

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072523\
 Data File : BF134467.D
 Acq On : 25 Jul 2023 17:33
 Operator : CG\JU
 Sample : 03580-02 5X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SAMPLE-1

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 07/26/2023
 Supervised By :mohammad ahmed 07/26/2023

Quant Time: Jul 25 18:38:41 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 25 01:46:04 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.834	152	64474	20.000	ng	0.00
21) Naphthalene-d8	8.110	136	230193	20.000	ng	# 0.00
39) Acenaphthene-d10	9.869	164	96880	20.000	ng	0.00
64) Phenanthrene-d10	11.369	188	154521	20.000	ng	0.00
76) Chrysene-d12	14.045	240	106235	20.000	ng	0.01
86) Perylene-d12	15.551	264	93599	20.000	ng	# 0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.469	112	203832	52.233	ng	0.00
7) Phenol-d6	6.475	99	212217	44.386	ng	0.00
23) Nitrobenzene-d5	7.392	82	76844	16.890	ng	-0.01
42) 2,4,6-Tribromophenol	10.663	330	27870	20.247	ng	0.00
45) 2-Fluorobiphenyl	9.186	172	149303	20.232	ng	0.00
79) Terphenyl-d14	12.963	244	131160	21.552	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.133	128	179085	15.632	ng	99
37) 2-Methylnaphthalene	8.828	142	214732	26.976	ng	100
38) 1-Methylnaphthalene	8.928	142	191304	25.906	ng	97
46) 1,1'-Biphenyl	9.286	154	41354	5.179	ng	97
49) Acenaphthylene	9.733	152	144396	14.520	ng	98
52) Acenaphthene	9.904	154	106044	18.051	ng	96
58) Fluorene	10.422	166	361133	49.509	ng	99
71) Phenanthrene	11.404	178	2392265	296.312	ng	99
72) Anthracene	11.451	178	543747	65.254	ng	100
73) Carbazole	11.604	167	26900	3.428	ng	# 91
75) Fluoranthene	12.610	202	2888601	306.998	ng	97
78) Pyrene	12.851	202	3790245	448.709	ng	95
81) Benzo(a)anthracene	14.033	228	1676193	226.151	ng	96
83) Chrysene	14.074	228	1414638	199.546	ng	96
87) Indeno(1,2,3-cd)pyrene	17.109	276	476037	77.849	ng	97
88) Benzo(b)fluoranthene	15.115	252	1238406m	211.491	ng	
89) Benzo(k)fluoranthene	15.133	252	395621m	68.701	ng	
90) Benzo(a)pyrene	15.498	252	999932	184.746	ng	98
91) Dibenzo(a,h)anthracene	17.109	278	155550	31.499	ng	96
92) Benzo(g,h,i)perylene	17.586	276	513693	101.308	ng	99

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

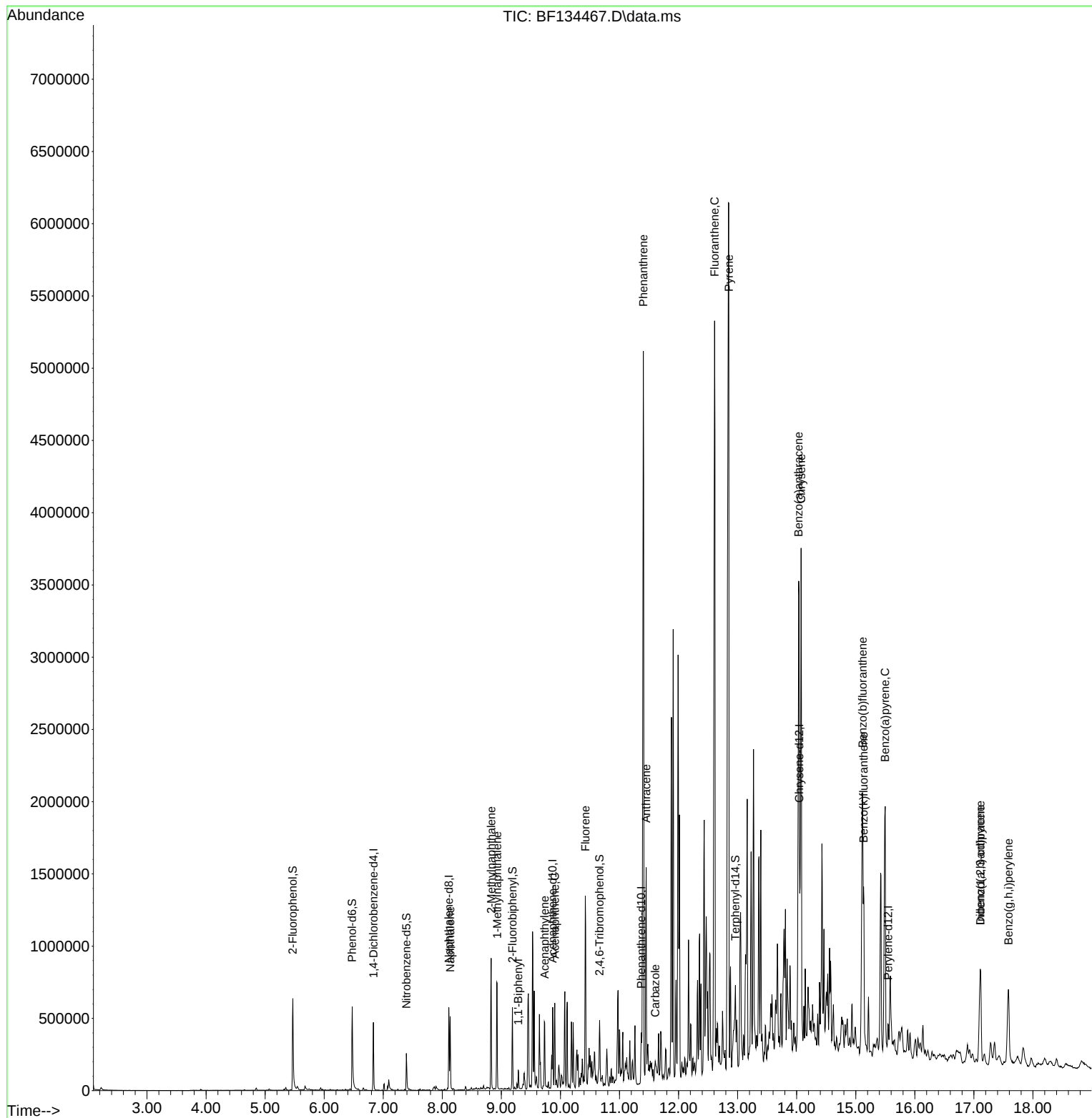
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072523\
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ALS Vial : 10 Sample Multiplier: 1

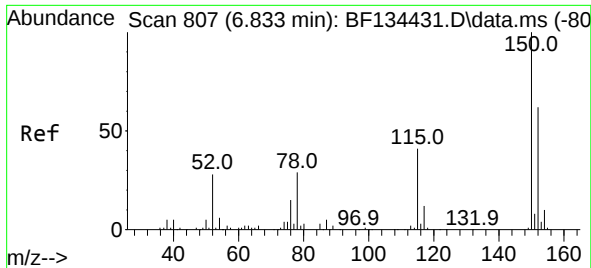
Instrument :
BNA_F
ClientSampleId :
SAMPLE-1

Quant Time: Jul 25 18:38:41 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 01:46:04 2023
Response via : Initial Calibration

Manual Integrations
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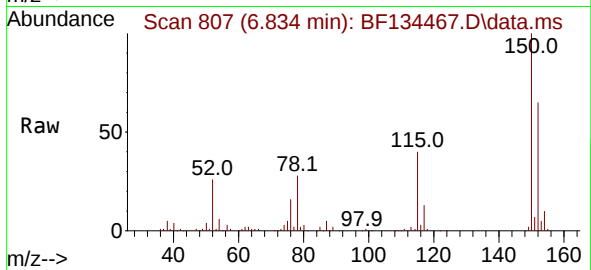
Reviewed By :Yogesh Patel 07/26/2023
Supervised By :mohammad ahmed 07/26/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.834 min Scan# 807
Delta R.T. 0.001 min
Lab File: BF134467.D
Acq: 25 Jul 2023 17:33

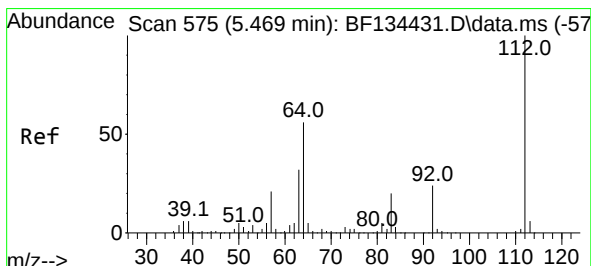
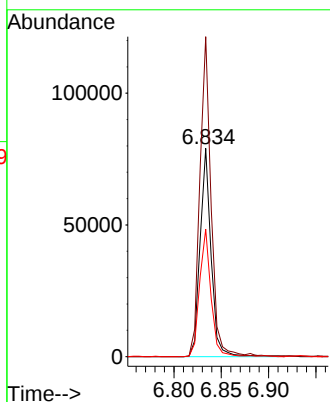
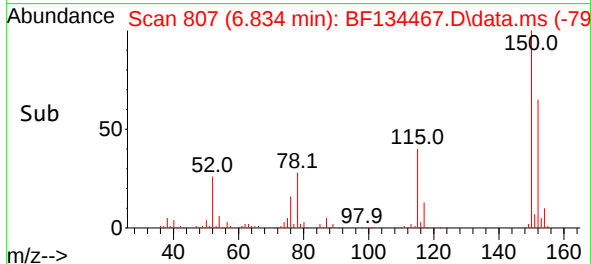
Instrument :
BNA_F
ClientSampleId :
SAMPLE-1



Tgt Ion:152 Resp: 64474
Ion Ratio Lower Upper
152 100
150 153.6 128.3 192.5
115 61.2 52.4 78.6

