

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080625\
 Data File : BF143339.D
 Acq On : 06 Aug 2025 19:38
 Operator : RC/JU
 Sample : Q2774-03 2X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 256

Manual Integrations
 APPROVED

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

Quant Time: Aug 07 01:01:23 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	85351	20.000	ng	0.00
21) Naphthalene-d8	8.245	136	300473	20.000	ng	0.00
39) Acenaphthene-d10	9.998	164	150406	20.000	ng	0.00
64) Phenanthrene-d10	11.492	188	216871	20.000	ng	# 0.00
76) Chrysene-d12	14.139	240	222967	20.000	ng	0.02
86) Perylene-d12	15.645	264	142220	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.593	112	164793	30.554	ng	0.00
7) Phenol-d6	6.587	99	182462	26.877	ng	0.00
23) Nitrobenzene-d5	7.516	82	125212	20.772	ng	0.00
42) 2,4,6-Tribromophenol	10.792	330	38286	24.641	ng	0.00
45) 2-Fluorobiphenyl	9.316	172	226766	20.620	ng	0.00
79) Terphenyl-d14	13.075	244	213757	14.266	ng	0.00
Target Compounds						Qvalue
58) Fluorene	10.545	166	20474	2.136	ng	# 88
71) Phenanthrene	11.516	178	475681	41.309	ng	98
72) Anthracene	11.569	178	77805m	6.625	ng	
73) Carbazole	11.722	167	68018	6.633	ng	# 85
75) Fluoranthene	12.716	202	1370641	129.680	ng	99
78) Pyrene	12.945	202	1242270	65.283	ng	98
81) Benzo(a)anthracene	14.127	228	698435	46.788	ng	97
83) Chrysene	14.163	228	678280	50.537	ng	98
84) Bis(2-ethylhexyl)phtha...	14.104	149	22105	2.506	ng	94
87) Indeno(1,2,3-cd)pyrene	17.198	276	240964m	24.028	ng	
88) Benzo(b)fluoranthene	15.204	252	750331m	86.361	ng	
89) Benzo(k)fluoranthene	15.221	252	230138m	29.684	ng	
90) Benzo(a)pyrene	15.586	252	387409	48.396	ng	99
91) Dibenzo(a,h)anthracene	17.204	278	49584m	6.075	ng	
92) Benzo(g,h,i)perylene	17.668	276	251550	31.859	ng	98

