

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080625\
 Data File : BF143338.D
 Acq On : 06 Aug 2025 19:09
 Operator : RC/JU
 Sample : Q2774-11 2X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 224

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 08/07/2025
 Supervised By :Jagrut Upadhyay 08/07/2025

Quant Time: Aug 07 01:01:03 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jul 17 15:14:05 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.963	152	94007	20.000	ng	0.00
21) Naphthalene-d8	8.245	136	320641	20.000	ng	0.00
39) Acenaphthene-d10	9.998	164	148823	20.000	ng	0.00
64) Phenanthrene-d10	11.492	188	248917	20.000	ng	0.00
76) Chrysene-d12	14.139	240	192351	20.000	ng	0.02
86) Perylene-d12	15.651	264	151965	20.000	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.593	112	187679	31.593	ng	0.00
7) Phenol-d6	6.587	99	232611	31.109	ng	0.00
23) Nitrobenzene-d5	7.516	82	151210	23.507	ng	0.00
42) 2,4,6-Tribromophenol	10.786	330	48908	31.812	ng	0.00
45) 2-Fluorobiphenyl	9.316	172	307371	28.246	ng	0.00
79) Terphenyl-d14	13.069	244	254635	19.700	ng	0.00
Target Compounds						Qvalue
52) Acenaphthene	10.033	154	47241	5.551	ng	96
55) Dibenzofuran	10.204	168	27808	2.201	ng	95
58) Fluorene	10.545	166	56791	5.989	ng	98
71) Phenanthrene	11.516	178	1009678	76.394	ng	99
72) Anthracene	11.569	178	218671	16.222	ng	99
73) Carbazole	11.716	167	120585	10.245	ng	97
75) Fluoranthene	12.716	202	2123170	175.017	ng	98
78) Pyrene	12.945	202	1773511	108.035	ng	97
81) Benzo(a)anthracene	14.127	228	879114	68.265	ng	96
83) Chrysene	14.168	228	875025	75.574	ng	97
84) Bis(2-ethylhexyl)phtha...	14.104	149	31870	4.189	ng	99
87) Indeno(1,2,3-cd)pyrene	17.198	276	374257m	34.926	ng	
88) Benzo(b)fluoranthene	15.210	252	1021040m	109.982	ng	
89) Benzo(k)fluoranthene	15.221	252	419453m	50.632	ng	
90) Benzo(a)pyrene	15.586	252	578977	67.689	ng	98
91) Dibenzo(a,h)anthracene	17.204	278	79066m	9.065	ng	
92) Benzo(g,h,i)perylene	17.674	276	365503	43.322	ng	99

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

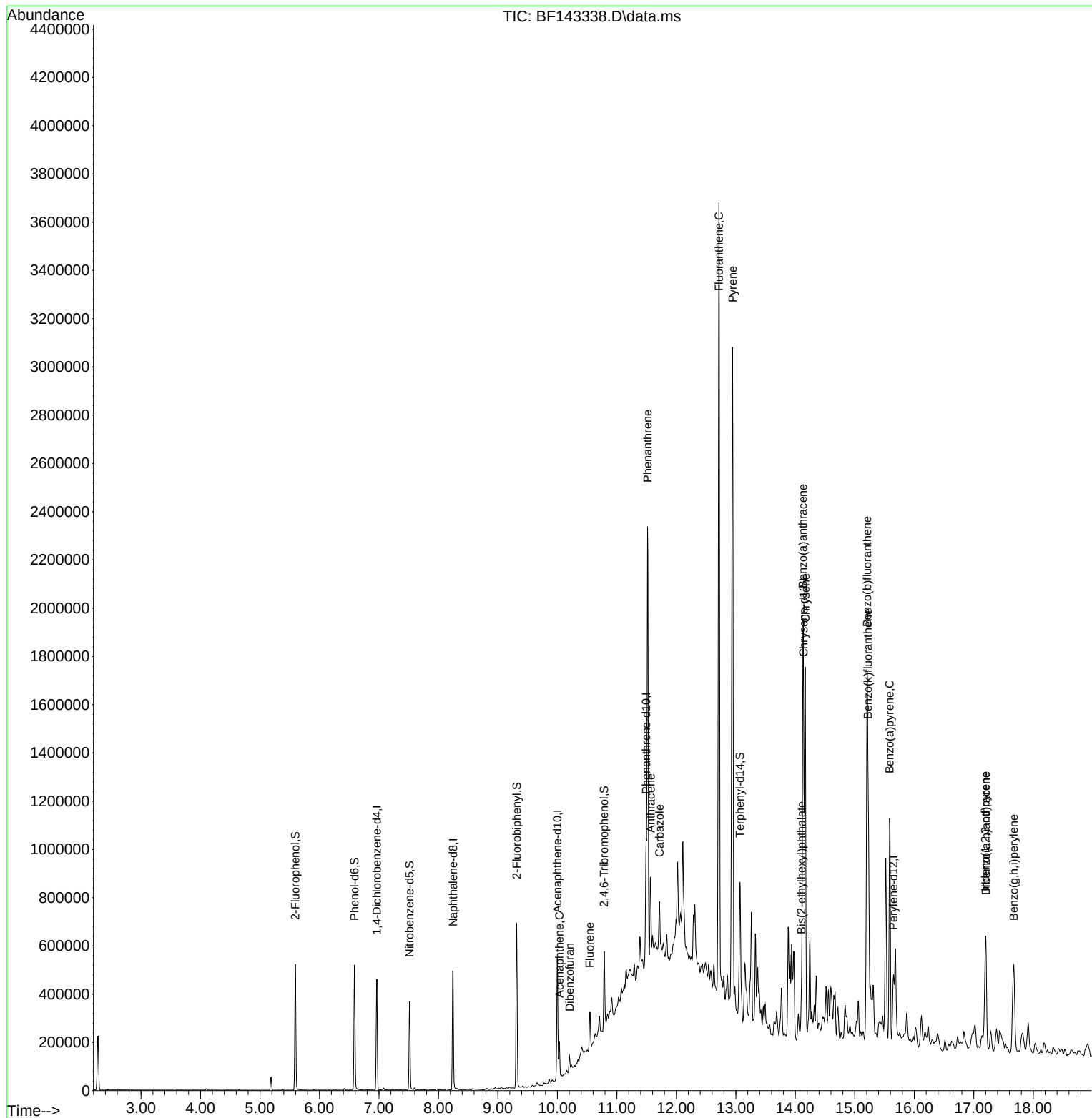
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080625\
Data File : BF143338.D
Acq On : 06 Aug 2025 19:09
Operator : RC/JU
Sample : Q2774-11 2X
Misc :
ALS Vial : 19 Sample Multiplier: 1

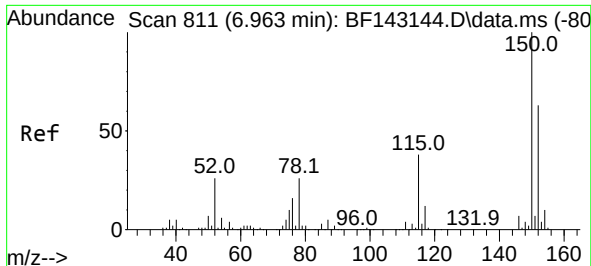
Instrument :
BNA_F
ClientSampleId :
224

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025

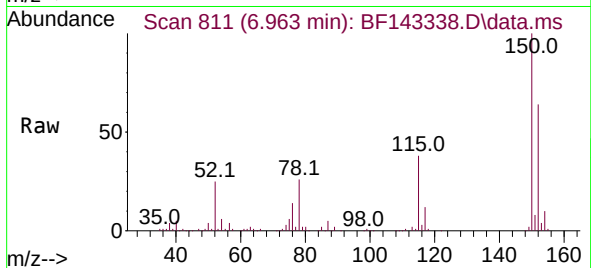
Quant Time: Aug 07 01:01:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 17 15:14:05 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.963 min Scan# 811
Delta R.T. 0.000 min
Lab File: BF143338.D
Acq: 06 Aug 2025 19:09

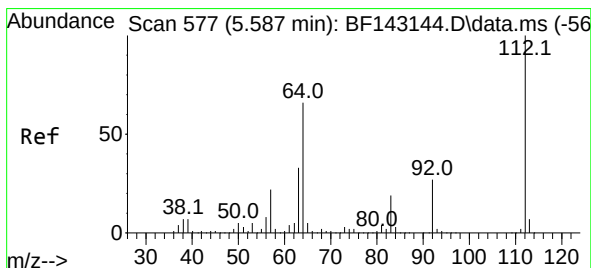
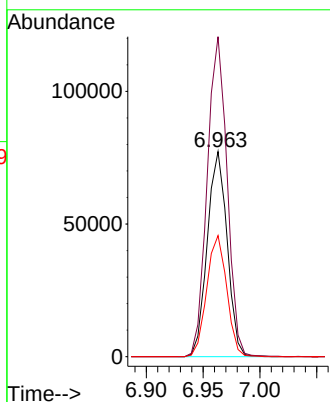
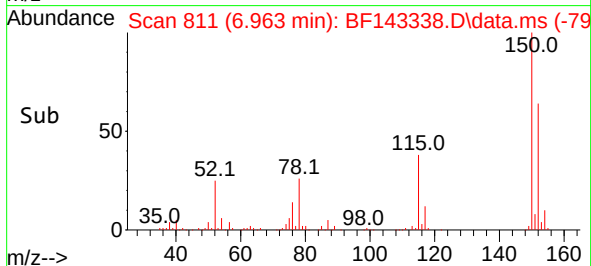
Instrument :
BNA_F
ClientSampleId :
224



