

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062923\
 Data File : BF134041.D
 Acq On : 29 Jun 2023 17:29
 Operator : CG\JU
 Sample : 03394-01RE 5X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ORA-1651RE

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 06/30/2023
 Supervised By :mohammad ahmed 06/30/2023

Quant Time: Jun 30 06:00:06 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 26 23:12:04 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.845	152	114818	20.000	ng	0.00
21) Naphthalene-d8	8.128	136	350592	20.000	ng	0.00
39) Acenaphthene-d10	9.886	164	149170	20.000	ng	0.00
64) Phenanthrene-d10	11.380	188	255204	20.000	ng	0.00
76) Chrysene-d12	14.039	240	176329	20.000	ng	# 0.00
86) Perylene-d12	15.545	264	161918	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.469	112	130622	19.030	ng	-0.01
7) Phenol-d6	6.475	99	160474	19.011	ng	-0.02
23) Nitrobenzene-d5	7.404	82	102144	15.705	ng	-0.01
42) 2,4,6-Tribromophenol	10.675	330	24706	13.210	ng	-0.01
45) 2-Fluorobiphenyl	9.198	172	170103	16.579	ng	-0.01
79) Terphenyl-d14	12.974	244	160332	14.634	ng	0.00
Target Compounds						Qvalue
49) Acenaphthylene	9.745	152	58139	3.887	ng	98
52) Acenaphthene	9.916	154	37003	4.264	ng	97
55) Dibenzofuran	10.086	168	40072	2.955	ng	# 96
58) Fluorene	10.433	166	54626m	5.177	ng	
71) Phenanthrene	11.404	178	343900	26.768	ng	99
72) Anthracene	11.451	178	146047	10.929	ng	99
75) Fluoranthene	12.604	202	850968	61.268	ng	99
78) Pyrene	12.833	202	808201	49.251	ng	99
81) Benzo(a)anthracene	14.033	228	352198	28.801	ng	96
83) Chrysene	14.069	228	307340	25.948	ng	98
87) Indeno(1,2,3-cd)pyrene	17.092	276	124202	11.054	ng	95
88) Benzo(b)fluoranthene	15.104	252	355981m	37.389	ng	
89) Benzo(k)fluoranthene	15.127	252	116584m	12.027	ng	
90) Benzo(a)pyrene	15.486	252	258606	28.089	ng	98
91) Dibenzo(a,h)anthracene	17.104	278	32249m	3.514	ng	
92) Benzo(g,h,i)perylene	17.562	276	118112	12.481	ng	95

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

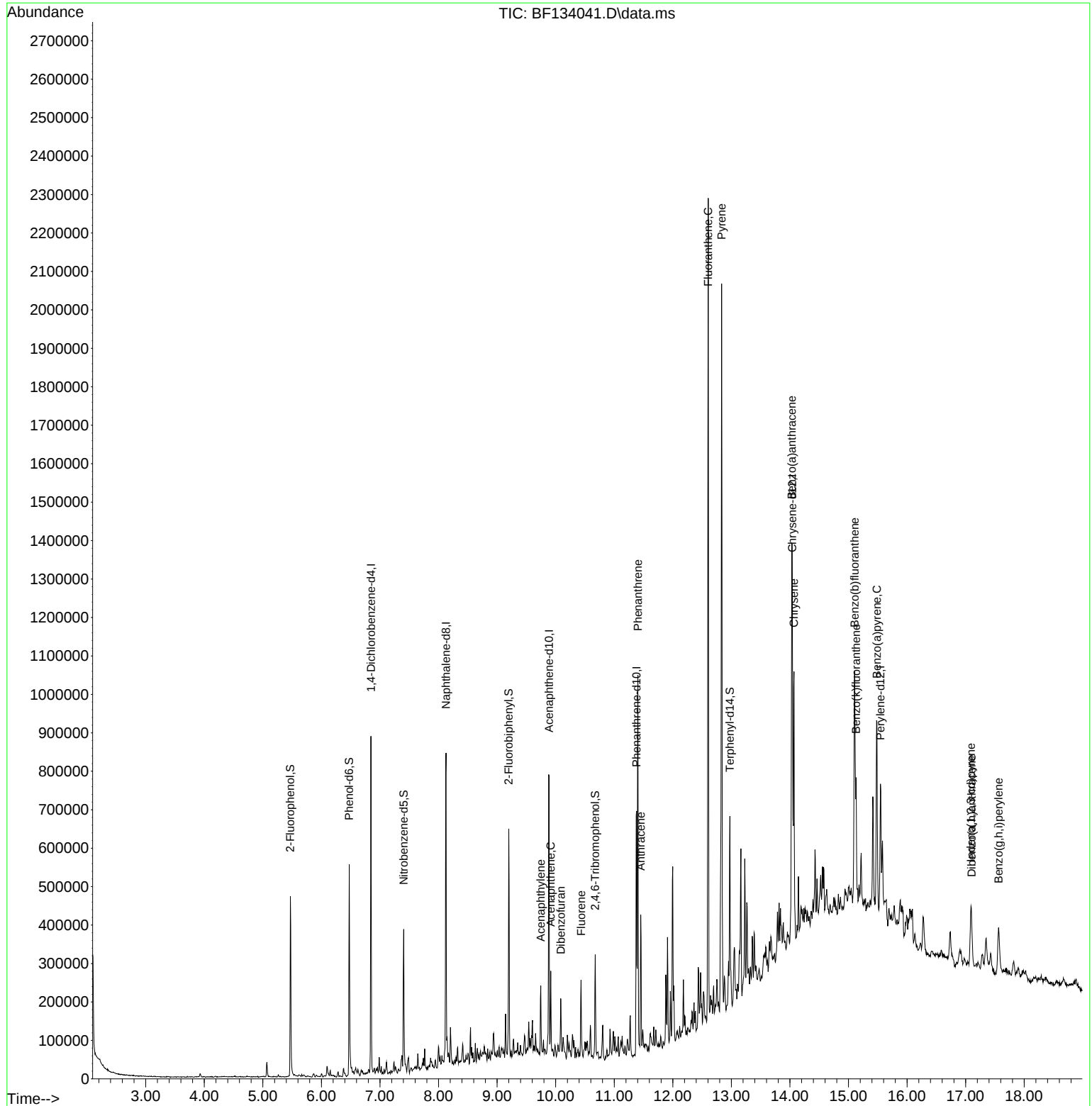
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062923\
Data File : BF134041.D
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ALS Vial : 15 Sample Multiplier: 1

Instrument :
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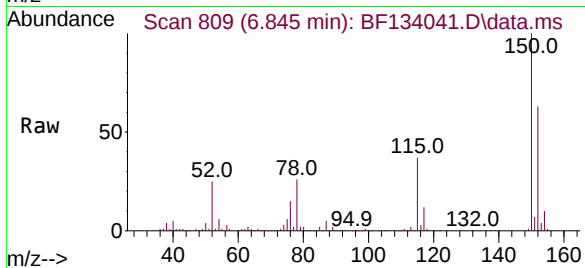
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min Scan# 809
Delta R.T. -0.006 min
Lab File: BF134041.D
Acq: 29 Jun 2023 17:29

Instrument :

BNA_F

ClientSampleId :

ORA-1651RE



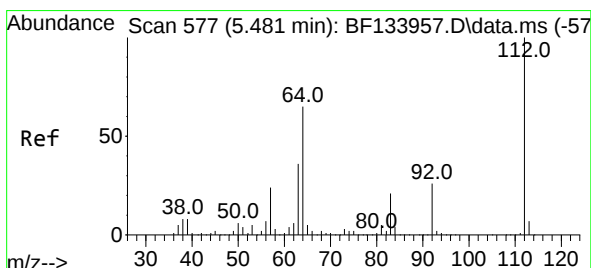
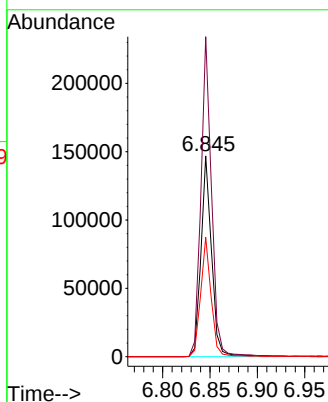
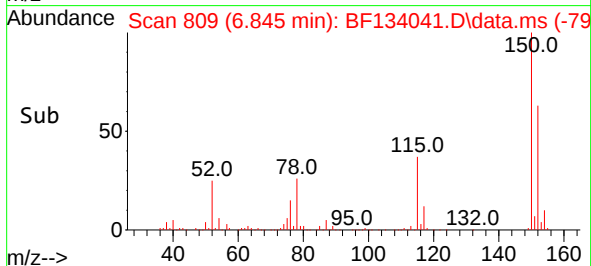
Tgt Ion:152 Resp: 114818
Ion Ratio Lower Upper
152 100
150 159.4 124.5 186.7
115 59.5 50.2 75.2

