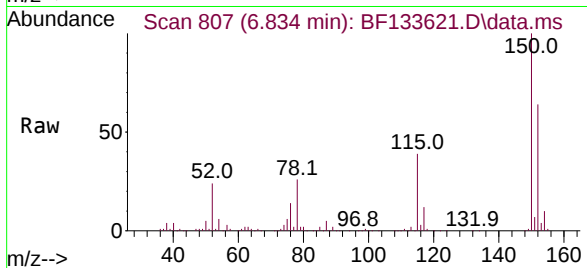
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.834 min Scan# 808
Delta R.T. -0.005 min
Lab File: BF133621.D
Acq: 07 Jun 2023 13:12

Instrument :

BNA_F

ClientSampleId :

WC02DL

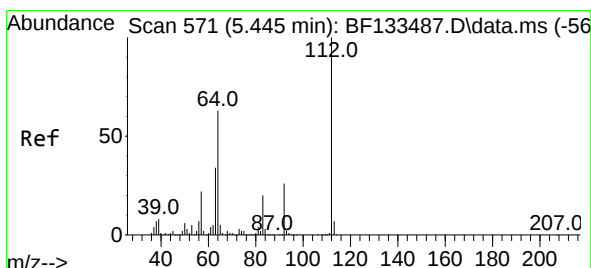
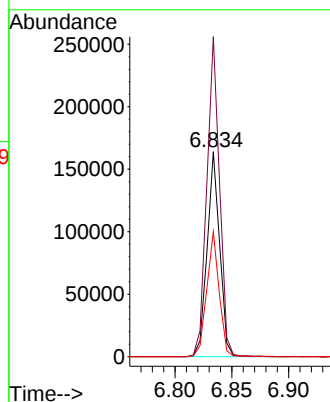
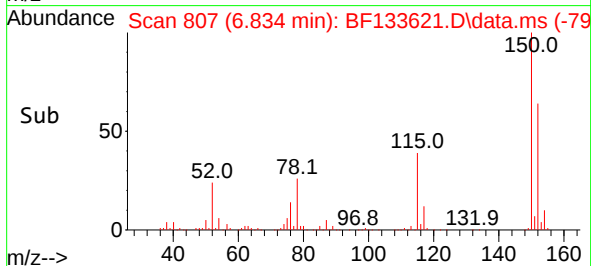


Tgt Ion:152 Resp: 125898
Ion Ratio Lower Upper
152 100
150 156.2 124.9 187.3
115 61.0 48.1 72.1

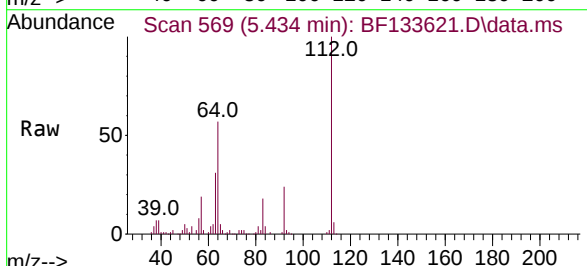
Manual Integrations

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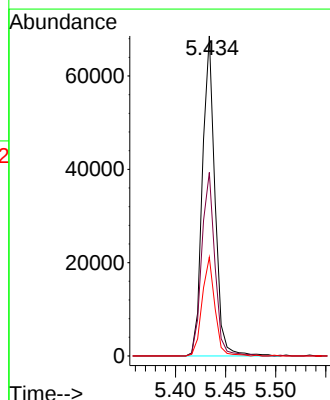
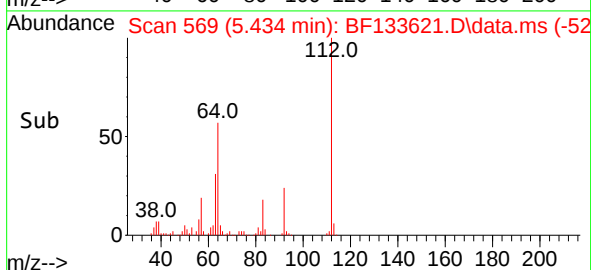
Reviewed By :Yogesh Patel 06/08/2023
Supervised By :mohammad ahmed 06/08/2023



#5
2-Fluorophenol
Concen: 7.946 ng
RT: 5.434 min Scan# 569
Delta R.T. -0.012 min
Lab File: BF133621.D
Acq: 07 Jun 2023 13:12



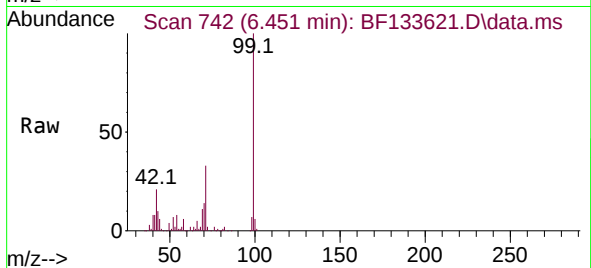
Tgt Ion:112 Resp: 59957
Ion Ratio Lower Upper
112 100
64 57.4 50.1 75.1
63 30.9 27.5 41.3





#7
Phenol-d6
Concen: 8.255 ng
RT: 6.451 min Scan# 744
Delta R.T. -0.017 min
Lab File: BF133621.D
Acq: 07 Jun 2023 13:12

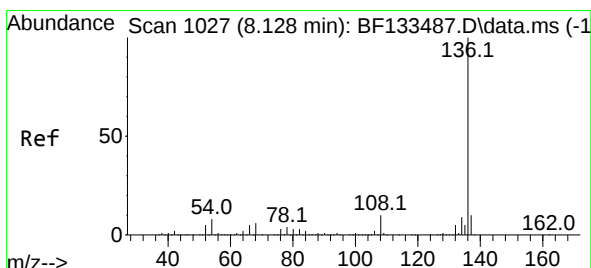
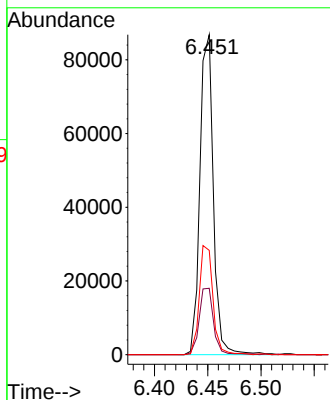
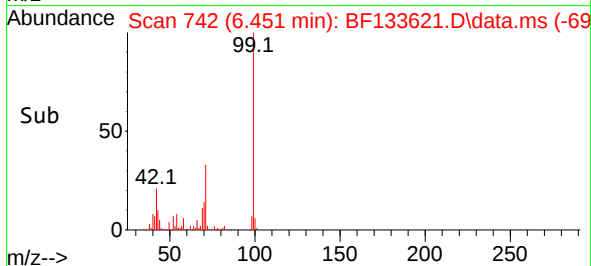
Instrument :
BNA_F
ClientSampleId :
WC02DL



Tgt Ion: 99 Resp: 76680
Ion Ratio Lower Upper
99 100
42 20.8 19.7 29.5
71 32.6 29.8 44.8

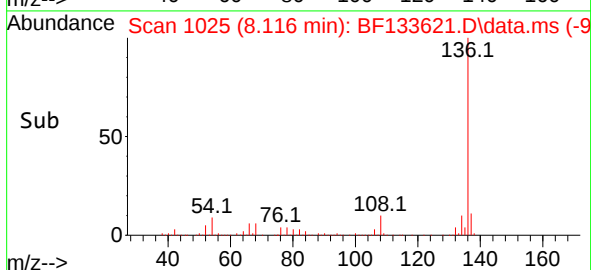
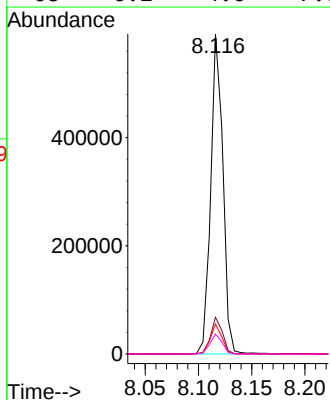
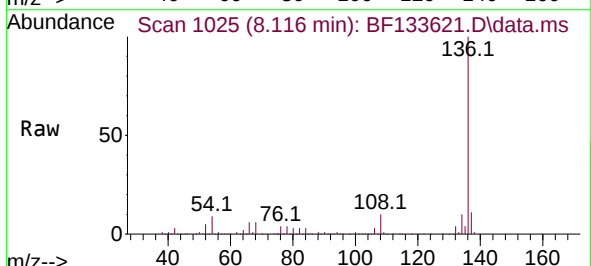
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Supervised By :mohammad ahmed 06/08/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.116 min Scan# 1025
Delta R.T. -0.006 min
Lab File: BF133621.D
Acq: 07 Jun 2023 13:12

Tgt Ion:136 Resp: 470167
Ion Ratio Lower Upper
136 100
137 11.4 8.2 12.4
54 9.4 6.6 10.0
68 6.2 4.6 7.0





#23

Nitrobenzene-d5

Concen: 6.413 ng

RT: 7.393 min Scan# 905

Delta R.T. -0.012 min

Lab File: BF133621.D

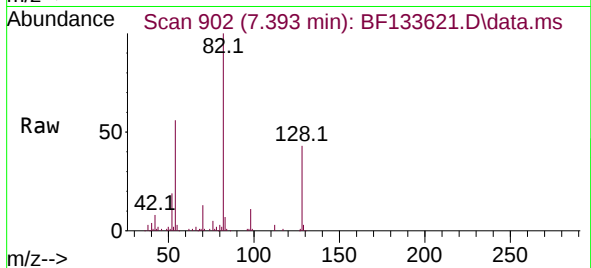
Acq: 07 Jun 2023 13:12

Instrument :