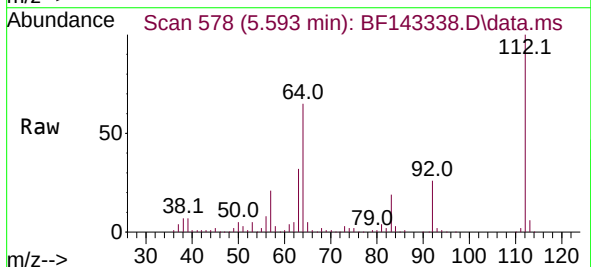
Tgt Ion:152 Resp: 9400
Ion Ratio Lower Upper
152 100
150 156.0 128.2 192.4
115 59.0 47.9 71.9

Manual Integrations
APPROVED

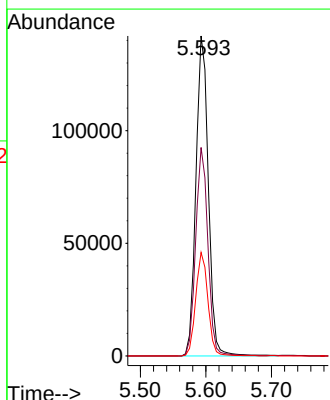
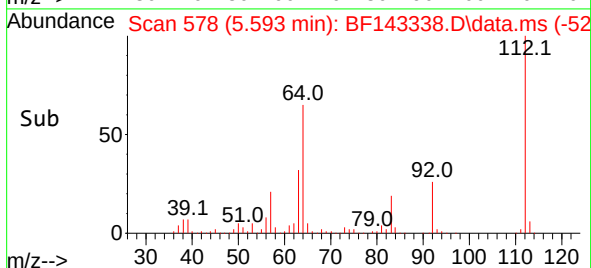
Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025

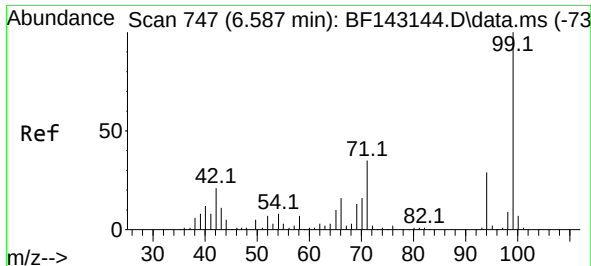


#5
2-Fluorophenol
Concen: 31.593 ng
RT: 5.593 min Scan# 578
Delta R.T. 0.006 min
Lab File: BF143338.D
Acq: 06 Aug 2025 19:09



Tgt Ion:112 Resp: 187679
Ion Ratio Lower Upper
112 100
64 65.1 53.1 79.7
63 32.4 26.6 40.0





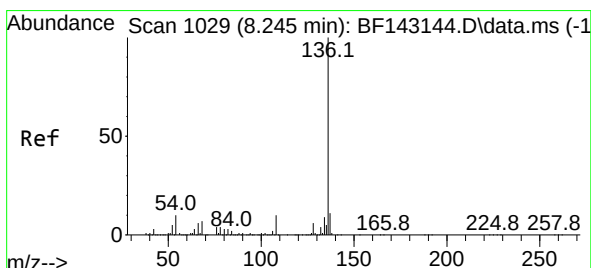
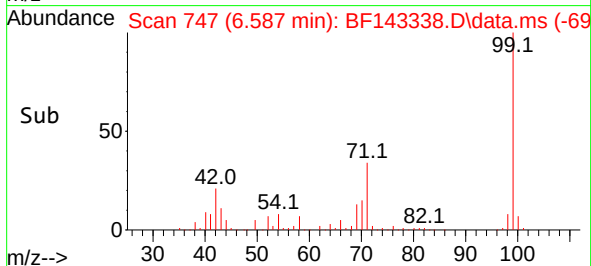
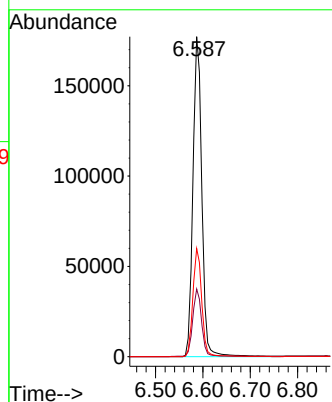
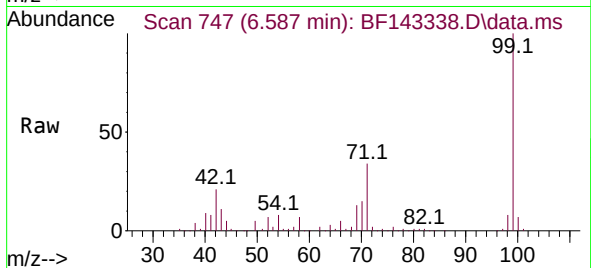
#7
Phenol-d6
Concen: 31.109 ng
RT: 6.587 min Scan# 747
Delta R.T. 0.000 min
Lab File: BF143338.D
Acq: 06 Aug 2025 19:09

Instrument :
BNA_F
ClientSampleId :
224

Tgt Ion: 99 Resp: 23261
Ion Ratio Lower Upper
99 100
42 21.1 17.0 25.6
71 33.8 27.7 41.5

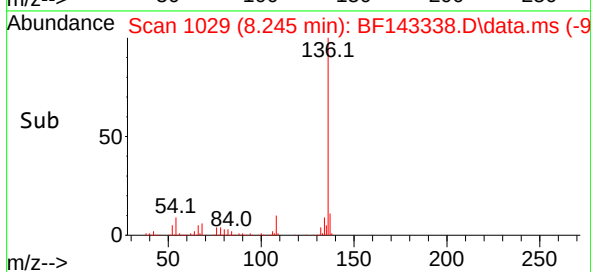
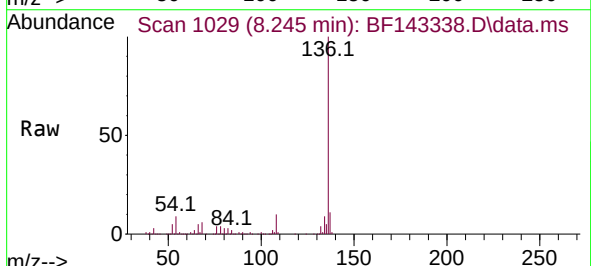
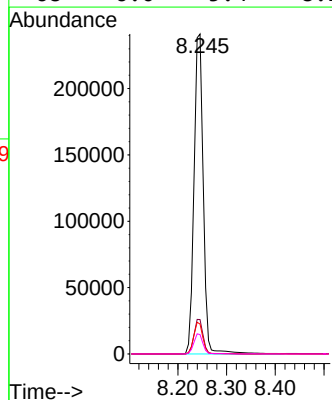
Manual Integrations
APPROVED

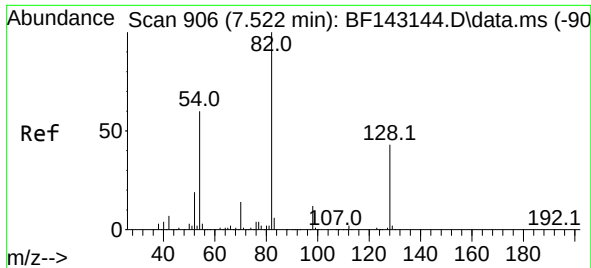
Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.245 min Scan# 1029
Delta R.T. 0.000 min
Lab File: BF143338.D
Acq: 06 Aug 2025 19:09

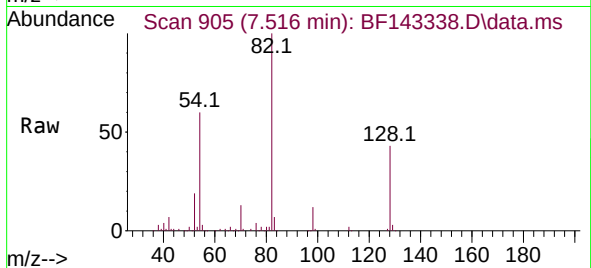
Tgt Ion:136 Resp: 320641
Ion Ratio Lower Upper
136 100
137 10.8 8.6 13.0
54 9.4 8.2 12.2
68 6.0 5.4 8.2





#23
Nitrobenzene-d5
Concen: 23.507 ng
RT: 7.516 min Scan# 906
Delta R.T. -0.006 min
Lab File: BF143338.D
Acq: 06 Aug 2025 19:09

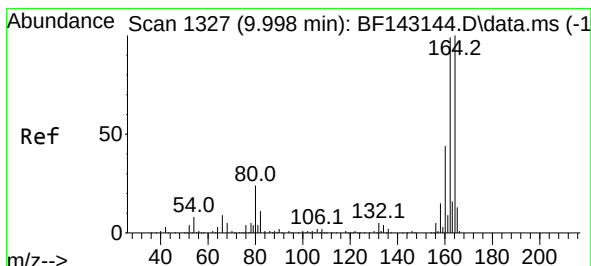
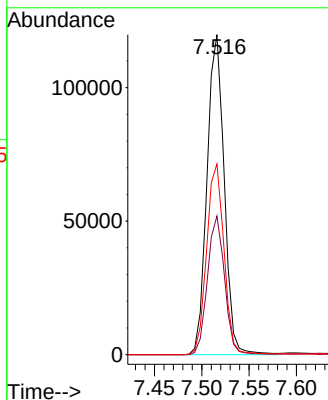
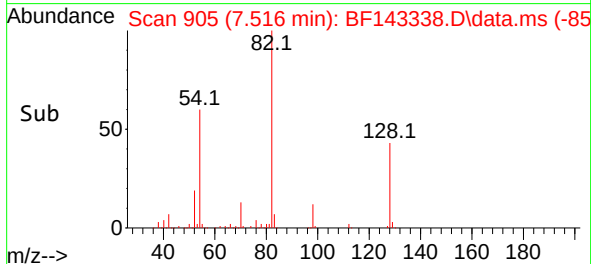
Instrument :
BNA_F
ClientSampleId :
224



