

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080224\
 Data File : BF138748.D
 Acq On : 02 Aug 2024 15:38
 Operator : RC/JU
 Sample : P3413-01 2X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EO-02-073124

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/03/2024
 Supervised By :mohammad ahmed 08/03/2024

Quant Time: Aug 02 16:15:34 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 30 17:50:01 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.845	152	51958	20.000	ng	0.00
21) Naphthalene-d8	8.128	136	149689	20.000	ng	0.00
39) Acenaphthene-d10	9.880	164	83993	20.000	ng	0.00
64) Phenanthrene-d10	11.369	188	162369	20.000	ng	0.00
76) Chrysene-d12	14.010	240	114788	20.000	ng	0.00
86) Perylene-d12	15.480	264	94033	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.469	112	149362	44.375	ng	0.00
7) Phenol-d6	6.481	99	175741	38.889	ng	0.00
23) Nitrobenzene-d5	7.404	82	109556	35.783	ng	0.00
42) 2,4,6-Tribromophenol	10.669	330	31950	46.438	ng	0.00
45) 2-Fluorobiphenyl	9.198	172	168010	30.054	ng	0.00
79) Terphenyl-d14	12.951	244	232072	33.849	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.145	128	33150	4.207	ng	98
37) 2-Methylnaphthalene	8.833	142	43213	8.684	ng	99
38) 1-Methylnaphthalene	8.933	142	50649	10.387	ng	100
49) Acenaphthylene	9.739	152	55377	7.981	ng	# 93
52) Acenaphthene	9.910	154	45225	9.696	ng	96
55) Dibenzofuran	10.080	168	46975	7.134	ng	# 90
58) Fluorene	10.427	166	127665	24.348	ng	99
71) Phenanthrene	11.398	178	864708	103.425	ng	99
72) Anthracene	11.445	178	234599	28.483	ng	99
73) Carbazole	11.598	167	86056	12.110	ng	98
75) Fluoranthene	12.586	202	786248	100.734	ng	98
78) Pyrene	12.816	202	853791	78.999	ng	97
81) Benzo(a)anthracene	14.004	228	329698m	41.710	ng	
83) Chrysene	14.039	228	258294	36.219	ng	# 95
87) Indeno(1,2,3-cd)pyrene	16.951	276	90397	13.415	ng	# 93
88) Benzo(b)fluoranthene	15.057	252	223033m	38.262	ng	
89) Benzo(k)fluoranthene	15.068	252	75270m	14.914	ng	
90) Benzo(a)pyrene	15.415	252	174198	35.528	ng	96
91) Dibenzo(a,h)anthracene	16.956	278	25801	4.664	ng	# 85
92) Benzo(g,h,i)perylene	17.398	276	91402	15.923	ng	97

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

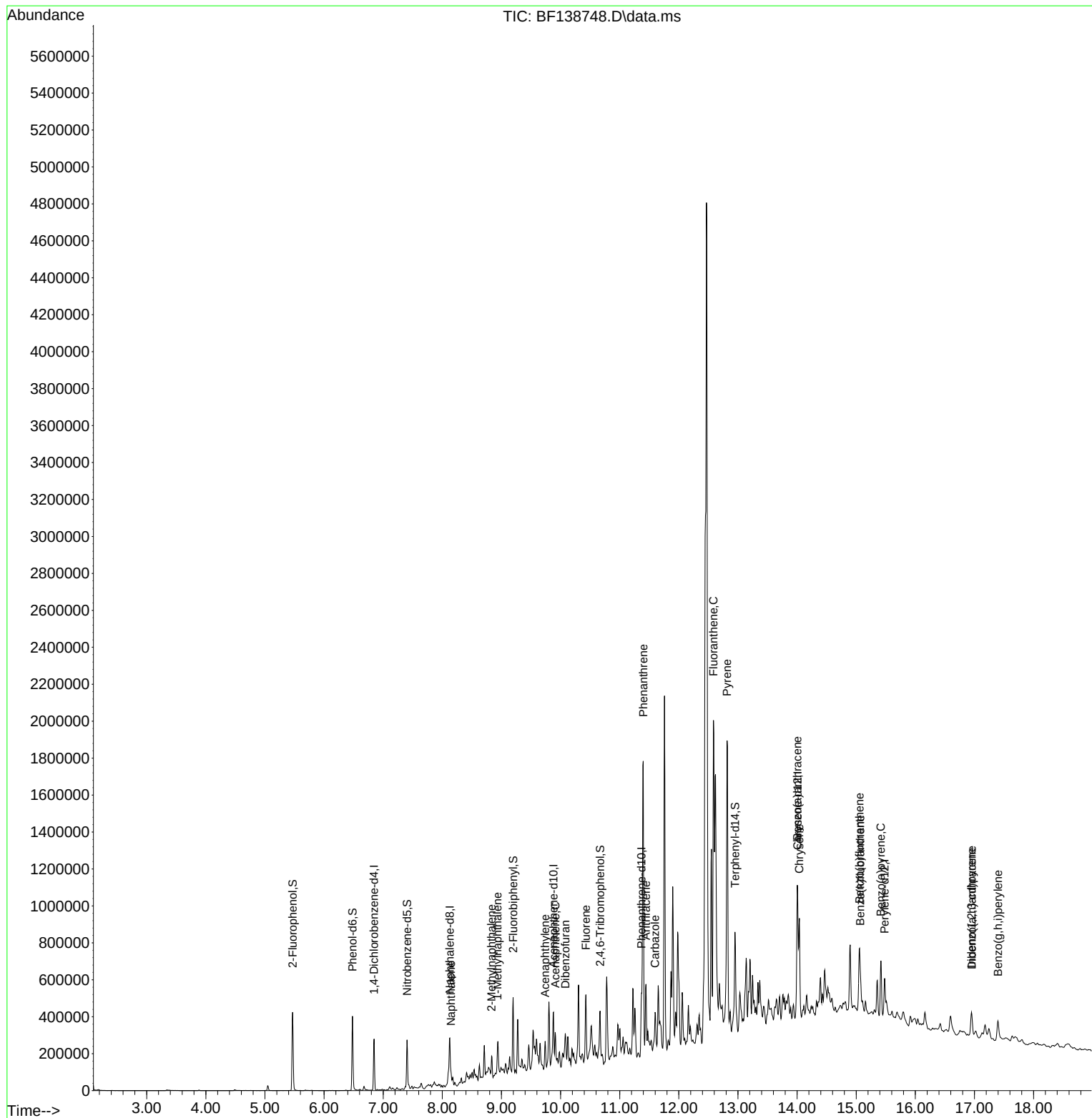
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080224\
Data File : BF138748.D
Acq On : 02 Aug 2024 15:38
Operator : RC/JU
Sample : P3413-01 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

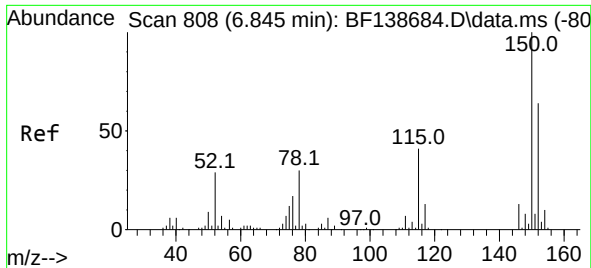
Instrument :
BNA_F
ClientSampleId :
EO-02-073124

Quant Time: Aug 02 16:15:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration

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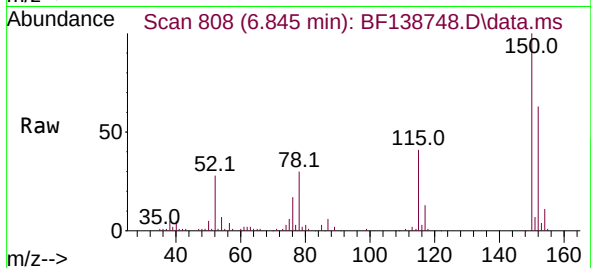
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1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min Scan# 808
Delta R.T. 0.000 min
Lab File: BF138748.D
Acq: 02 Aug 2024 15:38

Instrument :

BNA_F

ClientSampleId :

EO-02-073124

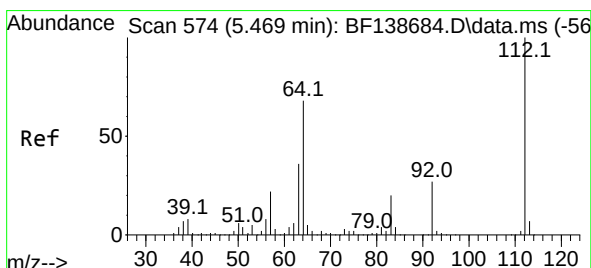
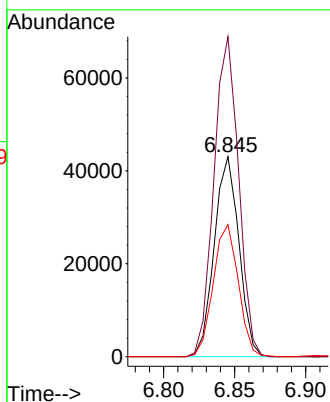
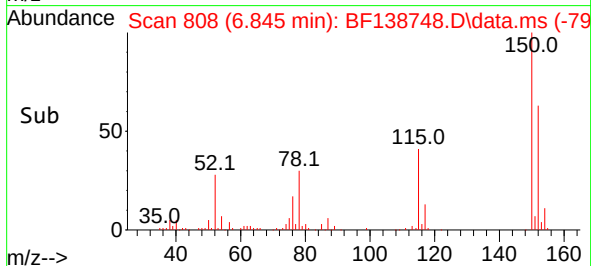


Tgt Ion:152 Resp: 51958
Ion Ratio Lower Upper
152 100
150 160.0 126.0 189.0
115 66.0 51.7 77.5

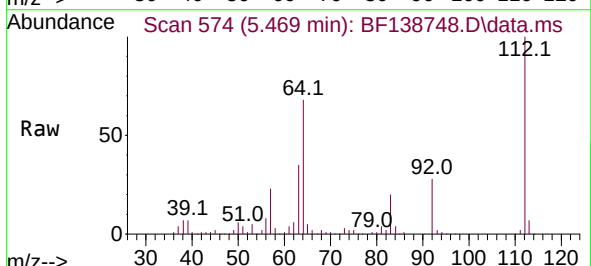
Manual Integrations

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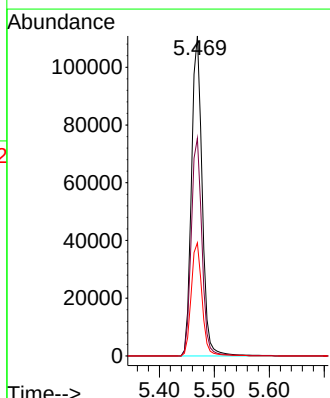
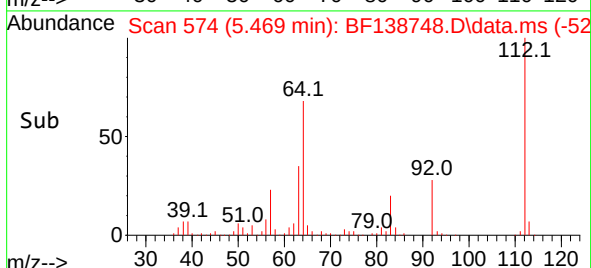
Reviewed By :Yogesh Patel 08/03/2024
Supervised By :mohammad ahmed 08/03/2024