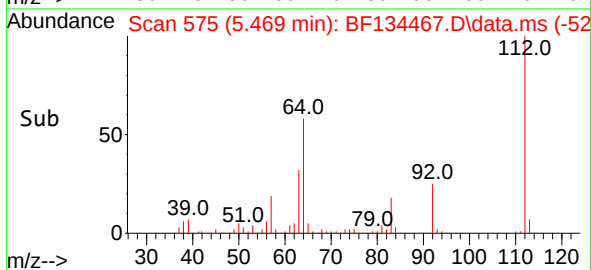
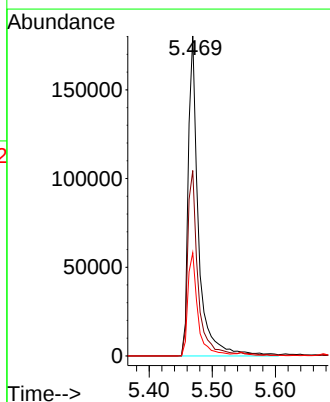
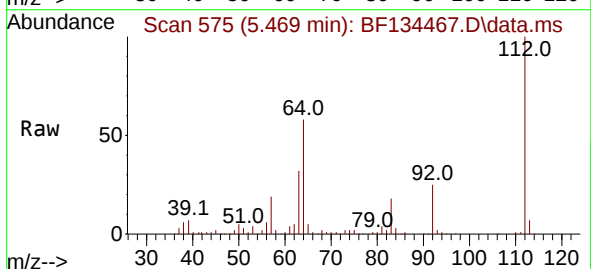
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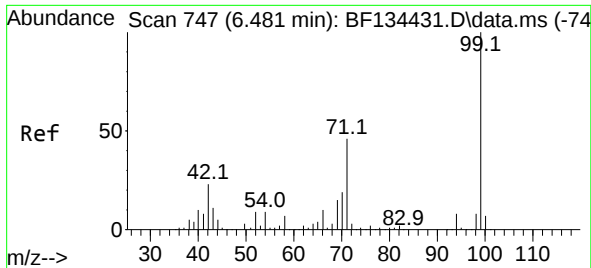
Reviewed By :Yogesh Patel 07/26/2023
Supervised By :mohammad ahmed 07/26/2023



#5
2-Fluorophenol
Concen: 52.233 ng
RT: 5.469 min Scan# 575
Delta R.T. 0.000 min
Lab File: BF134467.D
Acq: 25 Jul 2023 17:33

Tgt Ion:112 Resp: 203832
Ion Ratio Lower Upper
112 100
64 57.9 44.9 67.3
63 32.2 25.4 38.0





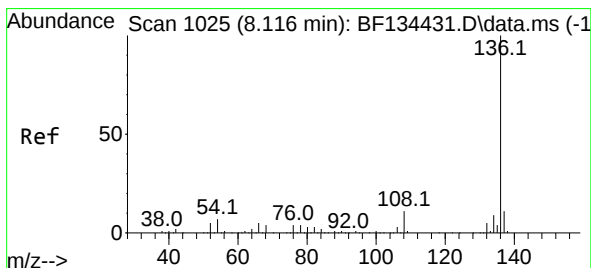
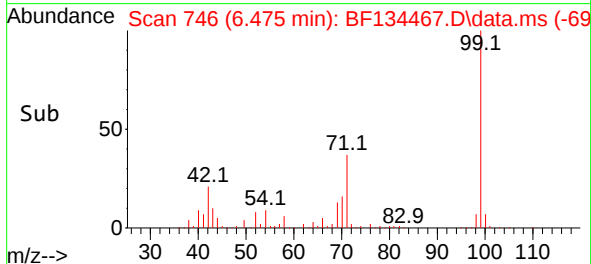
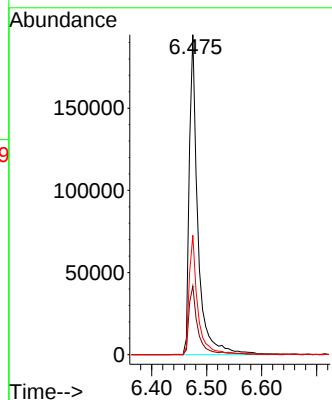
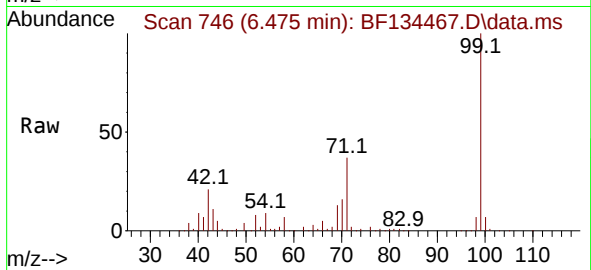
#7
Phenol-d6
Concen: 44.386 ng
RT: 6.475 min Scan# 74
Delta R.T. -0.006 min
Lab File: BF134467.D
Acq: 25 Jul 2023 17:33

Instrument :
BNA_F
ClientSampleId :
SAMPLE-1

Tgt Ion: 99 Resp: 21221
Ion Ratio Lower Upper
99 100
42 21.4 18.7 28.1
71 37.3 36.4 54.6

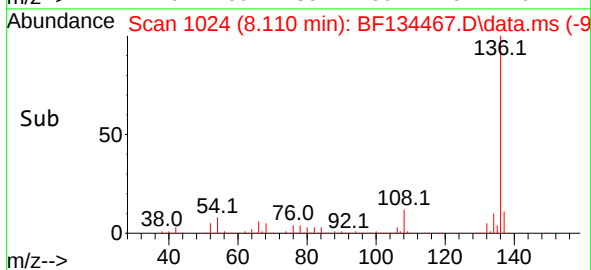
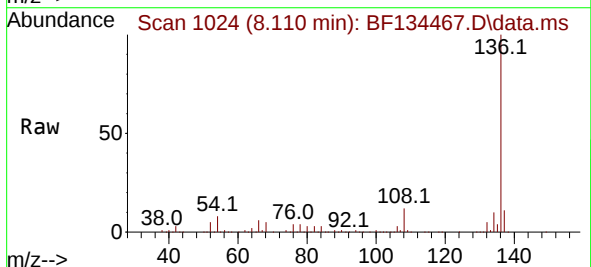
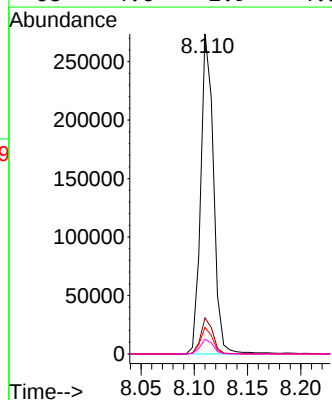
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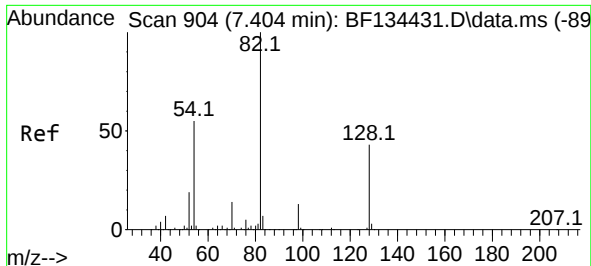
Reviewed By :Yogesh Patel 07/26/2023
Supervised By :mohammad ahmed 07/26/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.110 min Scan# 1024
Delta R.T. -0.006 min
Lab File: BF134467.D
Acq: 25 Jul 2023 17:33

Tgt Ion:136 Resp: 230193
Ion Ratio Lower Upper
136 100
137 11.3 8.4 12.6
54 8.3 5.2 7.8#
68 4.6 2.9 4.3#





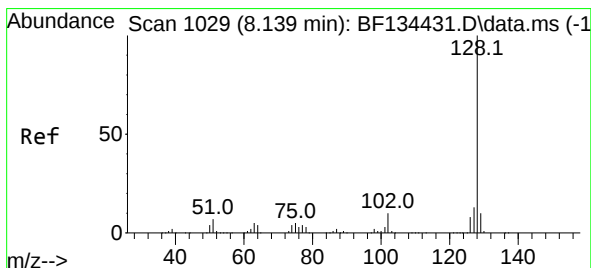
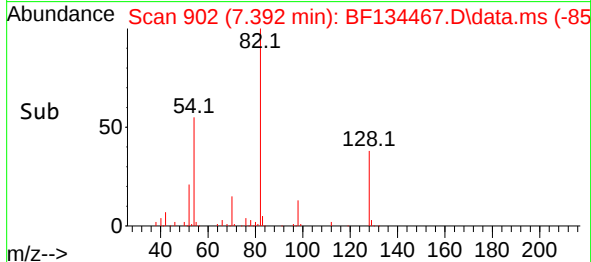
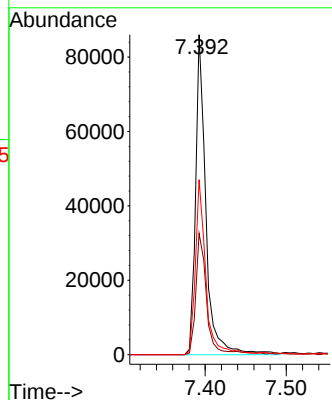
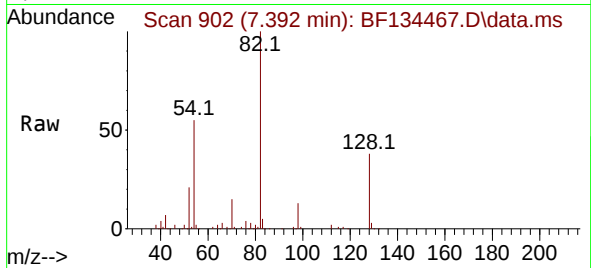
#23
Nitrobenzene-d5
Concen: 16.890 ng
RT: 7.392 min Scan# 904
Delta R.T. -0.012 min
Lab File: BF134467.D
Acq: 25 Jul 2023 17:33

Instrument :
BNA_F
ClientSampleId :
SAMPLE-1

Tgt Ion: 82 Resp: 76844
Ion Ratio Lower Upper
82 100
128 37.9 34.3 51.5
54 54.7 43.8 65.6

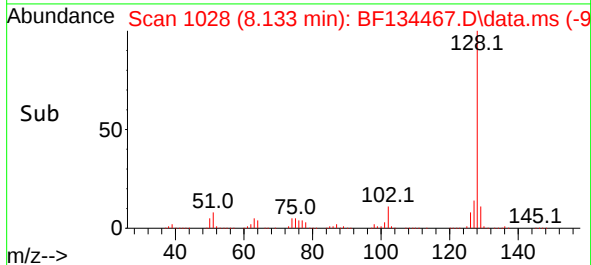
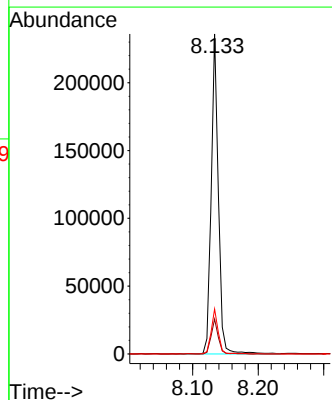
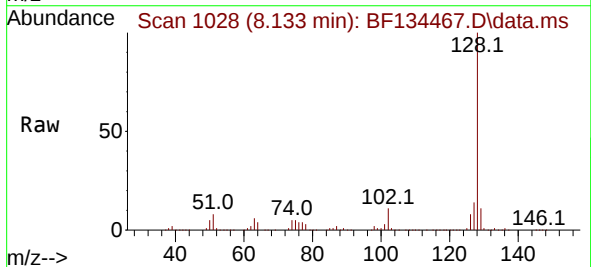
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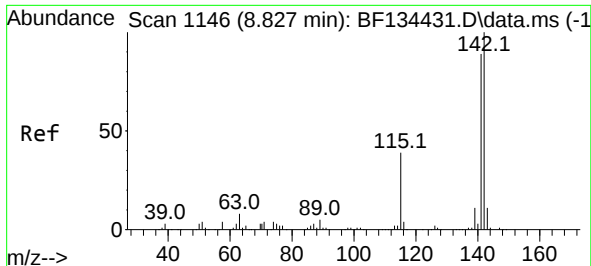
Reviewed By :Yogesh Patel 07/26/2023
Supervised By :mohammad ahmed 07/26/2023