Tgt Ion: 82 Resp: 151210
Ion Ratio Lower Upper
82 100
128 43.4 33.6 50.4
54 59.6 47.1 70.7

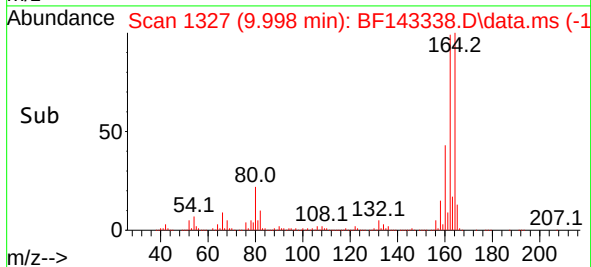
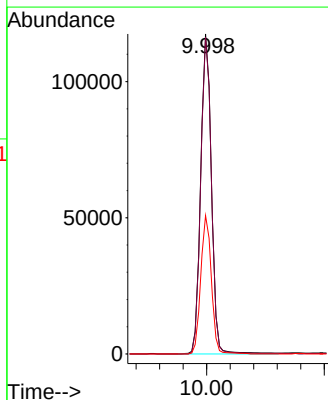
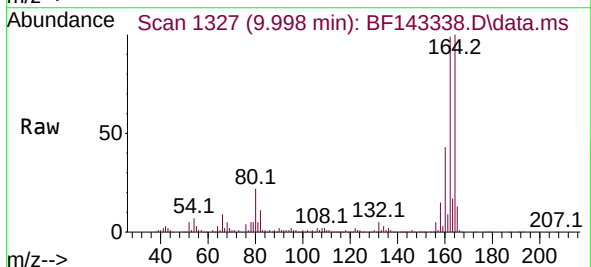
Manual Integrations
APPROVED

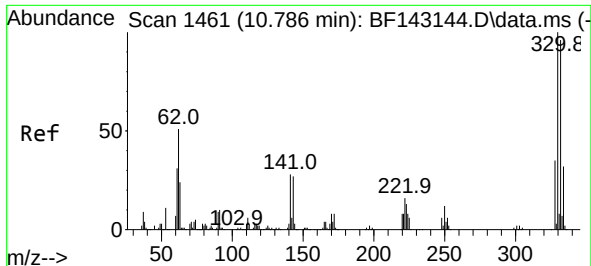
Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.998 min Scan# 1327
Delta R.T. 0.000 min
Lab File: BF143338.D
Acq: 06 Aug 2025 19:09

Tgt Ion:164 Resp: 148823
Ion Ratio Lower Upper
164 100
162 99.1 79.0 118.6
160 43.3 35.1 52.7





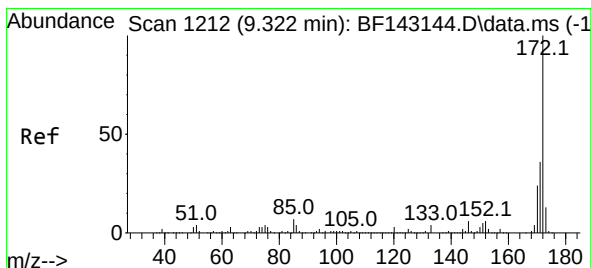
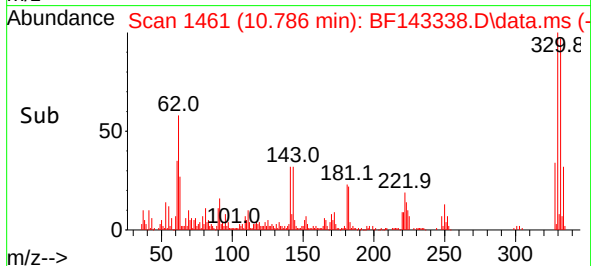
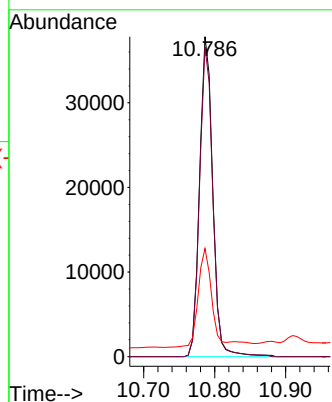
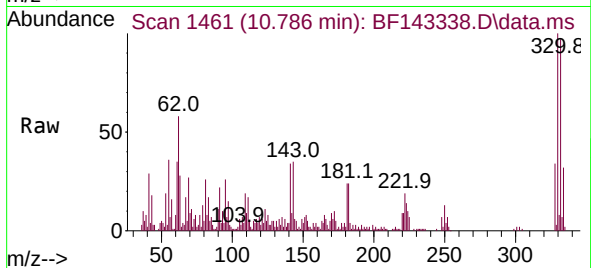
#42
2,4,6-Tribromophenol
Concen: 31.812 ng
RT: 10.786 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BF143338.D
Acq: 06 Aug 2025 19:09

Instrument :
BNA_F
ClientSampleId :
224

Tgt Ion: 330 Resp: 48908
Ion Ratio Lower Upper
330 100
332 97.2 76.7 115.1
141 30.6 23.3 34.9

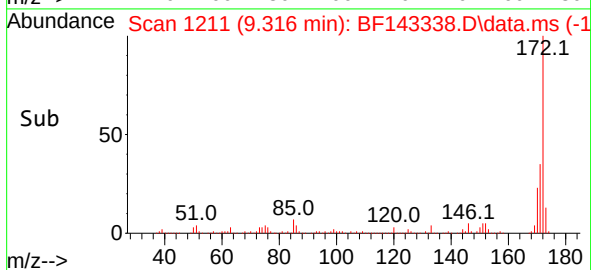
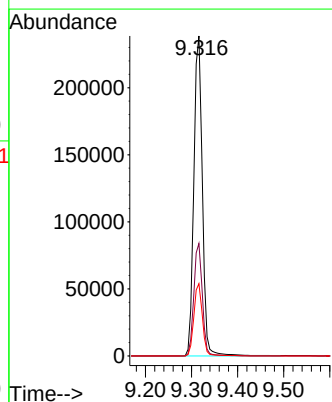
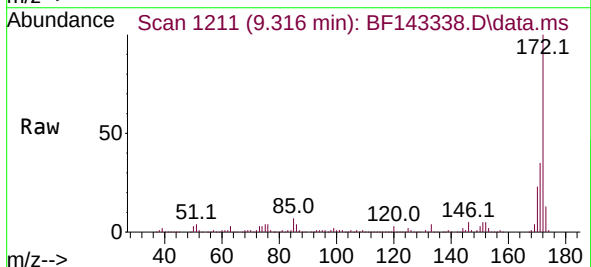
Manual Integrations
APPROVED

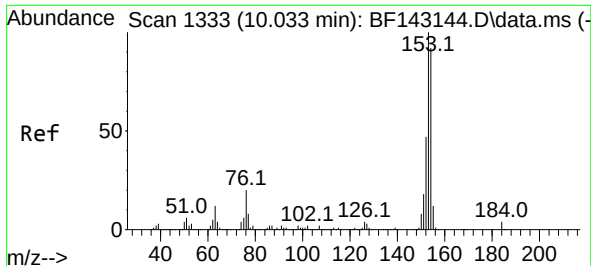
Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025



#45
2-Fluorobiphenyl
Concen: 28.246 ng
RT: 9.316 min Scan# 1211
Delta R.T. -0.006 min
Lab File: BF143338.D
Acq: 06 Aug 2025 19:09

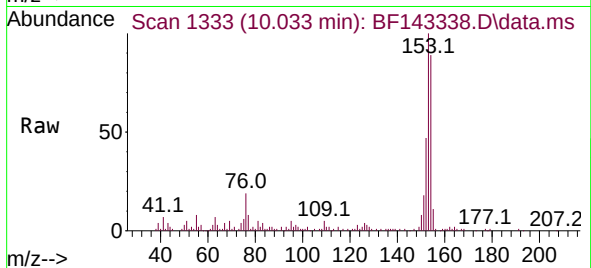
Tgt Ion: 172 Resp: 307371
Ion Ratio Lower Upper
172 100
171 35.2 28.6 42.8
170 22.6 18.8 28.2





#52
Acenaphthene
Concen: 5.551 ng
RT: 10.033 min Scan# 1333
Delta R.T. 0.000 min
Lab File: BF143338.D
Acq: 06 Aug 2025 19:09

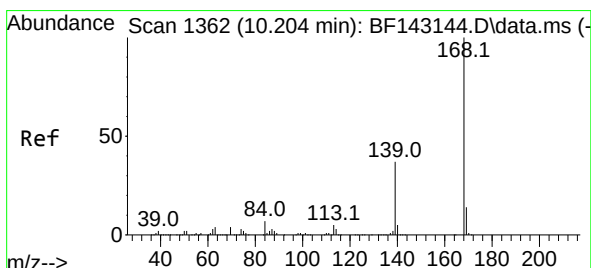
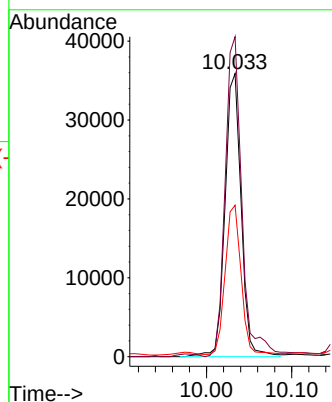
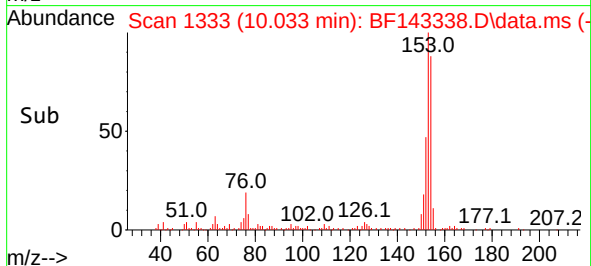
Instrument :
BNA_F
ClientSampleId :
224