BNA_F

ClientSampleId :

WC02DL



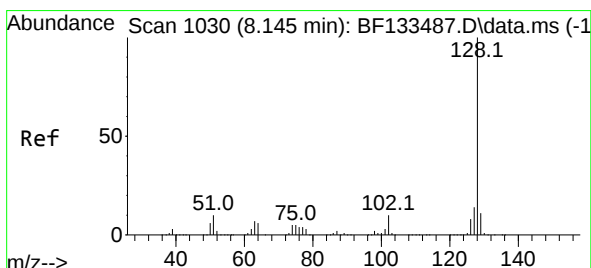
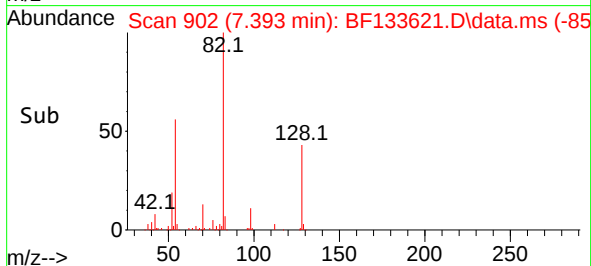
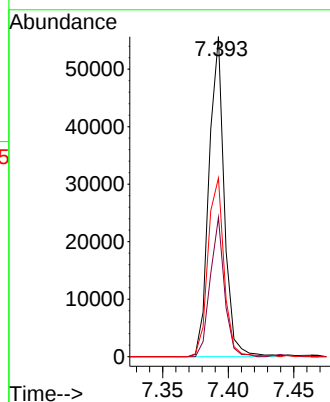
Tgt Ion:	82	Resp:	45160
Ion Ratio	Lower	Upper	
82	100		
128	43.5	34.2	51.4
54	55.8	48.2	72.4

Manual Integrations

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#31

Naphthalene

Concen: 3.617 ng

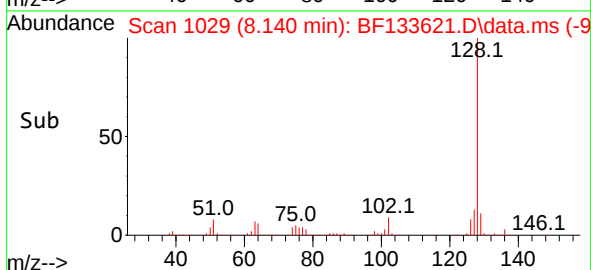
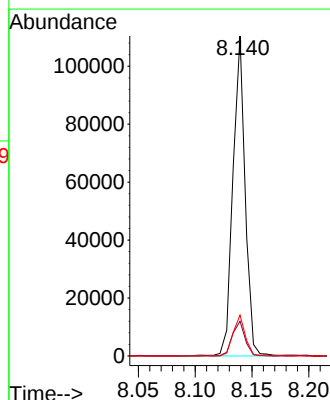
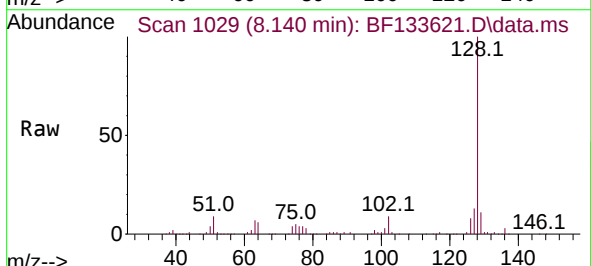
RT: 8.140 min Scan# 1029

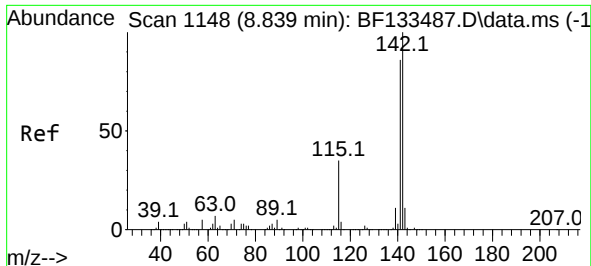
Delta R.T. -0.006 min

Lab File: BF133621.D

Acq: 07 Jun 2023 13:12

Tgt Ion:	128	Resp:	82444
Ion Ratio	Lower	Upper	
128	100		
129	10.9	9.2	13.8
127	12.7	10.9	16.3





#37

2-Methylnaphthalene

Concen: 7.658 ng

RT: 8.828 min Scan# 1146

Delta R.T. -0.006 min

Lab File: BF133621.D

Acq: 07 Jun 2023 13:12

Instrument :

BNA_F

ClientSampleId :

WC02DL

Tgt Ion:142 Resp: 119184

Ion Ratio Lower Upper

142 100

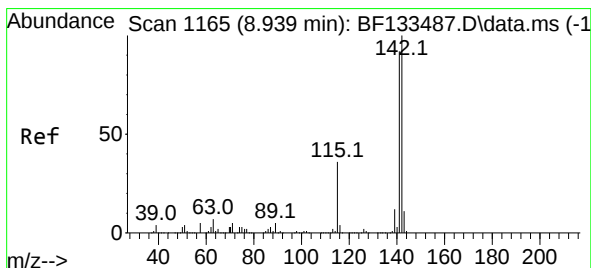
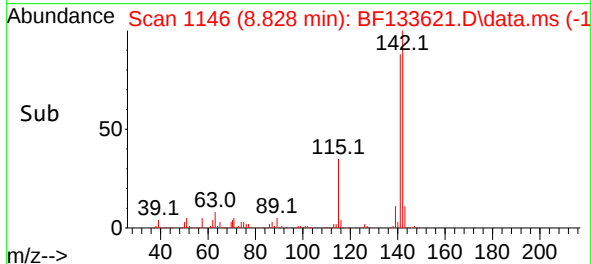
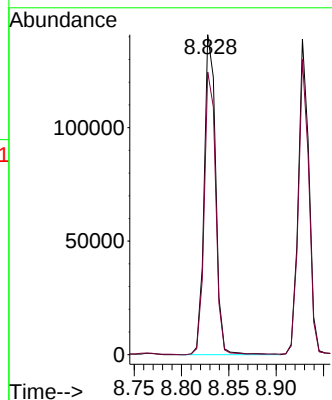
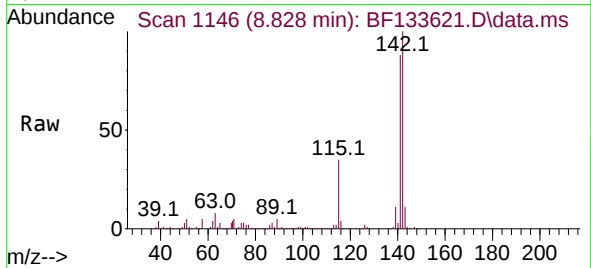
141 88.3 69.2 103.8

Manual Integrations

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Reviewed By :Yogesh Patel 06/08/2023

Supervised By :mohammad ahmed 06/08/2023



#38

1-Methylnaphthalene

Concen: 7.475 ng

RT: 8.928 min Scan# 1163

Delta R.T. -0.006 min

Lab File: BF133621.D

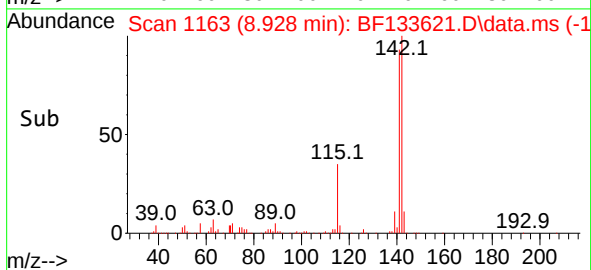
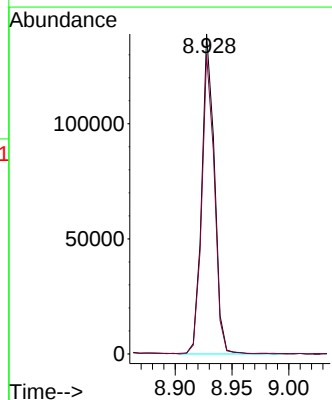
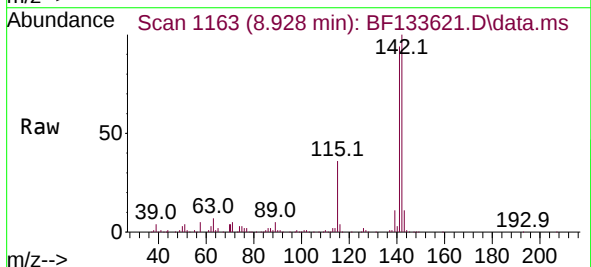
Acq: 07 Jun 2023 13:12