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

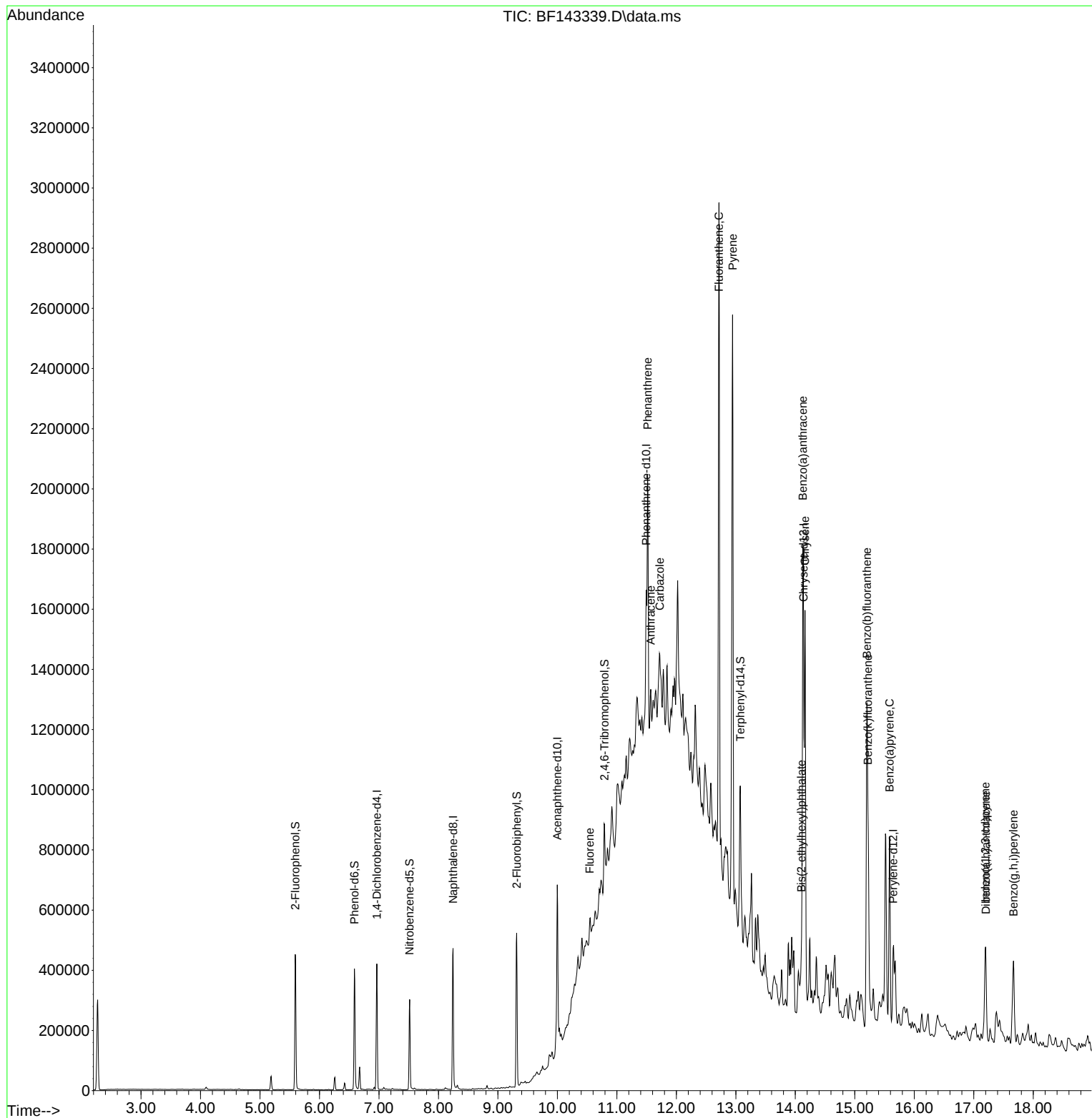
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080625\
Data File : BF143339.D
Acq On : 06 Aug 2025 19:38
Operator : RC/JU
Sample : Q2774-03 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

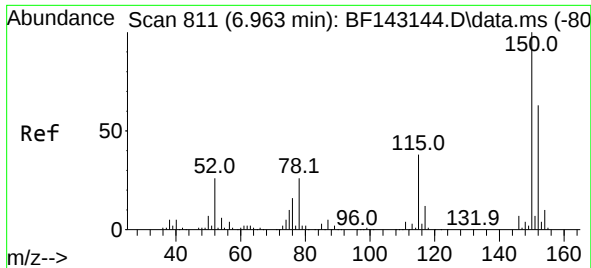
Instrument :
BNA_F
ClientSampleId :
256

Manual Integrations
APPROVED

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

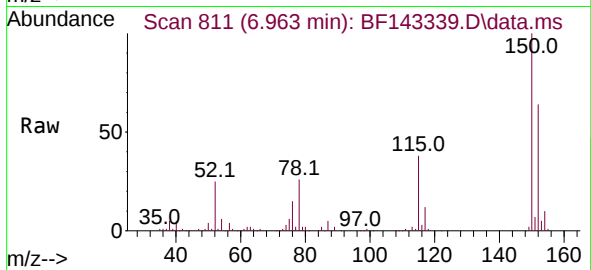
Quant Time: Aug 07 01:01:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 17 15:14:05 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.963 min Scan# 811
Delta R.T. 0.000 min
Lab File: BF143339.D
Acq: 06 Aug 2025 19:38