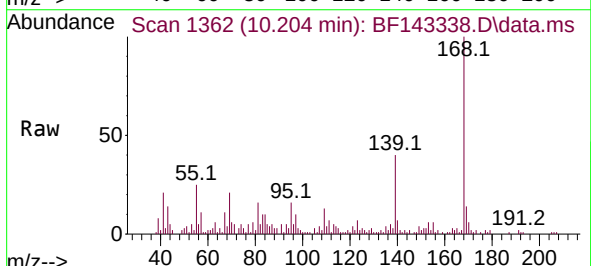
Tgt Ion:154 Resp: 4724
Ion Ratio Lower Upper
154 100
153 113.0 86.6 129.8
152 53.5 40.4 60.6

Manual Integrations
APPROVED

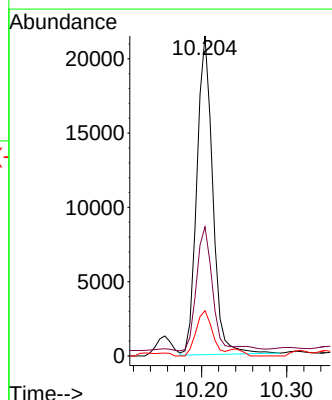
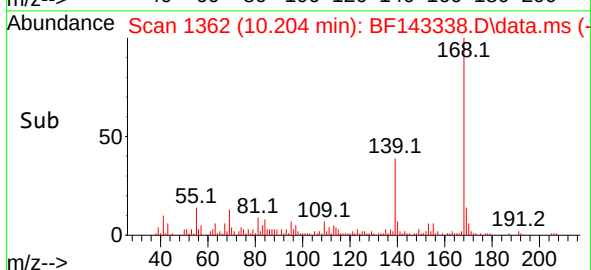
Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025

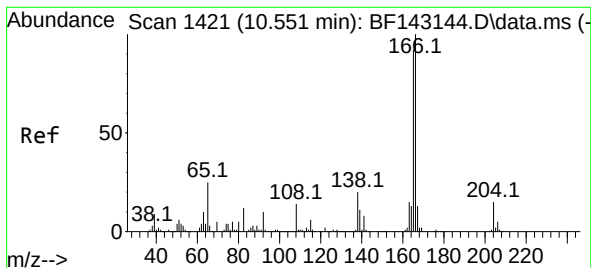


#55
Dibenzofuran
Concen: 2.201 ng
RT: 10.204 min Scan# 1362
Delta R.T. 0.000 min
Lab File: BF143338.D
Acq: 06 Aug 2025 19:09



Tgt Ion:168 Resp: 27808
Ion Ratio Lower Upper
168 100
139 40.3 29.5 44.3
169 14.2 10.9 16.3





#58

Fluorene

Concen: 5.989 ng

RT: 10.545 min Scan# 1421

Delta R.T. -0.006 min

Lab File: BF143338.D

Acq: 06 Aug 2025 19:09

Instrument :

BNA_F

ClientSampleId :

224

Tgt Ion:166 Resp: 5679

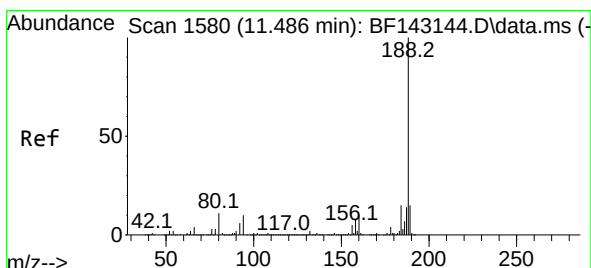
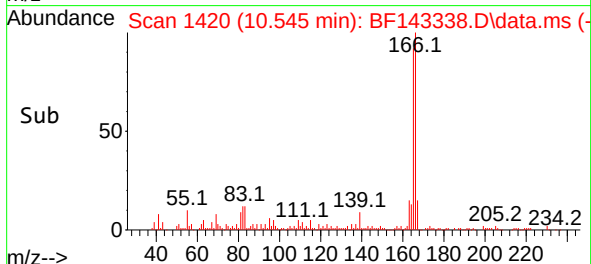
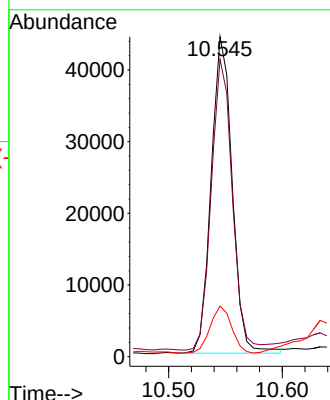
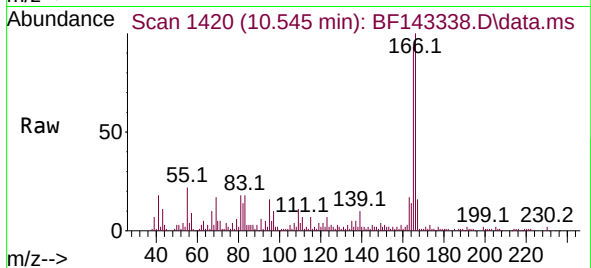
Ion	Ratio	Lower	Upper
166	100		
165	93.0	73.7	110.5
167	15.8	10.6	16.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/07/2025

Supervised By :Jagrut Upadhyay 08/07/2025



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.492 min Scan# 1581

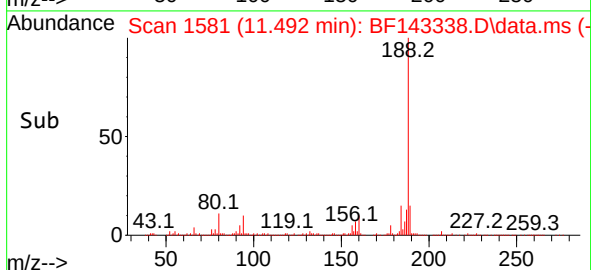
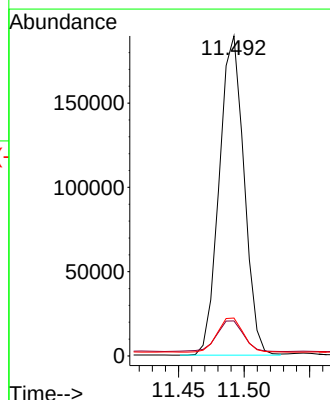
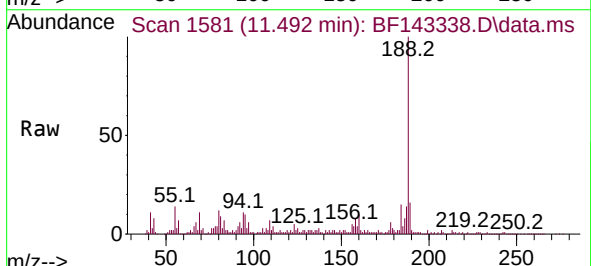
Delta R.T. 0.006 min

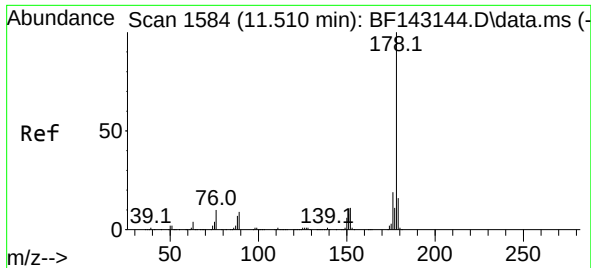
Lab File: BF143338.D

Acq: 06 Aug 2025 19:09

Tgt Ion:188 Resp: 248917

Ion	Ratio	Lower	Upper
188	100		
94	11.0	8.3	12.5
80	11.8	9.0	13.6





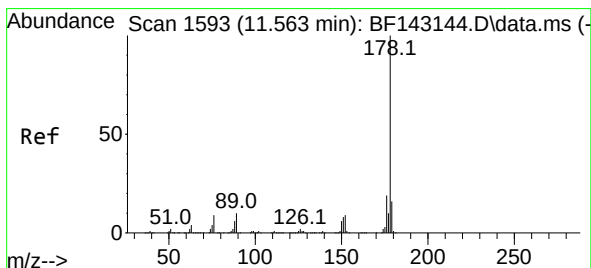
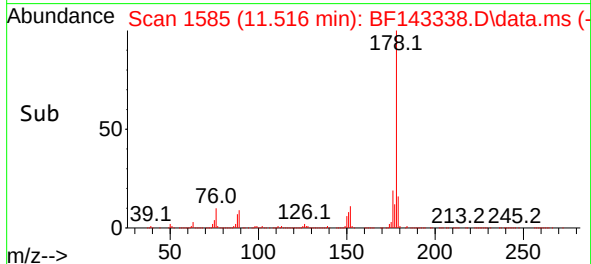
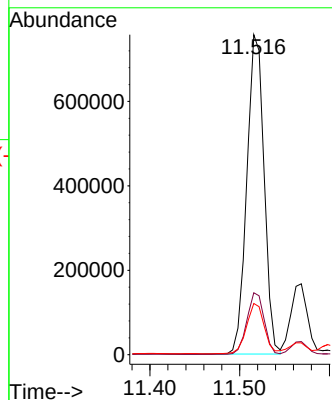
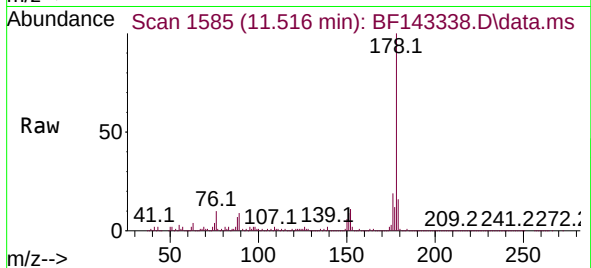
#71
Phenanthrene
Concen: 76.394 ng
RT: 11.516 min Scan# 11584
Delta R.T. 0.006 min
Lab File: BF143338.D
Acq: 06 Aug 2025 19:09