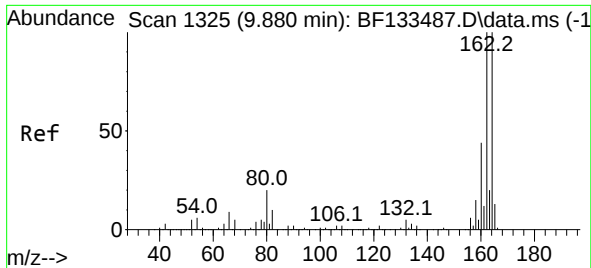
Tgt Ion:142 Resp: 108451

Ion Ratio Lower Upper

142 100

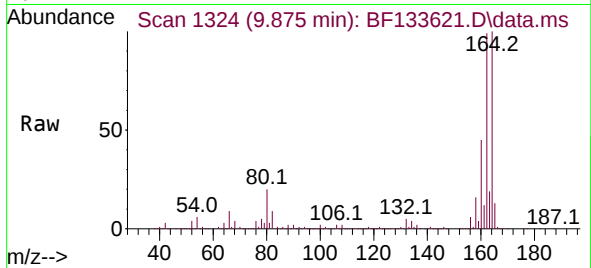
141 93.6 73.6 110.4





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.875 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133621.D
Acq: 07 Jun 2023 13:12

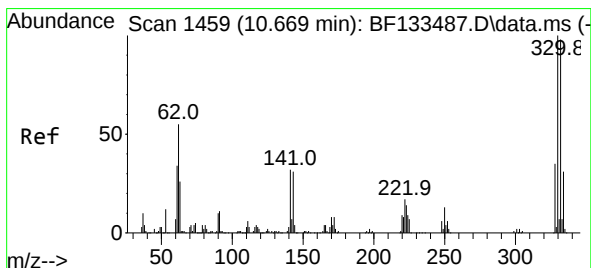
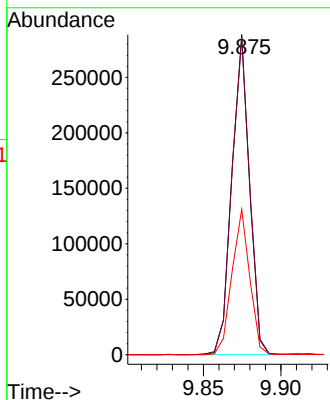
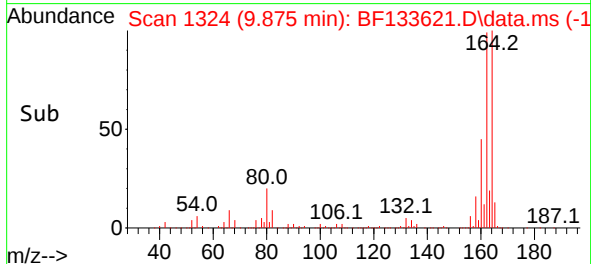
Instrument :
BNA_F
ClientSampleId :
WC02DL



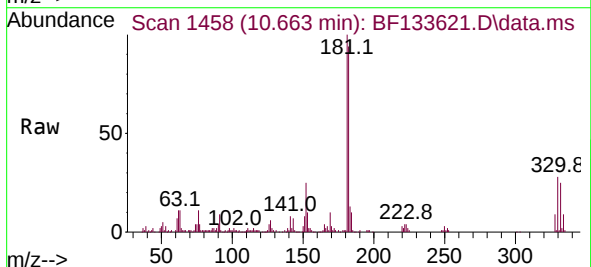
Tgt Ion:164 Resp: 22718
Ion Ratio Lower Upper
164 100
162 99.0 79.7 119.5
160 45.4 35.4 53.0

Manual Integrations
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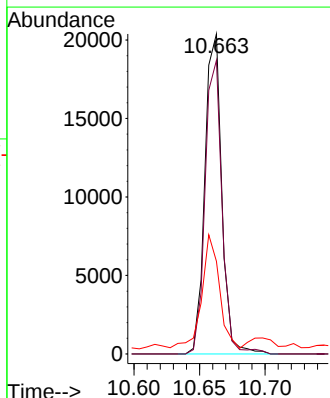
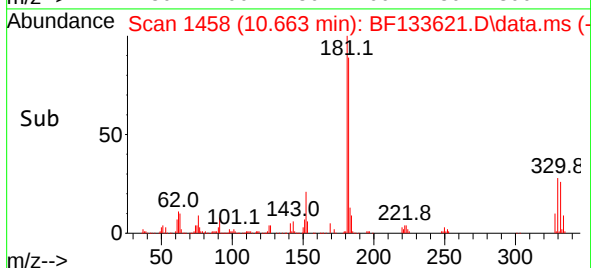
Reviewed By :Yogesh Patel 06/08/2023
Supervised By :mohammad ahmed 06/08/2023

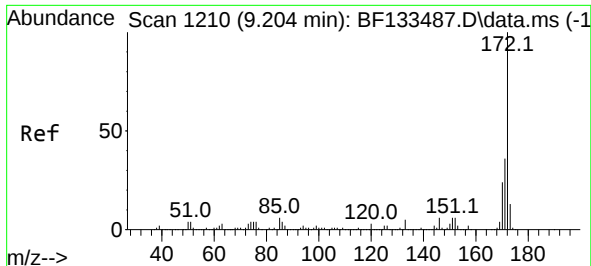


#42
2,4,6-Tribromophenol
Concen: 8.095 ng
RT: 10.663 min Scan# 1458
Delta R.T. -0.006 min
Lab File: BF133621.D
Acq: 07 Jun 2023 13:12



Tgt Ion:330 Resp: 18332
Ion Ratio Lower Upper
330 100
332 91.9 77.8 116.6
141 36.6 26.6 40.0





#45

2-Fluorobiphenyl

Concen: 6.719 ng

RT: 9.192 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF133621.D

Acq: 07 Jun 2023 13:12

Instrument :

BNA_F

ClientSampleId :

WC02DL

Tgt Ion:172 Resp: 9889

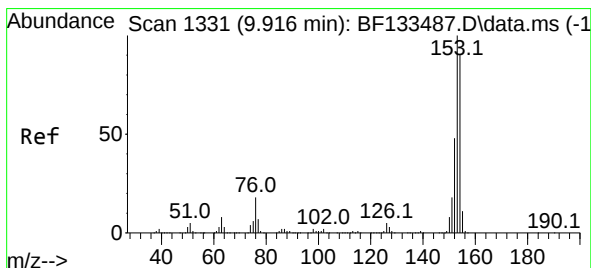
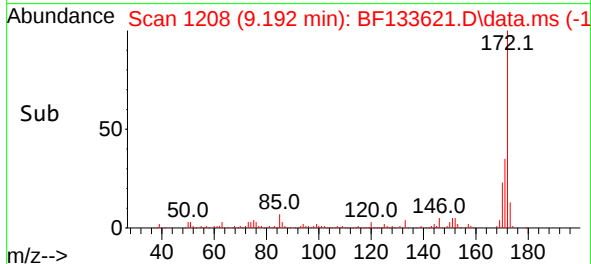
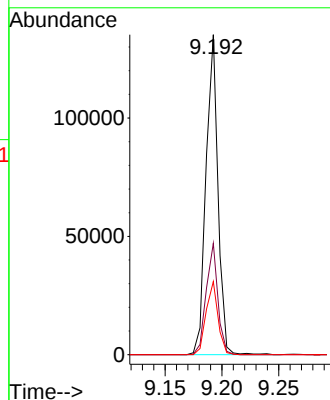
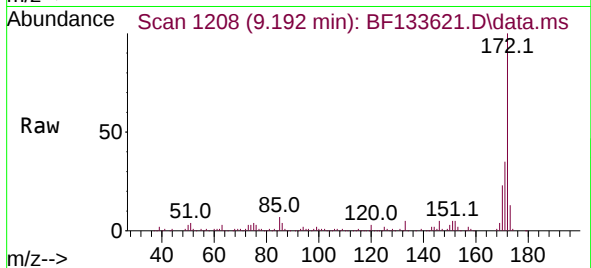
Ion	Ratio	Lower	Upper
172	100		
171	34.8	28.4	42.6
170	22.9	19.3	28.9

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Supervised By :mohammad ahmed 06/08/2023



#52

Acenaphthene

Concen: 12.514 ng

RT: 9.904 min Scan# 1329

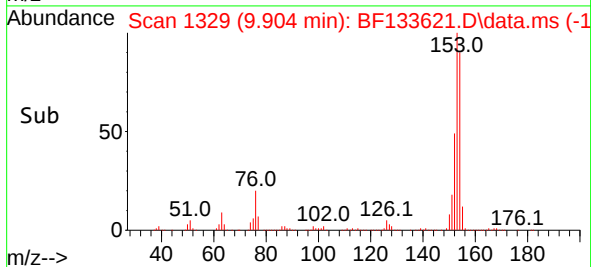
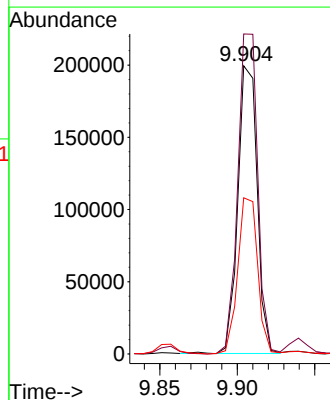
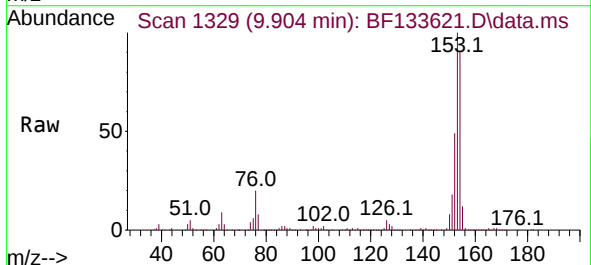
Delta R.T. -0.012 min