#31
Naphthalene
Concen: 15.632 ng
RT: 8.133 min Scan# 1028
Delta R.T. -0.006 min
Lab File: BF134467.D
Acq: 25 Jul 2023 17:33

Tgt Ion:128 Resp: 179085
Ion Ratio Lower Upper
128 100
129 10.9 8.4 12.6
127 14.0 10.7 16.1





#37

2-Methylnaphthalene

Concen: 26.976 ng

RT: 8.828 min Scan# 1146

Delta R.T. 0.001 min

Lab File: BF134467.D

Acq: 25 Jul 2023 17:33

Instrument :

BNA_F

ClientSampleId :

SAMPLE-1

Tgt Ion:142 Resp: 21473

Ion Ratio Lower Upper

142 100

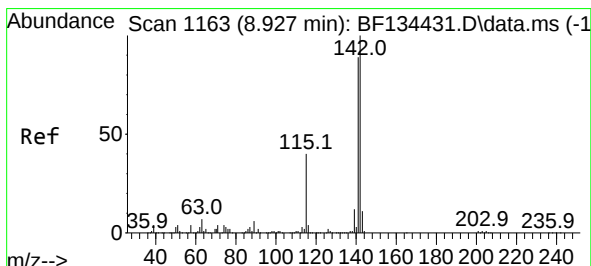
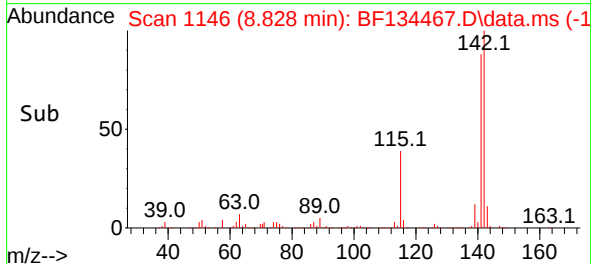
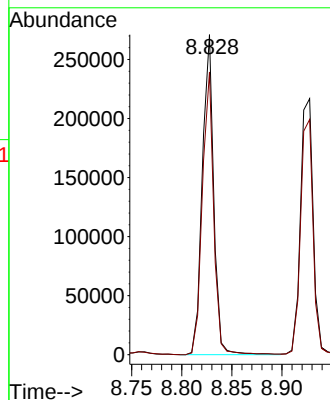
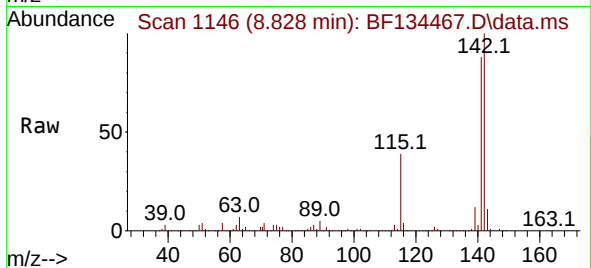
141 88.3 70.8 106.2

Manual Integrations

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Reviewed By :Yogesh Patel 07/26/2023

Supervised By :mohammad ahmed 07/26/2023



#38

1-Methylnaphthalene

Concen: 25.906 ng

RT: 8.928 min Scan# 1163

Delta R.T. 0.001 min

Lab File: BF134467.D

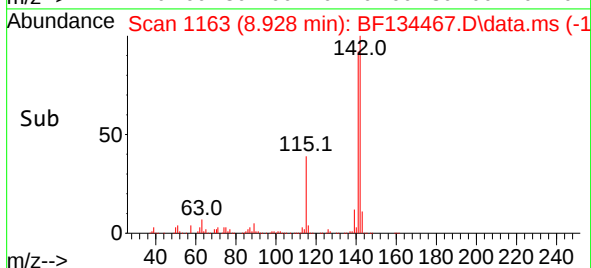
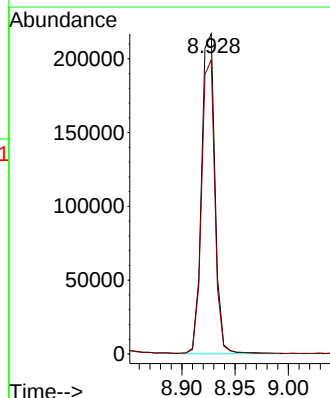
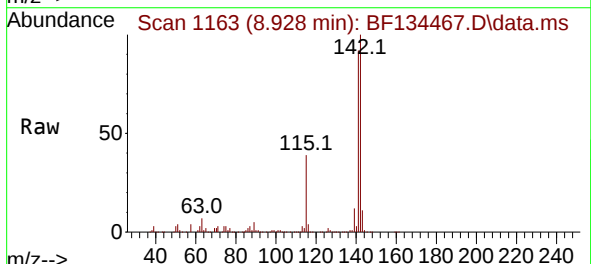
Acq: 25 Jul 2023 17:33

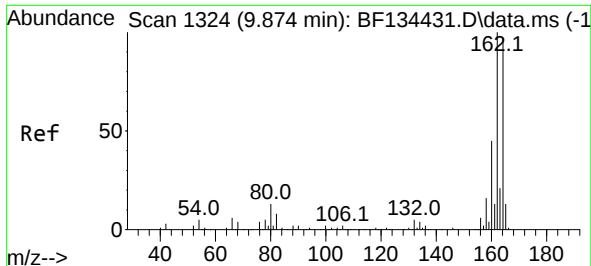
Tgt Ion:142 Resp: 191304

Ion Ratio Lower Upper

142 100

141 91.9 71.4 107.2





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.869 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF134467.D

Acq: 25 Jul 2023 17:33

Instrument :

BNA_F

ClientSampleId :

SAMPLE-1

Tgt Ion:164 Resp: 96880

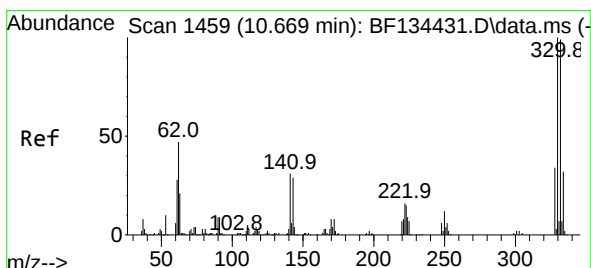
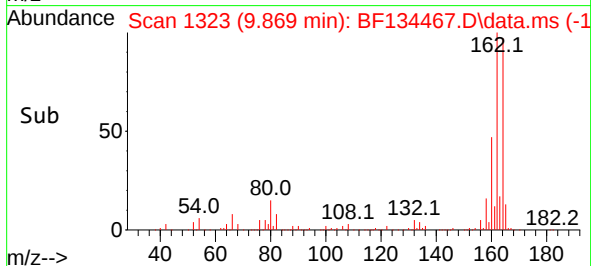
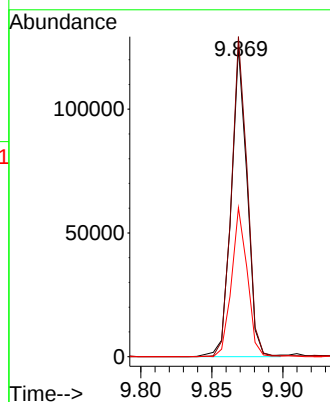
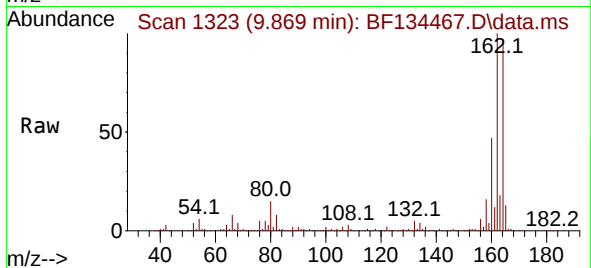
Ion	Ratio	Lower	Upper
164	100		
162	103.2	82.6	123.8
160	48.0	37.2	55.8

Manual Integrations

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Reviewed By :Yogesh Patel 07/26/2023

Supervised By :mohammad ahmed 07/26/2023



#42

2,4,6-Tribromophenol

Concen: 20.247 ng

RT: 10.663 min Scan# 1458

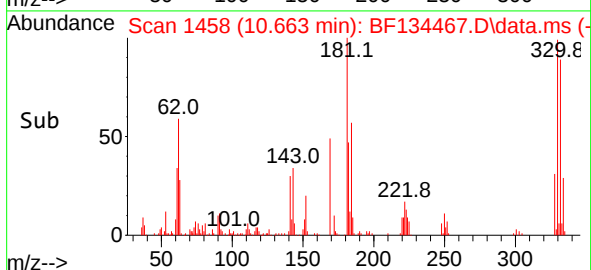
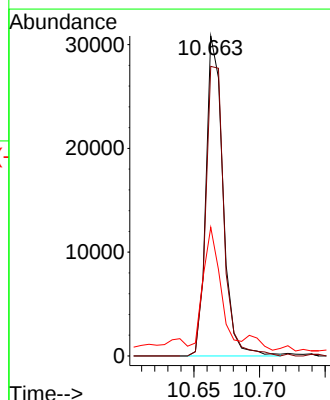
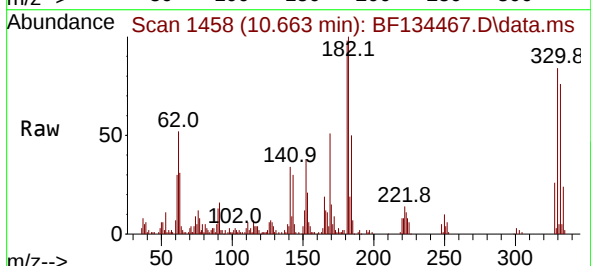
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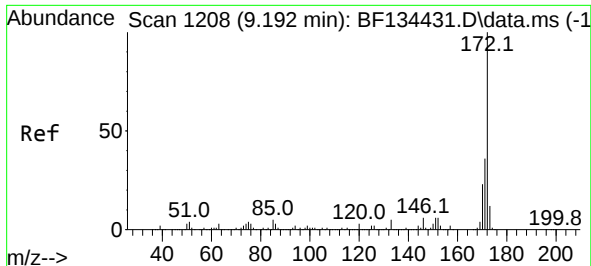
Lab File: BF134467.D