Instrument :
BNA_F
ClientSampleId :
224

Tgt Ion:178 Resp: 1009678
Ion Ratio Lower Upper
178 100
176 19.3 15.3 22.9
179 16.0 12.5 18.7

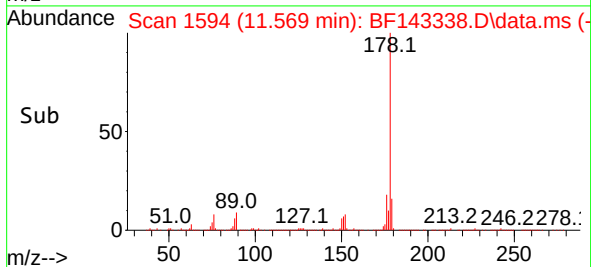
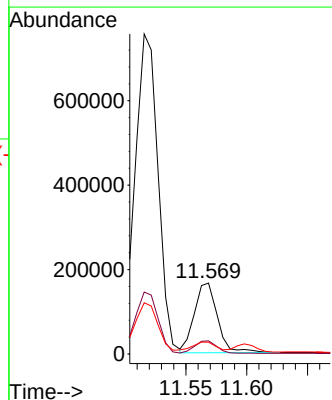
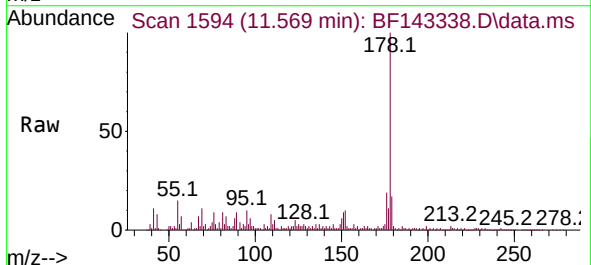
Manual Integrations
APPROVED

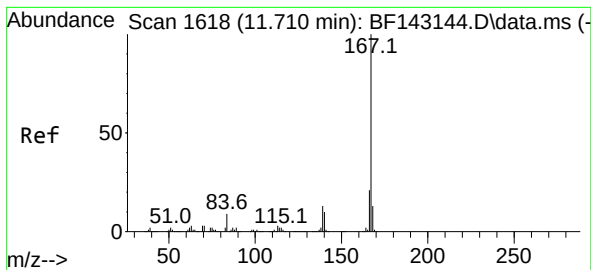
Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025



#72
Anthracene
Concen: 16.222 ng
RT: 11.569 min Scan# 1594
Delta R.T. 0.006 min
Lab File: BF143338.D
Acq: 06 Aug 2025 19:09

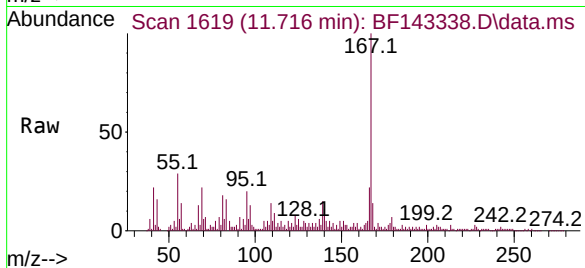
Tgt Ion:178 Resp: 218671
Ion Ratio Lower Upper
178 100
176 18.5 15.0 22.4
179 16.7 12.5 18.7





#73
 Carbazole
 Concen: 10.245 ng
 RT: 11.716 min Scan# 1619
 Delta R.T. 0.006 min
 Lab File: BF143338.D
 Acq: 06 Aug 2025 19:09

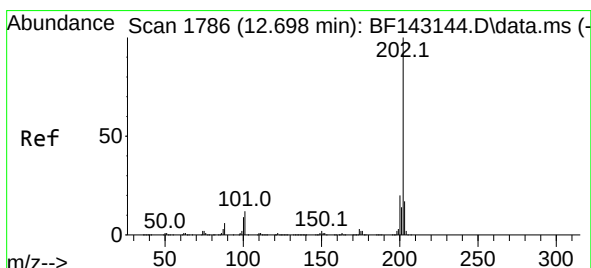
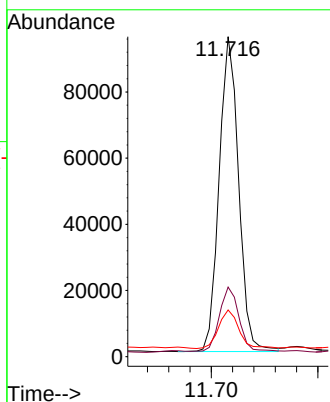
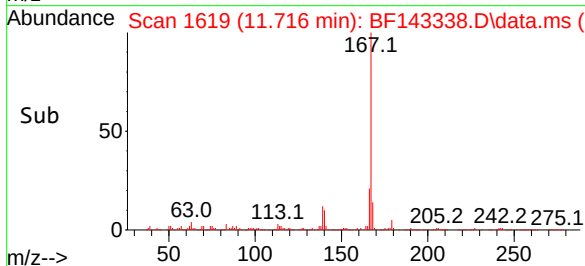
Instrument :
 BNA_F
 ClientSampleId :
 224



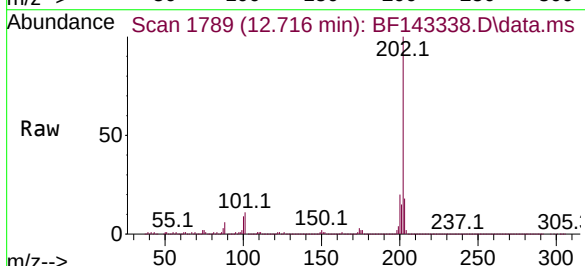
Tgt Ion:167 Resp: 120589
 Ion Ratio Lower Upper
 167 100
 166 21.8 17.0 25.6
 139 14.6 10.0 15.0

Manual Integrations
 APPROVED

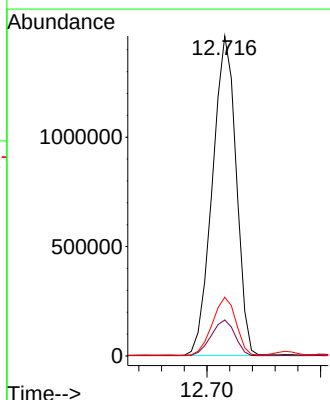
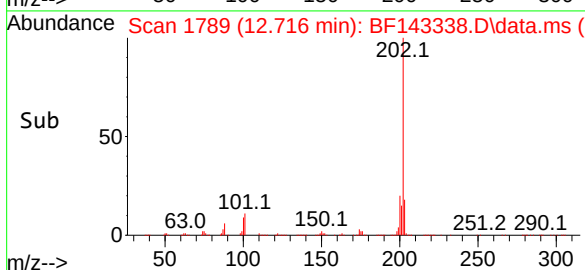
Reviewed By :Rahul Chavli 08/07/2025
 Supervised By :Jagrut Upadhyay 08/07/2025

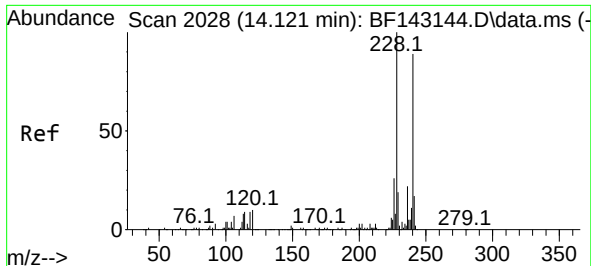


#75
 Fluoranthene
 Concen: 175.017 ng
 RT: 12.716 min Scan# 1789
 Delta R.T. 0.018 min
 Lab File: BF143338.D
 Acq: 06 Aug 2025 19:09



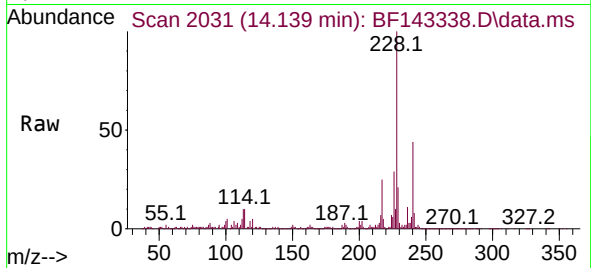
Tgt Ion:202 Resp: 2123170
 Ion Ratio Lower Upper
 202 100
 101 11.3 0.0 31.7
 203 18.4 0.0 37.4





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.139 min Scan# 2028
Delta R.T. 0.018 min
Lab File: BF143338.D
Acq: 06 Aug 2025 19:09

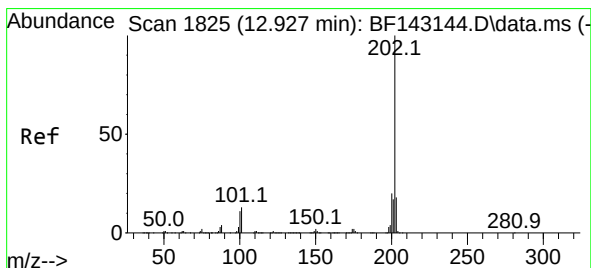
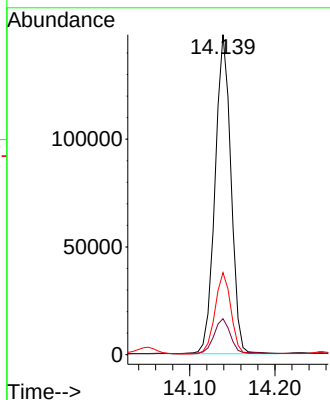
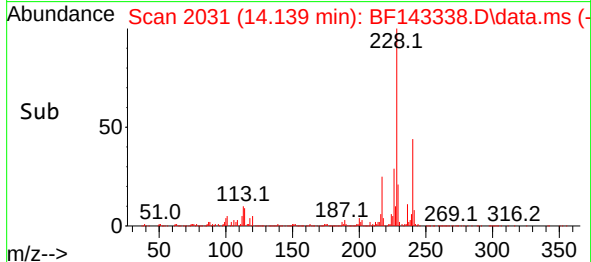
Instrument :
BNA_F
ClientSampleId :
224