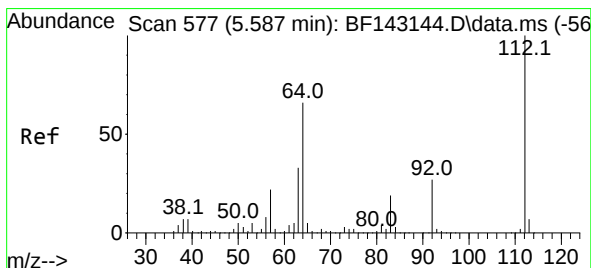
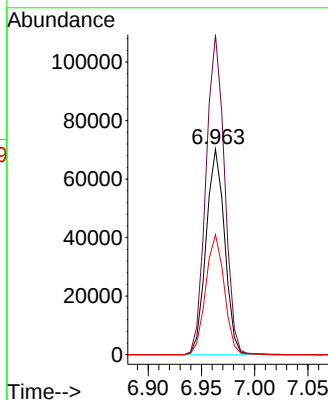
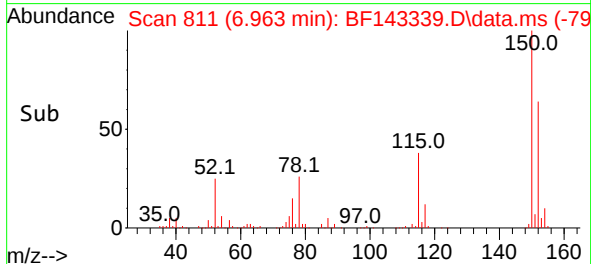
Instrument :
BNA_F
ClientSampleId :
256



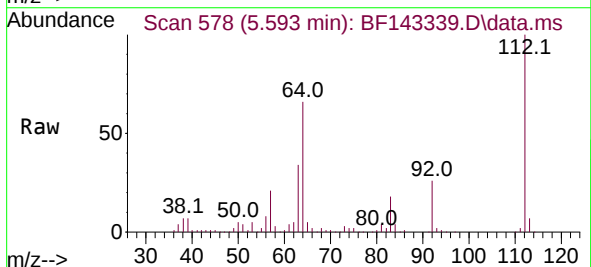
Tgt Ion:152 Resp: 8535
Ion Ratio Lower Upper
152 100
150 155.8 128.2 192.4
115 58.5 47.9 71.9

Manual Integrations
APPROVED

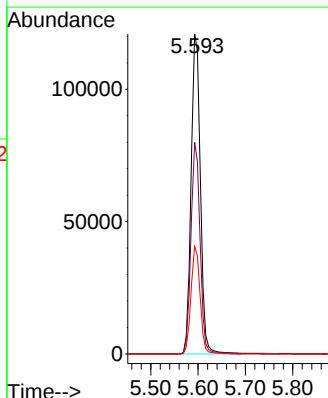
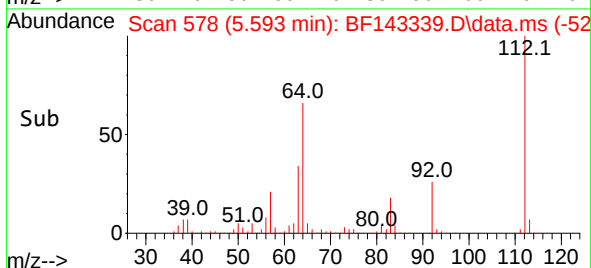
Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025

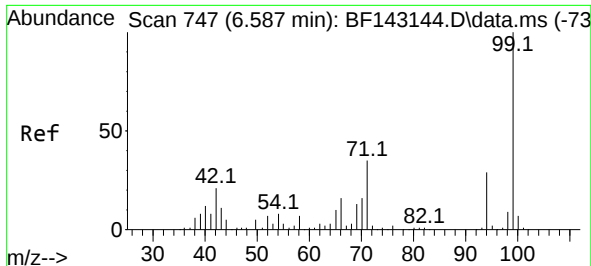


#5
2-Fluorophenol
Concen: 30.554 ng
RT: 5.593 min Scan# 578
Delta R.T. 0.006 min
Lab File: BF143339.D
Acq: 06 Aug 2025 19:38



Tgt Ion:112 Resp: 164793
Ion Ratio Lower Upper
112 100
64 66.1 53.1 79.7
63 33.6 26.6 40.0