Manual Integrations

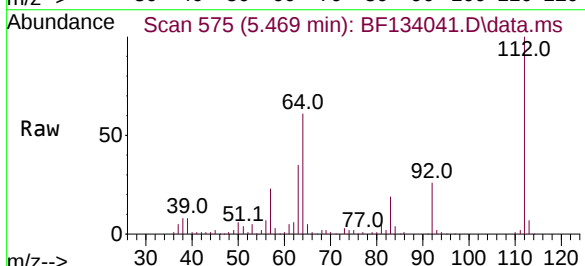
APPROVED

Reviewed By :Yogesh Patel 06/30/2023

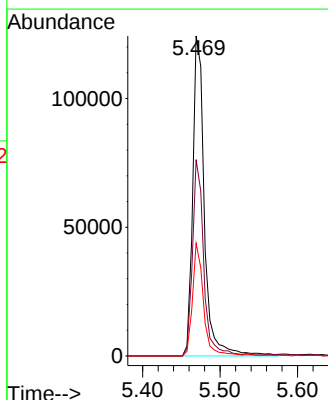
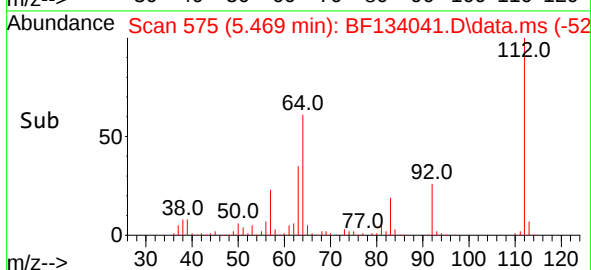
Supervised By :mohammad ahmed 06/30/2023

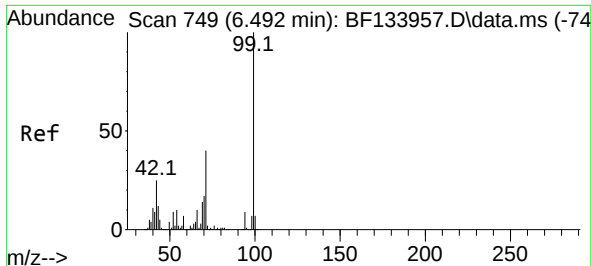


#5
2-Fluorophenol
Concen: 19.030 ng
RT: 5.469 min Scan# 575
Delta R.T. -0.012 min
Lab File: BF134041.D
Acq: 29 Jun 2023 17:29



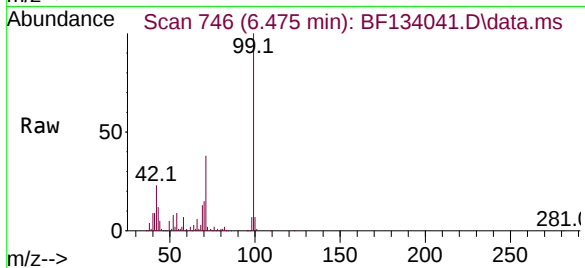
Tgt Ion:112 Resp: 130622
Ion Ratio Lower Upper
112 100
64 61.4 52.1 78.1
63 35.2 28.6 42.8





#7
Phenol-d6
Concen: 19.011 ng
RT: 6.475 min Scan# 749
Delta R.T. -0.017 min
Lab File: BF134041.D
Acq: 29 Jun 2023 17:29

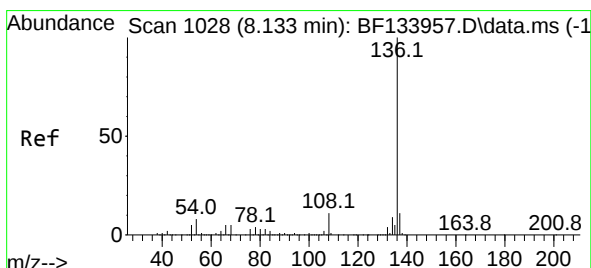
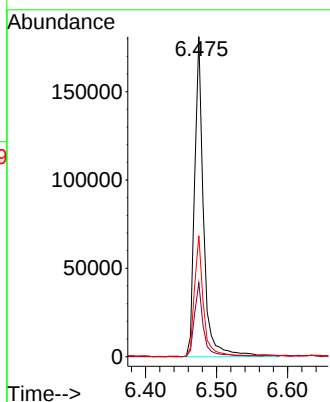
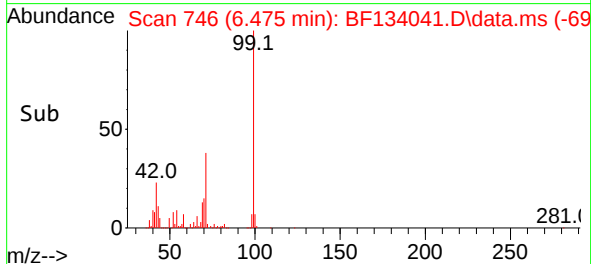
Instrument :
BNA_F
ClientSampleId :
ORA-1651RE



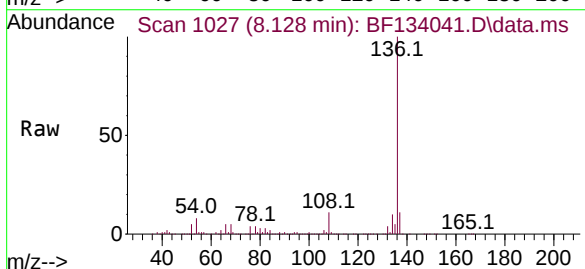
Tgt Ion: 99 Resp: 160474
Ion Ratio Lower Upper
99 100
42 23.1 19.8 29.6
71 37.8 31.9 47.9

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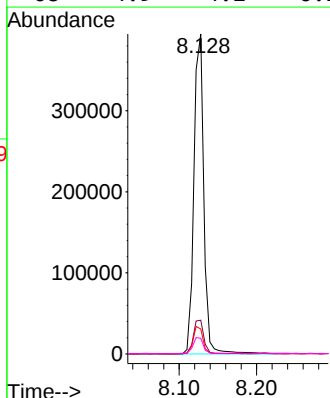
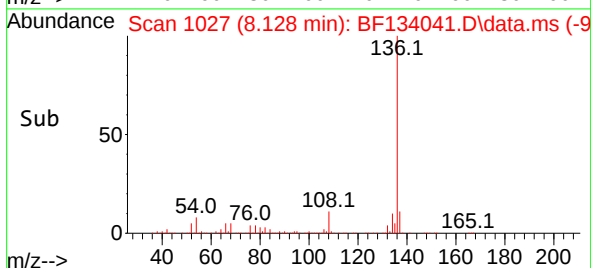
Reviewed By :Yogesh Patel 06/30/2023
Supervised By :mohammad ahmed 06/30/2023

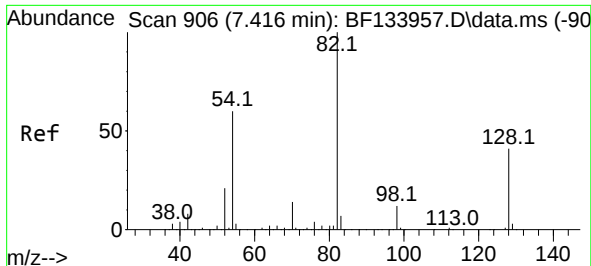


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1027
Delta R.T. -0.006 min
Lab File: BF134041.D
Acq: 29 Jun 2023 17:29



Tgt Ion:136 Resp: 350592
Ion Ratio Lower Upper
136 100
137 10.5 8.6 12.8
54 7.8 6.5 9.7
68 4.9 4.2 6.2





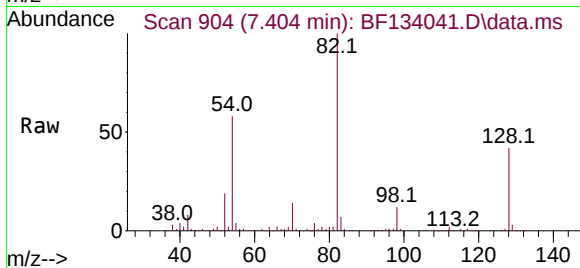
#23
Nitrobenzene-d5
Concen: 15.705 ng
RT: 7.404 min Scan# 906
Delta R.T. -0.012 min
Lab File: BF134041.D
Acq: 29 Jun 2023 17:29

Instrument :

BNA_F

ClientSampleId :

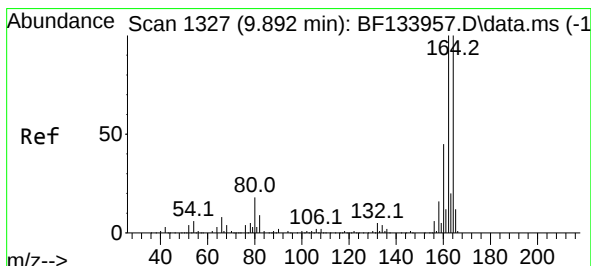
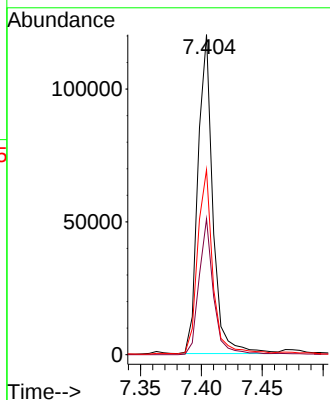
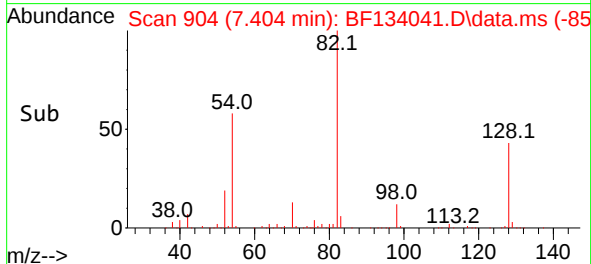
ORA-1651RE