Acq: 25 Jul 2023 17:33

Tgt Ion:330 Resp: 27870

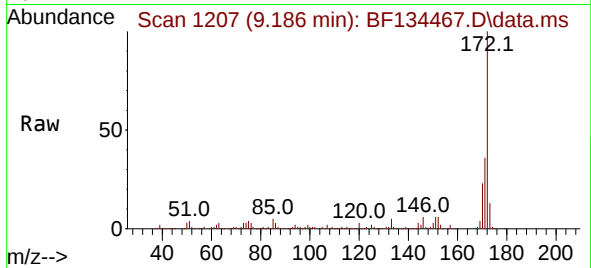
Ion	Ratio	Lower	Upper
330	100		
332	96.3	78.8	118.2
141	36.7	25.4	38.2





#45
2-Fluorobiphenyl
Concen: 20.232 ng
RT: 9.186 min Scan# 1207
Delta R.T. -0.006 min
Lab File: BF134467.D
Acq: 25 Jul 2023 17:33

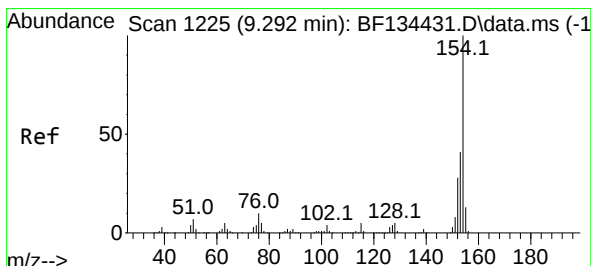
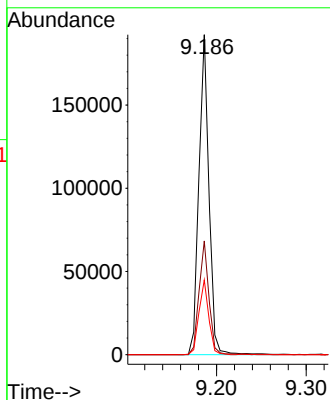
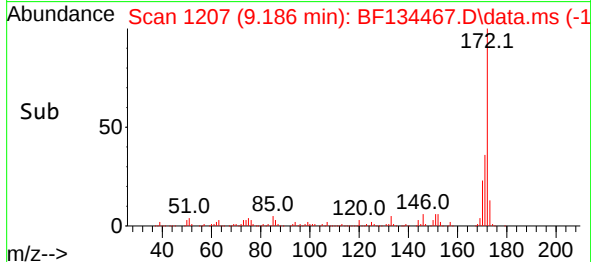
Instrument :
BNA_F
ClientSampleId :
SAMPLE-1



Tgt Ion:172 Resp: 14930
Ion Ratio Lower Upper
172 100
171 35.5 28.8 43.2
170 23.4 18.7 28.1

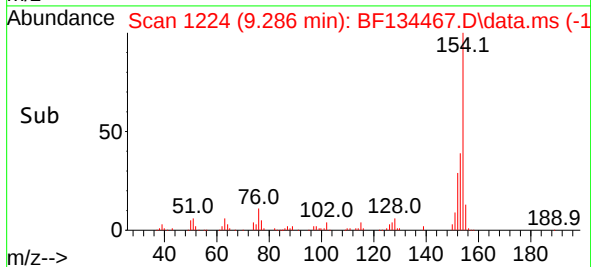
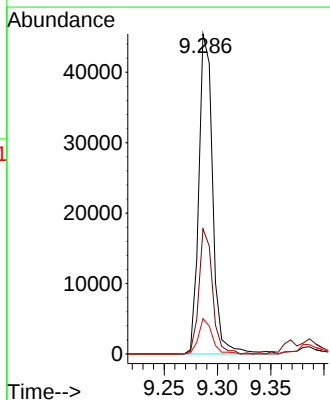
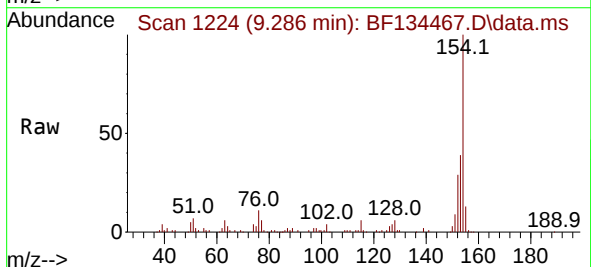
Manual Integrations
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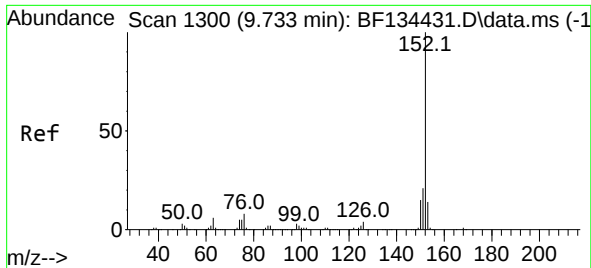
Reviewed By :Yogesh Patel 07/26/2023
Supervised By :mohammad ahmed 07/26/2023



#46
1,1'-Biphenyl
Concen: 5.179 ng
RT: 9.286 min Scan# 1224
Delta R.T. -0.006 min
Lab File: BF134467.D
Acq: 25 Jul 2023 17:33

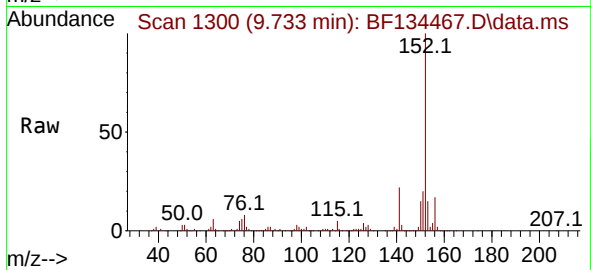
Tgt Ion:154 Resp: 41354
Ion Ratio Lower Upper
154 100
153 39.1 20.8 60.8
76 11.1 0.0 30.2





#49
Acenaphthylene
Concen: 14.520 ng
RT: 9.733 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF134467.D
Acq: 25 Jul 2023 17:33

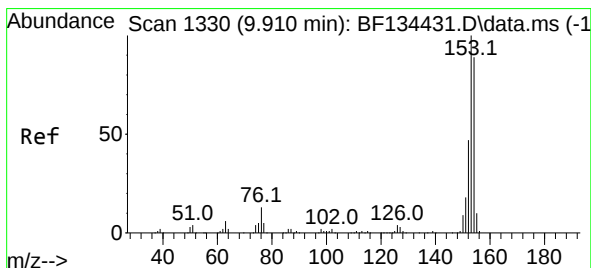
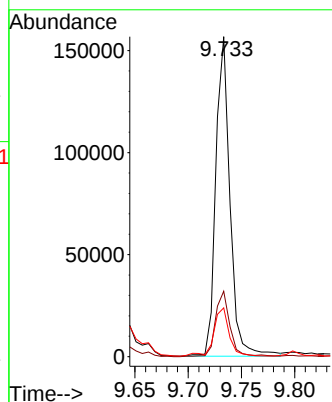
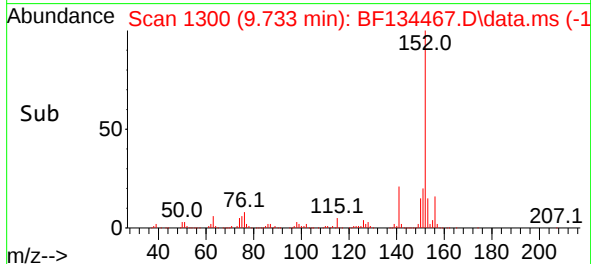
Instrument :
BNA_F
ClientSampleId :
SAMPLE-1



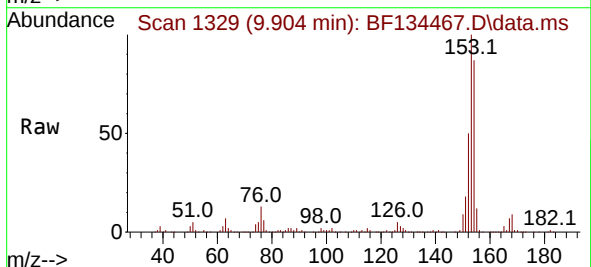
Tgt Ion:152 Resp: 144390
Ion Ratio Lower Upper
152 100
151 20.4 16.4 24.6
153 15.3 10.9 16.3

Manual Integrations
APPROVED

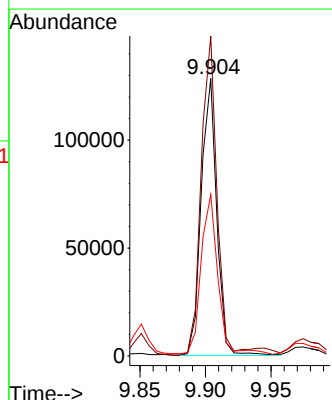
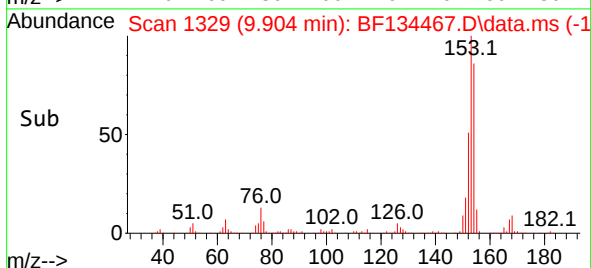
Reviewed By :Yogesh Patel 07/26/2023
Supervised By :mohammad ahmed 07/26/2023

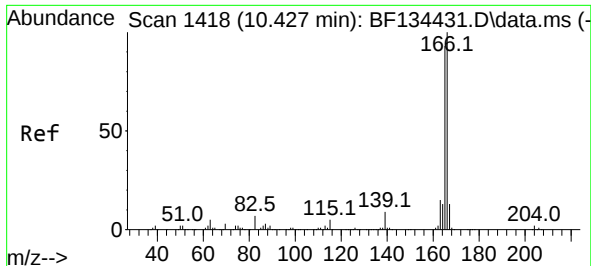


#52
Acenaphthene
Concen: 18.051 ng
RT: 9.904 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF134467.D
Acq: 25 Jul 2023 17:33



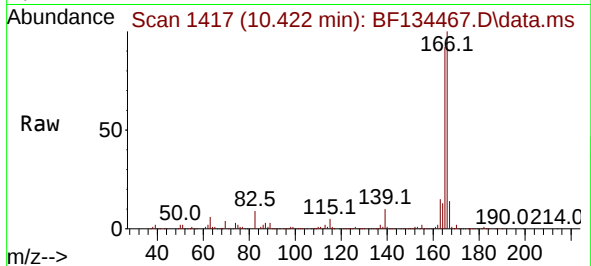
Tgt Ion:154 Resp: 106044
Ion Ratio Lower Upper
154 100
153 115.4 90.0 135.0
152 58.2 42.4 63.6