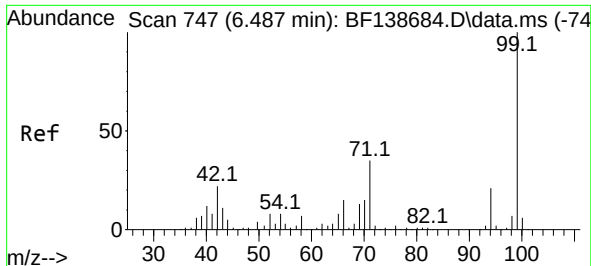


#5
2-Fluorophenol
Concen: 44.375 ng
RT: 5.469 min Scan# 574
Delta R.T. -0.000 min
Lab File: BF138748.D
Acq: 02 Aug 2024 15:38



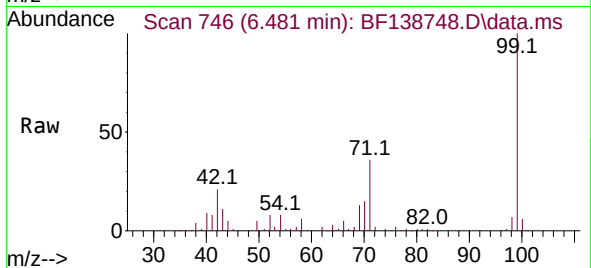
Tgt Ion:112 Resp: 149362
Ion Ratio Lower Upper
112 100
64 68.1 54.2 81.4
63 35.3 28.7 43.1





#7
Phenol-d6
Concen: 38.889 ng
RT: 6.481 min Scan# 74
Delta R.T. -0.006 min
Lab File: BF138748.D
Acq: 02 Aug 2024 15:38

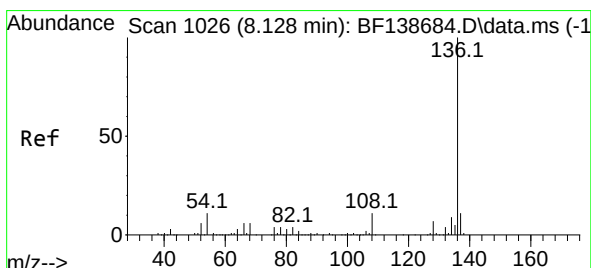
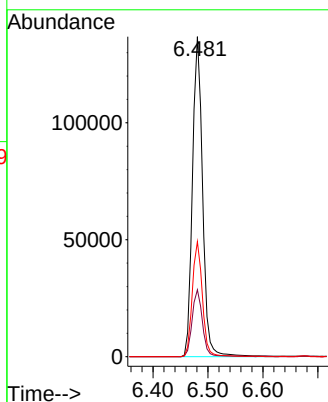
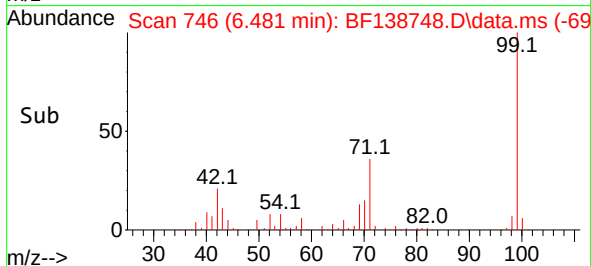
Instrument :
BNA_F
ClientSampleId :
EO-02-073124



Tgt Ion: 99 Resp: 17574
Ion Ratio Lower Upper
99 100
42 20.9 17.4 26.0
71 36.0 28.1 42.1

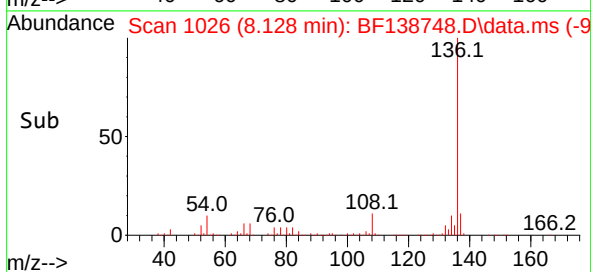
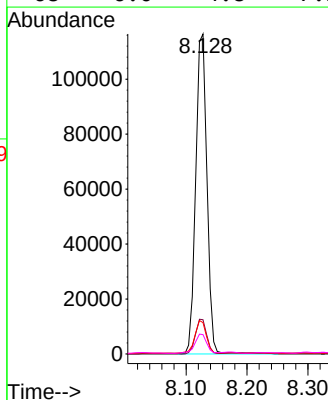
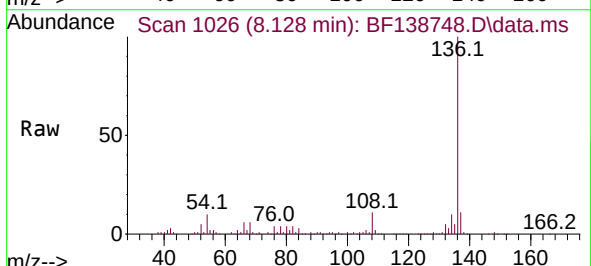
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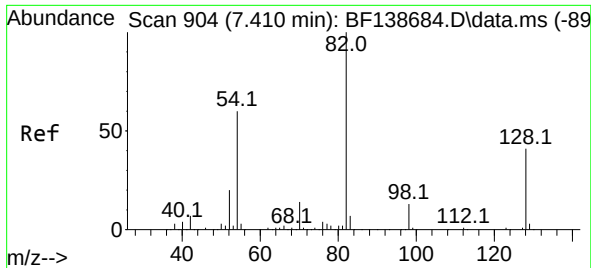
Reviewed By :Yogesh Patel 08/03/2024
Supervised By :mohammad ahmed 08/03/2024



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1026
Delta R.T. -0.000 min
Lab File: BF138748.D
Acq: 02 Aug 2024 15:38

Tgt Ion:136 Resp: 149689
Ion Ratio Lower Upper
136 100
137 10.7 8.9 13.3
54 9.8 8.6 12.8
68 6.0 4.8 7.2





#23
Nitrobenzene-d5
Concen: 35.783 ng
RT: 7.404 min Scan# 904
Delta R.T. -0.006 min
Lab File: BF138748.D
Acq: 02 Aug 2024 15:38

Instrument :

BNA_F

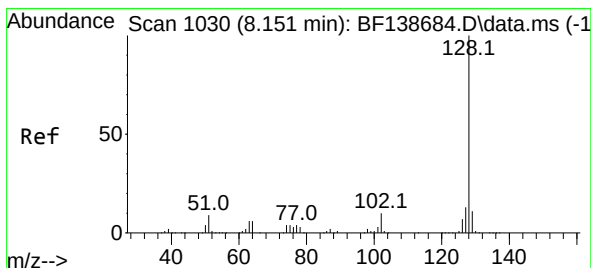
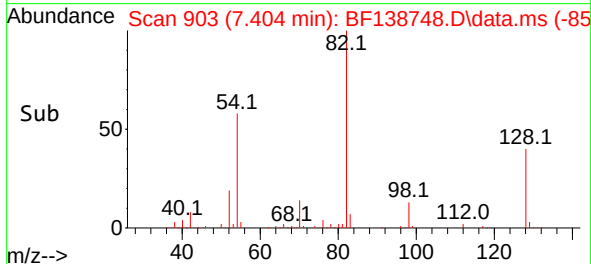
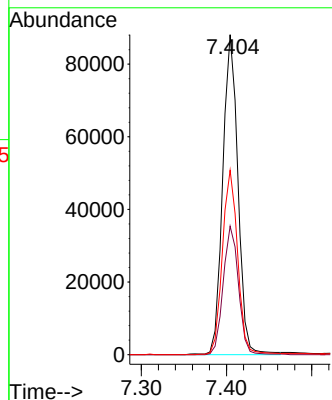
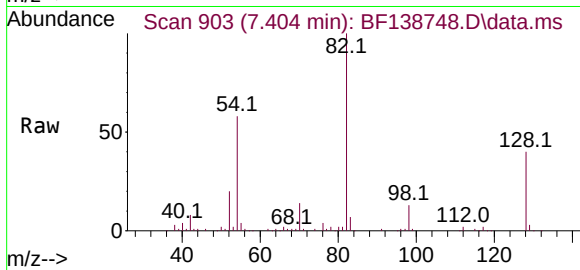
ClientSampleId :

EO-02-073124

Tgt Ion: 82 Resp: 109550
Ion Ratio Lower Upper
82 100
128 40.1 32.8 49.2
54 57.7 48.3 72.5

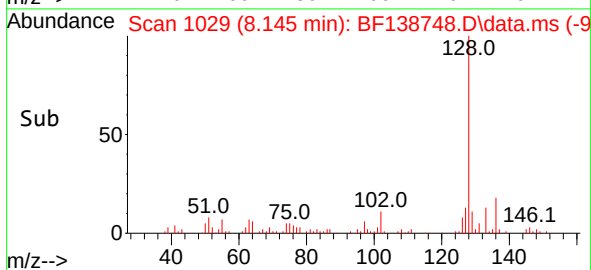
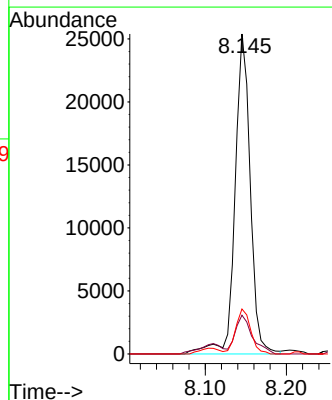
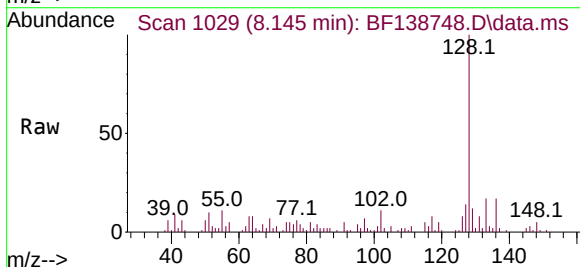
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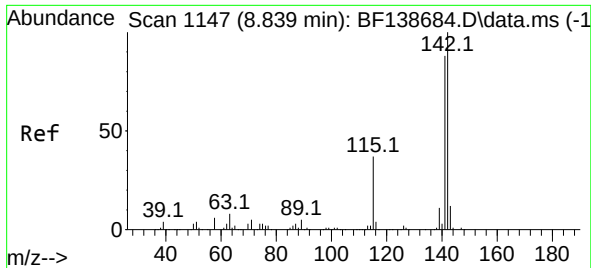
Reviewed By :Yogesh Patel 08/03/2024
Supervised By :mohammad ahmed 08/03/2024