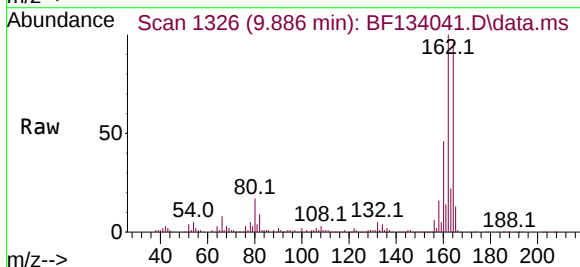
Tgt Ion: 82 Resp: 102144
Ion Ratio Lower Upper
82 100
128 42.5 32.5 48.7
54 57.8 48.2 72.2

Manual Integrations
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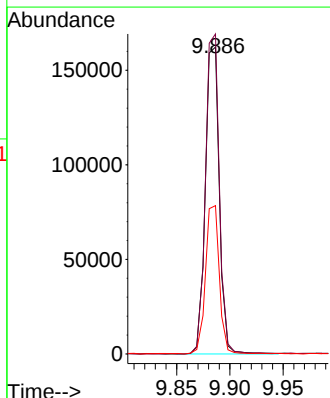
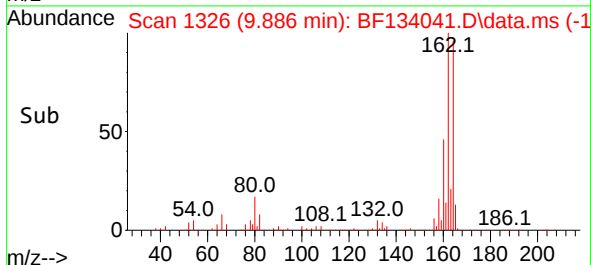
Reviewed By :Yogesh Patel 06/30/2023
Supervised By :mohammad ahmed 06/30/2023

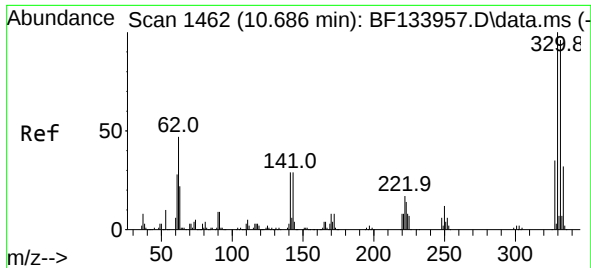


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.886 min Scan# 1326
Delta R.T. -0.006 min
Lab File: BF134041.D
Acq: 29 Jun 2023 17:29



Tgt Ion:164 Resp: 149170
Ion Ratio Lower Upper
164 100
162 104.3 80.0 120.0
160 48.3 35.9 53.9





#42
2,4,6-Tribromophenol
Concen: 13.210 ng
RT: 10.675 min Scan# 1460
Delta R.T. -0.012 min
Lab File: BF134041.D
Acq: 29 Jun 2023 17:29

Instrument :

BNA_F

ClientSampleId :

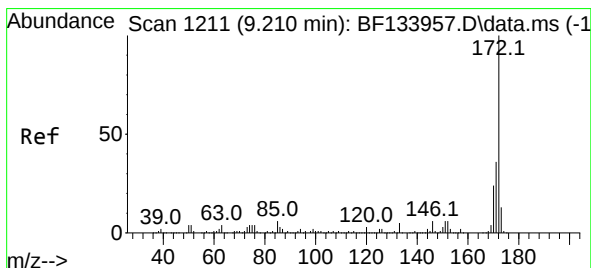
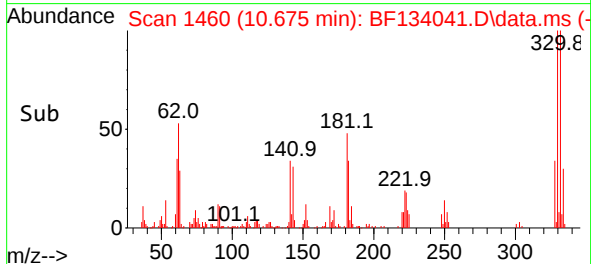
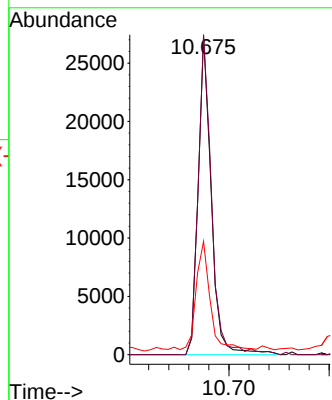
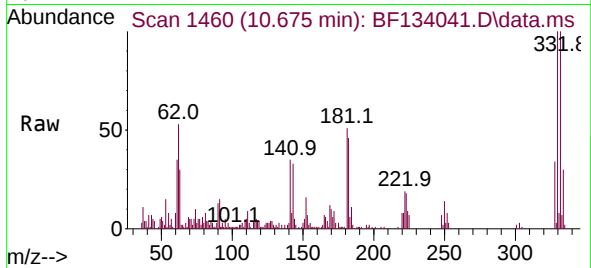
ORA-1651RE

Tgt Ion:330 Resp: 24700
Ion Ratio Lower Upper
330 100
332 102.6 77.0 115.6
141 35.6 26.3 39.5

Manual Integrations

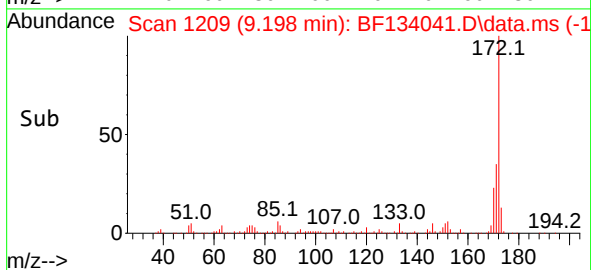
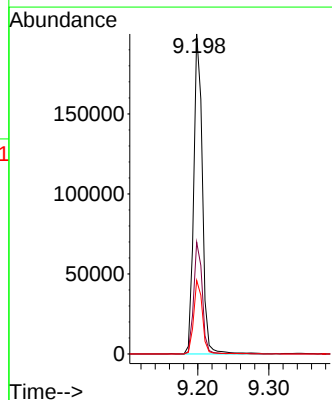
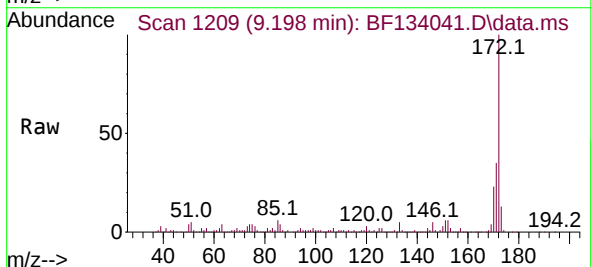
APPROVED

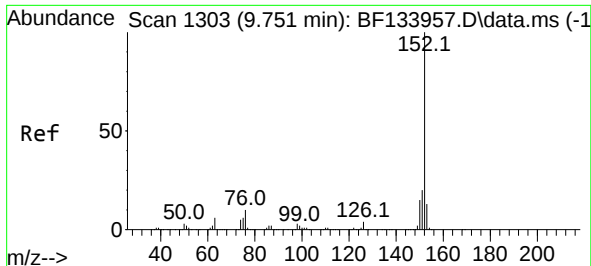
Reviewed By :Yogesh Patel 06/30/2023
Supervised By :mohammad ahmed 06/30/2023



#45
2-Fluorobiphenyl
Concen: 16.579 ng
RT: 9.198 min Scan# 1209
Delta R.T. -0.012 min
Lab File: BF134041.D
Acq: 29 Jun 2023 17:29

Tgt Ion:172 Resp: 170103
Ion Ratio Lower Upper
172 100
171 35.0 28.6 43.0
170 23.0 19.4 29.0





#49

Acenaphthylene

Concen: 3.887 ng

RT: 9.745 min Scan# 1302

Delta R.T. -0.006 min

Lab File: BF134041.D

Acq: 29 Jun 2023 17:29

Instrument :

BNA_F

ClientSampleId :

ORA-1651RE

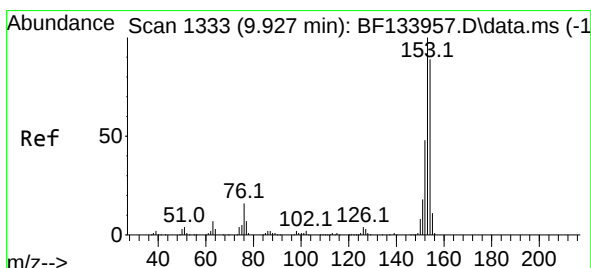
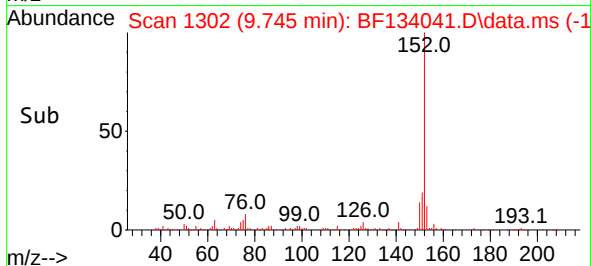
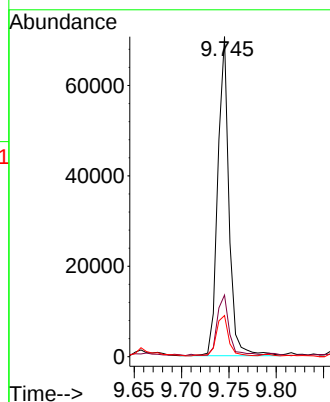
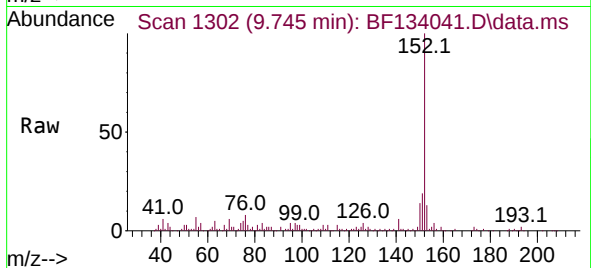
Tgt Ion:	152	Resp:	58139
Ion Ratio	Lower	Upper	
152	100		
151	19.3	16.2	24.2
153	12.9	10.8	16.2