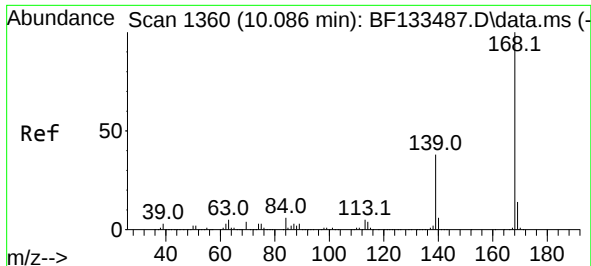
Lab File: BF133621.D

Acq: 07 Jun 2023 13:12

Tgt Ion:154 Resp: 173042

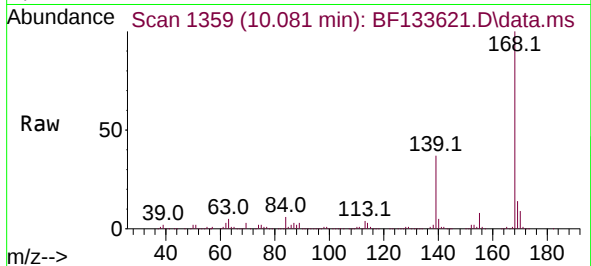
Ion	Ratio	Lower	Upper
154	100		
153	111.1	89.2	133.8
152	54.2	43.1	64.7





#55
Dibenzenofuran
Concen: 10.302 ng
RT: 10.081 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133621.D
Acq: 07 Jun 2023 13:12

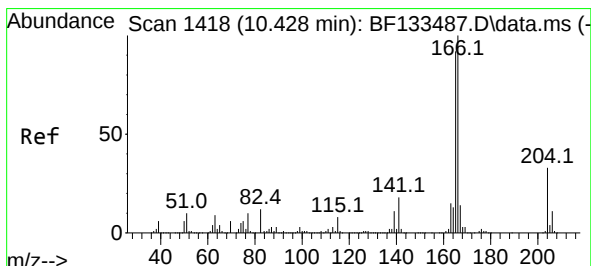
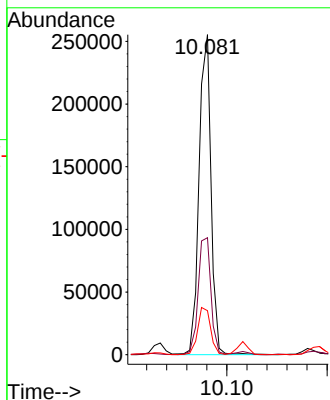
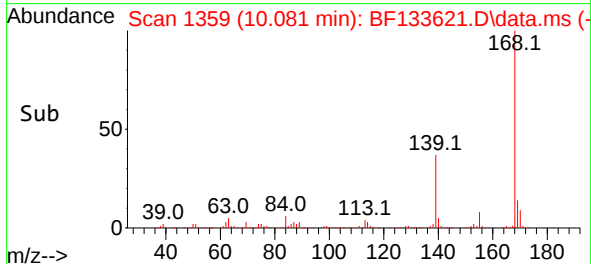
Instrument :
BNA_F
ClientSampleId :
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Tgt Ion:168 Resp: 21194
Ion Ratio Lower Upper
168 100
139 36.5 30.6 46.0
169 13.8 10.9 16.3

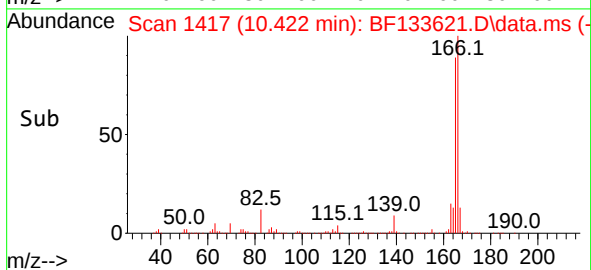
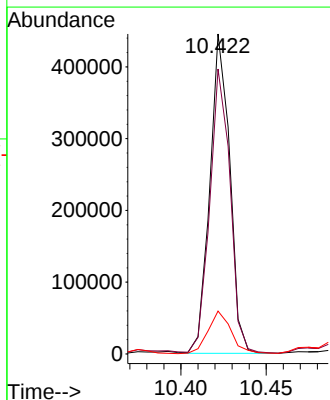
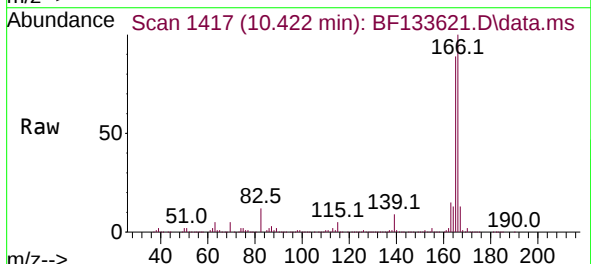
Manual Integrations
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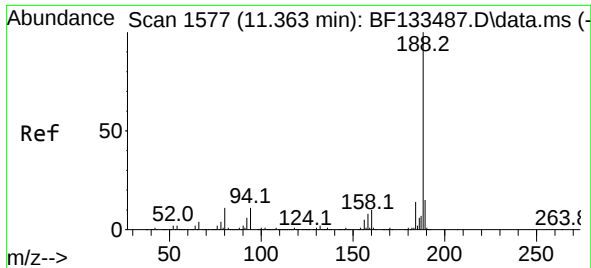
Reviewed By :Yogesh Patel 06/08/2023
Supervised By :mohammad ahmed 06/08/2023



#58
Fluorene
Concen: 23.963 ng
RT: 10.422 min Scan# 1417
Delta R.T. -0.006 min
Lab File: BF133621.D
Acq: 07 Jun 2023 13:12

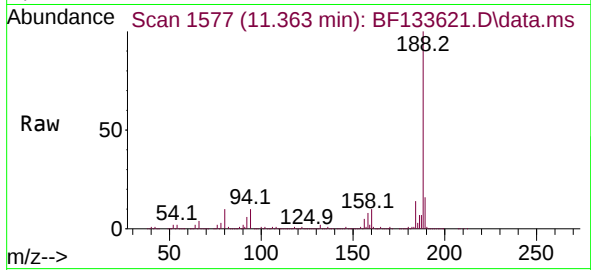
Tgt Ion:166 Resp: 361196
Ion Ratio Lower Upper
166 100
165 89.0 73.4 110.0
167 13.4 10.9 16.3





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.363 min Scan# 1577
Delta R.T. -0.006 min
Lab File: BF133621.D
Acq: 07 Jun 2023 13:12

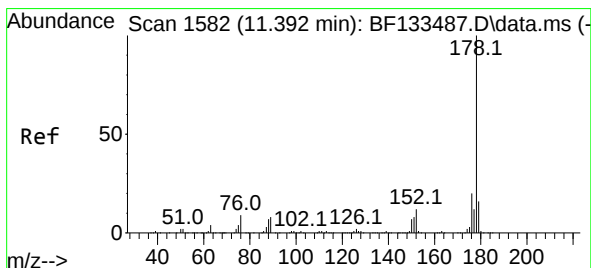
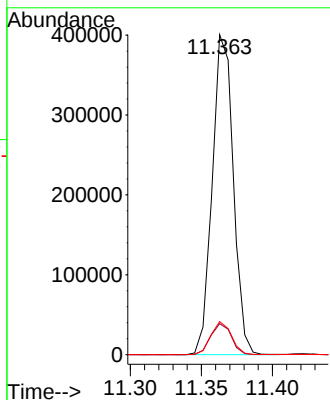
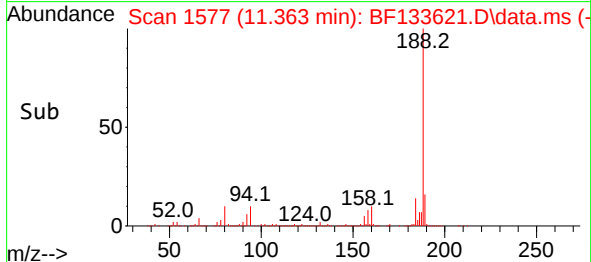
Instrument :
BNA_F
ClientSampleId :
WC02DL



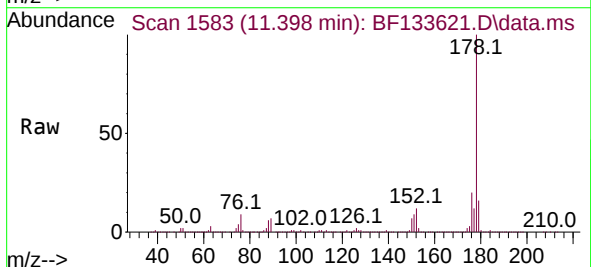
Tgt Ion:188 Resp: 411810
Ion Ratio Lower Upper
188 100
94 9.7 8.6 12.8
80 10.4 9.2 13.8

Manual Integrations
APPROVED

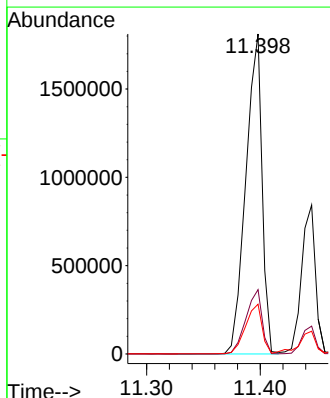
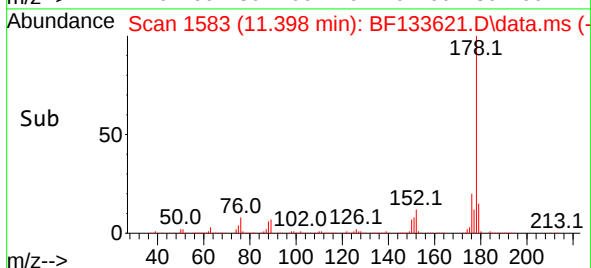
Reviewed By :Yogesh Patel 06/08/2023
Supervised By :mohammad ahmed 06/08/2023