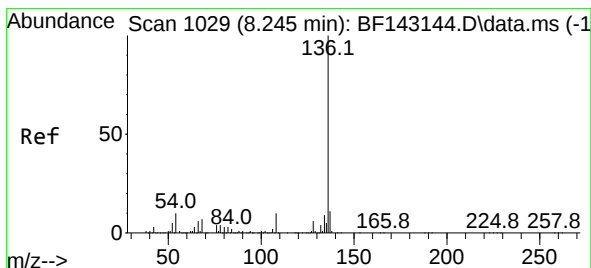
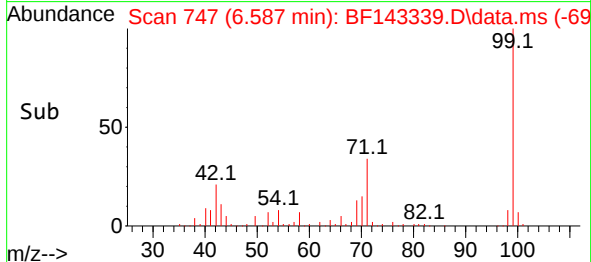
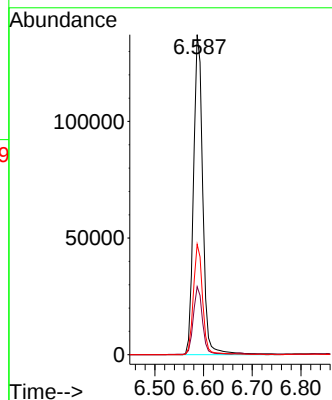
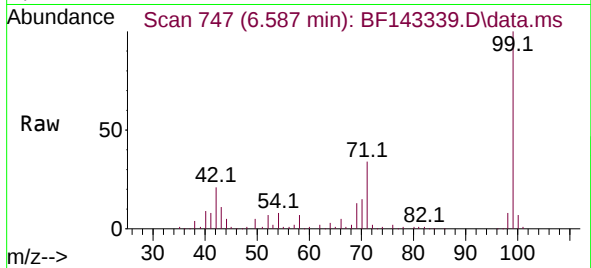
#7
Phenol-d6
Concen: 26.877 ng
RT: 6.587 min Scan# 747
Delta R.T. 0.000 min
Lab File: BF143339.D
Acq: 06 Aug 2025 19:38

Instrument :
BNA_F
ClientSampleId :
256

Tgt Ion: 99 Resp: 182462
Ion Ratio Lower Upper
99 100
42 21.3 17.0 25.6
71 34.5 27.7 41.5

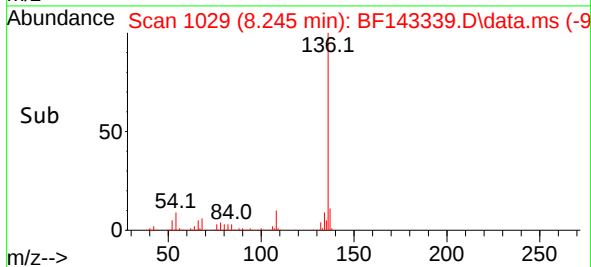
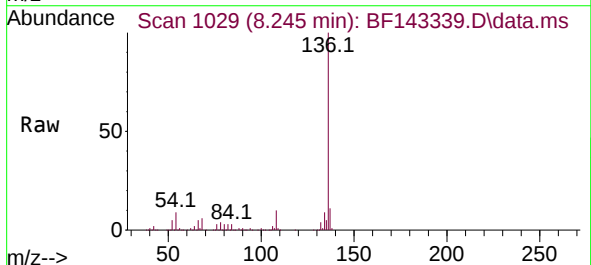
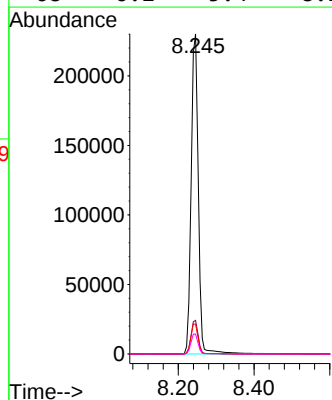
Manual Integrations
APPROVED