Manual Integrations

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Reviewed By :Yogesh Patel 06/30/2023

Supervised By :mohammad ahmed 06/30/2023



#52

Acenaphthene

Concen: 4.264 ng

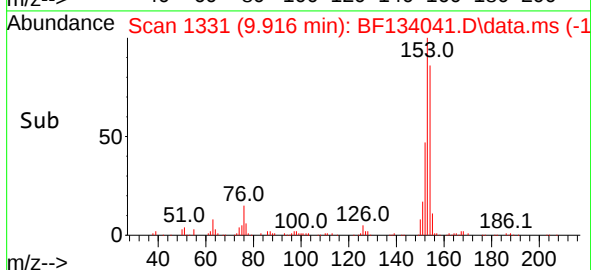
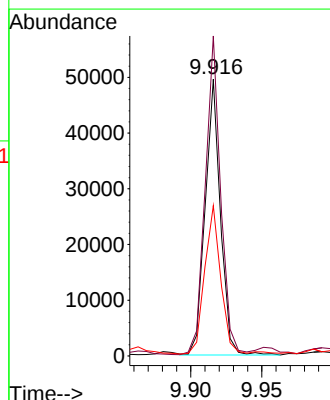
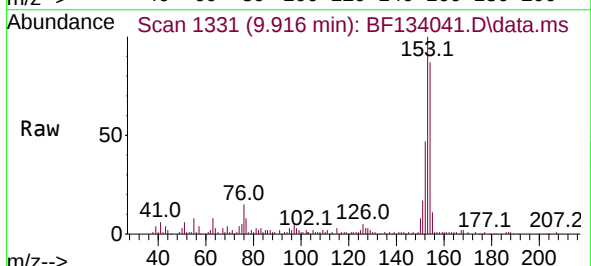
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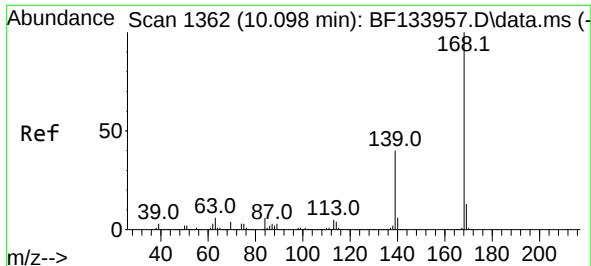
Delta R.T. -0.011 min

Lab File: BF134041.D

Acq: 29 Jun 2023 17:29

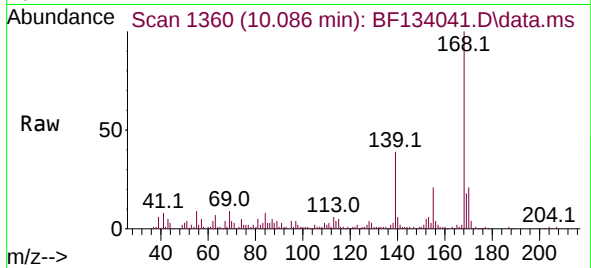
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Ion Ratio	Lower	Upper	
154	100		
153	115.6	89.4	134.2
152	54.3	42.8	64.2





#55
Dibenzofuran
Concen: 2.955 ng
RT: 10.086 min Scan# 1419
Delta R.T. -0.012 min
Lab File: BF134041.D
Acq: 29 Jun 2023 17:29

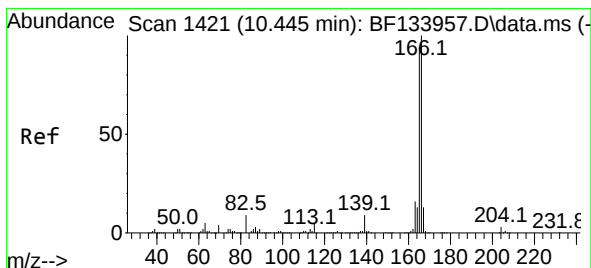
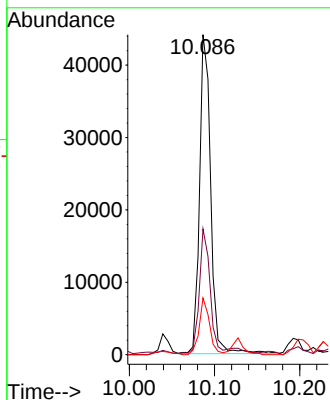
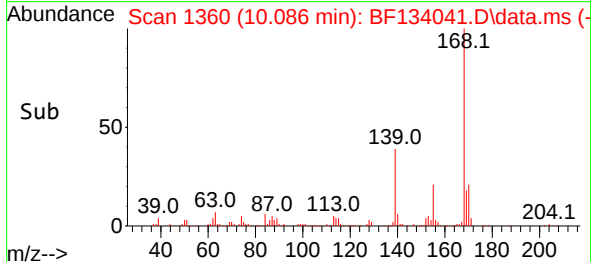
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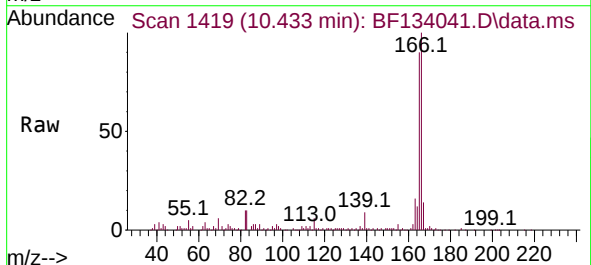
Tgt Ion:168 Resp: 40072
Ion Ratio Lower Upper
168 100
139 39.3 32.0 48.0
169 17.7 10.6 16.0

Manual Integrations
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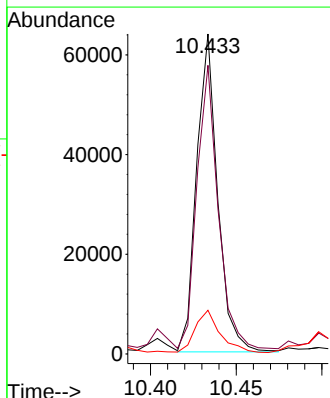
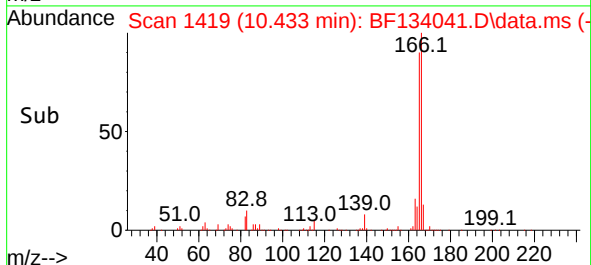
Reviewed By :Yogesh Patel 06/30/2023
Supervised By :mohammad ahmed 06/30/2023



#58
Fluorene
Concen: 5.177 ng m
RT: 10.433 min Scan# 1419
Delta R.T. -0.012 min
Lab File: BF134041.D
Acq: 29 Jun 2023 17:29



Tgt Ion:166 Resp: 54626
Ion Ratio Lower Upper
166 100
165 90.2 75.0 112.4
167 13.7 10.6 15.8





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.380 min Scan# 11380

Delta R.T. -0.006 min

Lab File: BF134041.D

Acq: 29 Jun 2023 17:29

Instrument :

BNA_F

ClientSampleId :

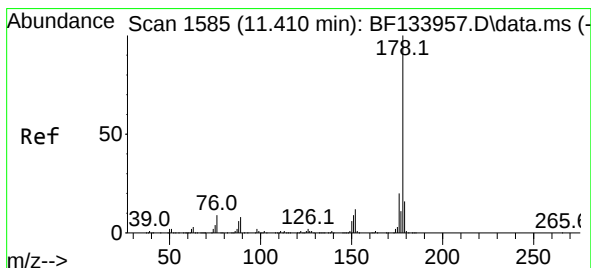
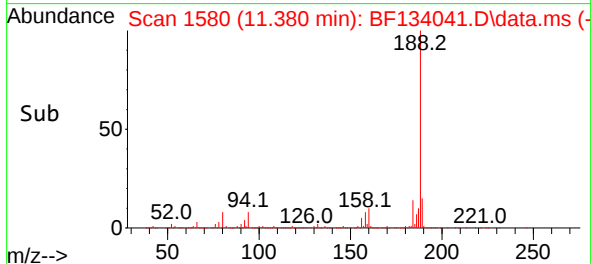
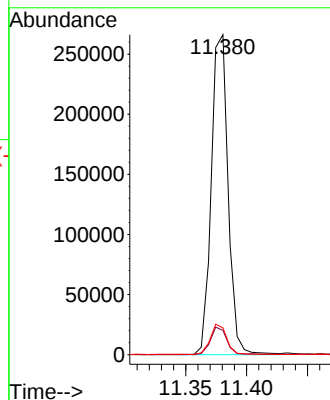
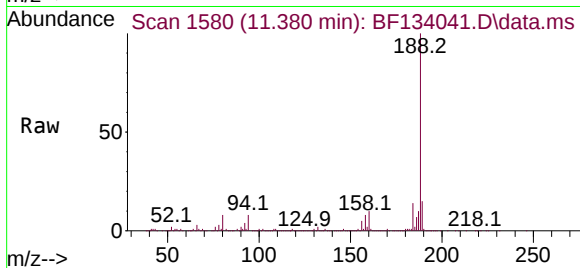
ORA-1651RE