Tgt Ion:240 Resp: 19235
Ion Ratio Lower Upper
240 100
120 11.3 9.4 14.2
236 25.6 20.2 30.4

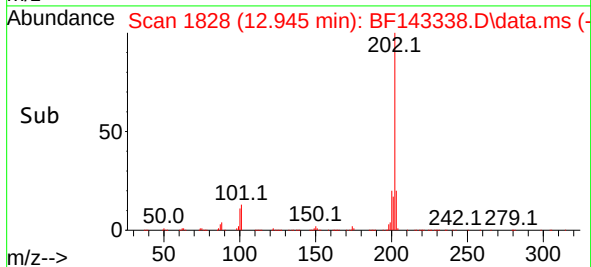
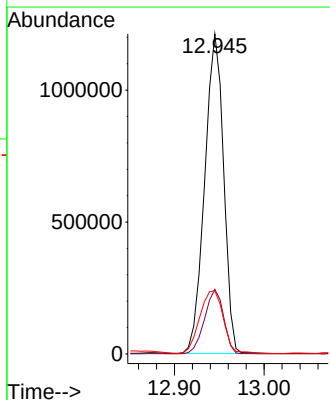
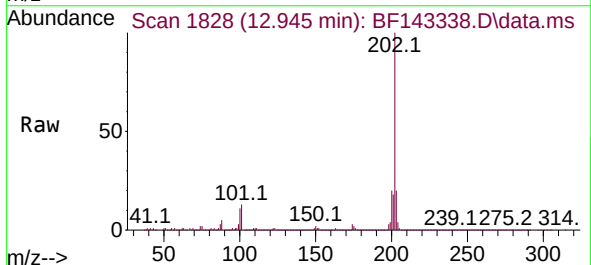
Manual Integrations
APPROVED

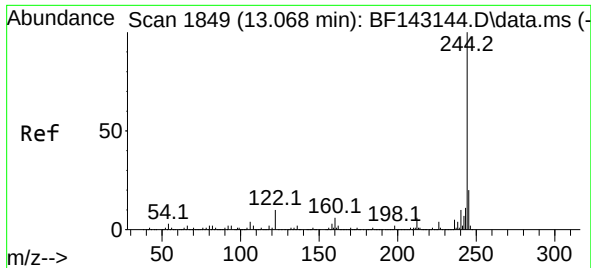
Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025



#78
Pyrene
Concen: 108.035 ng
RT: 12.945 min Scan# 1828
Delta R.T. 0.018 min
Lab File: BF143338.D
Acq: 06 Aug 2025 19:09

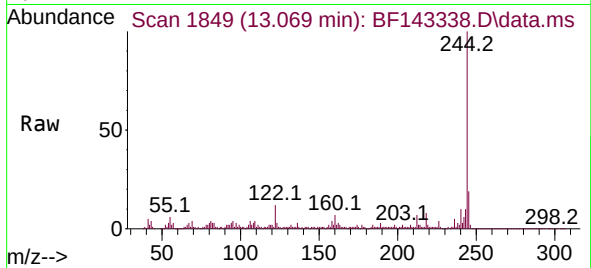
Tgt Ion:202 Resp: 1773511
Ion Ratio Lower Upper
202 100
200 20.2 15.7 23.5
203 19.7 14.2 21.2





#79
 Terphenyl-d14
 Concen: 19.700 ng
 RT: 13.069 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: BF143338.D
 Acq: 06 Aug 2025 19:09

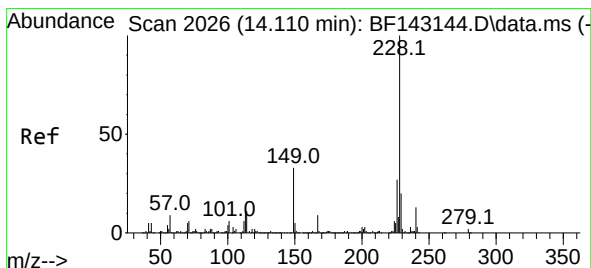
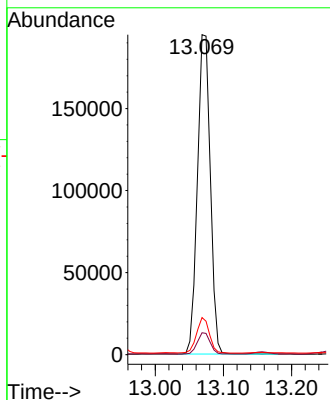
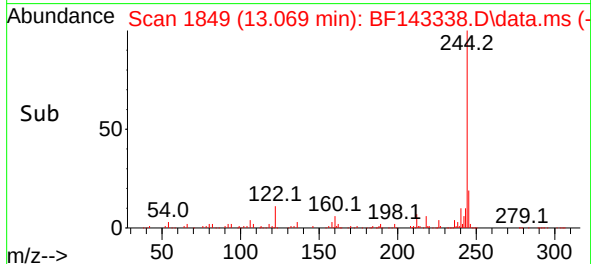
Instrument :
 BNA_F
 ClientSampleId :
 224



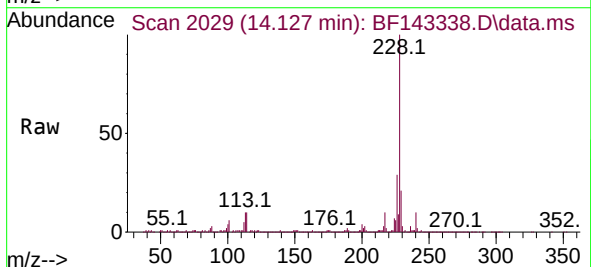
Tgt Ion:244 Resp: 25463
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.2 7.8
 122 11.6 8.2 12.2

Manual Integrations
 APPROVED

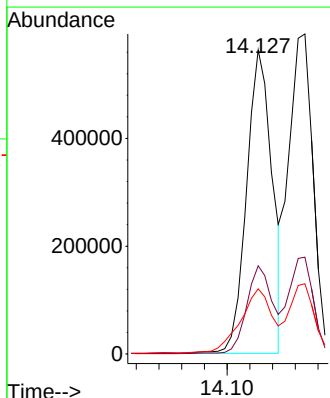
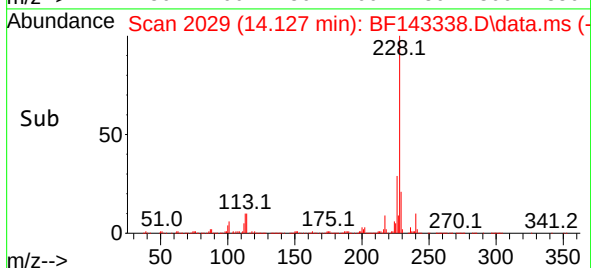
Reviewed By :Rahul Chavli 08/07/2025
 Supervised By :Jagrut Upadhyay 08/07/2025

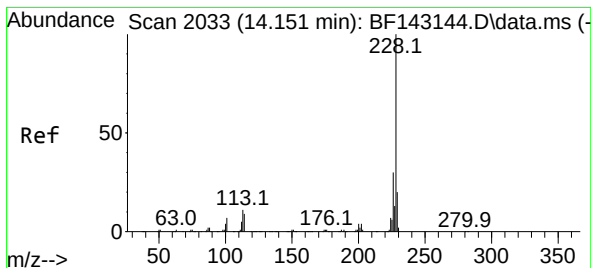


#81
 Benzo(a)anthracene
 Concen: 68.265 ng
 RT: 14.127 min Scan# 2029
 Delta R.T. 0.018 min
 Lab File: BF143338.D
 Acq: 06 Aug 2025 19:09



Tgt Ion:228 Resp: 879114
 Ion Ratio Lower Upper
 228 100
 226 29.0 21.7 32.5
 229 21.4 15.8 23.6





#83

Chrysene

Concen: 75.574 ng

RT: 14.168 min Scan# 2033

Delta R.T. 0.018 min

Lab File: BF143338.D

Acq: 06 Aug 2025 19:09

Instrument :

BNA_F

ClientSampleId :

224

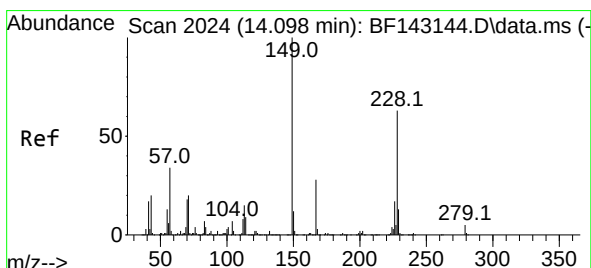
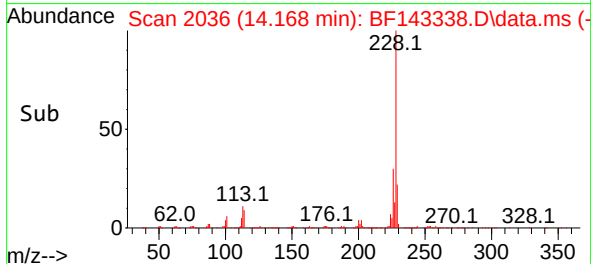
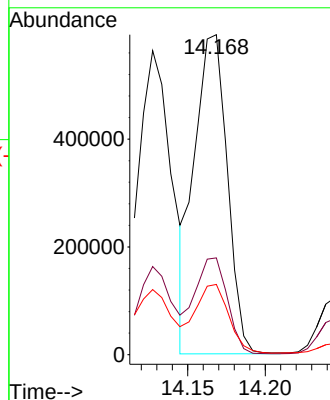
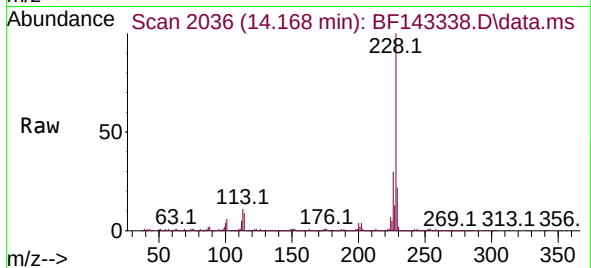
Tgt Ion:228 Resp: 875025
 Ion Ratio Lower Upper
 228 100
 226 30.2 23.8 35.8
 229 22.0 15.6 23.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/07/2025