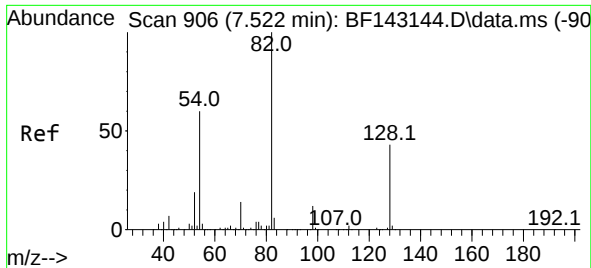
Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.245 min Scan# 1029
Delta R.T. 0.000 min
Lab File: BF143339.D
Acq: 06 Aug 2025 19:38

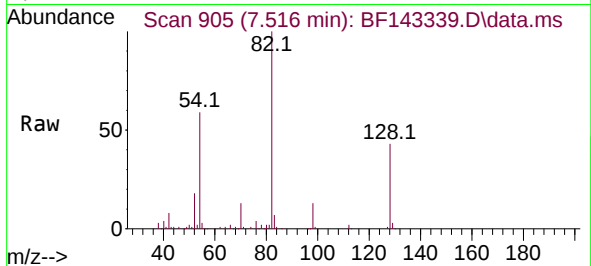
Tgt Ion:136 Resp: 300473
Ion Ratio Lower Upper
136 100
137 10.5 8.6 13.0
54 9.3 8.2 12.2
68 6.2 5.4 8.2





#23
Nitrobenzene-d5
Concen: 20.772 ng
RT: 7.516 min Scan# 906
Delta R.T. -0.006 min
Lab File: BF143339.D
Acq: 06 Aug 2025 19:38

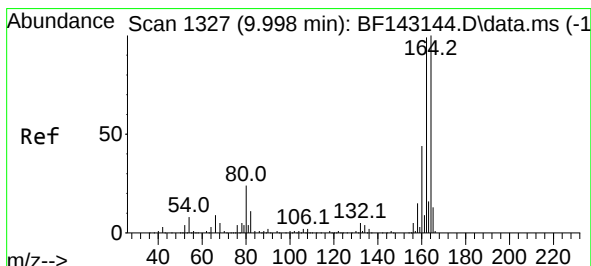
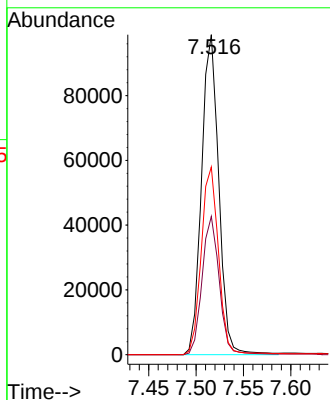
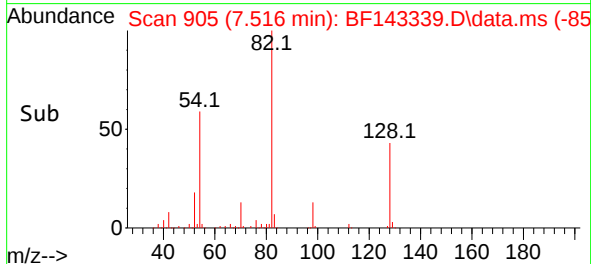
Instrument :
BNA_F
ClientSampleId :
256



Tgt Ion: 82 Resp: 12521
Ion Ratio Lower Upper
82 100
128 43.2 33.6 50.4
54 58.7 47.1 70.7