Tgt Ion:188 Resp: 255204
 Ion Ratio Lower Upper
 188 100
 94 7.6 6.4 9.6
 80 8.4 7.3 10.9

Manual Integrations

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Reviewed By :Yogesh Patel 06/30/2023
 Supervised By :mohammad ahmed 06/30/2023



#71

Phenanthrene

Concen: 26.768 ng

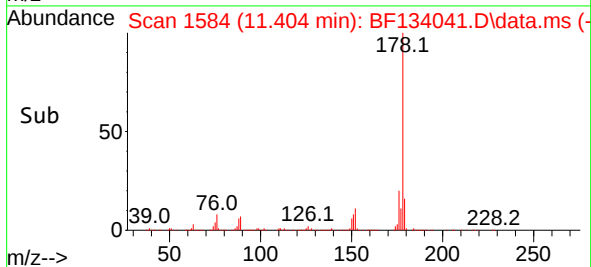
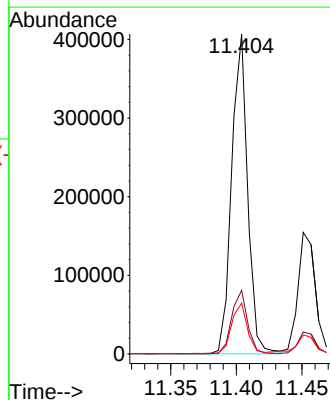
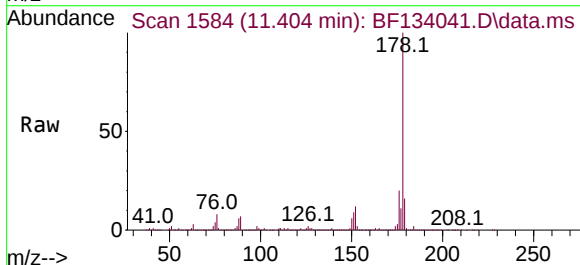
RT: 11.404 min Scan# 1584

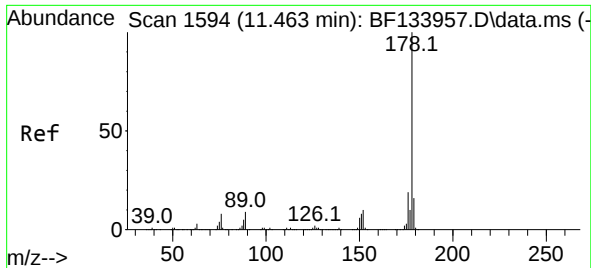
Delta R.T. -0.006 min

Lab File: BF134041.D

Acq: 29 Jun 2023 17:29

Tgt Ion:178 Resp: 343900
 Ion Ratio Lower Upper
 178 100
 176 19.9 16.0 24.0
 179 15.9 12.4 18.6





#72
 Anthracene
 Concen: 10.929 ng
 RT: 11.451 min Scan# 1594
 Delta R.T. -0.012 min
 Lab File: BF134041.D
 Acq: 29 Jun 2023 17:29

Instrument :

BNA_F

ClientSampleId :

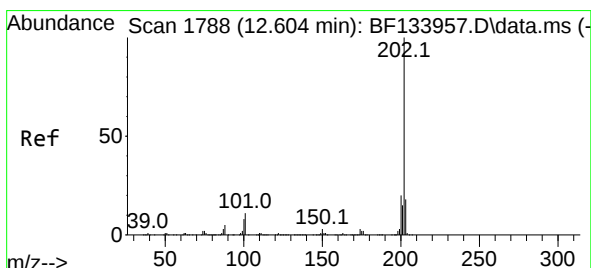
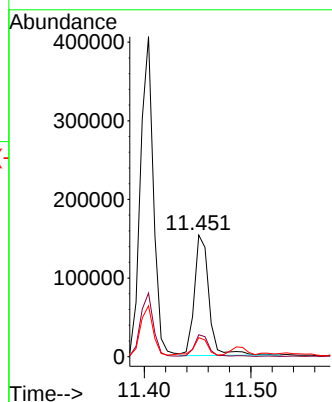
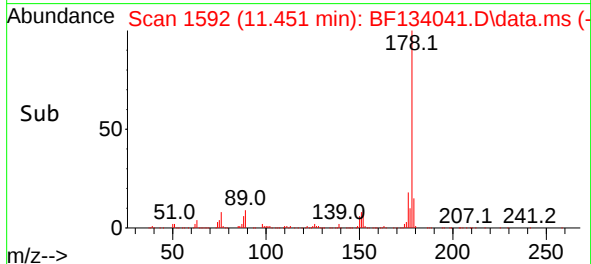
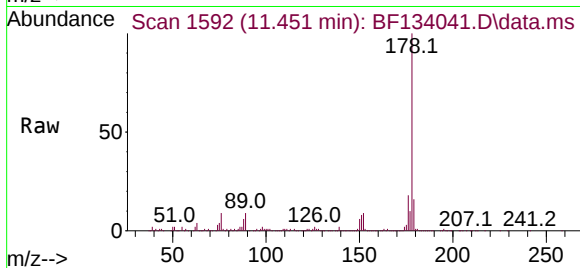
ORA-1651RE

Tgt Ion:178 Resp: 14604
 Ion Ratio Lower Upper
 178 100
 176 18.1 15.3 22.9
 179 15.6 12.4 18.6

Manual Integrations

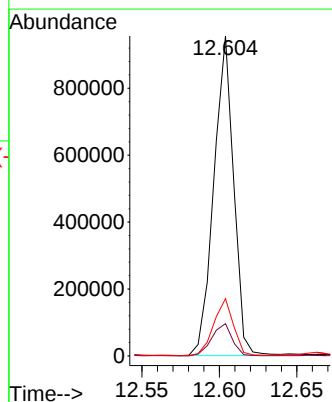
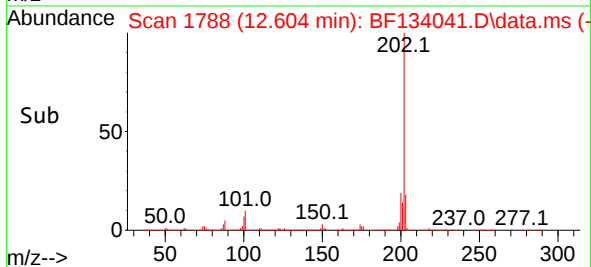
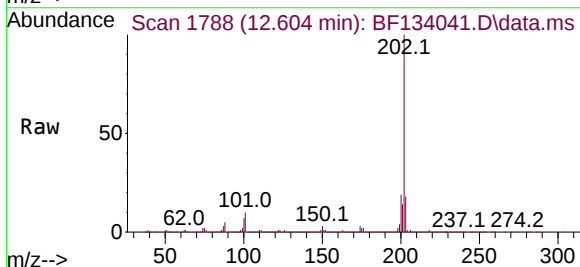
APPROVED

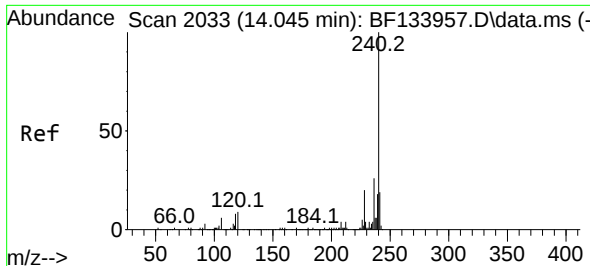
Reviewed By :Yogesh Patel 06/30/2023
 Supervised By :mohammad ahmed 06/30/2023



#75
 Fluoranthene
 Concen: 61.268 ng
 RT: 12.604 min Scan# 1788
 Delta R.T. 0.000 min
 Lab File: BF134041.D
 Acq: 29 Jun 2023 17:29

Tgt Ion:202 Resp: 850968
 Ion Ratio Lower Upper
 202 100
 101 10.1 0.0 31.0
 203 17.9 0.0 37.6





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2033
Delta R.T. -0.006 min
Lab File: BF134041.D
Acq: 29 Jun 2023 17:29

Instrument :

BNA_F

ClientSampleId :