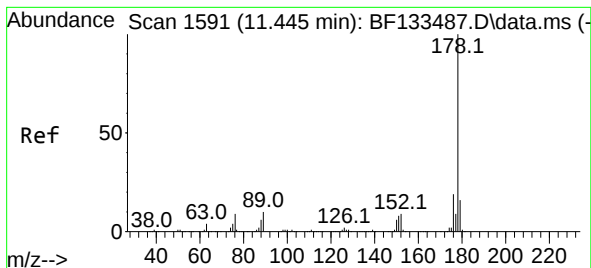


#71
Phenanthrene
Concen: 86.329 ng
RT: 11.398 min Scan# 1583
Delta R.T. 0.006 min
Lab File: BF133621.D
Acq: 07 Jun 2023 13:12



Tgt Ion:178 Resp: 1800670
Ion Ratio Lower Upper
178 100
176 20.1 15.6 23.4
179 15.6 12.4 18.6





#72

Anthracene

Concen: 32.723 ng

RT: 11.445 min Scan# 1591

Delta R.T. 0.000 min

Lab File: BF133621.D

Acq: 07 Jun 2023 13:12

Instrument :

BNA_F

ClientSampleId :

WC02DL

Tgt Ion:178 Resp: 702475

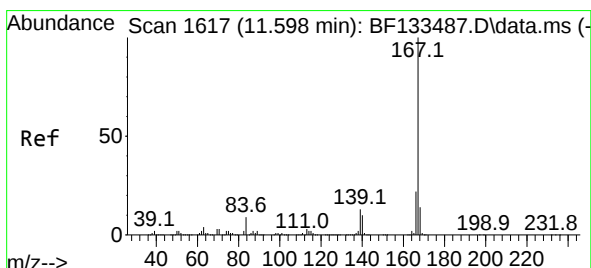
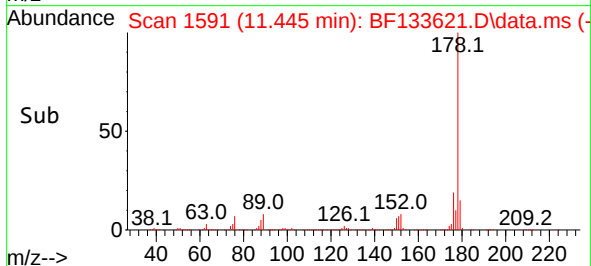
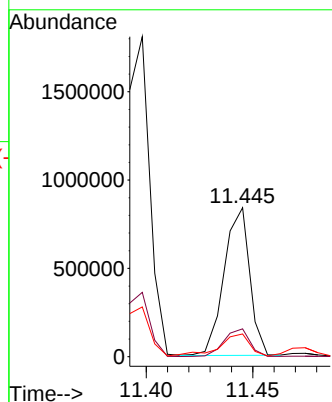
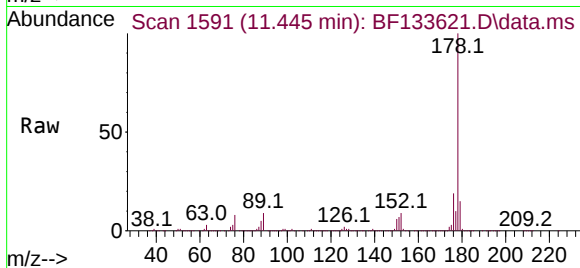
Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.3	22.9
179	15.3	12.6	18.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/08/2023

Supervised By :mohammad ahmed 06/08/2023



#73

Carbazole

Concen: 6.613 ng

RT: 11.592 min Scan# 1616

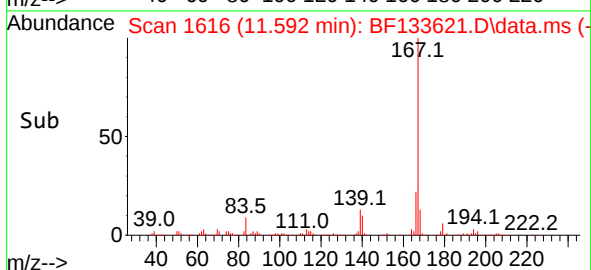
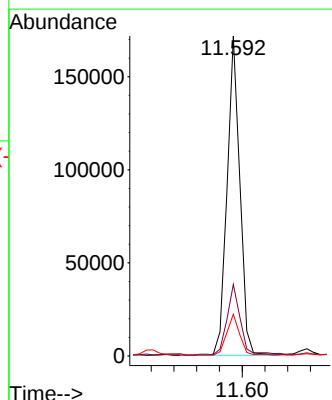
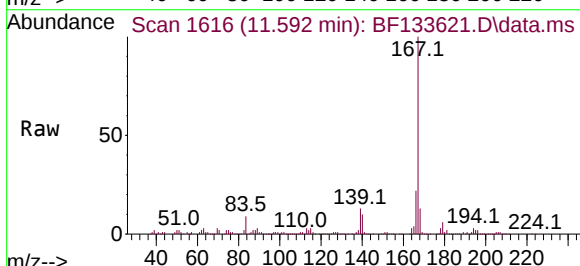
Delta R.T. -0.006 min

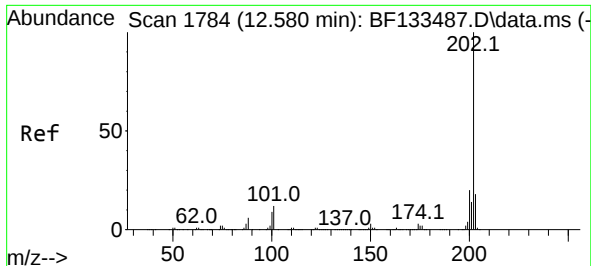
Lab File: BF133621.D

Acq: 07 Jun 2023 13:12

Tgt Ion:167 Resp: 134263

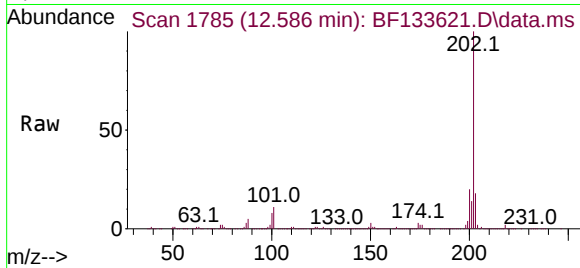
Ion	Ratio	Lower	Upper
167	100		
166	22.4	17.3	25.9
139	13.0	10.7	16.1





#75
Fluoranthene
Concen: 67.642 ng
RT: 12.586 min Scan# 1784
Delta R.T. 0.000 min
Lab File: BF133621.D
Acq: 07 Jun 2023 13:12

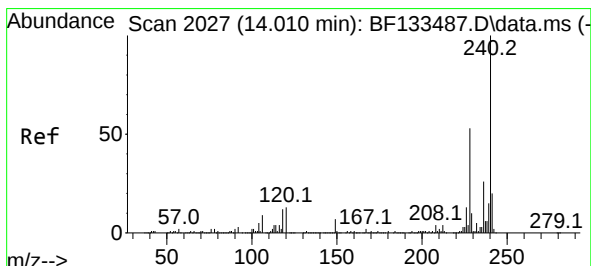
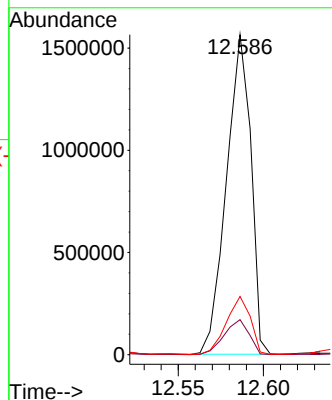
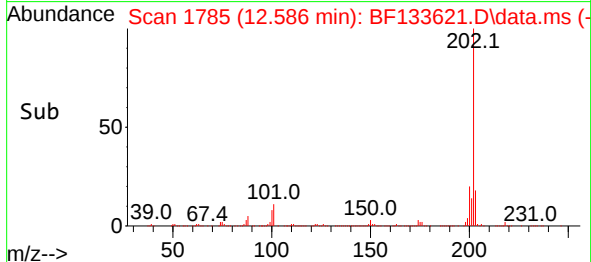
Instrument :
BNA_F
ClientSampleId :
WC02DL



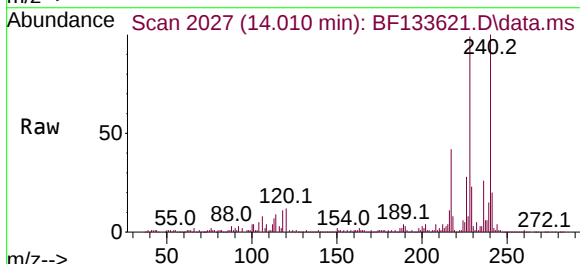
Tgt Ion:202 Resp: 155843
Ion Ratio Lower Upper
202 100
101 11.0 0.0 32.2
203 18.2 0.0 37.8