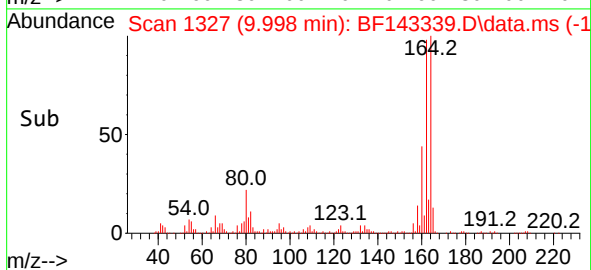
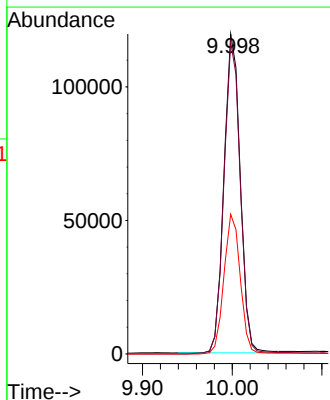
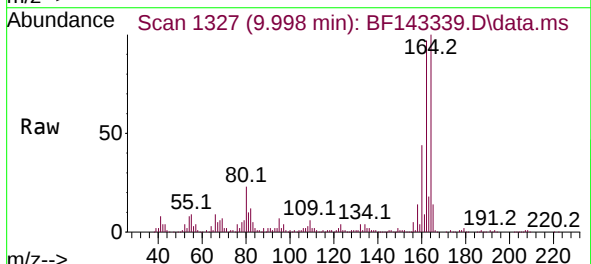
Manual Integrations
APPROVED

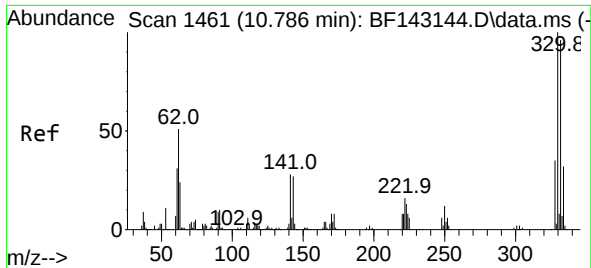
Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.998 min Scan# 1327
Delta R.T. 0.000 min
Lab File: BF143339.D
Acq: 06 Aug 2025 19:38

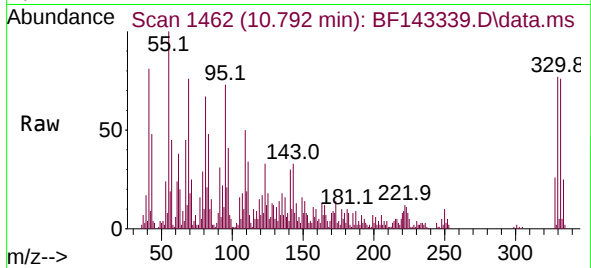
Tgt Ion:164 Resp: 150406
Ion Ratio Lower Upper
164 100
162 97.4 79.0 118.6
160 43.7 35.1 52.7





#42
2,4,6-Tribromophenol
Concen: 24.641 ng
RT: 10.792 min Scan# 1461
Delta R.T. 0.006 min
Lab File: BF143339.D
Acq: 06 Aug 2025 19:38

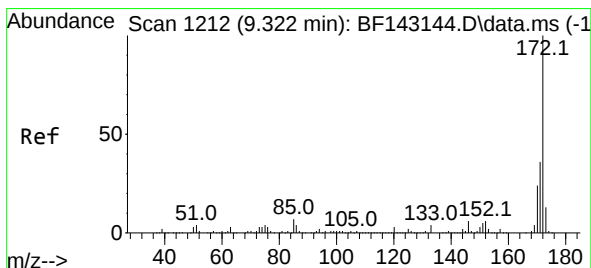
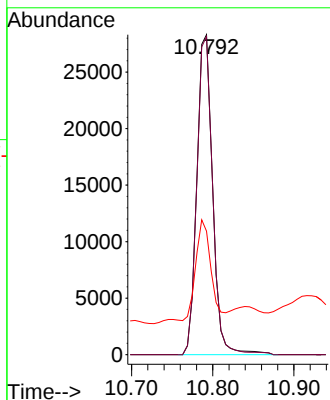
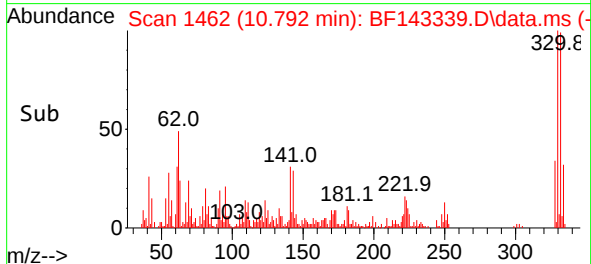
Instrument :
BNA_F
ClientSampleId :
256