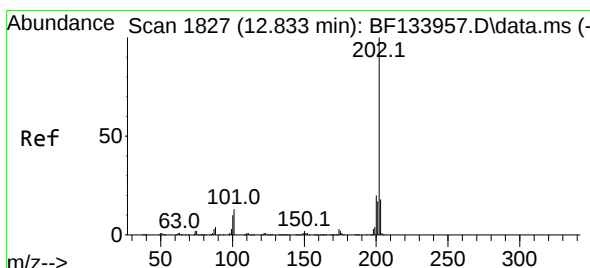
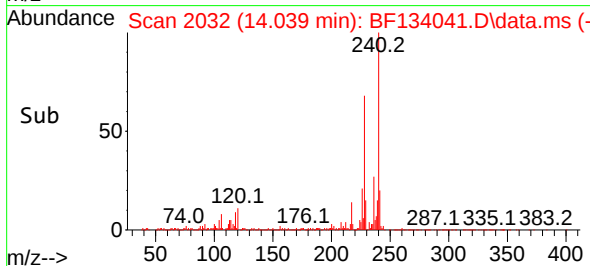
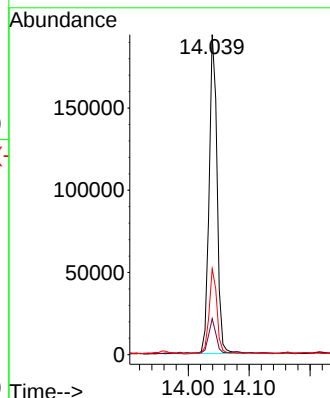
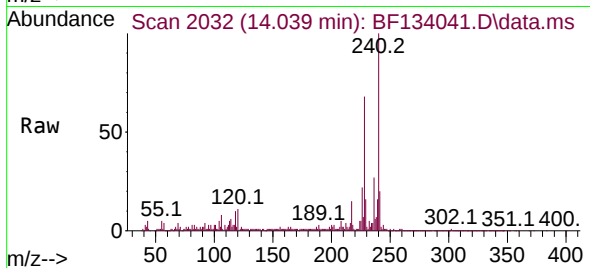
ORA-1651RE

Tgt Ion:240 Resp: 176329
Ion Ratio Lower Upper
240 100
120 11.2 7.4 11.0
236 26.8 21.0 31.6

Manual Integrations

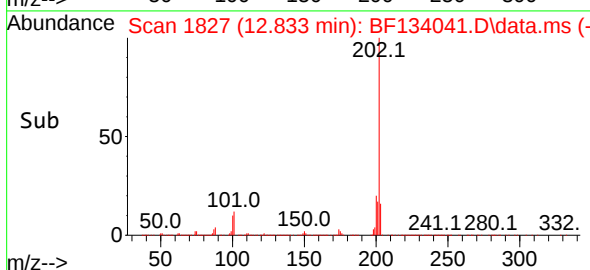
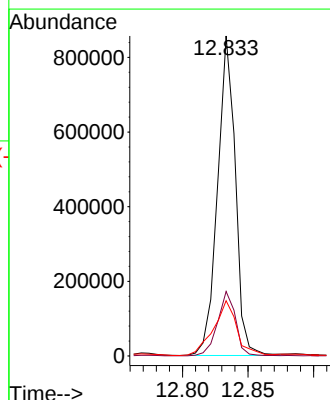
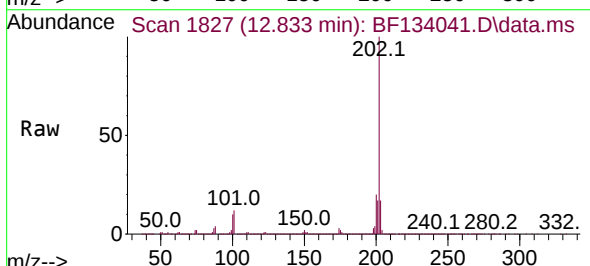
APPROVED

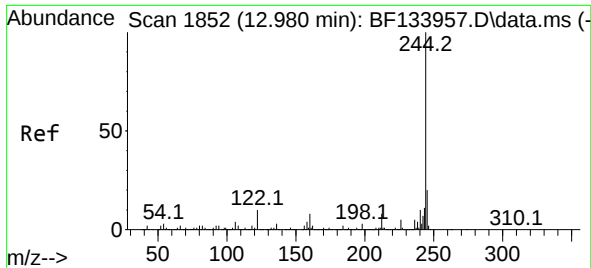
Reviewed By :Yogesh Patel 06/30/2023
Supervised By :mohammad ahmed 06/30/2023



#78
Pyrene
Concen: 49.251 ng
RT: 12.833 min Scan# 1827
Delta R.T. 0.000 min
Lab File: BF134041.D
Acq: 29 Jun 2023 17:29

Tgt Ion:202 Resp: 808201
Ion Ratio Lower Upper
202 100
200 20.2 16.1 24.1
203 17.3 14.3 21.5





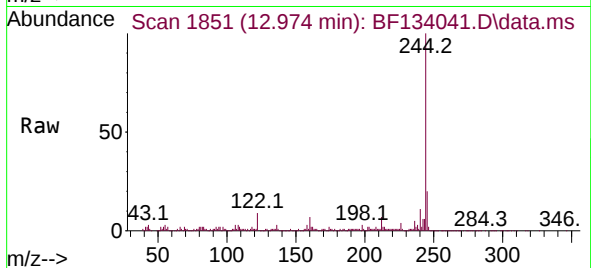
#79
Terphenyl-d14
Concen: 14.634 ng
RT: 12.974 min Scan# 1851
Delta R.T. -0.006 min
Lab File: BF134041.D
Acq: 29 Jun 2023 17:29

Instrument :

BNA_F

ClientSampleId :

ORA-1651RE

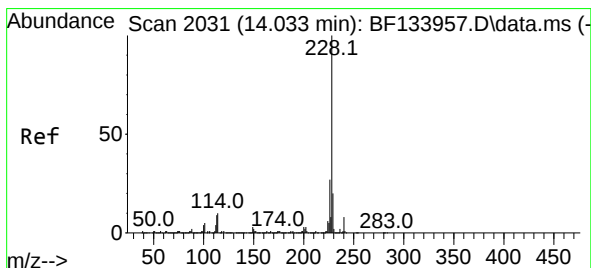
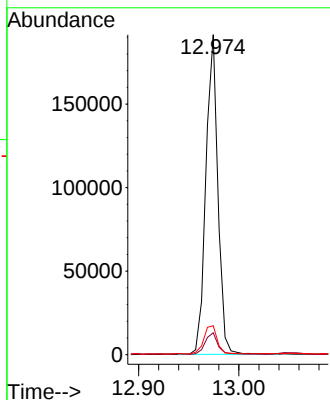
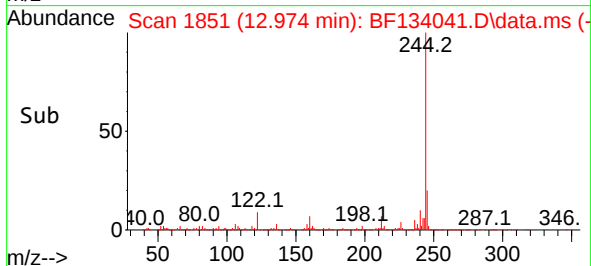


Tgt Ion:244 Resp: 160332
Ion Ratio Lower Upper
244 100
212 6.9 6.0 9.0
122 9.0 8.3 12.5

Manual Integrations

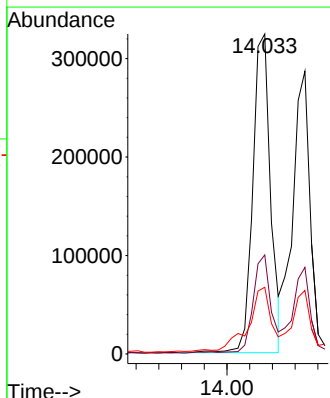
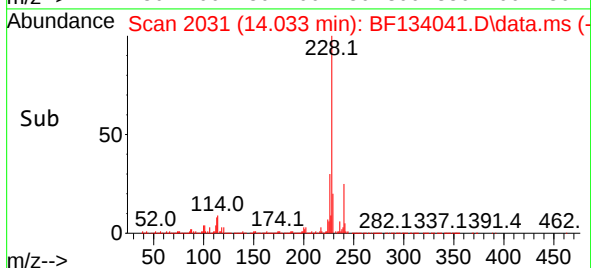
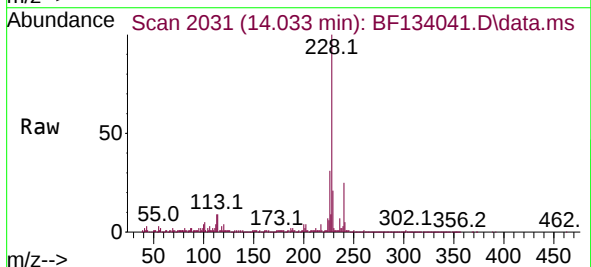
APPROVED

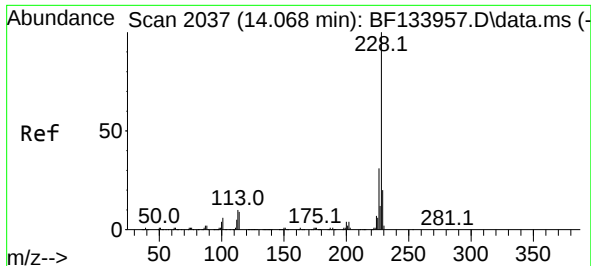
Reviewed By :Yogesh Patel 06/30/2023
Supervised By :mohammad ahmed 06/30/2023



#81
Benzo(a)anthracene
Concen: 28.801 ng
RT: 14.033 min Scan# 2031
Delta R.T. 0.000 min
Lab File: BF134041.D
Acq: 29 Jun 2023 17:29

Tgt Ion:228 Resp: 352198
Ion Ratio Lower Upper
228 100
226 31.0 22.0 33.0
229 20.9 16.3 24.5