Supervised By :Jagrut Upadhyay 08/07/2025



#84

Bis(2-ethylhexyl)phthalate

Concen: 4.189 ng

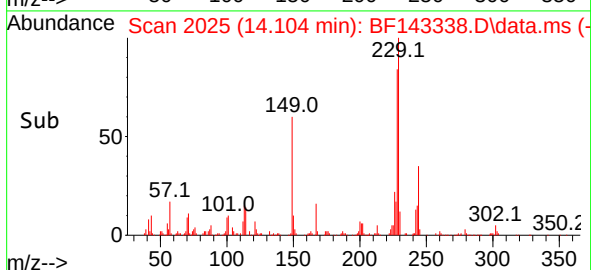
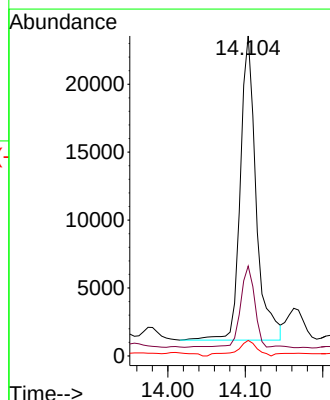
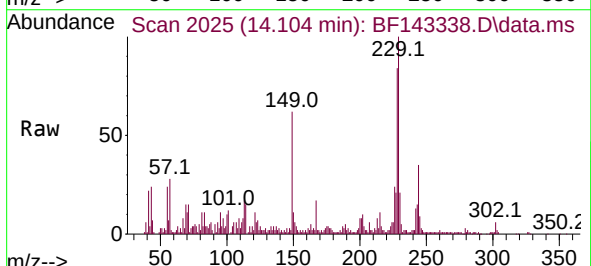
RT: 14.104 min Scan# 2025

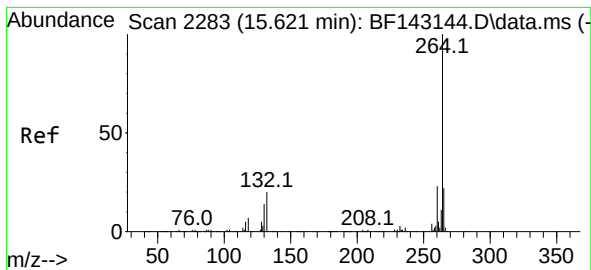
Delta R.T. 0.006 min

Lab File: BF143338.D

Acq: 06 Aug 2025 19:09

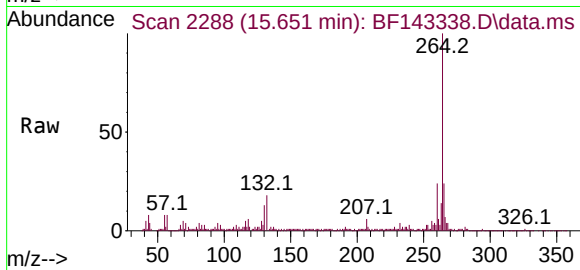
Tgt Ion:149 Resp: 31870
 Ion Ratio Lower Upper
 149 100
 167 28.1 22.3 33.5
 279 4.8 3.6 5.4





#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.651 min Scan# 21
 Delta R.T. 0.029 min
 Lab File: BF143338.D
 Acq: 06 Aug 2025 19:09

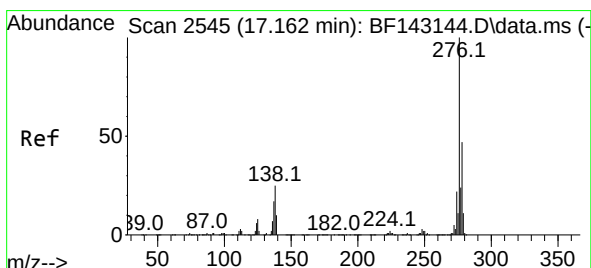
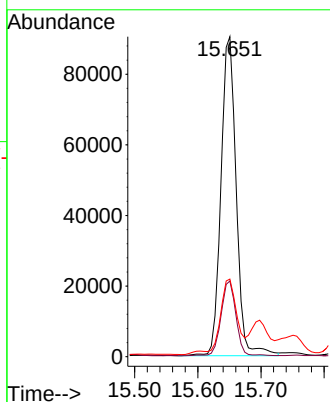
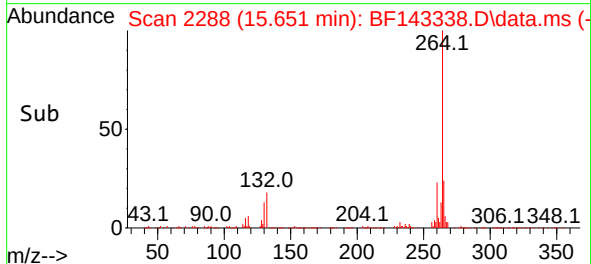
Instrument :
 BNA_F
 ClientSampleId :
 224



Tgt Ion:264 Resp: 15196
 Ion Ratio Lower Upper
 264 100
 260 23.7 18.5 27.7
 265 24.2 17.4 26.2

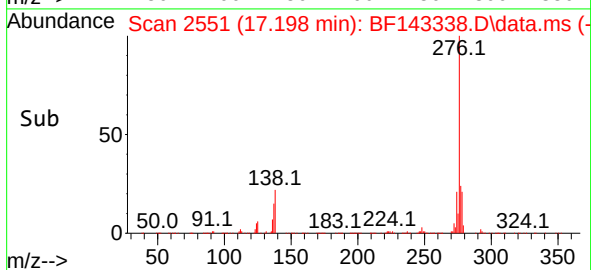
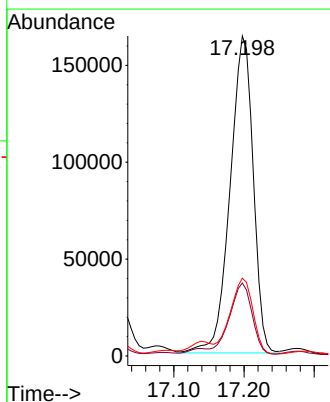
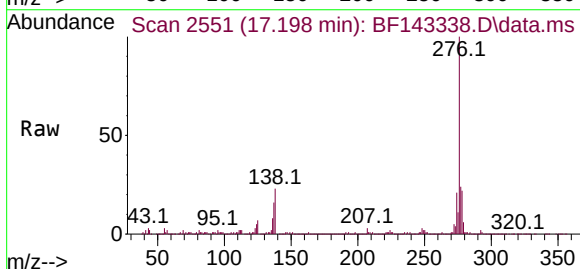
Manual Integrations
 APPROVED

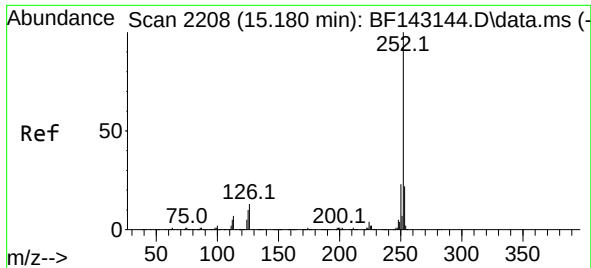
Reviewed By :Rahul Chavli 08/07/2025
 Supervised By :Jagrut Upadhyay 08/07/2025



#87
 Indeno(1,2,3-cd)pyrene
 Concen: 34.926 ng m
 RT: 17.198 min Scan# 2551
 Delta R.T. 0.035 min
 Lab File: BF143338.D
 Acq: 06 Aug 2025 19:09

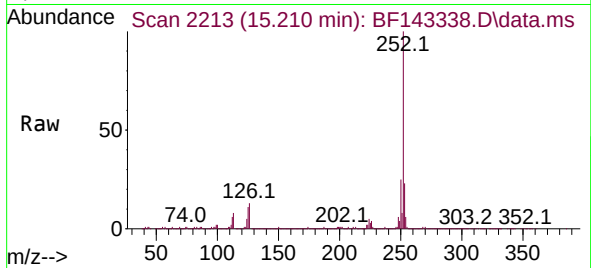
Tgt Ion:276 Resp: 374257
 Ion Ratio Lower Upper
 276 100
 138 4.2 21.8 32.6#
 277 4.5 20.0 30.0#





#88
Benzo(b)fluoranthene
Concen: 109.982 ng m
RT: 15.210 min Scan# 2110
Delta R.T. 0.029 min
Lab File: BF143338.D
Acq: 06 Aug 2025 19:09