Manual Integrations
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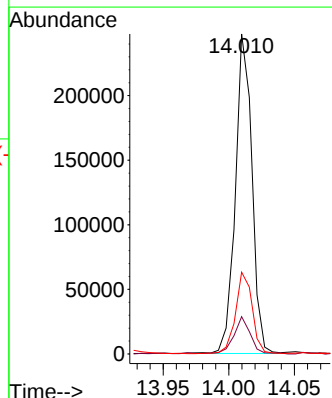
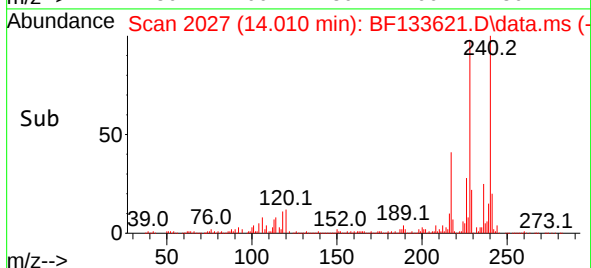
Reviewed By :Yogesh Patel 06/08/2023
Supervised By :mohammad ahmed 06/08/2023

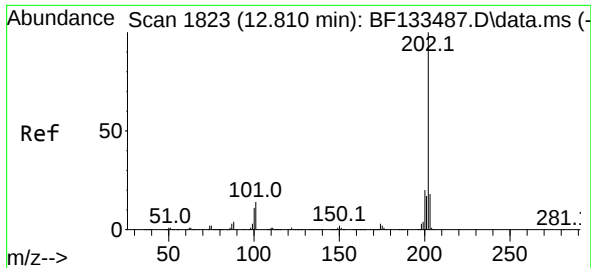


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.010 min Scan# 2027
Delta R.T. -0.006 min
Lab File: BF133621.D
Acq: 07 Jun 2023 13:12



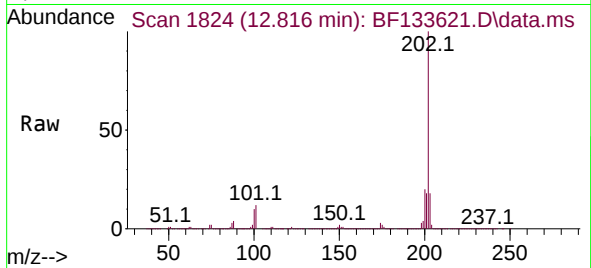
Tgt Ion:240 Resp: 217880
Ion Ratio Lower Upper
240 100
120 11.7 10.3 15.5
236 25.5 20.5 30.7





#78
 Pyrene
 Concen: 72.183 ng
 RT: 12.816 min Scan# 1823
 Delta R.T. 0.000 min
 Lab File: BF133621.D
 Acq: 07 Jun 2023 13:12

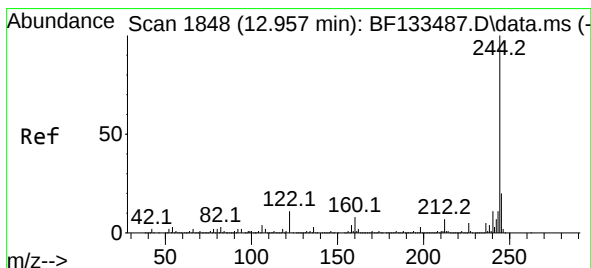
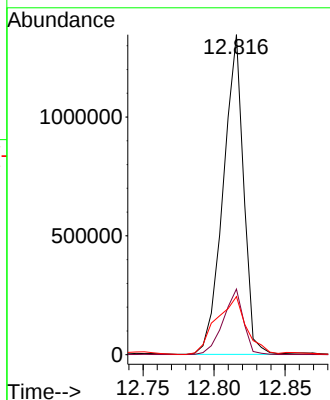
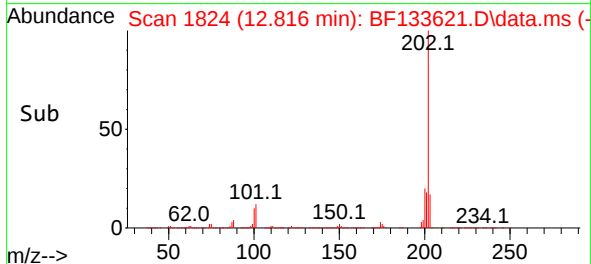
Instrument :
 BNA_F
 ClientSampleId :
 WC02DL



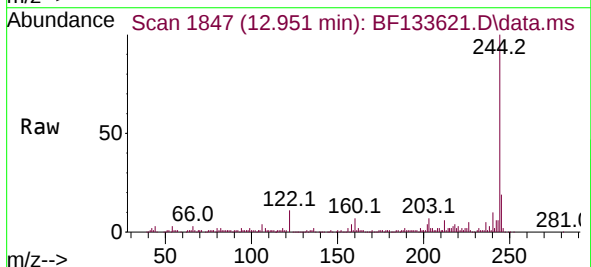
Tgt Ion:202 Resp: 1338320
 Ion Ratio Lower Upper
 202 100
 200 20.5 16.3 24.5
 203 18.1 14.3 21.5

Manual Integrations
 APPROVED

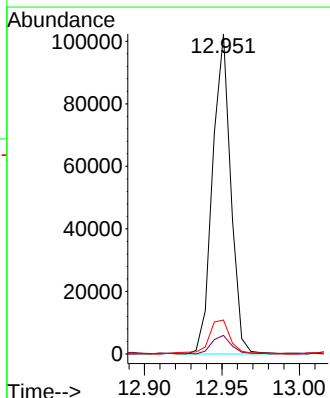
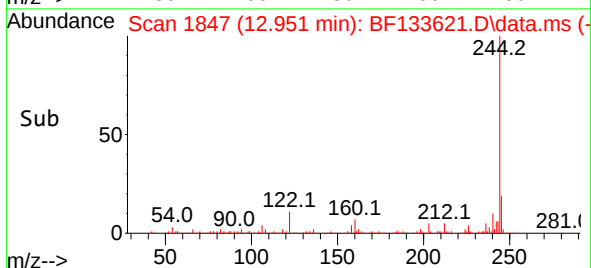
Reviewed By :Yogesh Patel 06/08/2023
 Supervised By :mohammad ahmed 06/08/2023

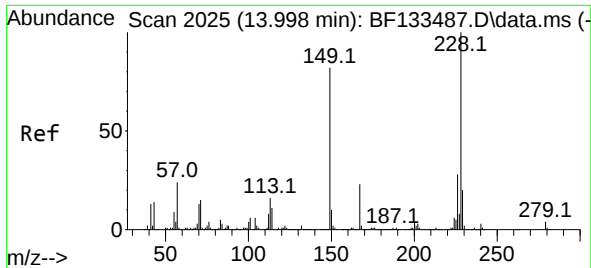


#79
 Terphenyl-d14
 Concen: 6.826 ng
 RT: 12.951 min Scan# 1847
 Delta R.T. -0.006 min
 Lab File: BF133621.D
 Acq: 07 Jun 2023 13:12



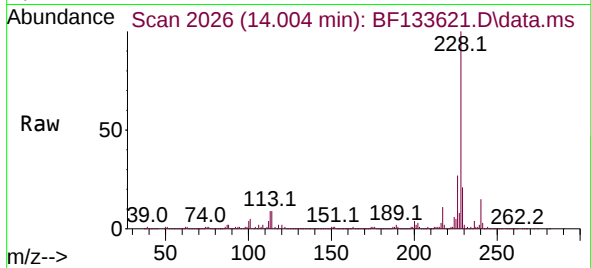
Tgt Ion:244 Resp: 83643
 Ion Ratio Lower Upper
 244 100
 212 5.8 5.8 8.6
 122 10.6 8.5 12.7





#81
Benzo(a)anthracene
Concen: 45.909 ng
RT: 14.004 min Scan# 2026
Delta R.T. 0.000 min
Lab File: BF133621.D
Acq: 07 Jun 2023 13:12

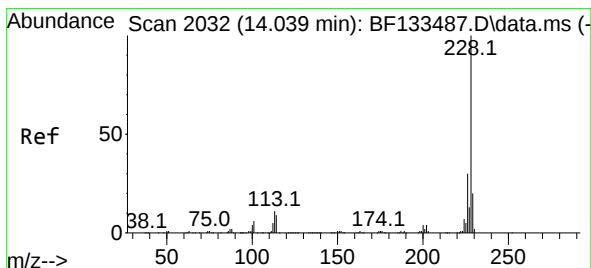
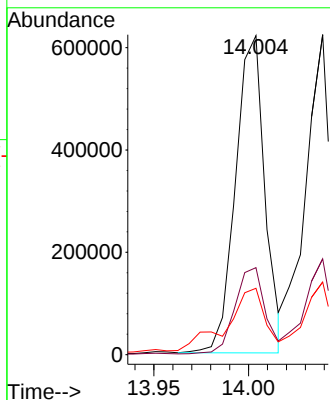
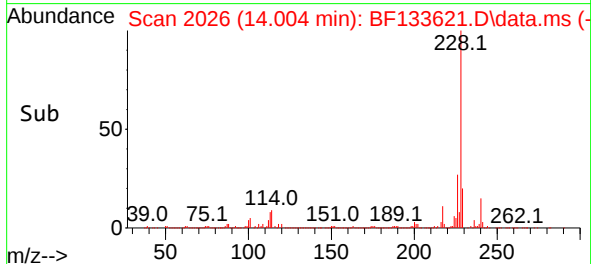
Instrument :
BNA_F
ClientSampleId :
WC02DL