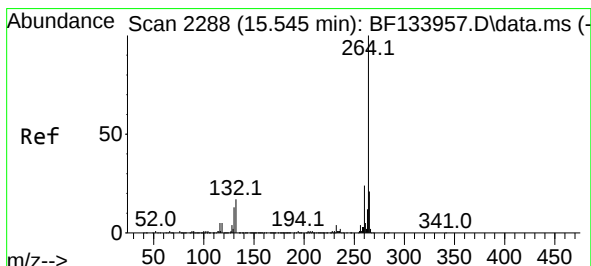
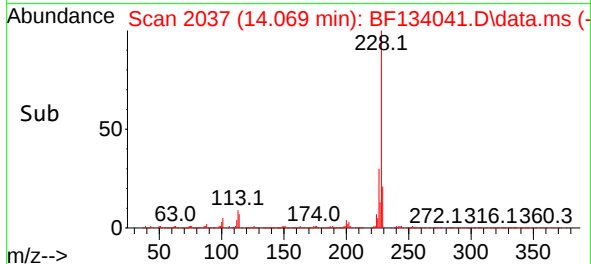
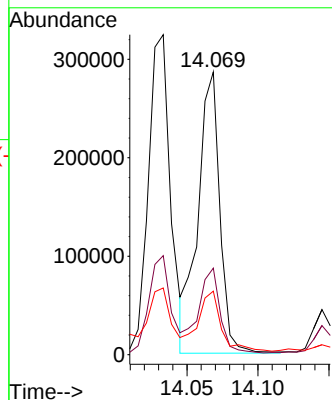
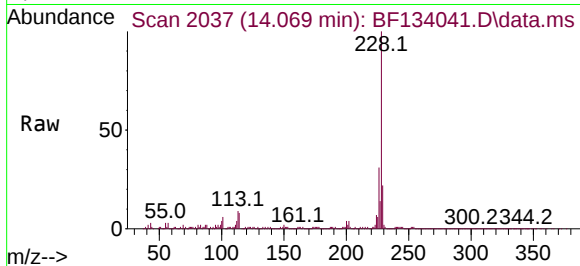
#83
Chrysene
Concen: 25.948 ng
RT: 14.069 min Scan# 2037
Delta R.T. 0.000 min
Lab File: BF134041.D
Acq: 29 Jun 2023 17:29

Instrument :
BNA_F
ClientSampleId :
ORA-1651RE

Tgt Ion:228 Resp: 307340
Ion Ratio Lower Upper
228 100
226 30.6 24.4 36.6
229 22.5 16.1 24.1

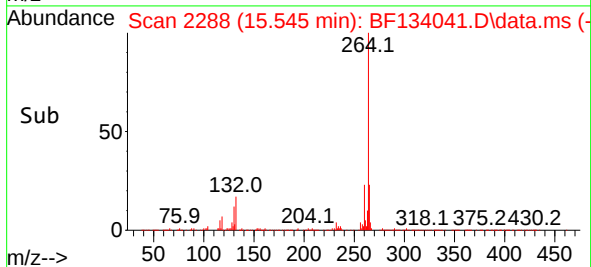
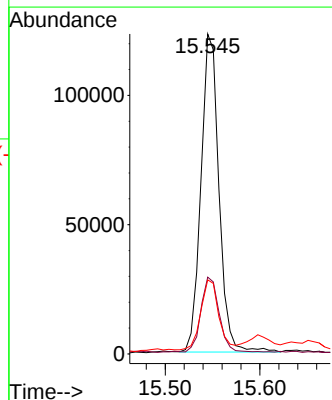
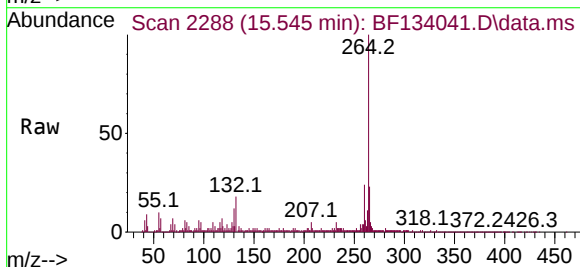
Manual Integrations
APPROVED

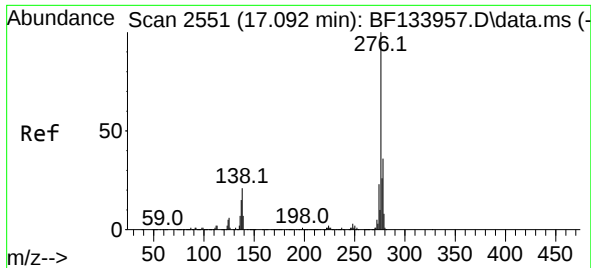
Reviewed By :Yogesh Patel 06/30/2023
Supervised By :mohammad ahmed 06/30/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.545 min Scan# 2288
Delta R.T. 0.000 min
Lab File: BF134041.D
Acq: 29 Jun 2023 17:29

Tgt Ion:264 Resp: 161918
Ion Ratio Lower Upper
264 100
260 24.0 19.5 29.3
265 23.2 16.6 25.0





#87
Indeno(1,2,3-cd)pyrene
Concen: 11.054 ng
RT: 17.092 min Scan# 2551
Delta R.T. 0.000 min
Lab File: BF134041.D
Acq: 29 Jun 2023 17:29

Instrument :

BNA_F

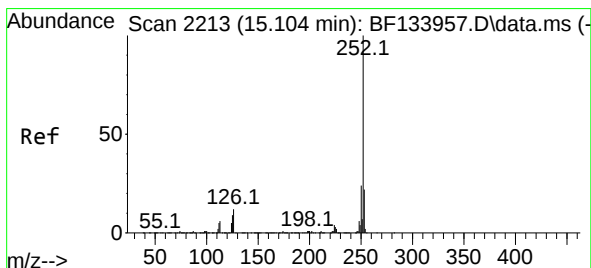
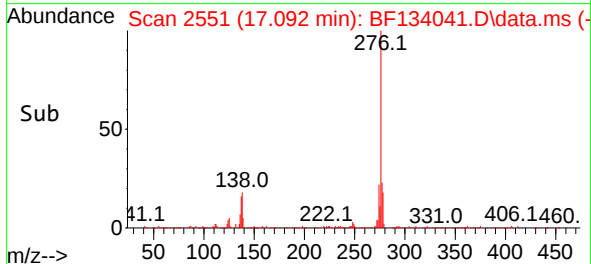
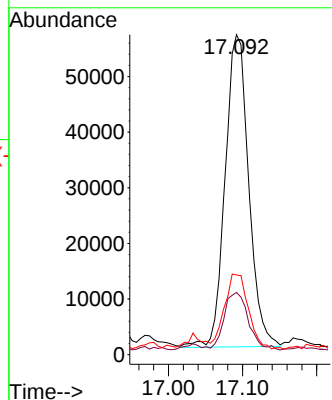
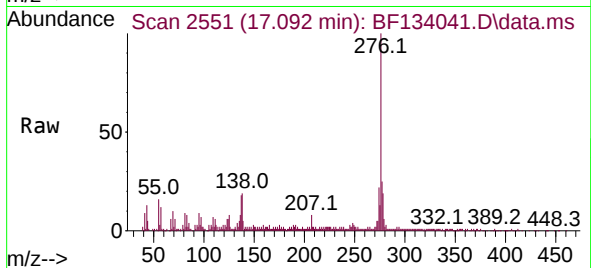
ClientSampleId :

ORA-1651RE

Tgt Ion:276 Resp: 12420
Ion Ratio Lower Upper
276 100
138 18.7 18.7 28.1
277 24.5 19.9 29.9

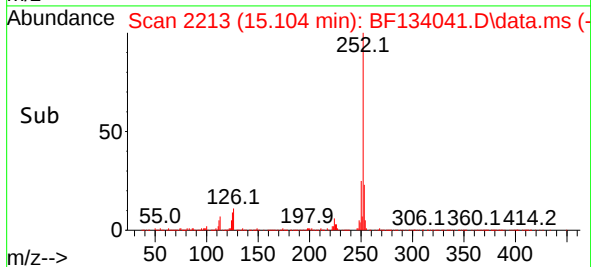
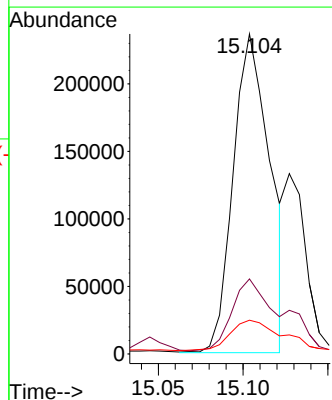
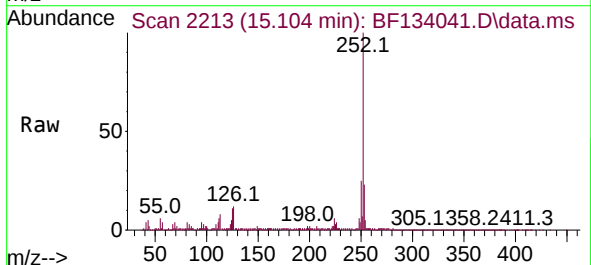
Manual Integrations
APPROVED