#31
Naphthalene
Concen: 4.207 ng
RT: 8.145 min Scan# 1029
Delta R.T. -0.006 min
Lab File: BF138748.D
Acq: 02 Aug 2024 15:38

Tgt Ion:128 Resp: 33150
Ion Ratio Lower Upper
128 100
129 12.1 8.7 13.1
127 14.0 10.6 16.0





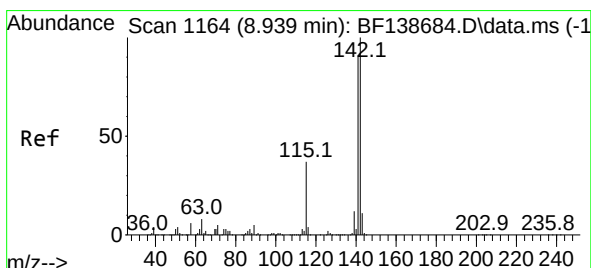
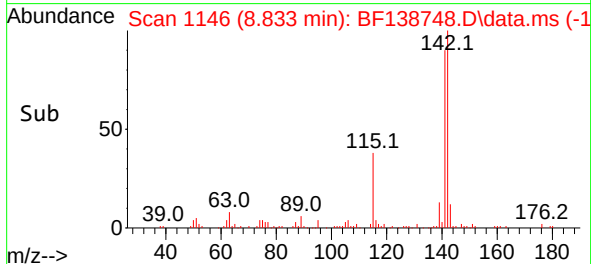
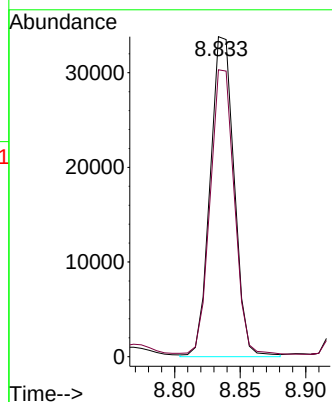
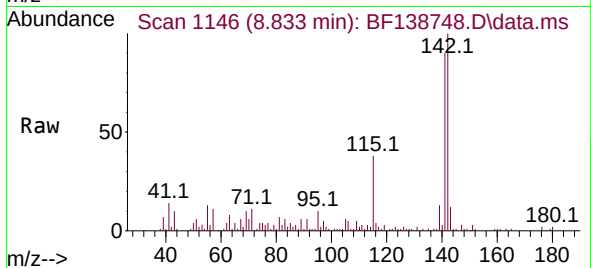
#37
2-Methylnaphthalene
Concen: 8.684 ng
RT: 8.833 min Scan# 1146
Delta R.T. -0.006 min
Lab File: BF138748.D
Acq: 02 Aug 2024 15:38

Instrument :
BNA_F
ClientSampleId :
EO-02-073124

Tgt Ion:142 Resp: 4321
Ion Ratio Lower Upper
142 100
141 89.6 70.8 106.2

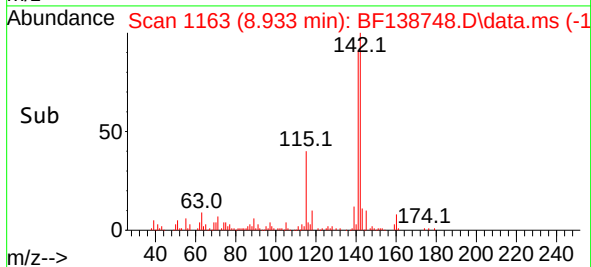
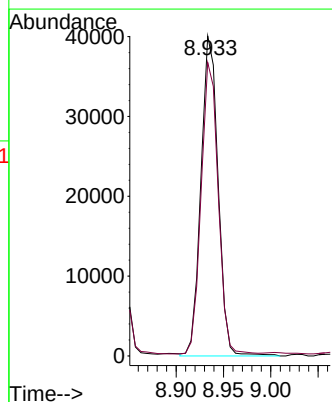
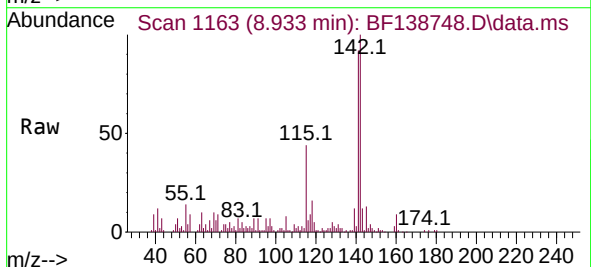
Manual Integrations
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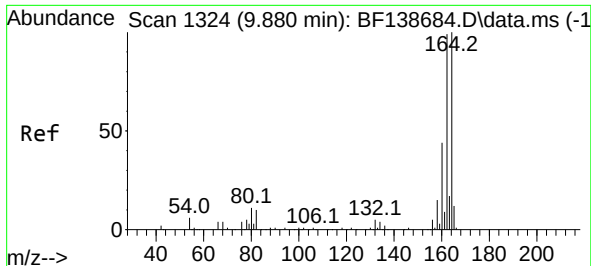
Reviewed By :Yogesh Patel 08/03/2024
Supervised By :mohammad ahmed 08/03/2024



#38
1-Methylnaphthalene
Concen: 10.387 ng
RT: 8.933 min Scan# 1163
Delta R.T. -0.006 min
Lab File: BF138748.D
Acq: 02 Aug 2024 15:38

Tgt Ion:142 Resp: 50649
Ion Ratio Lower Upper
142 100
141 91.7 73.1 109.7





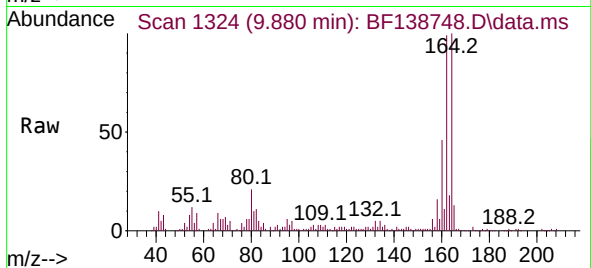
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.880 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF138748.D
Acq: 02 Aug 2024 15:38

Instrument :

BNA_F

ClientSampleId :

EO-02-073124



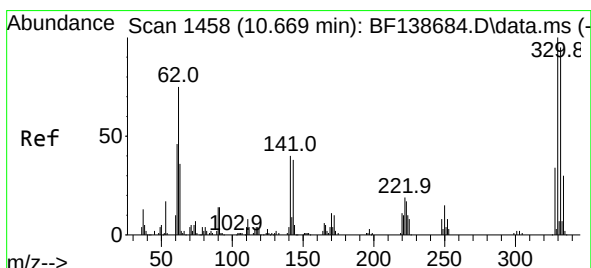
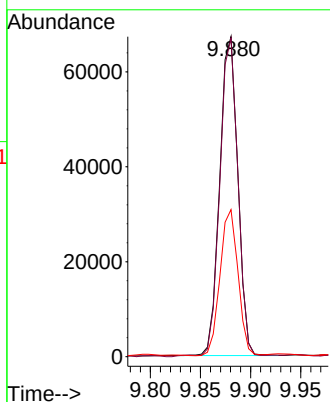
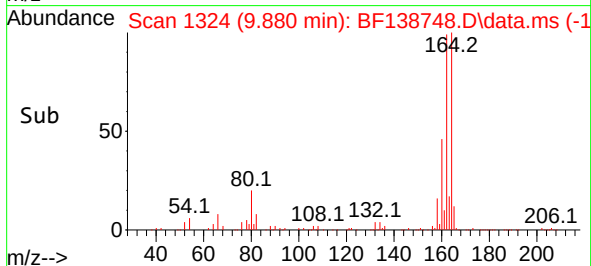
Tgt Ion:164 Resp: 8399
Ion Ratio Lower Upper
164 100
162 99.5 79.4 119.0
160 45.9 35.1 52.7

Manual Integrations

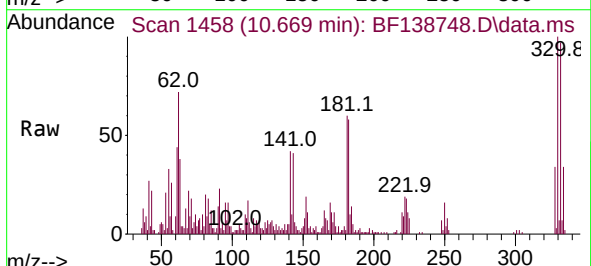
APPROVED

Reviewed By :Yogesh Patel 08/03/2024

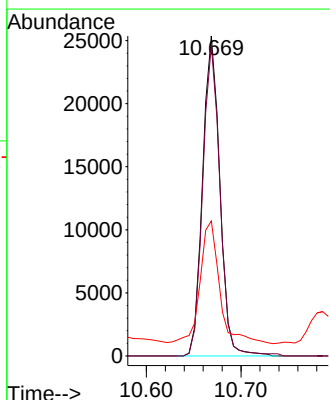
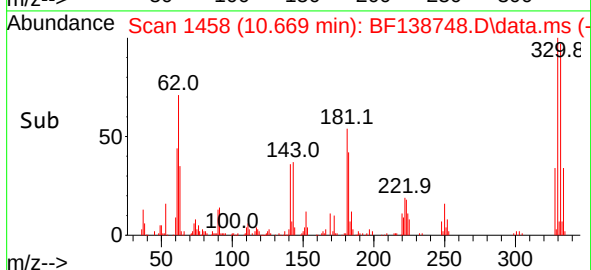
Supervised By :mohammad ahmed 08/03/2024

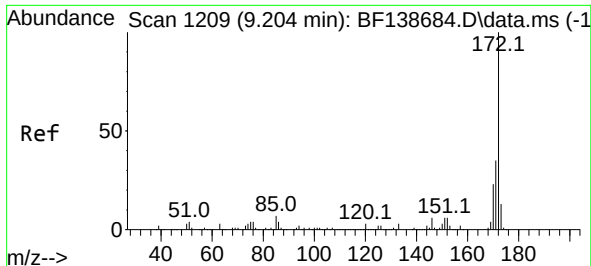


#42
2,4,6-Tribromophenol
Concen: 46.438 ng
RT: 10.669 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BF138748.D
Acq: 02 Aug 2024 15:38