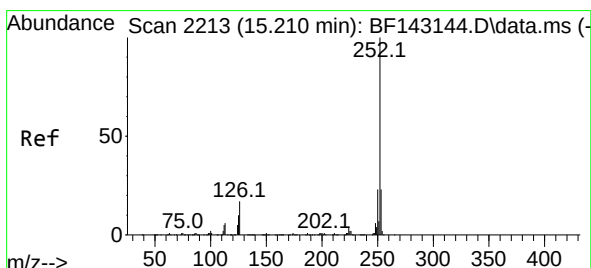
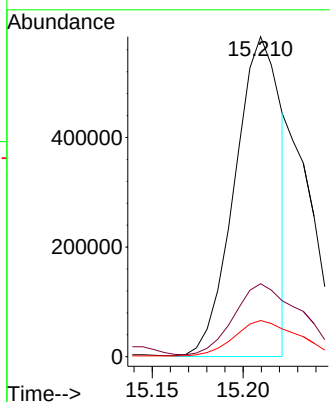
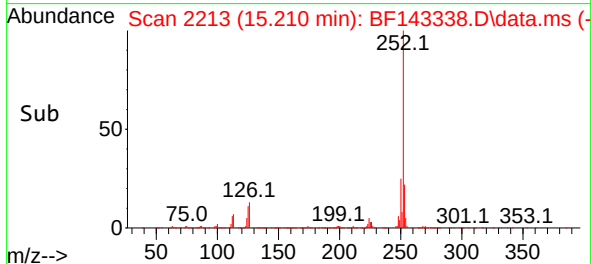
Instrument :
BNA_F
ClientSampleId :
224



Tgt Ion:252 Resp: 1021040
Ion Ratio Lower Upper
252 100
253 22.8 17.5 26.3
125 11.3 8.0 12.0

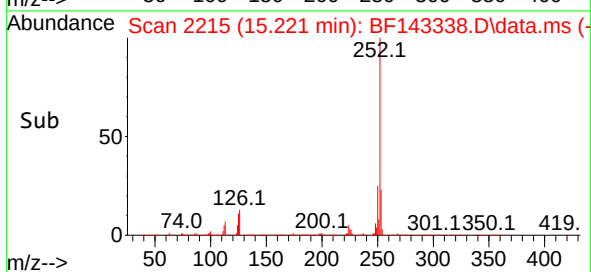
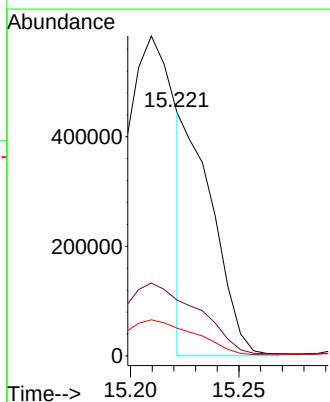
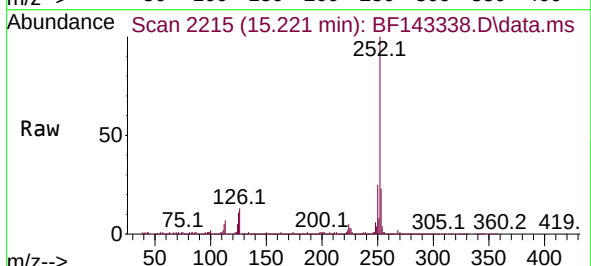
Manual Integrations
APPROVED

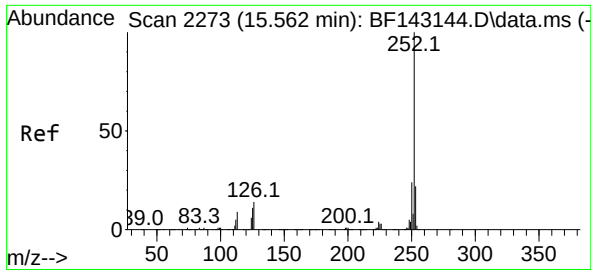
Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025



#89
Benzo(k)fluoranthene
Concen: 50.632 ng m
RT: 15.221 min Scan# 2215
Delta R.T. 0.012 min
Lab File: BF143338.D
Acq: 06 Aug 2025 19:09

Tgt Ion:252 Resp: 419453
Ion Ratio Lower Upper
252 100
253 23.0 17.8 26.6
125 11.4 8.1 12.1





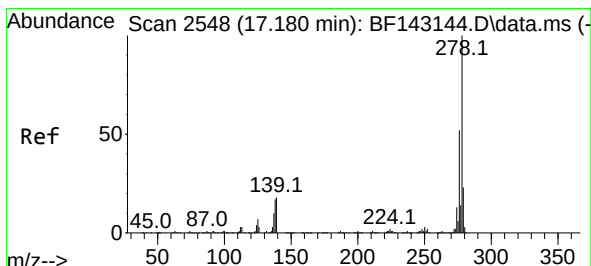
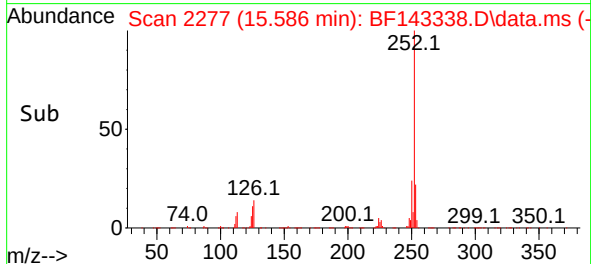
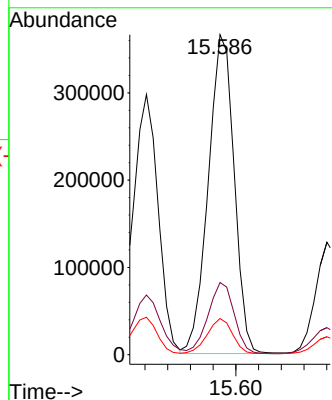
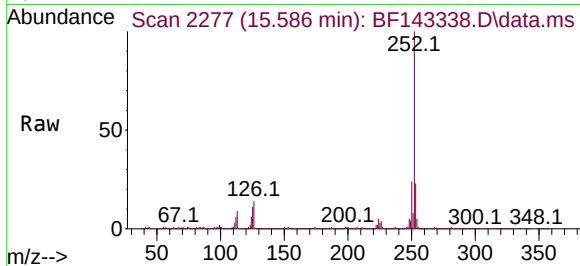
#90
Benzo(a)pyrene
Concen: 67.689 ng
RT: 15.586 min Scan# 21
Delta R.T. 0.024 min
Lab File: BF143338.D
Acq: 06 Aug 2025 19:09

Instrument :
BNA_F
ClientSampleId :
224

Tgt Ion:252 Resp: 57897
Ion Ratio Lower Upper
252 100
253 22.5 17.3 25.9
125 11.3 8.6 13.0

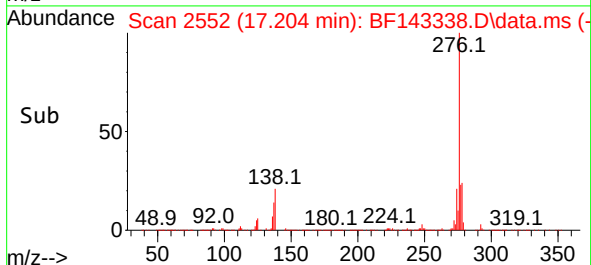
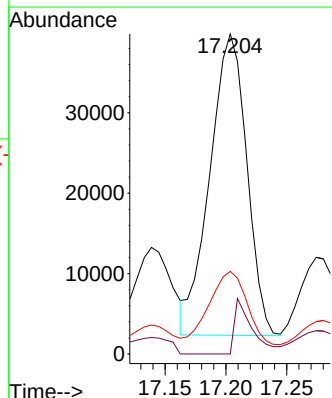
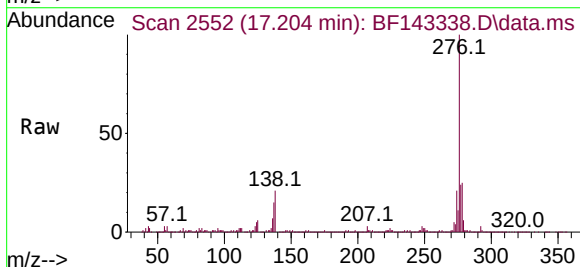
Manual Integrations
APPROVED

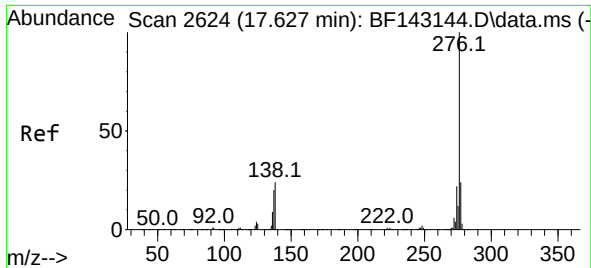
Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025



#91
Dibenzo(a,h)anthracene
Concen: 9.065 ng m
RT: 17.204 min Scan# 2552
Delta R.T. 0.024 min
Lab File: BF143338.D
Acq: 06 Aug 2025 19:09

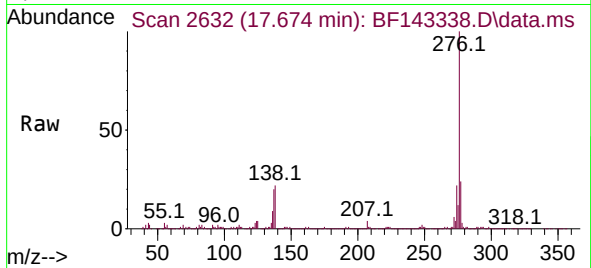
Tgt Ion:278 Resp: 79066
Ion Ratio Lower Upper
278 100
139 0.0 14.1 21.1#
279 25.8 18.6 28.0





#92
 Benzo(g,h,i)perylene
 Concen: 43.322 ng
 RT: 17.674 min Scan# 20
 Delta R.T. 0.047 min
 Lab File: BF143338.D
 Acq: 06 Aug 2025 19:09

Instrument :
 BNA_F
 ClientSampleId :
 224



Tgt Ion:276 Resp: 365500
 Ion Ratio Lower Upper
 276 100
 277 23.8 19.1 28.7
 138 22.4 18.9 28.3

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 08/07/2025
 Supervised By :Jagrut Upadhyay 08/07/2025