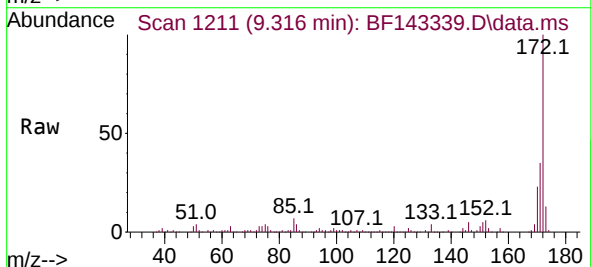
Tgt Ion: 330 Resp: 38280
Ion Ratio Lower Upper
330 100
332 99.2 76.7 115.1
141 30.3 23.3 34.9

Manual Integrations
APPROVED

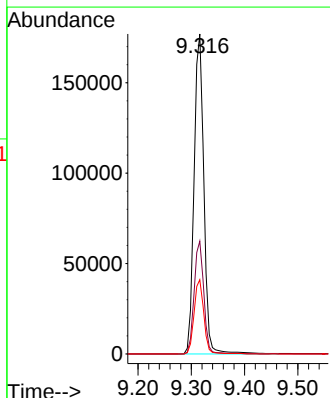
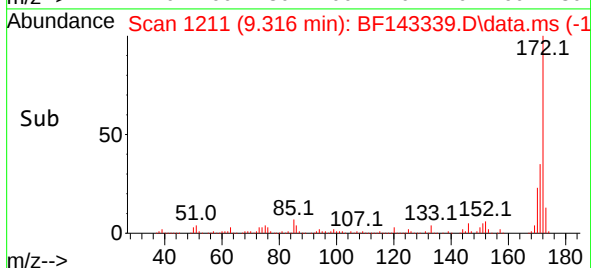
Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025

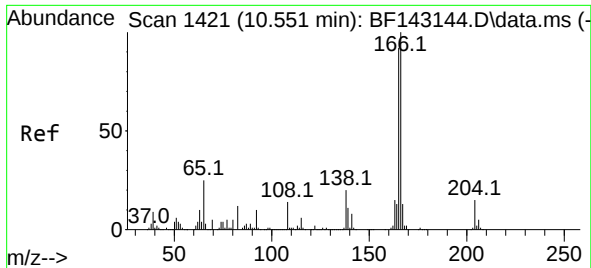


#45
2-Fluorobiphenyl
Concen: 20.620 ng
RT: 9.316 min Scan# 1211
Delta R.T. -0.006 min
Lab File: BF143339.D
Acq: 06 Aug 2025 19:38



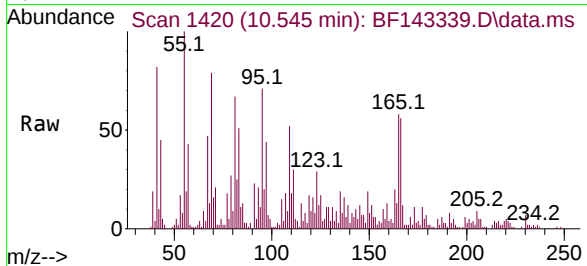
Tgt Ion: 172 Resp: 226766
Ion Ratio Lower Upper
172 100
171 35.2 28.6 42.8
170 23.2 18.8 28.2





#58
Fluorene
Concen: 2.136 ng
RT: 10.545 min Scan# 1421
Delta R.T. -0.006 min
Lab File: BF143339.D
Acq: 06 Aug 2025 19:38