#58
Fluorene
Concen: 49.509 ng
RT: 10.422 min Scan# 1418
Delta R.T. -0.005 min
Lab File: BF134467.D
Acq: 25 Jul 2023 17:33

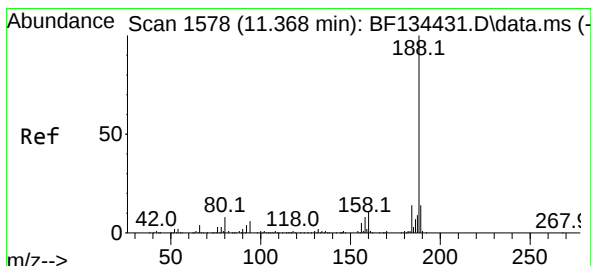
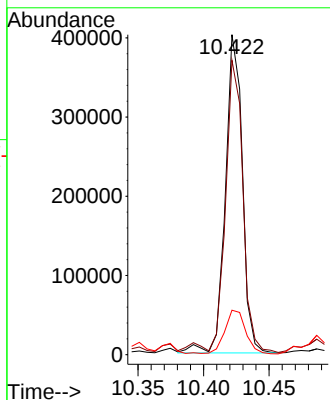
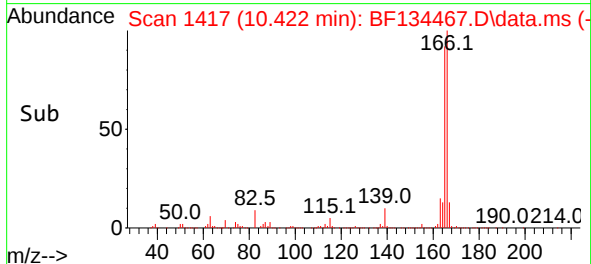
Instrument :
BNA_F
ClientSampleId :
SAMPLE-1



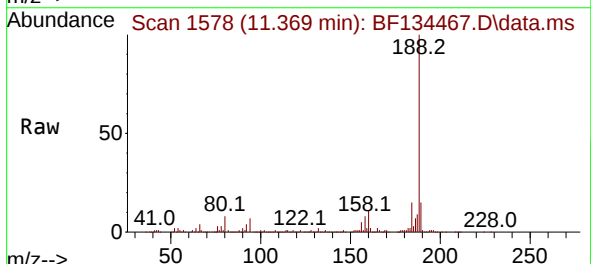
Tgt Ion:166 Resp: 361133
Ion Ratio Lower Upper
166 100
165 92.0 74.5 111.7
167 13.9 10.6 16.0

Manual Integrations
APPROVED

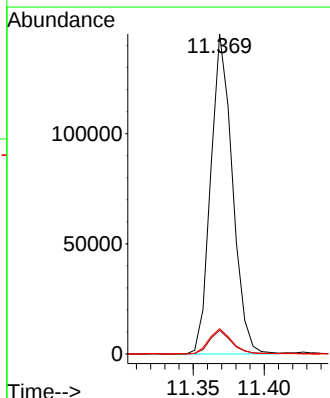
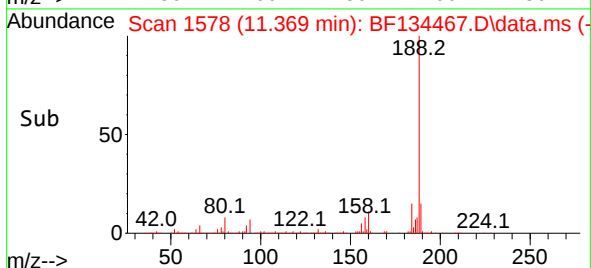
Reviewed By :Yogesh Patel 07/26/2023
Supervised By :mohammad ahmed 07/26/2023

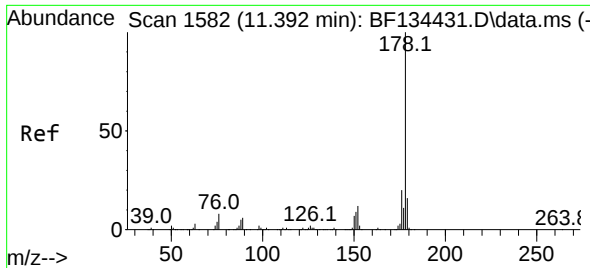


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BF134467.D
Acq: 25 Jul 2023 17:33



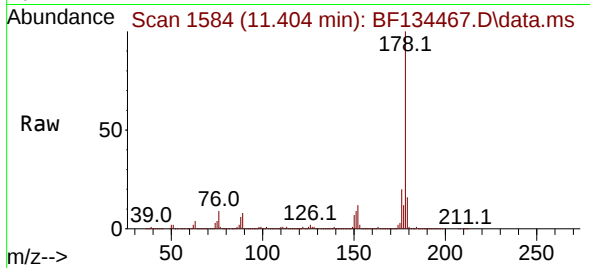
Tgt Ion:188 Resp: 154521
Ion Ratio Lower Upper
188 100
94 7.4 5.1 7.7
80 7.9 6.6 9.8





#71
Phenanthrene
Concen: 296.312 ng
RT: 11.404 min Scan# 1584
Delta R.T. 0.012 min
Lab File: BF134467.D
Acq: 25 Jul 2023 17:33

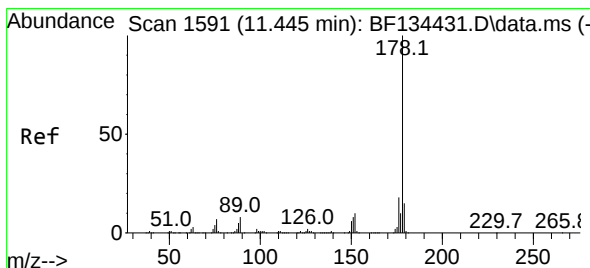
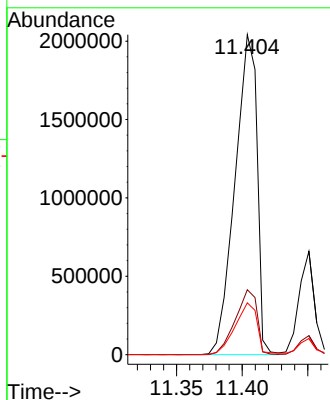
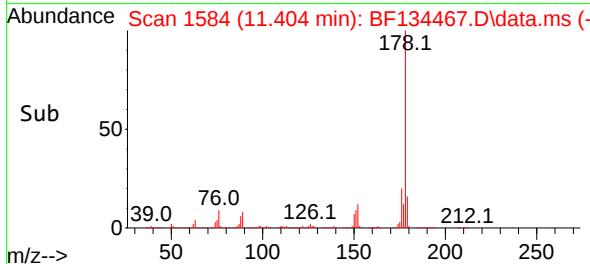
Instrument :
BNA_F
ClientSampleId :
SAMPLE-1



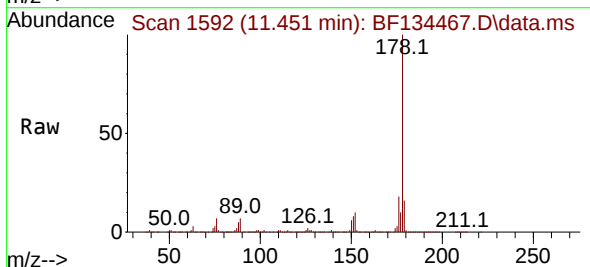
Tgt Ion:178 Resp: 239226
Ion Ratio Lower Upper
178 100
176 20.3 15.8 23.6
179 16.2 12.7 19.1

Manual Integrations
APPROVED

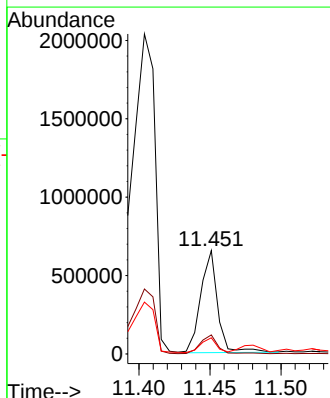
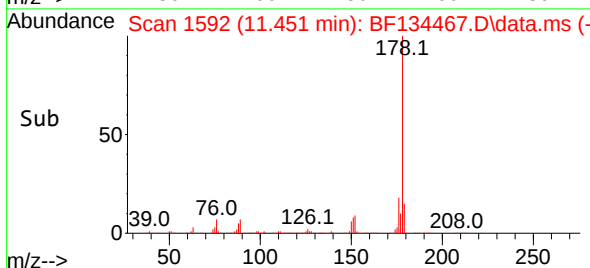
Reviewed By :Yogesh Patel 07/26/2023
Supervised By :mohammad ahmed 07/26/2023

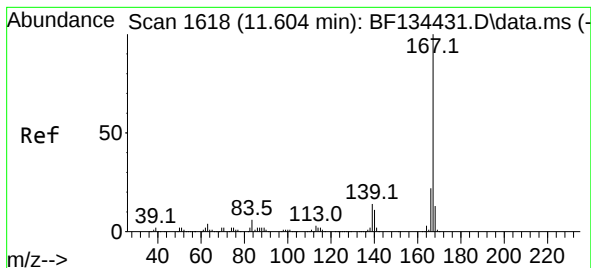


#72
Anthracene
Concen: 65.254 ng
RT: 11.451 min Scan# 1592
Delta R.T. 0.006 min
Lab File: BF134467.D
Acq: 25 Jul 2023 17:33



Tgt Ion:178 Resp: 543747
Ion Ratio Lower Upper
178 100
176 18.4 14.6 21.8
179 15.6 12.3 18.5





#73

Carbazole

Concen: 3.428 ng

RT: 11.604 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF134467.D

Acq: 25 Jul 2023 17:33

Instrument :

BNA_F

ClientSampleId :

SAMPLE-1

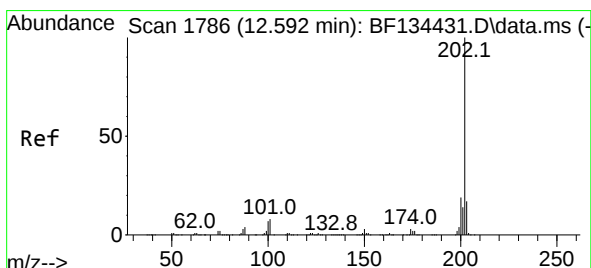
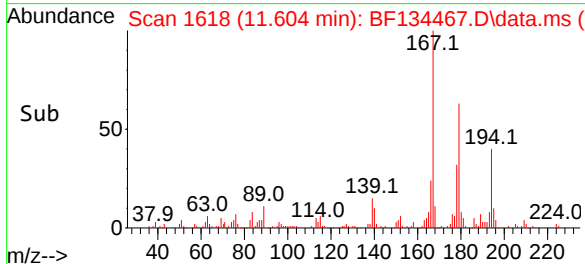
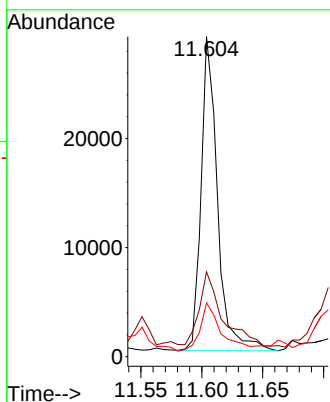
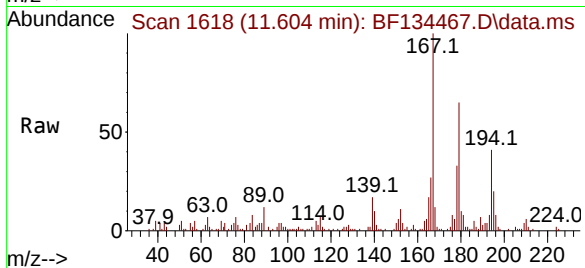
Tgt Ion:	167	Resp:	26900
Ion Ratio	Lower	Upper	
167	100		
166	26.5	17.5	26.3
139	16.8	11.0	16.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/26/2023