Tgt Ion:228 Resp: 666340
Ion Ratio Lower Upper
228 100
226 27.3 22.3 33.5
229 20.8 16.1 24.1

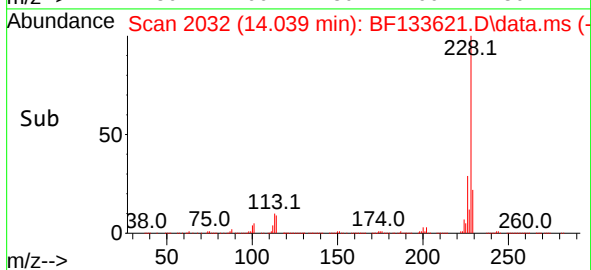
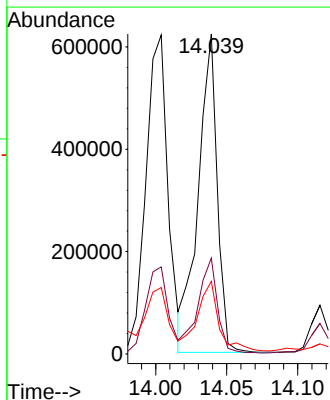
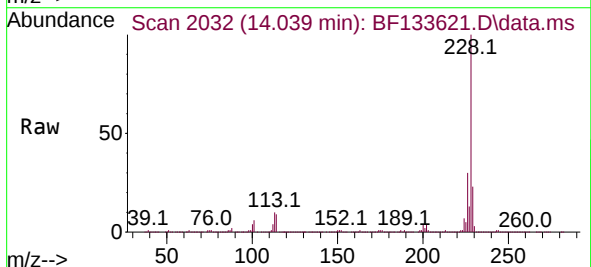
Manual Integrations
APPROVED

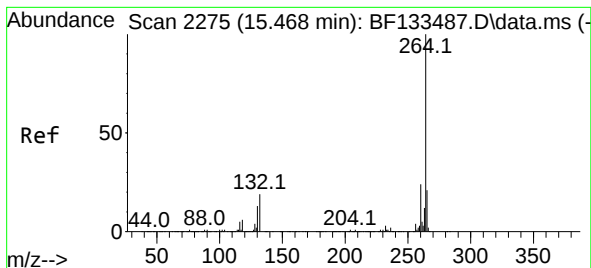
Reviewed By :Yogesh Patel 06/08/2023
Supervised By :mohammad ahmed 06/08/2023



#83
Chrysene
Concen: 39.625 ng
RT: 14.039 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF133621.D
Acq: 07 Jun 2023 13:12

Tgt Ion:228 Resp: 580613
Ion Ratio Lower Upper
228 100
226 29.9 24.1 36.1
229 22.7 15.8 23.8





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.474 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF133621.D

Acq: 07 Jun 2023 13:12

Instrument :

BNA_F

ClientSampleId :

WC02DL

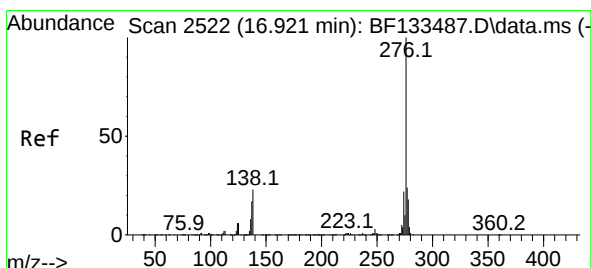
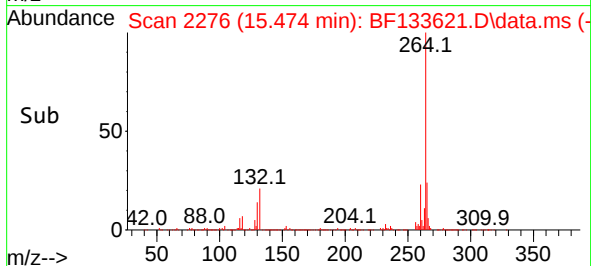
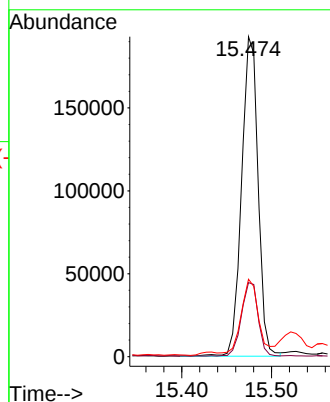
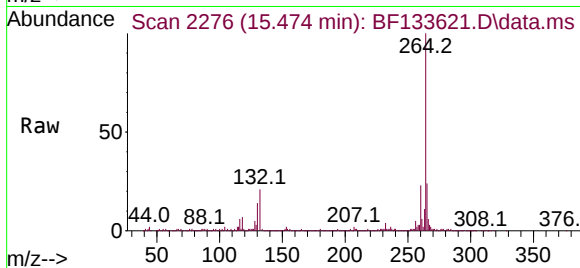
Tgt Ion:264 Resp: 24556

Ion	Ratio	Lower	Upper
264	100		
260	23.1	19.0	28.4
265	24.2	16.8	25.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/08/2023
Supervised By :mohammad ahmed 06/08/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 15.980 ng

RT: 16.933 min Scan# 2524

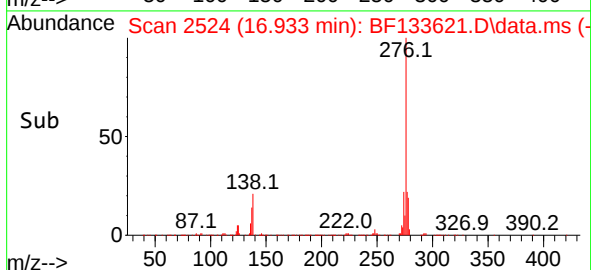
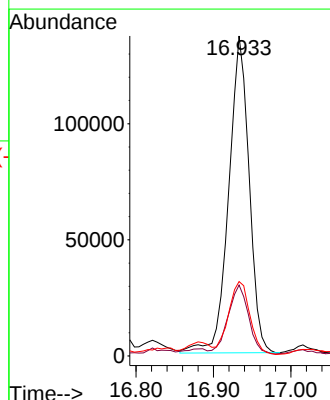
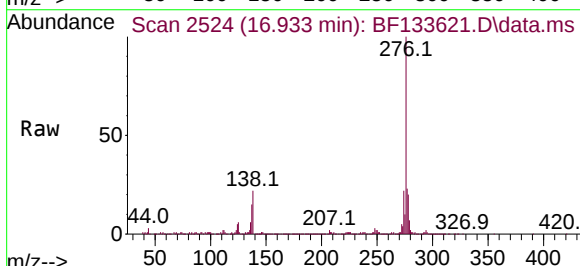
Delta R.T. -0.012 min

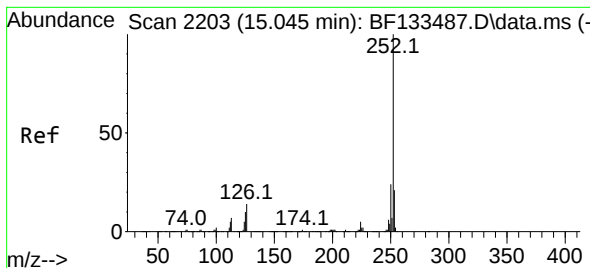
Lab File: BF133621.D

Acq: 07 Jun 2023 13:12

Tgt Ion:276 Resp: 249955

Ion	Ratio	Lower	Upper
276	100		
138	21.8	21.4	32.2
277	24.2	20.0	30.0





#88

Benzo(b)fluoranthene

Concen: 41.296 ng m

RT: 15.051 min Scan# 2204

Delta R.T. 0.000 min

Lab File: BF133621.D

Acq: 07 Jun 2023 13:12

Instrument :

BNA_F

ClientSampleId :

WC02DL

Tgt Ion:252 Resp: 660339

Ion Ratio Lower Upper

252 100

253 22.8 17.2 25.8

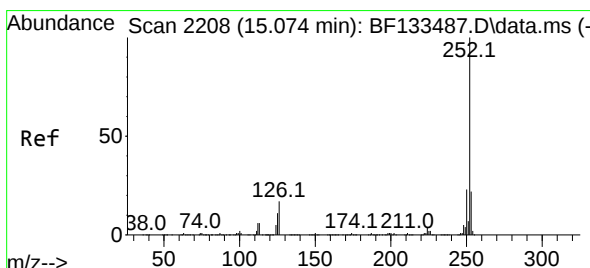
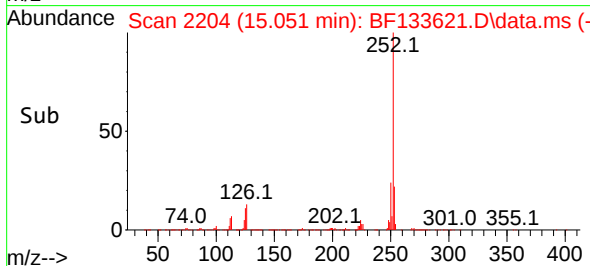
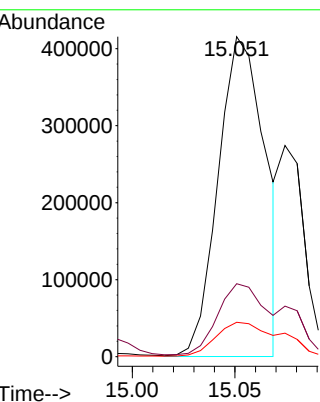
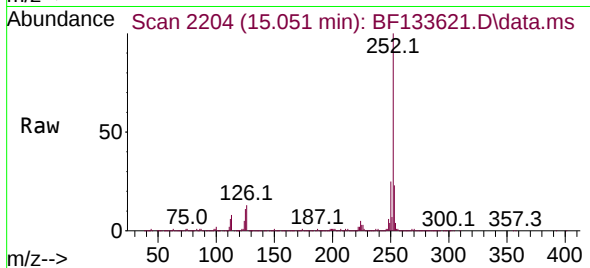
125 10.7 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/08/2023