Tgt Ion:330 Resp: 31950
Ion Ratio Lower Upper
330 100
332 97.3 76.4 114.6
141 43.6 31.1 46.7





#45

2-Fluorobiphenyl

Concen: 30.054 ng

RT: 9.198 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF138748.D

Acq: 02 Aug 2024 15:38

Instrument :

BNA_F

ClientSampleId :

EO-02-073124

Tgt Ion:172 Resp: 168010

Ion Ratio Lower Upper

172 100

171 35.8 28.3 42.5

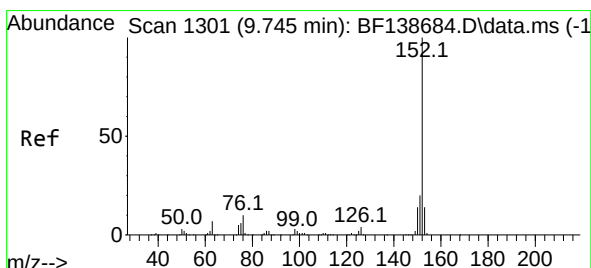
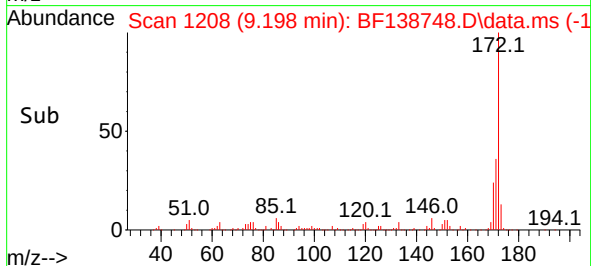
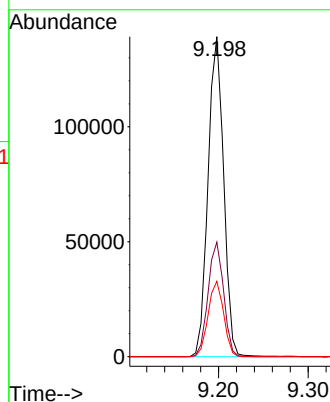
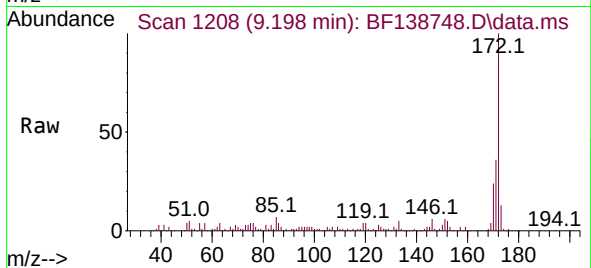
170 23.6 18.8 28.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/03/2024

Supervised By :mohammad ahmed 08/03/2024



#49

Acenaphthylene

Concen: 7.981 ng

RT: 9.739 min Scan# 1300

Delta R.T. -0.006 min

Lab File: BF138748.D

Acq: 02 Aug 2024 15:38

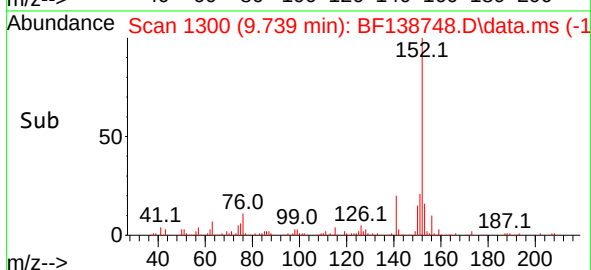
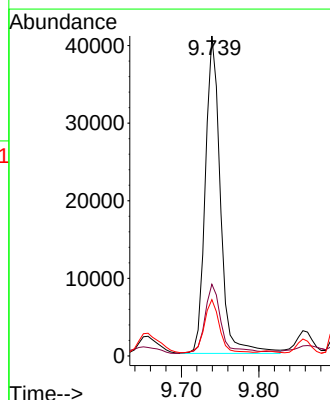
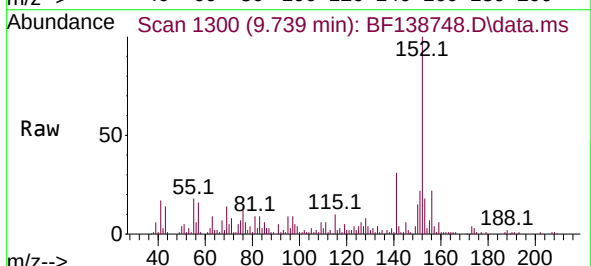
Tgt Ion:152 Resp: 55377

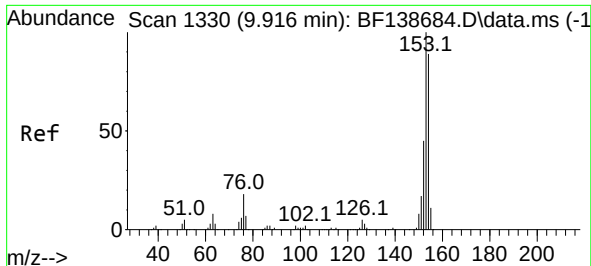
Ion Ratio Lower Upper

152 100

151 22.4 16.0 24.0

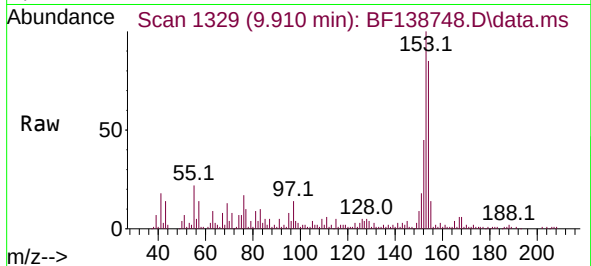
153 17.6 11.0 16.4#





#52
Acenaphthene
Concen: 9.696 ng
RT: 9.910 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF138748.D
Acq: 02 Aug 2024 15:38

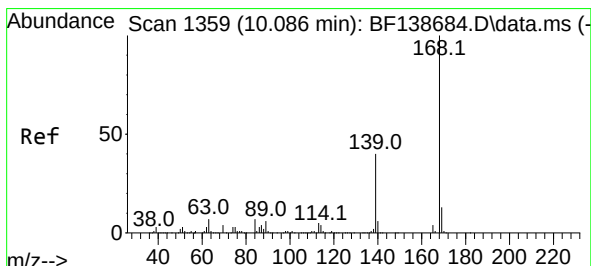
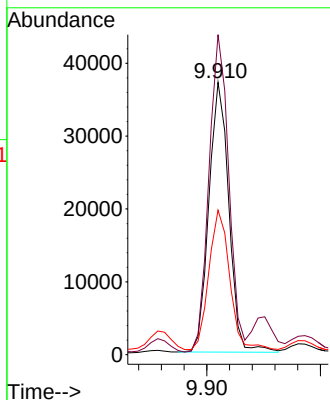
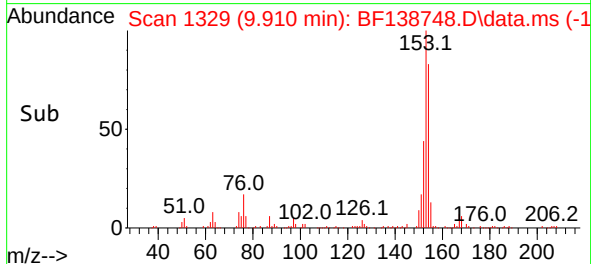
Instrument :
BNA_F
ClientSampleId :
EO-02-073124



Tgt Ion:154 Resp: 45225
Ion Ratio Lower Upper
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153 117.5 89.9 134.9
152 53.1 40.6 60.8

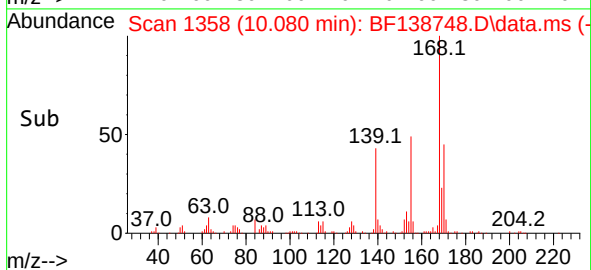
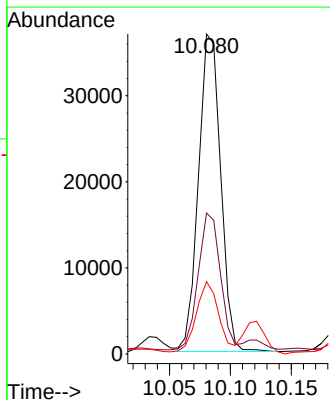
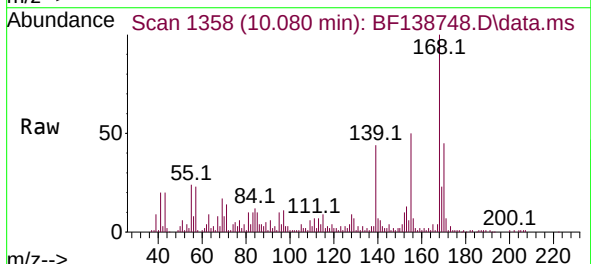
Manual Integrations
APPROVED

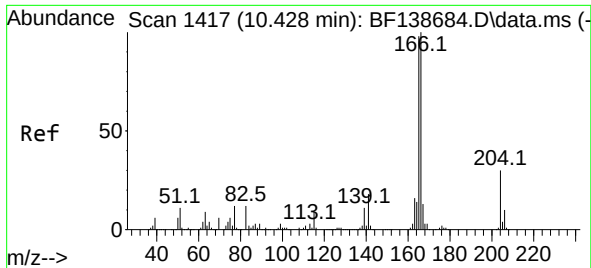
Reviewed By :Yogesh Patel 08/03/2024
Supervised By :mohammad ahmed 08/03/2024



#55
Dibenzofuran
Concen: 7.134 ng
RT: 10.080 min Scan# 1358
Delta R.T. -0.006 min
Lab File: BF138748.D
Acq: 02 Aug 2024 15:38

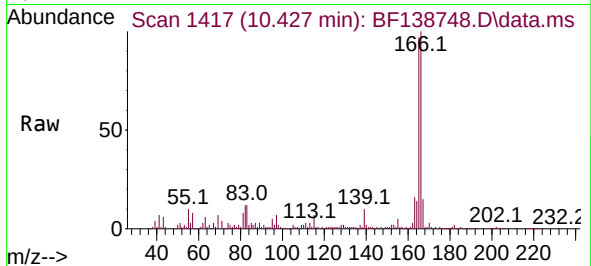
Tgt Ion:168 Resp: 46975
Ion Ratio Lower Upper
168 100
139 44.1 32.6 49.0
169 22.6 10.7 16.1#