Supervised By :mohammad ahmed 07/26/2023



#75

Fluoranthene

Concen: 306.998 ng

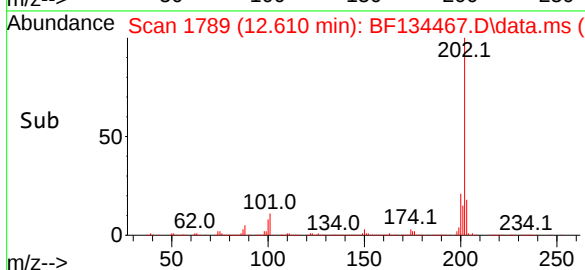
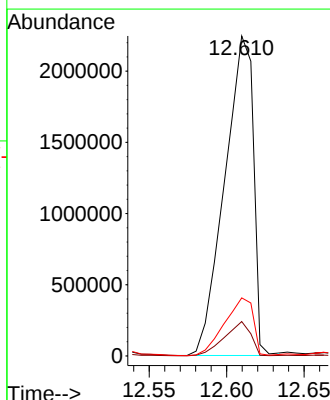
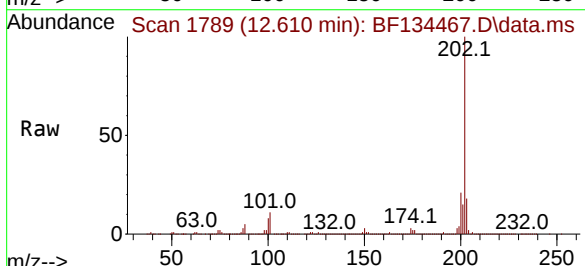
RT: 12.610 min Scan# 1789

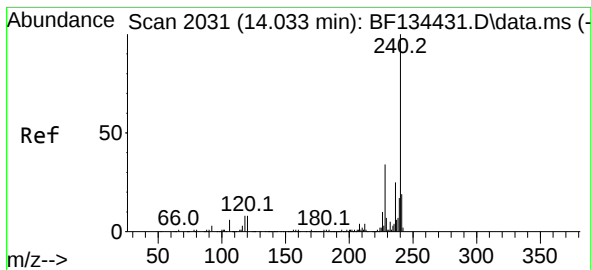
Delta R.T. 0.018 min

Lab File: BF134467.D

Acq: 25 Jul 2023 17:33

Tgt Ion:	202	Resp:	2888601
Ion Ratio	Lower	Upper	
202	100		
101	10.7	0.0	28.5
203	18.1	0.0	37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.045 min Scan# 2031

Delta R.T. 0.012 min

Lab File: BF134467.D

Acq: 25 Jul 2023 17:33

Instrument :

BNA_F

ClientSampleId :

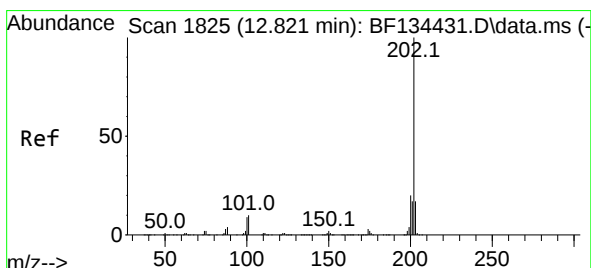
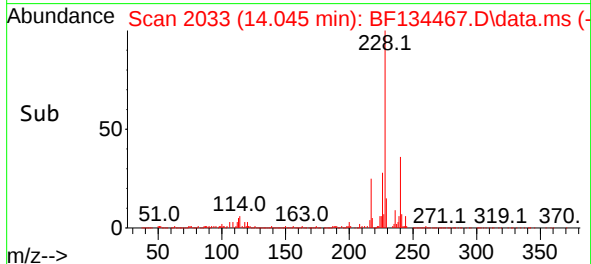
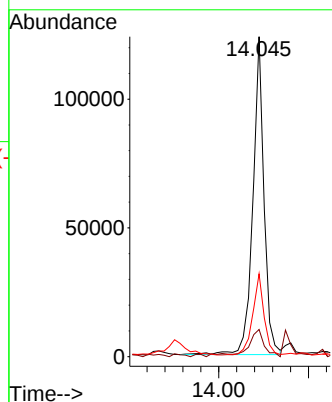
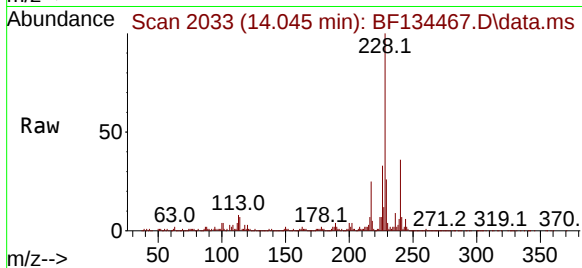
SAMPLE-1

Tgt Ion:240 Resp: 106235
 Ion Ratio Lower Upper
 240 100
 120 8.5 6.6 10.0
 236 25.9 20.2 30.2

Manual Integrations

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Reviewed By :Yogesh Patel 07/26/2023
 Supervised By :mohammad ahmed 07/26/2023



#78

Pyrene

Concen: 448.709 ng

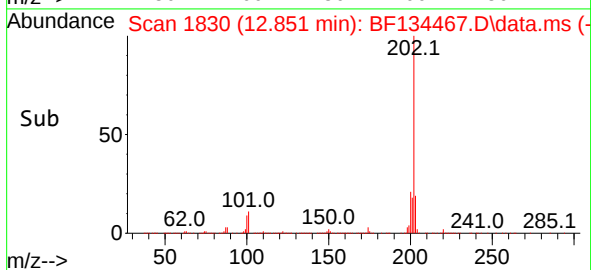
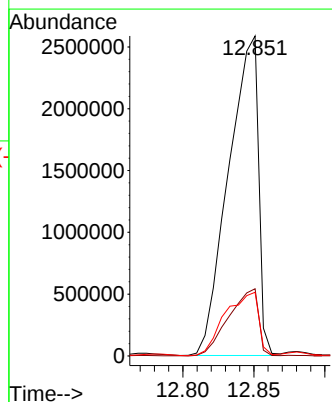
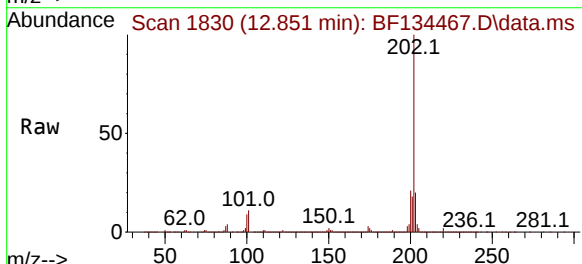
RT: 12.851 min Scan# 1830

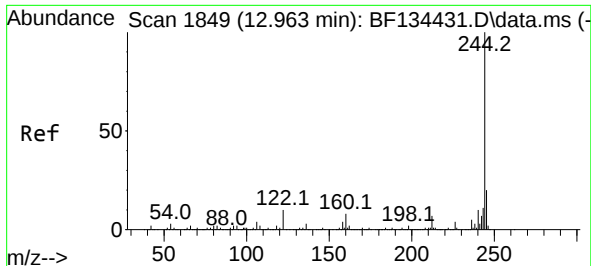
Delta R.T. 0.030 min

Lab File: BF134467.D

Acq: 25 Jul 2023 17:33

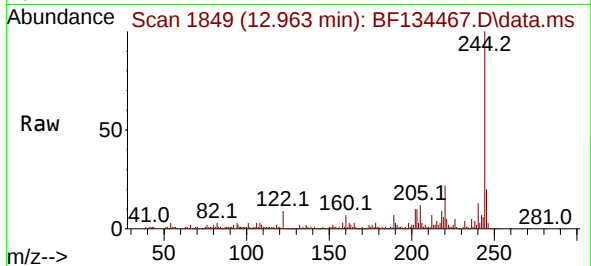
Tgt Ion:202 Resp: 3790245
 Ion Ratio Lower Upper
 202 100
 200 21.0 15.8 23.8
 203 19.9 13.5 20.3





#79
Terphenyl-d14
Concen: 21.552 ng
RT: 12.963 min Scan# 1849
Delta R.T. 0.000 min
Lab File: BF134467.D
Acq: 25 Jul 2023 17:33

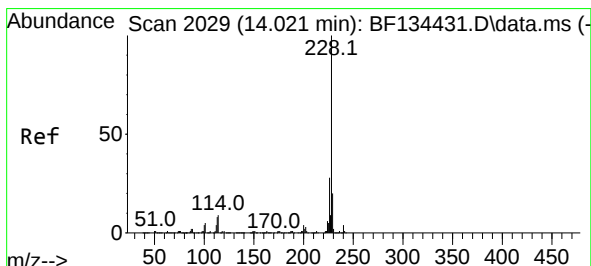
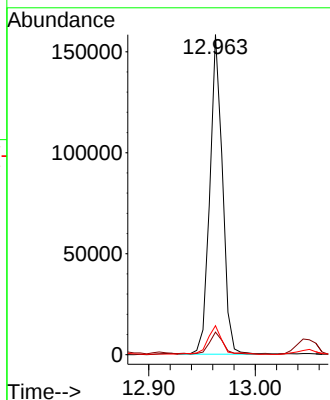
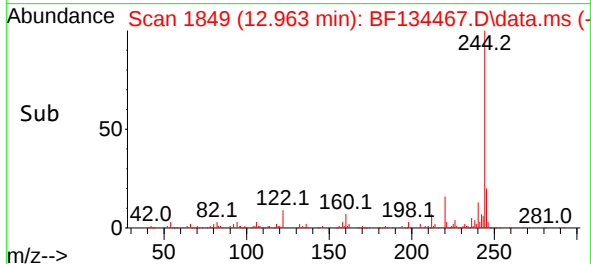
Instrument :
BNA_F
ClientSampleId :
SAMPLE-1