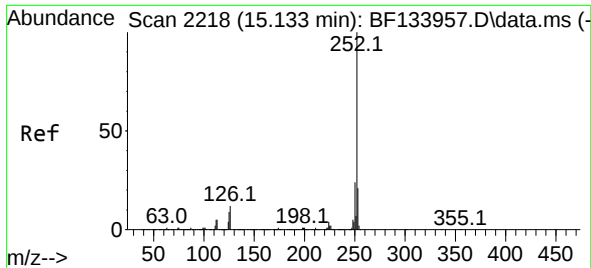
Reviewed By :Yogesh Patel 06/30/2023
Supervised By :mohammad ahmed 06/30/2023



#88
Benzo(b)fluoranthene
Concen: 37.389 ng m
RT: 15.104 min Scan# 2213
Delta R.T. 0.000 min
Lab File: BF134041.D
Acq: 29 Jun 2023 17:29

Tgt Ion:252 Resp: 355981
Ion Ratio Lower Upper
252 100
253 23.4 17.4 26.0
125 10.5 7.1 10.7





#89
Benzo(k)fluoranthene
Concen: 12.027 ng m
RT: 15.127 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF134041.D
Acq: 29 Jun 2023 17:29

Instrument :

BNA_F

ClientSampleId :

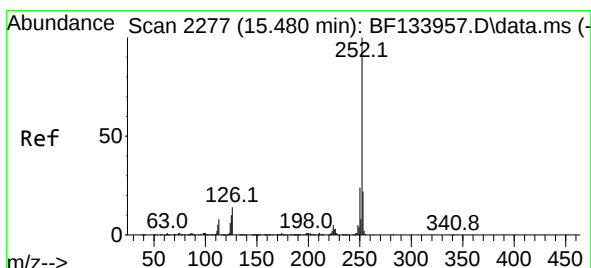
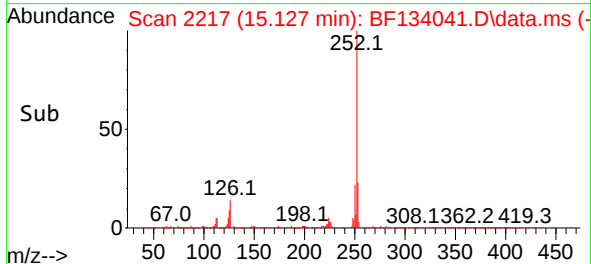
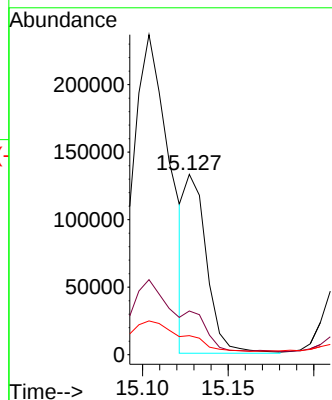
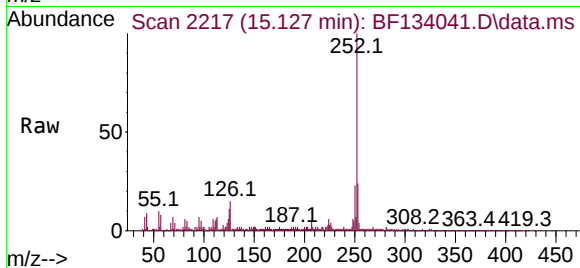
ORA-1651RE

Tgt Ion:252 Resp: 116584
Ion Ratio Lower Upper
252 100
253 24.3 16.9 25.3
125 10.6 7.4 11.2

Manual Integrations

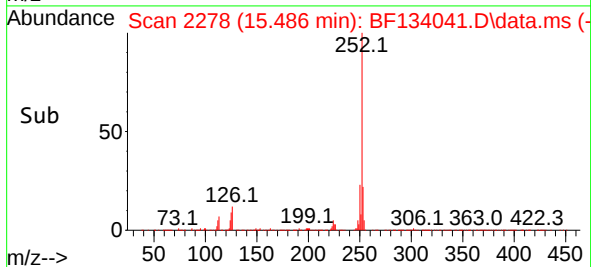
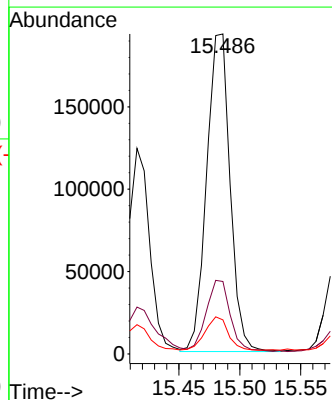
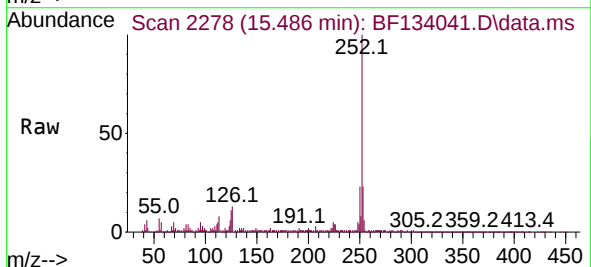
APPROVED

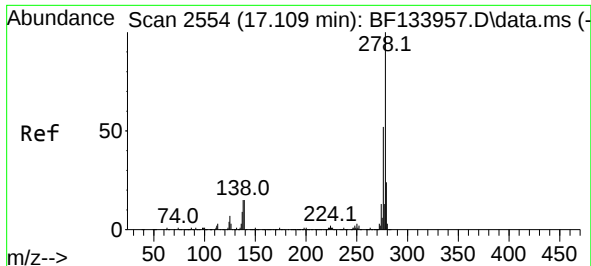
Reviewed By :Yogesh Patel 06/30/2023
Supervised By :mohammad ahmed 06/30/2023



#90
Benzo(a)pyrene
Concen: 28.089 ng
RT: 15.486 min Scan# 2278
Delta R.T. 0.006 min
Lab File: BF134041.D
Acq: 29 Jun 2023 17:29

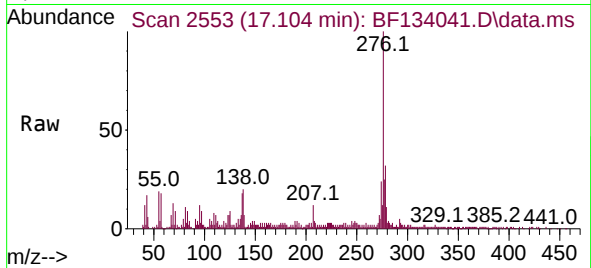
Tgt Ion:252 Resp: 258606
Ion Ratio Lower Upper
252 100
253 22.7 17.4 26.0
125 10.7 8.4 12.6





#91
Dibenzo(a,h)anthracene
Concen: 3.514 ng m
RT: 17.104 min Scan# 2554
Delta R.T. -0.006 min
Lab File: BF134041.D
Acq: 29 Jun 2023 17:29

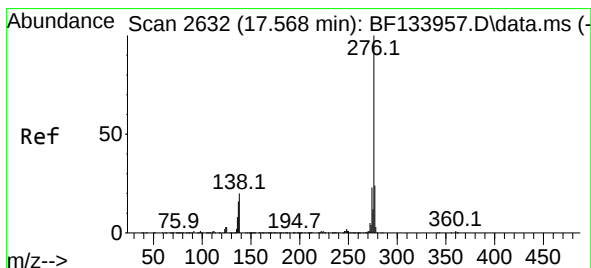
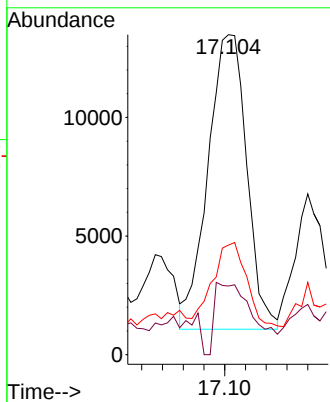
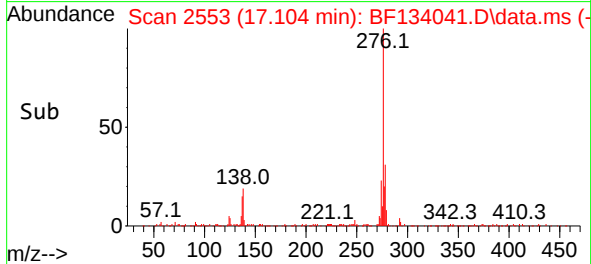
Instrument :
BNA_F
ClientSampleId :
ORA-1651RE



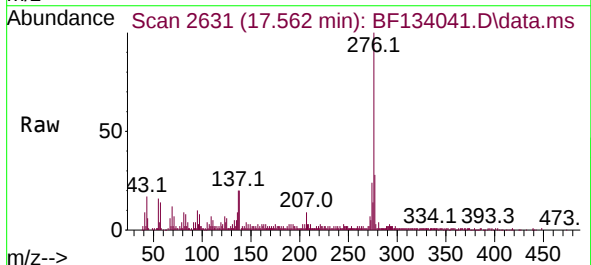
Tgt Ion:278 Resp: 32249
Ion Ratio Lower Upper
278 100
139 21.5 12.2 18.4
279 34.2 19.4 29.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/30/2023
Supervised By :mohammad ahmed 06/30/2023



#92
Benzo(g,h,i)perylene
Concen: 12.481 ng
RT: 17.562 min Scan# 2631
Delta R.T. -0.006 min
Lab File: BF134041.D
Acq: 29 Jun 2023 17:29



Tgt Ion:276 Resp: 118112
Ion Ratio Lower Upper
276 100
277 27.8 19.0 28.6
138 20.1 16.2 24.2