#58
Fluorene
Concen: 24.348 ng
RT: 10.427 min Scan# 1417
Delta R.T. -0.000 min
Lab File: BF138748.D
Acq: 02 Aug 2024 15:38

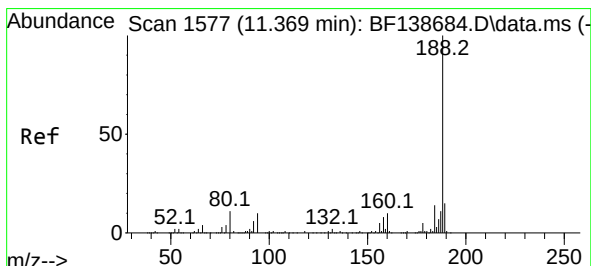
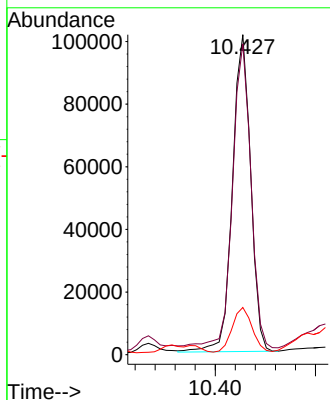
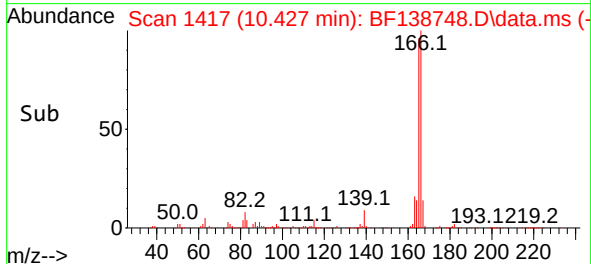
Instrument :
BNA_F
ClientSampleId :
EO-02-073124



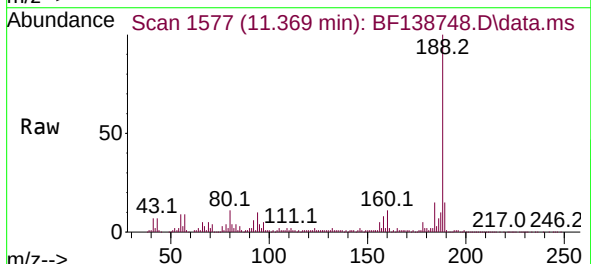
Tgt Ion:166 Resp: 12766
Ion Ratio Lower Upper
166 100
165 97.1 78.4 117.6
167 14.8 10.6 16.0

Manual Integrations
APPROVED

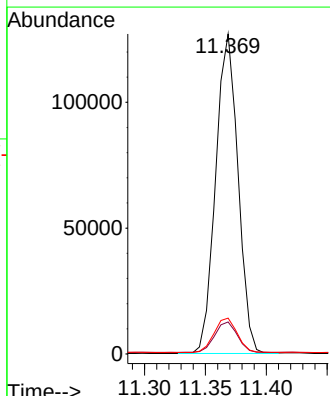
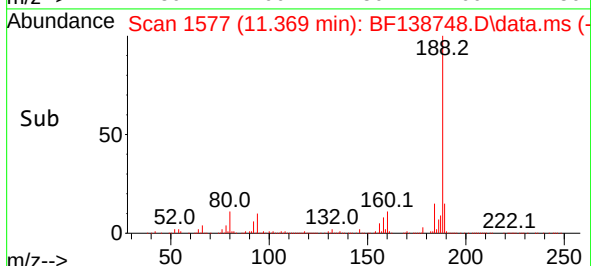
Reviewed By :Yogesh Patel 08/03/2024
Supervised By :mohammad ahmed 08/03/2024

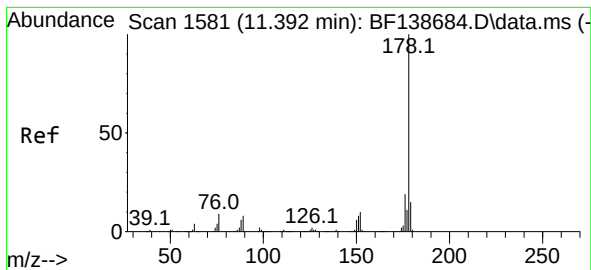


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 1577
Delta R.T. -0.000 min
Lab File: BF138748.D
Acq: 02 Aug 2024 15:38



Tgt Ion:188 Resp: 162369
Ion Ratio Lower Upper
188 100
94 10.0 7.6 11.4
80 11.2 8.6 12.8





#71

Phenanthrene

Concen: 103.425 ng

RT: 11.398 min Scan# 1581

Delta R.T. 0.006 min

Lab File: BF138748.D

Acq: 02 Aug 2024 15:38

Instrument :

BNA_F

ClientSampleId :

EO-02-073124

Tgt Ion:178 Resp: 864708

Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.0

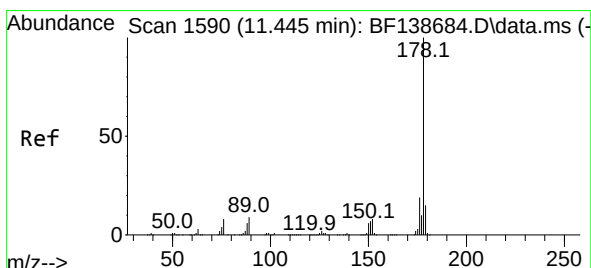
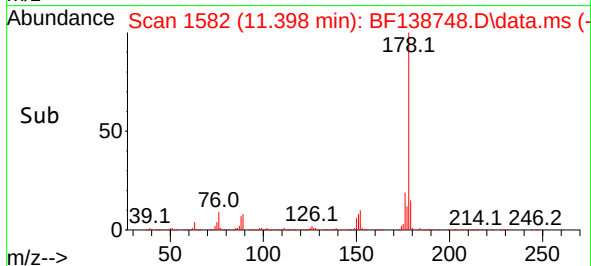
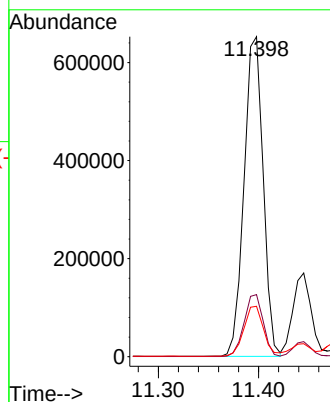
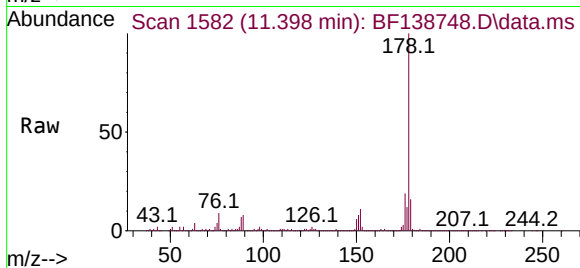
179 15.7 12.2 18.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/03/2024

Supervised By :mohammad ahmed 08/03/2024



#72

Anthracene

Concen: 28.483 ng

RT: 11.445 min Scan# 1590

Delta R.T. -0.000 min

Lab File: BF138748.D

Acq: 02 Aug 2024 15:38

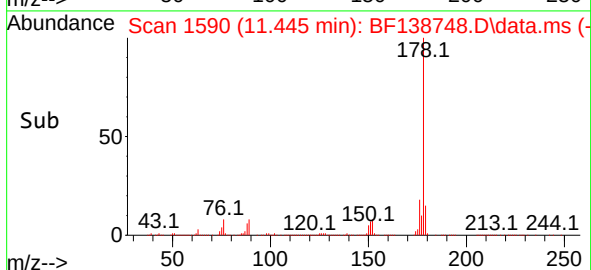
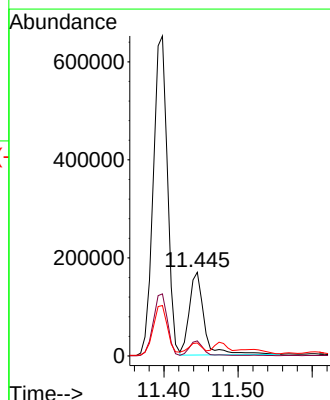
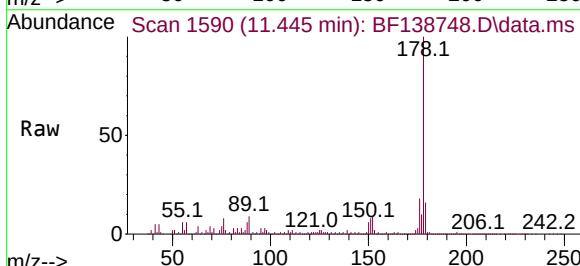
Tgt Ion:178 Resp: 234599

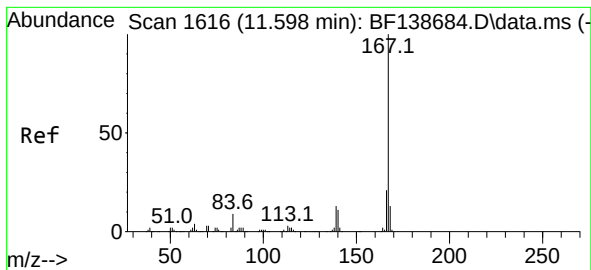
Ion Ratio Lower Upper

178 100

176 18.1 14.9 22.3

179 15.6 12.4 18.6





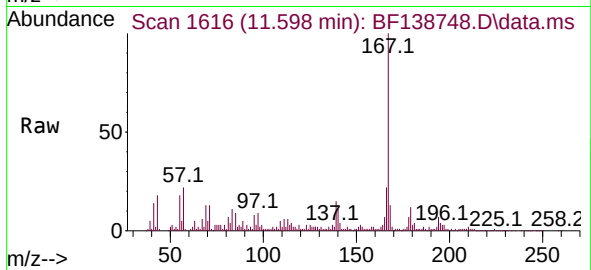
#73
 Carbazole
 Concen: 12.110 ng
 RT: 11.598 min Scan# 1616
 Delta R.T. -0.000 min
 Lab File: BF138748.D
 Acq: 02 Aug 2024 15:38

Instrument :

BNA_F

ClientSampleId :