Tgt Ion:244 Resp: 131160
Ion Ratio Lower Upper
244 100
212 7.1 5.6 8.4
122 9.1 8.0 12.0

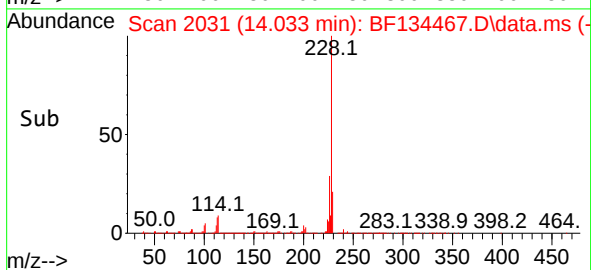
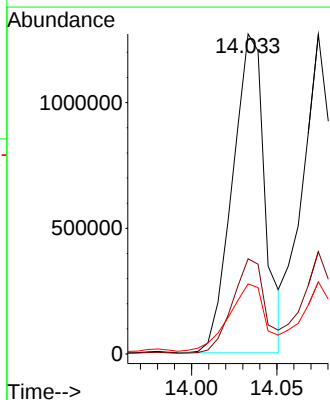
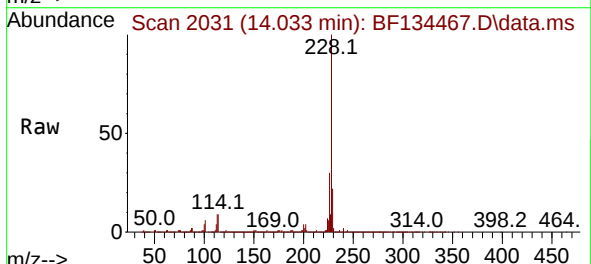
Manual Integrations
APPROVED

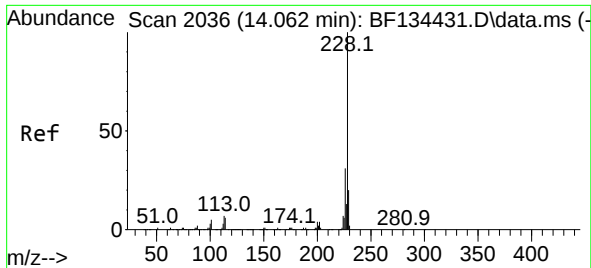
Reviewed By :Yogesh Patel 07/26/2023
Supervised By :mohammad ahmed 07/26/2023



#81
Benzo(a)anthracene
Concen: 226.151 ng
RT: 14.033 min Scan# 2031
Delta R.T. 0.012 min
Lab File: BF134467.D
Acq: 25 Jul 2023 17:33

Tgt Ion:228 Resp: 1676193
Ion Ratio Lower Upper
228 100
226 29.8 22.3 33.5
229 21.9 15.8 23.6





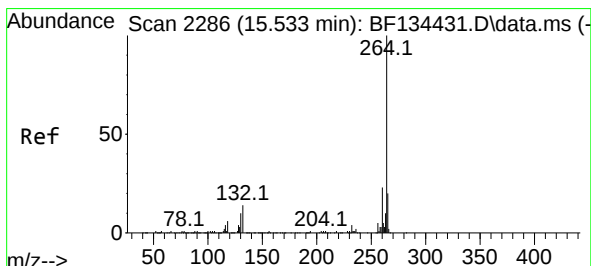
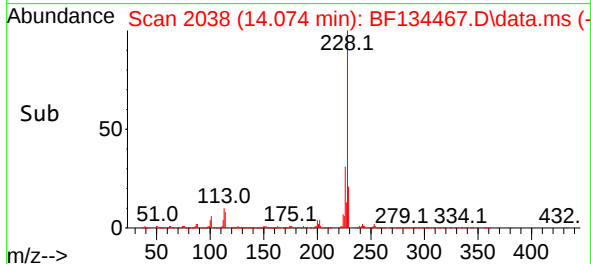
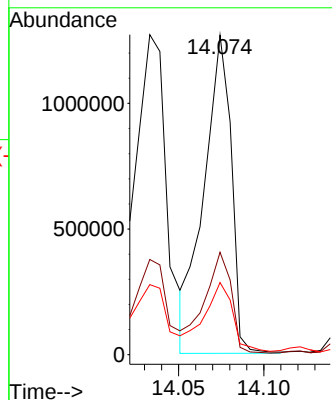
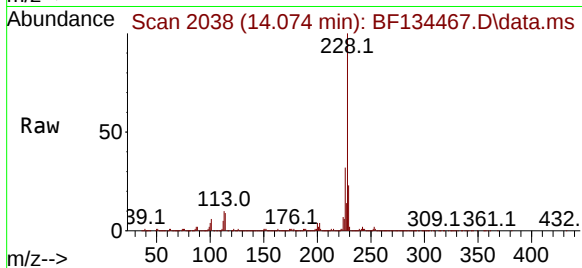
#83
Chrysene
Concen: 199.546 ng
RT: 14.074 min Scan# 2036
Delta R.T. 0.012 min
Lab File: BF134467.D
Acq: 25 Jul 2023 17:33

Instrument :
BNA_F
ClientSampleId :
SAMPLE-1

Tgt Ion:228 Resp: 1414638
Ion Ratio Lower Upper
228 100
226 32.0 24.5 36.7
229 22.6 15.8 23.8

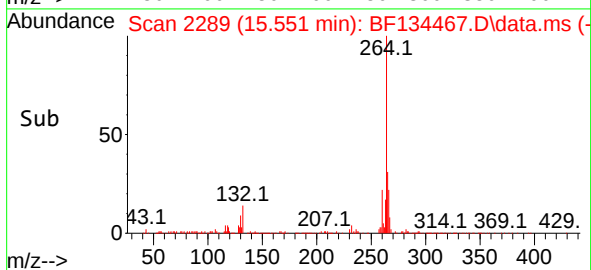
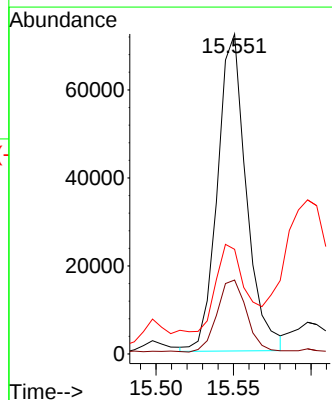
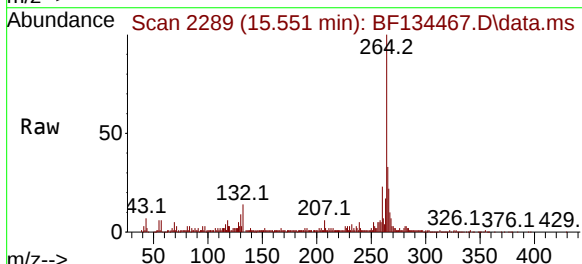
Manual Integrations
APPROVED

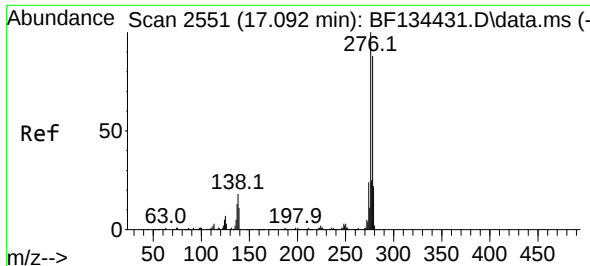
Reviewed By :Yogesh Patel 07/26/2023
Supervised By :mohammad ahmed 07/26/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.551 min Scan# 2289
Delta R.T. 0.018 min
Lab File: BF134467.D
Acq: 25 Jul 2023 17:33

Tgt Ion:264 Resp: 93599
Ion Ratio Lower Upper
264 100
260 23.1 18.4 27.6
265 32.7 15.8 23.8





#87
Indeno(1,2,3-cd)pyrene
Concen: 77.849 ng
RT: 17.109 min Scan# 2115
Delta R.T. 0.018 min
Lab File: BF134467.D
Acq: 25 Jul 2023 17:33

Instrument :

BNA_F

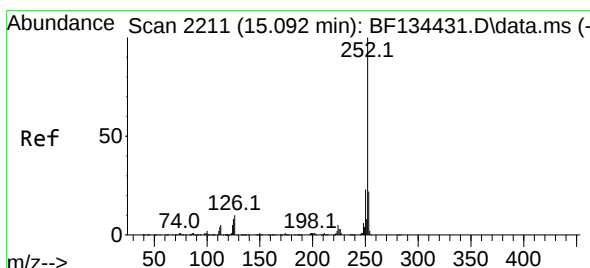
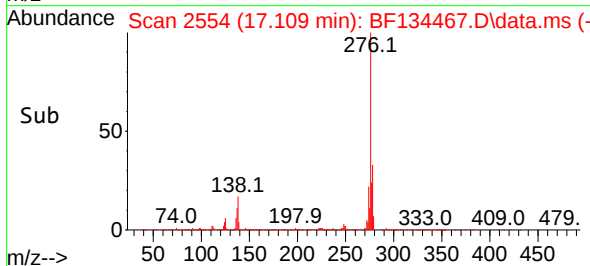
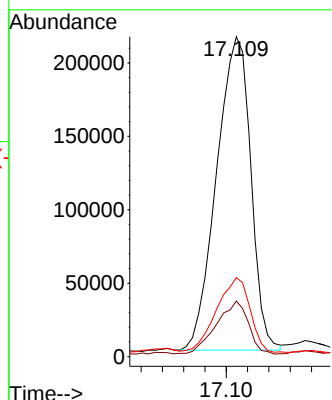
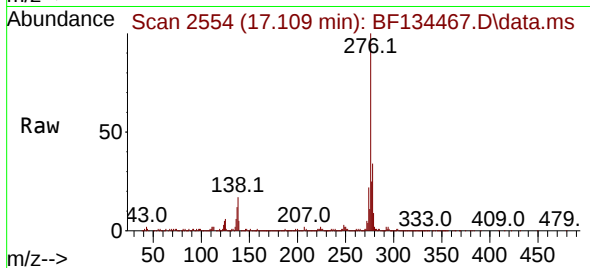
ClientSampleId :

SAMPLE-1

Tgt Ion:276 Resp: 47603
Ion Ratio Lower Upper
276 100
138 16.2 14.2 21.4
277 24.0 19.9 29.9