Supervised By :mohammad ahmed 06/08/2023



#89

Benzo(k)fluoranthene

Concen: 14.489 ng m

RT: 15.074 min Scan# 2208

Delta R.T. -0.012 min

Lab File: BF133621.D

Acq: 07 Jun 2023 13:12

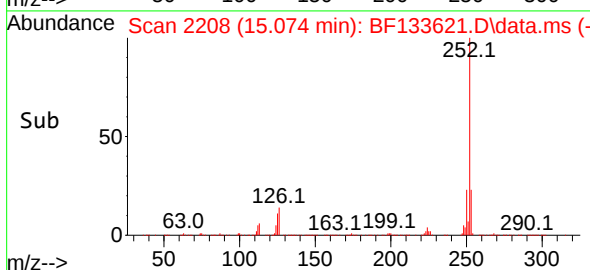
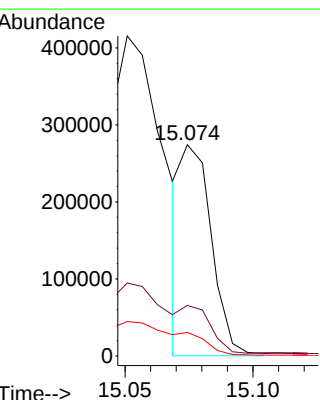
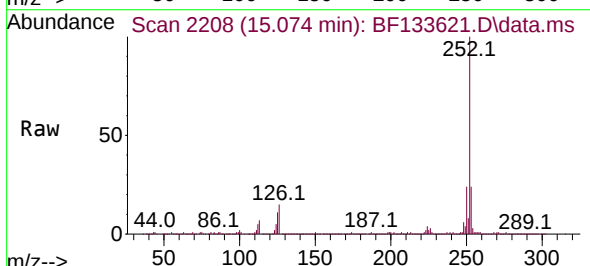
Tgt Ion:252 Resp: 225906

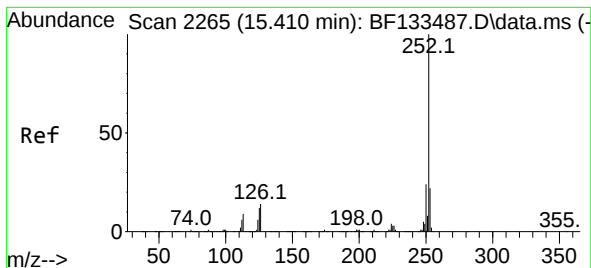
Ion Ratio Lower Upper

252 100

253 23.9 17.4 26.2

125 11.1 8.3 12.5





#90

Benzo(a)pyrene

Concen: 34.783 ng

RT: 15.416 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF133621.D

Acq: 07 Jun 2023 13:12

Instrument :

BNA_F

ClientSampleId :

WC02DL

Tgt Ion:252 Resp: 50610

Ion Ratio Lower Upper

252 100

253 23.9 17.4 26.0

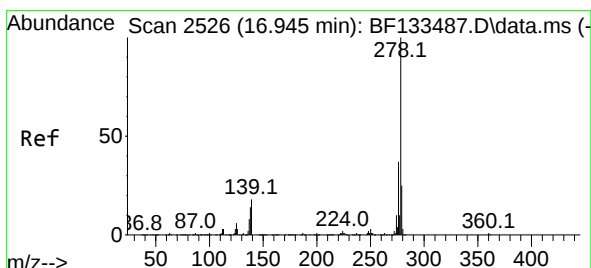
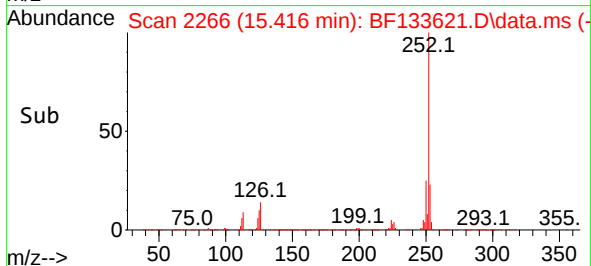
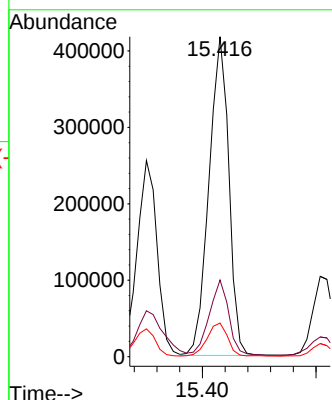
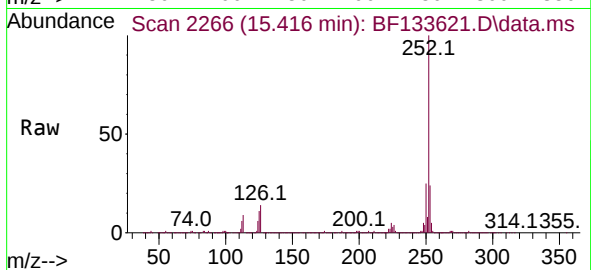
125 10.5 9.4 14.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/08/2023

Supervised By :mohammad ahmed 06/08/2023



#91

Dibenzo(a,h)anthracene

Concen: 5.687 ng

RT: 16.945 min Scan# 2526

Delta R.T. -0.023 min

Lab File: BF133621.D

Acq: 07 Jun 2023 13:12

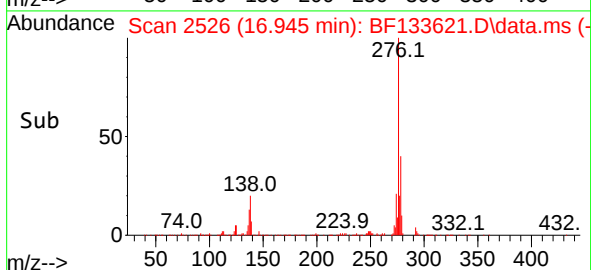
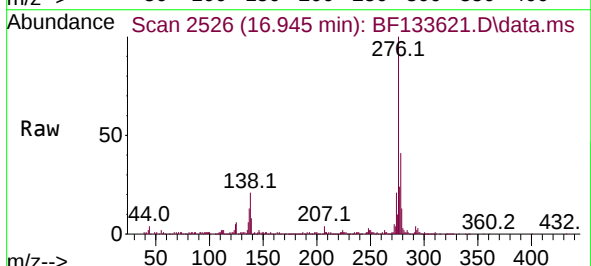
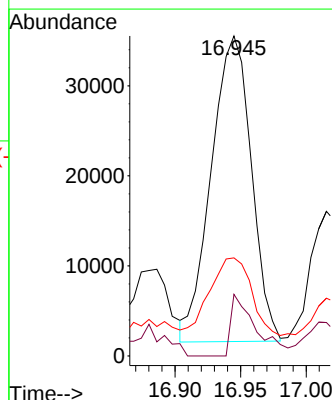
Tgt Ion:278 Resp: 72122

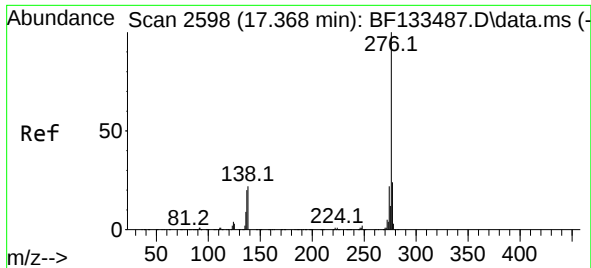
Ion Ratio Lower Upper

278 100

139 19.2 14.1 21.1

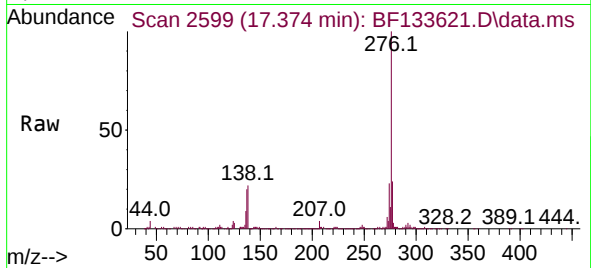
279 30.6 19.7 29.5#





#92
 Benzo(g,h,i)perylene
 Concen: 16.899 ng
 RT: 17.374 min Scan# 21
 Delta R.T. -0.017 min
 Lab File: BF133621.D
 Acq: 07 Jun 2023 13:12

Instrument :
 BNA_F
 ClientSampleId :
 WC02DL



Tgt Ion: 276 Resp: 21609

Ion	Ratio	Lower	Upper
276	100		
277	23.9	18.8	28.2
138	22.0	17.8	26.6

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 06/08/2023
 Supervised By :mohammad ahmed 06/08/2023