EO-02-073124

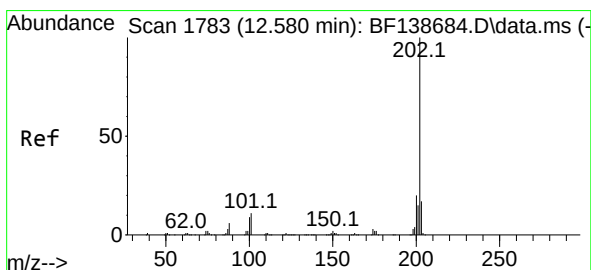
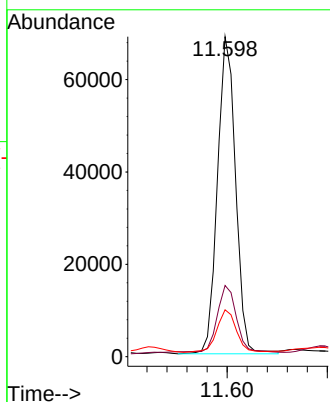
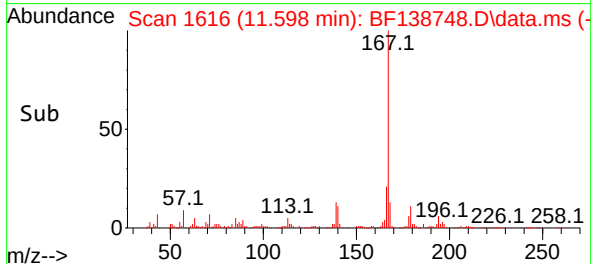


Tgt Ion:167 Resp: 86050
 Ion Ratio Lower Upper
 167 100
 166 22.2 17.2 25.8
 139 14.6 10.6 16.0

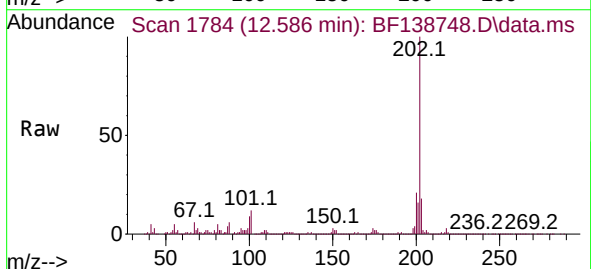
Manual Integrations

APPROVED

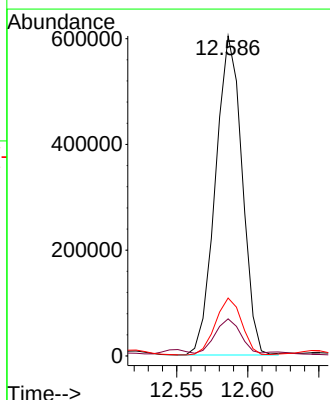
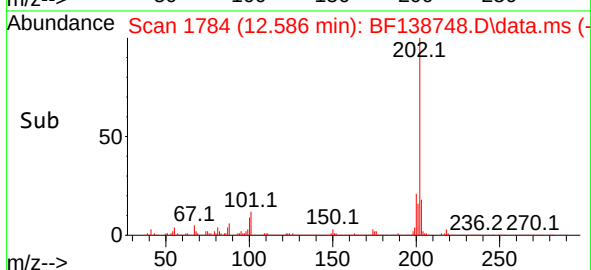
Reviewed By :Yogesh Patel 08/03/2024
 Supervised By :mohammad ahmed 08/03/2024

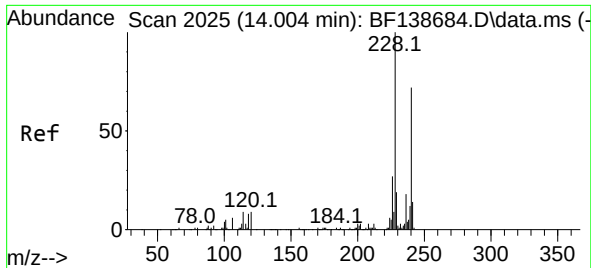


#75
 Fluoranthene
 Concen: 100.734 ng
 RT: 12.586 min Scan# 1784
 Delta R.T. 0.006 min
 Lab File: BF138748.D
 Acq: 02 Aug 2024 15:38



Tgt Ion:202 Resp: 786248
 Ion Ratio Lower Upper
 202 100
 101 11.6 0.0 31.2
 203 18.1 0.0 37.3





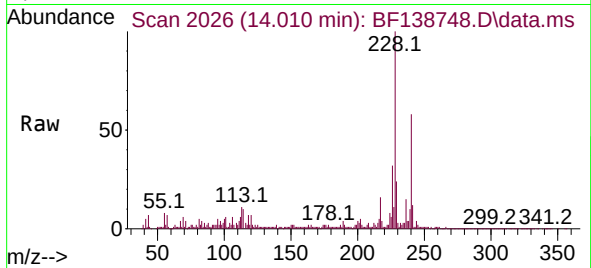
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.010 min Scan# 2025
Delta R.T. 0.006 min
Lab File: BF138748.D
Acq: 02 Aug 2024 15:38

Instrument :

BNA_F

ClientSampleId :

EO-02-073124

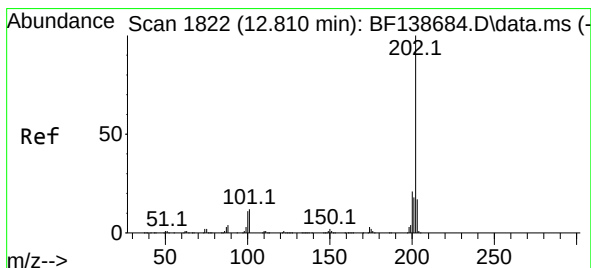
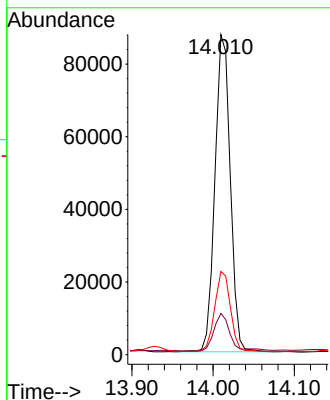
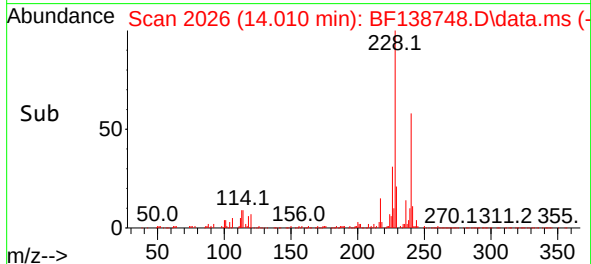


Tgt Ion:240 Resp: 114788
Ion Ratio Lower Upper
240 100
120 12.9 10.2 15.4
236 26.0 19.8 29.8

Manual Integrations

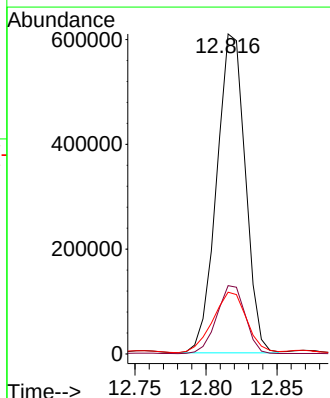
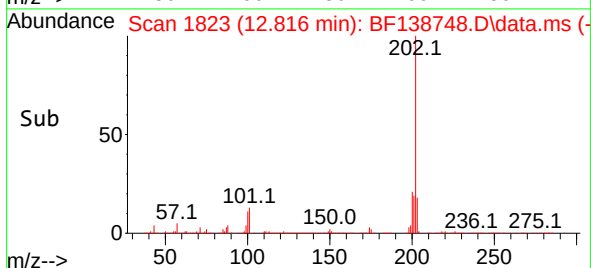
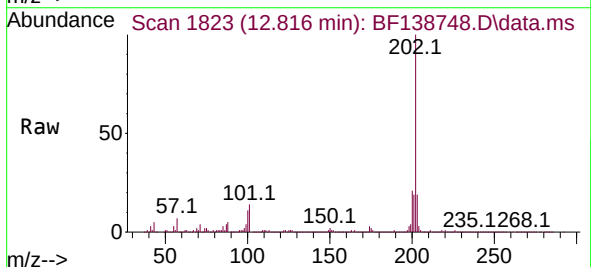
APPROVED

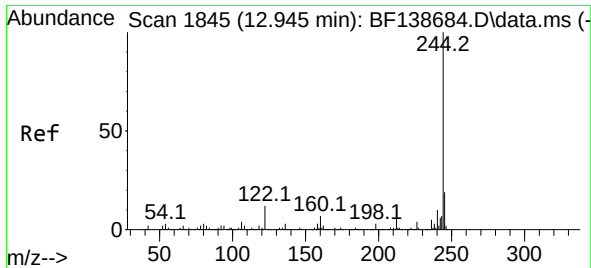
Reviewed By :Yogesh Patel 08/03/2024
Supervised By :mohammad ahmed 08/03/2024



#78
Pyrene
Concen: 78.999 ng
RT: 12.816 min Scan# 1823
Delta R.T. 0.006 min
Lab File: BF138748.D
Acq: 02 Aug 2024 15:38

Tgt Ion:202 Resp: 853791
Ion Ratio Lower Upper
202 100
200 21.4 16.8 25.2
203 19.3 13.8 20.6





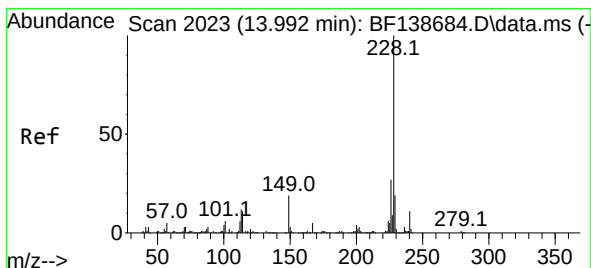
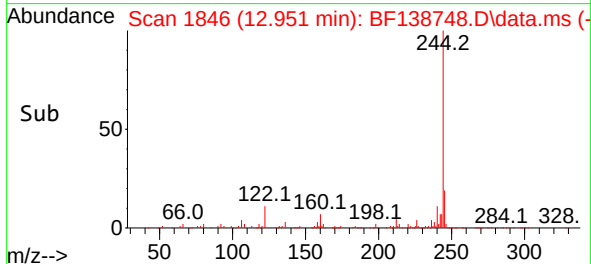
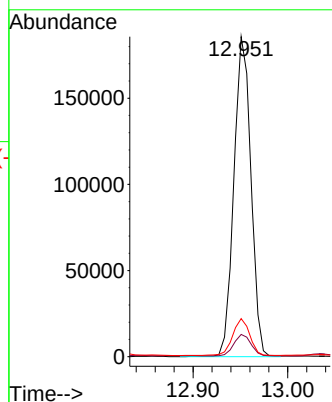
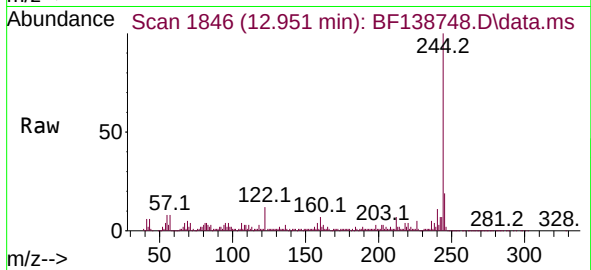
#79
 Terphenyl-d14
 Concen: 33.849 ng
 RT: 12.951 min Scan# 11
 Delta R.T. 0.006 min
 Lab File: BF138748.D
 Acq: 02 Aug 2024 15:38