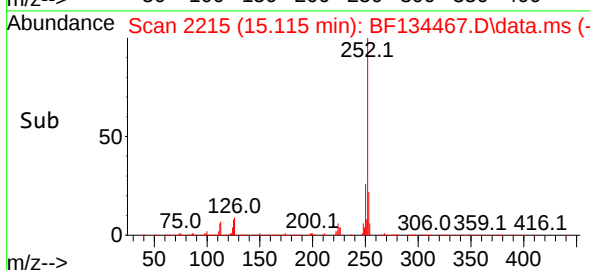
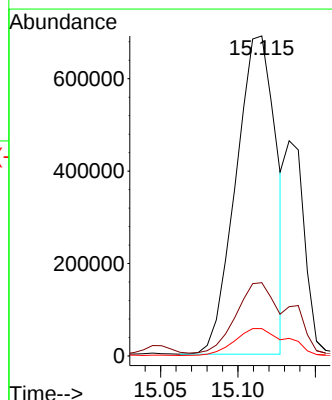
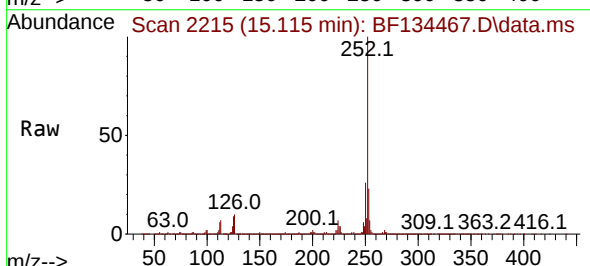
Manual Integrations
APPROVED

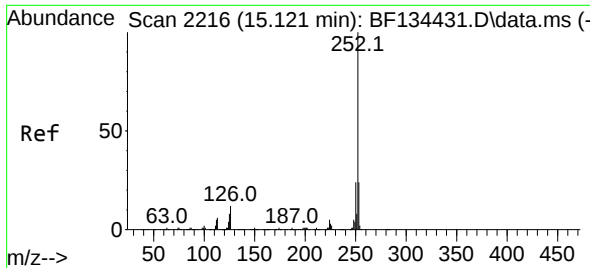
Reviewed By :Yogesh Patel 07/26/2023
Supervised By :mohammad ahmed 07/26/2023



#88
Benzo(b)fluoranthene
Concen: 211.491 ng m
RT: 15.115 min Scan# 2215
Delta R.T. 0.024 min
Lab File: BF134467.D
Acq: 25 Jul 2023 17:33

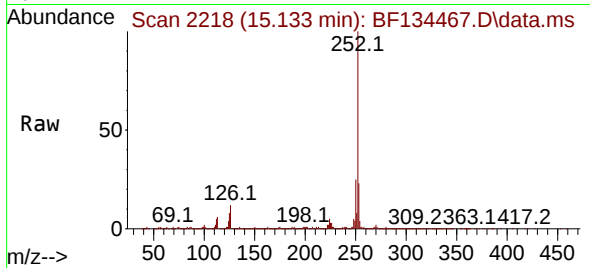
Tgt Ion:252 Resp: 1238406
Ion Ratio Lower Upper
252 100
253 22.9 17.3 25.9
125 8.6 6.0 9.0





#89
Benzo(k)fluoranthene
Concen: 68.701 ng m
RT: 15.133 min Scan# 21
Delta R.T. 0.012 min
Lab File: BF134467.D
Acq: 25 Jul 2023 17:33

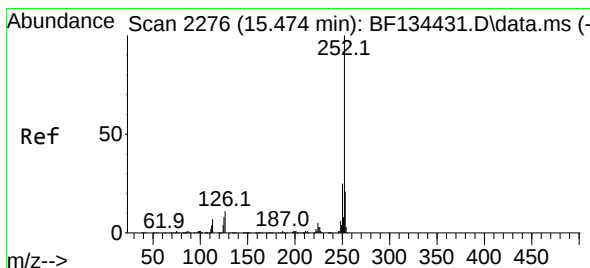
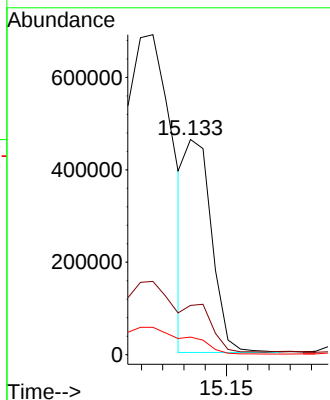
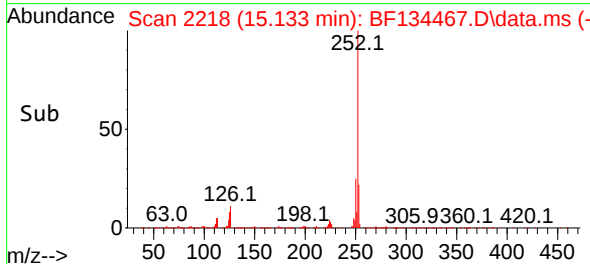
Instrument :
BNA_F
ClientSampleId :
SAMPLE-1



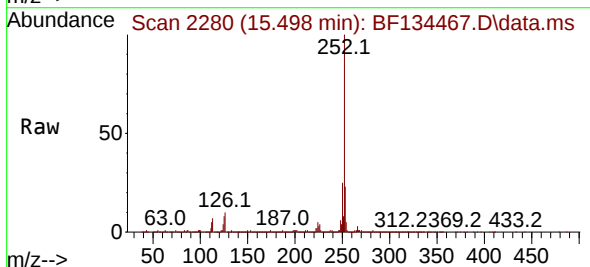
Tgt Ion:252 Resp: 39562
Ion Ratio Lower Upper
252 100
253 22.9 17.9 26.9
125 8.2 6.3 9.5

Manual Integrations
APPROVED

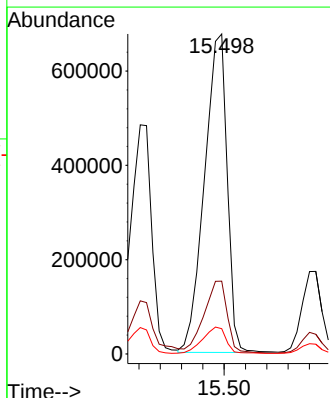
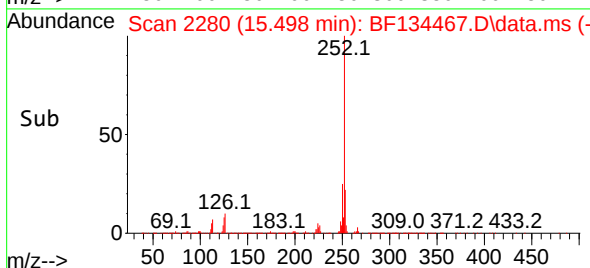
Reviewed By :Yogesh Patel 07/26/2023
Supervised By :mohammad ahmed 07/26/2023

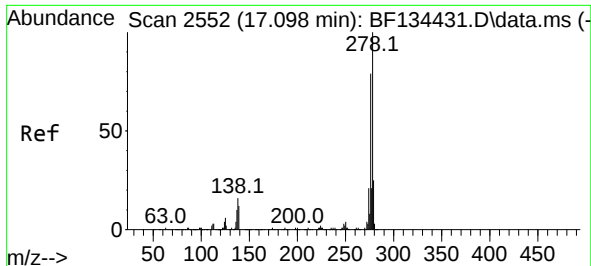


#90
Benzo(a)pyrene
Concen: 184.746 ng
RT: 15.498 min Scan# 2280
Delta R.T. 0.024 min
Lab File: BF134467.D
Acq: 25 Jul 2023 17:33



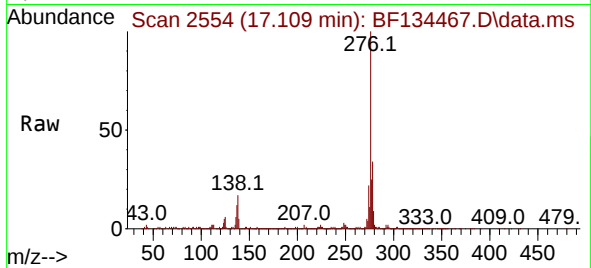
Tgt Ion:252 Resp: 999932
Ion Ratio Lower Upper
252 100
253 22.7 17.0 25.4
125 7.9 6.2 9.4





#91
Dibenzo(a,h)anthracene
Concen: 31.499 ng
RT: 17.109 min Scan# 2554
Delta R.T. 0.012 min
Lab File: BF134467.D
Acq: 25 Jul 2023 17:33

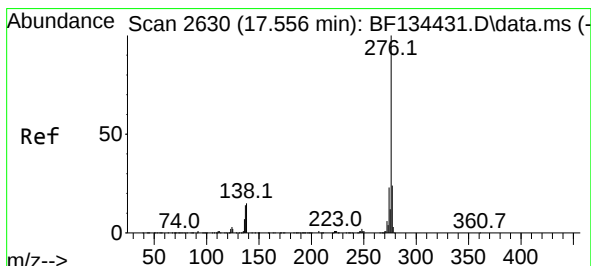
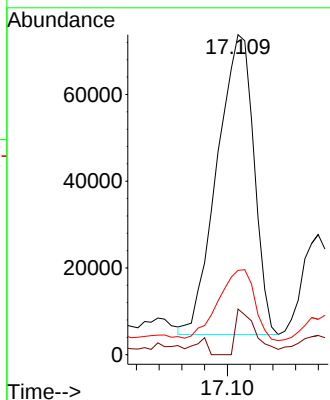
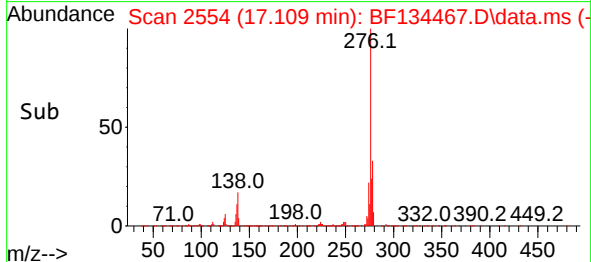
Instrument :
BNA_F
ClientSampleId :
SAMPLE-1



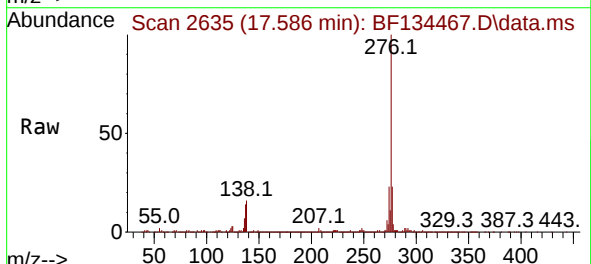
Tgt Ion:278 Resp: 155550
Ion Ratio Lower Upper
278 100
139 14.3 10.0 15.0
279 26.3 19.7 29.5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/26/2023
Supervised By :mohammad ahmed 07/26/2023



#92
Benzo(g,h,i)perylene
Concen: 101.308 ng
RT: 17.586 min Scan# 2635
Delta R.T. 0.030 min
Lab File: BF134467.D
Acq: 25 Jul 2023 17:33



Tgt Ion:276 Resp: 513693
Ion Ratio Lower Upper
276 100
277 23.4 19.0 28.6
138 15.9 12.2 18.2