Instrument :
 BNA_F
 ClientSampleId :
 EO-02-073124

Tgt Ion:244 Resp: 232072
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.4 8.2
 122 11.9 9.6 14.4

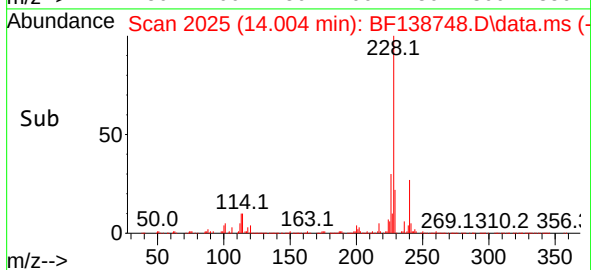
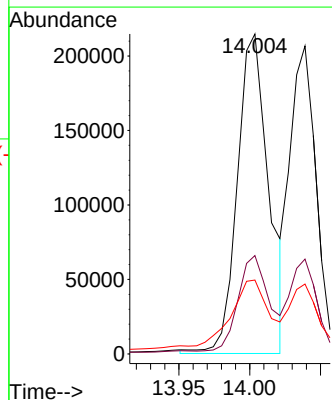
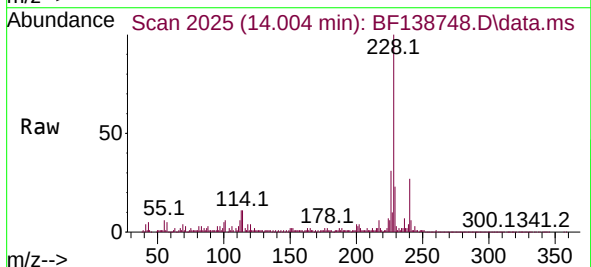
Manual Integrations
 APPROVED

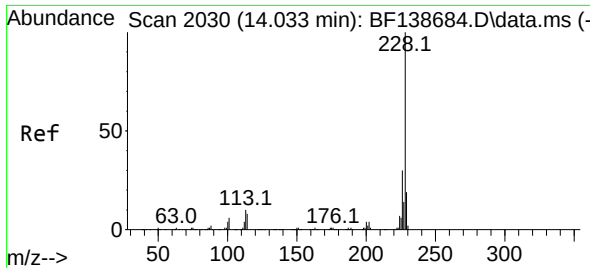
Reviewed By :Yogesh Patel 08/03/2024
 Supervised By :mohammad ahmed 08/03/2024



#81
 Benzo(a)anthracene
 Concen: 41.710 ng m
 RT: 14.004 min Scan# 2025
 Delta R.T. 0.012 min
 Lab File: BF138748.D
 Acq: 02 Aug 2024 15:38

Tgt Ion:228 Resp: 329698
 Ion Ratio Lower Upper
 228 100
 226 30.7 22.1 33.1
 229 23.1 15.4 23.0#





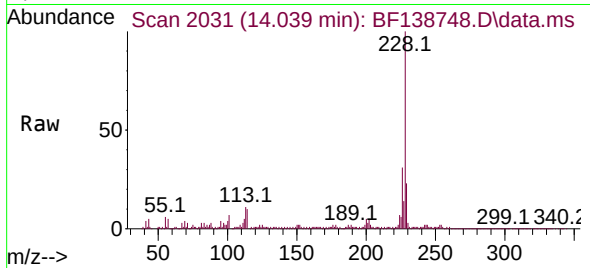
#83
Chrysene
Concen: 36.219 ng
RT: 14.039 min Scan# 2030
Delta R.T. 0.006 min
Lab File: BF138748.D
Acq: 02 Aug 2024 15:38

Instrument :

BNA_F

ClientSampleId :

EO-02-073124



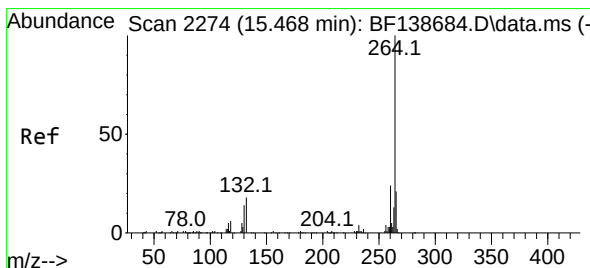
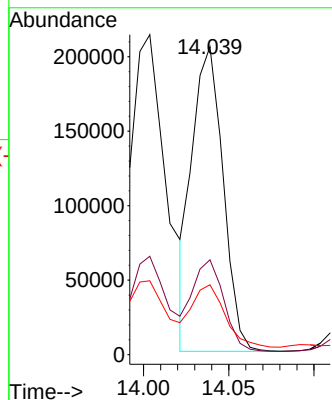
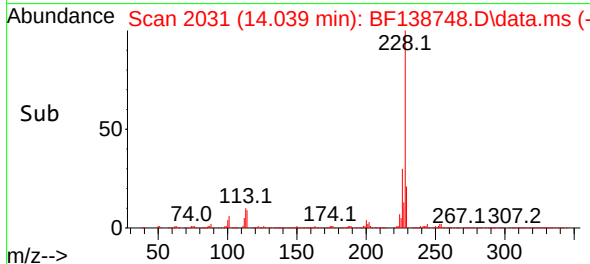
Tgt Ion:228 Resp: 258294
Ion Ratio Lower Upper
228 100
226 30.8 23.7 35.5
229 22.7 15.0 22.6

Manual Integrations

APPROVED

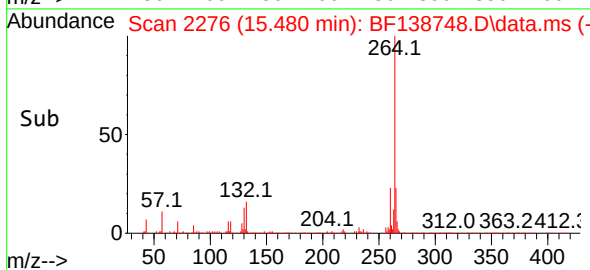
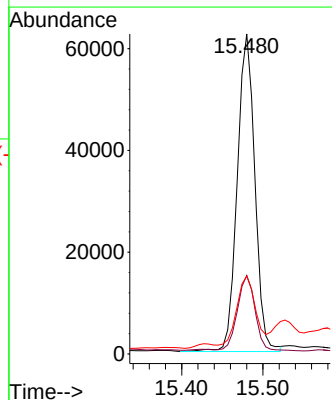
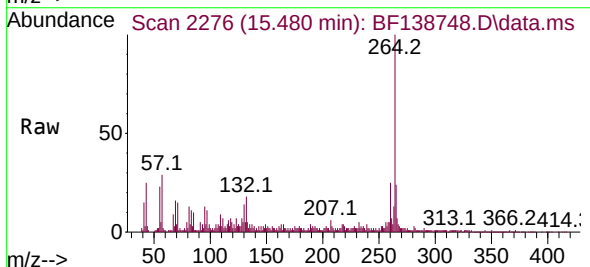
Reviewed By :Yogesh Patel 08/03/2024

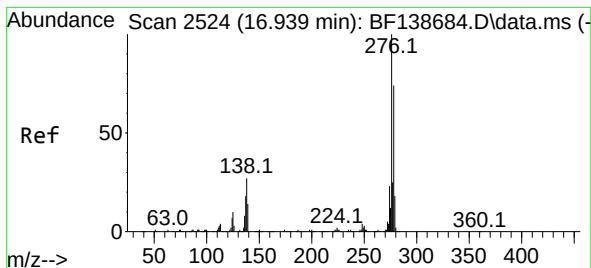
Supervised By :mohammad ahmed 08/03/2024



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.480 min Scan# 2276
Delta R.T. 0.012 min
Lab File: BF138748.D
Acq: 02 Aug 2024 15:38

Tgt Ion:264 Resp: 94033
Ion Ratio Lower Upper
264 100
260 24.5 19.0 28.6
265 24.3 17.0 25.6





#87

Indeno(1,2,3-cd)pyrene

Concen: 13.415 ng

RT: 16.951 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF138748.D

Acq: 02 Aug 2024 15:38

Instrument :

BNA_F

ClientSampleId :

EO-02-073124

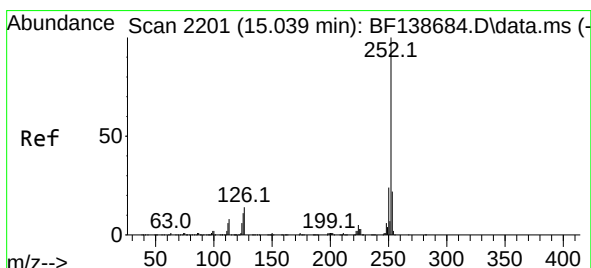
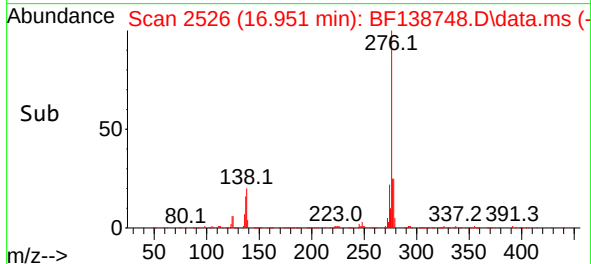
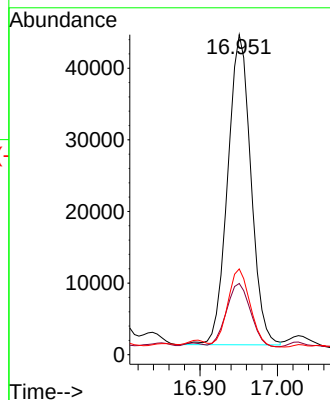
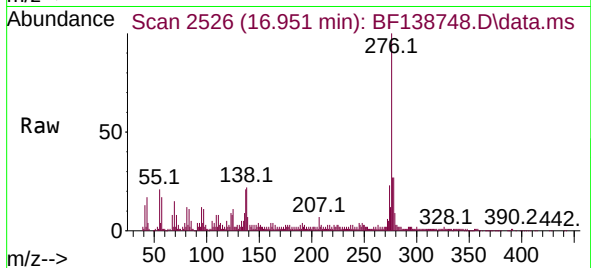
Tgt Ion:	276	Resp:	9039
Ion Ratio	Lower	Upper	
276	100		
138	21.1	21.8	32.8
277	24.4	20.6	30.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/03/2024

Supervised By :mohammad ahmed 08/03/2024



#88

Benzo(b)fluoranthene

Concen: 38.262 ng m

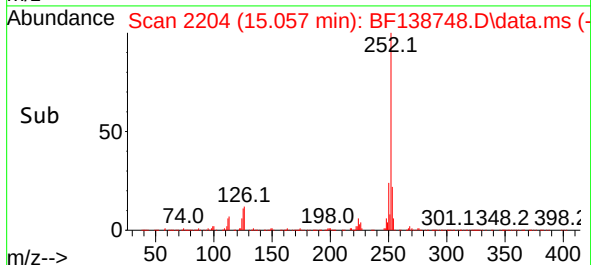
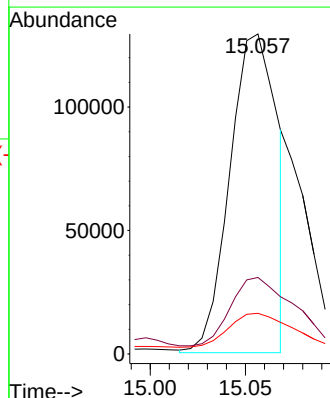
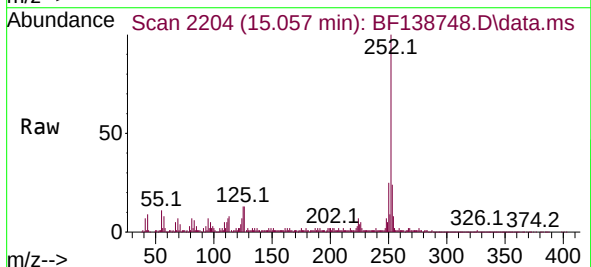
RT: 15.057 min Scan# 2204

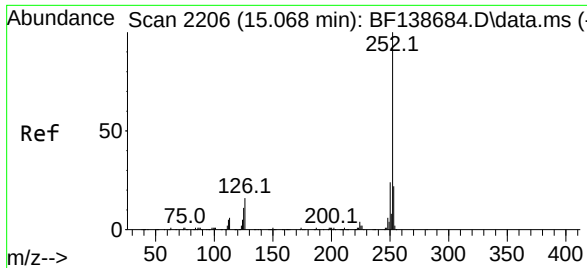
Delta R.T. 0.018 min

Lab File: BF138748.D

Acq: 02 Aug 2024 15:38

Tgt Ion:	252	Resp:	223033
Ion Ratio	Lower	Upper	
252	100		
253	23.9	17.5	26.3
125	12.7	8.9	13.3





#89

Benzo(k)fluoranthene

Concen: 14.914 ng m

RT: 15.068 min Scan# 2206

Delta R.T. -0.000 min

Lab File: BF138748.D

Acq: 02 Aug 2024 15:38

Instrument :

BNA_F

ClientSampleId :

EO-02-073124

Tgt Ion:252 Resp: 75270

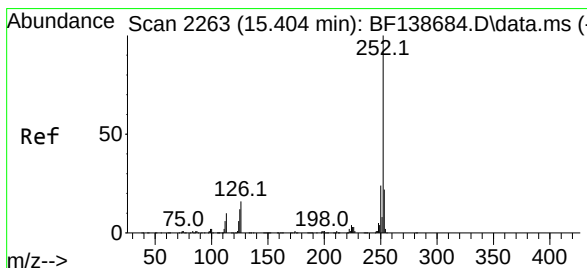
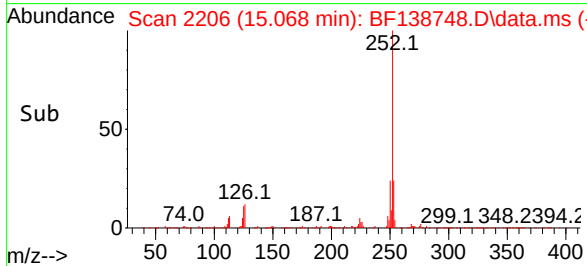
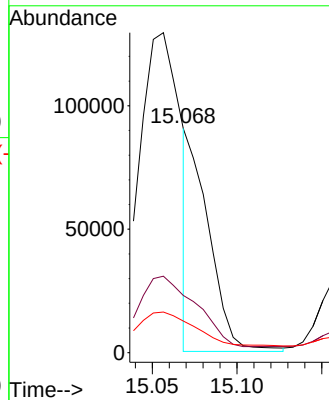
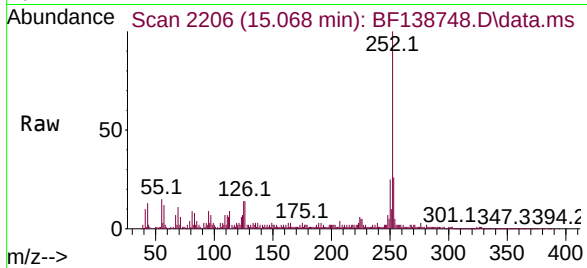
Ion	Ratio	Lower	Upper
252	100		
253	25.6	17.4	26.0
125	14.2	8.6	13.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/03/2024

Supervised By :mohammad ahmed 08/03/2024



#90

Benzo(a)pyrene

Concen: 35.528 ng

RT: 15.415 min Scan# 2265

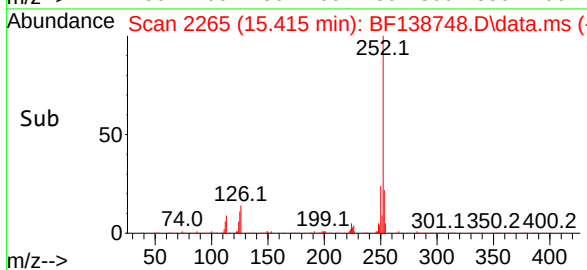
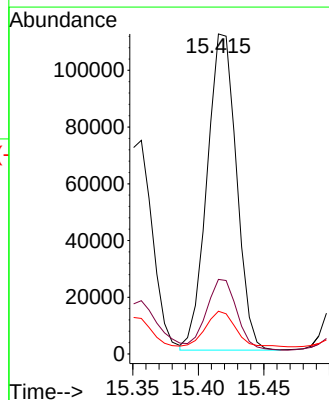
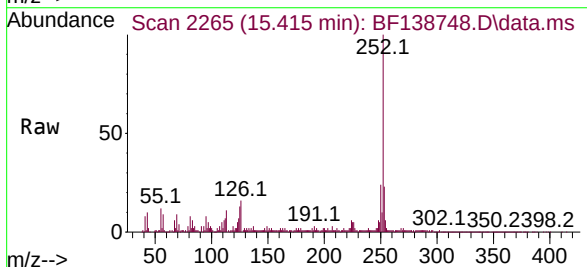
Delta R.T. 0.012 min

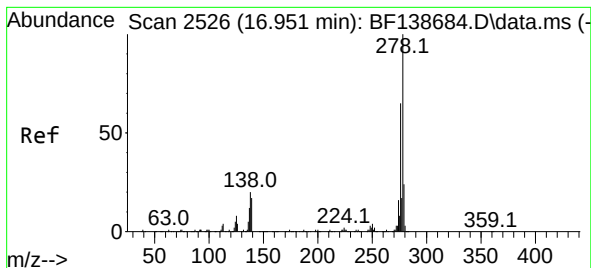
Lab File: BF138748.D

Acq: 02 Aug 2024 15:38

Tgt Ion:252 Resp: 174198

Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.3	25.9
125	13.4	9.5	14.3





#91

Dibenzo(a,h)anthracene

Concen: 4.664 ng

RT: 16.956 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF138748.D

Acq: 02 Aug 2024 15:38

Instrument :

BNA_F

ClientSampleId :

EO-02-073124

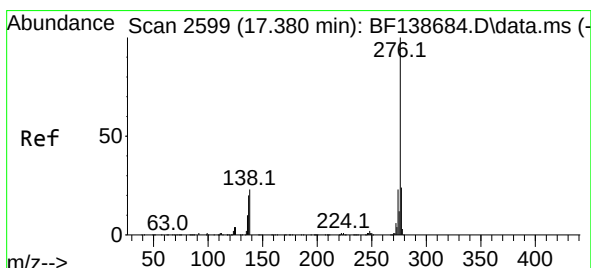
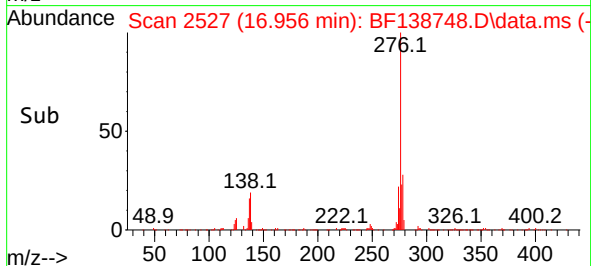
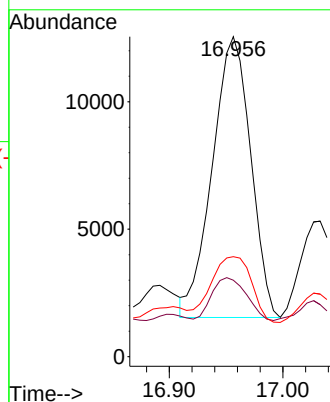
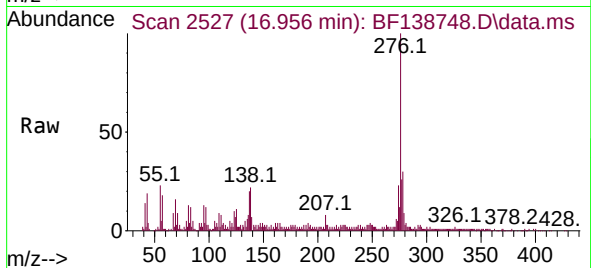
Tgt Ion:	278	Resp:	2580
Ion Ratio	Lower	Upper	
278	100		
139	23.9	14.0	21.0
279	31.3	19.0	28.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/03/2024

Supervised By :mohammad ahmed 08/03/2024



#92

Benzo(g,h,i)perylene

Concen: 15.923 ng

RT: 17.398 min Scan# 2602

Delta R.T. 0.018 min

Lab File: BF138748.D

Acq: 02 Aug 2024 15:38

Tgt Ion:	276	Resp:	91402
Ion Ratio	Lower	Upper	
276	100		
277	25.6	19.0	28.4
138	24.4	18.5	27.7