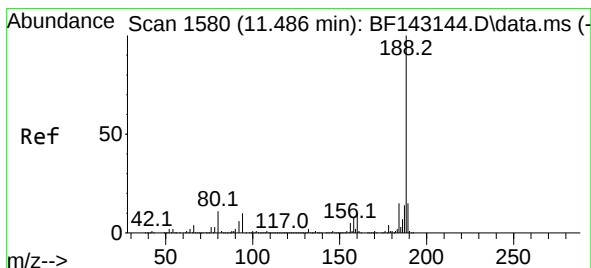
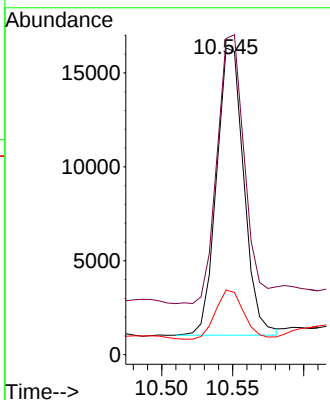
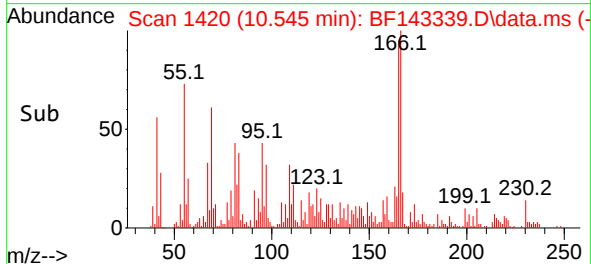
Instrument :
BNA_F
ClientSampleId :
256



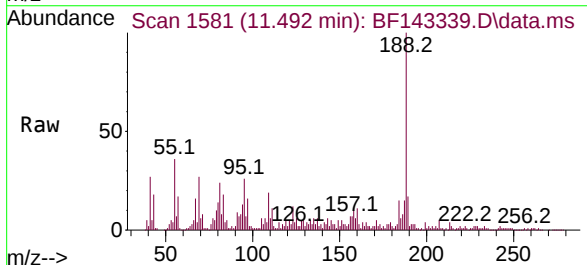
Tgt Ion:166 Resp: 20474
Ion Ratio Lower Upper
166 100
165 103.0 73.7 110.5
167 21.1 10.6 16.0

Manual Integrations
APPROVED

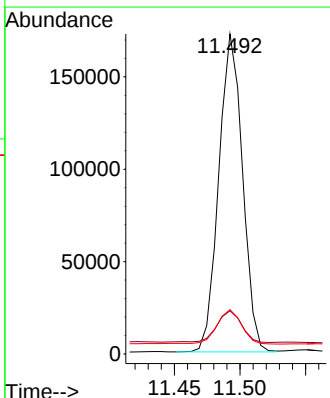
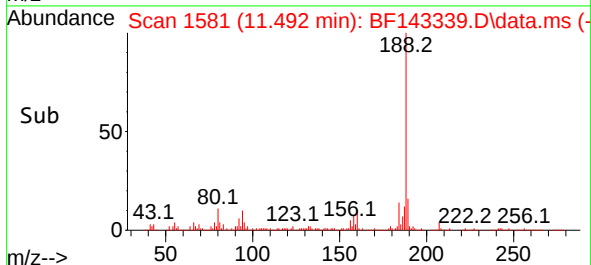
Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025

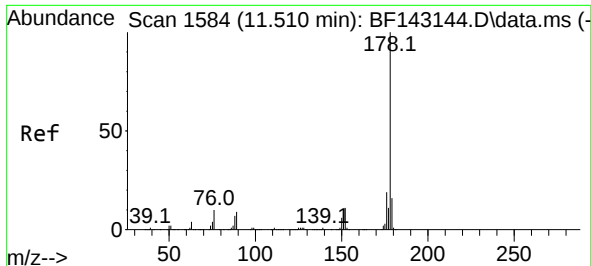


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.492 min Scan# 1581
Delta R.T. 0.006 min
Lab File: BF143339.D
Acq: 06 Aug 2025 19:38



Tgt Ion:188 Resp: 216871
Ion Ratio Lower Upper
188 100
94 13.5 8.3 12.5#
80 13.9 9.0 13.6#





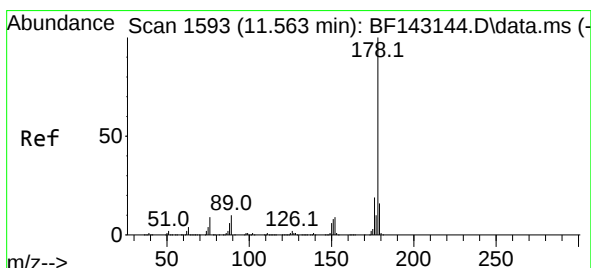
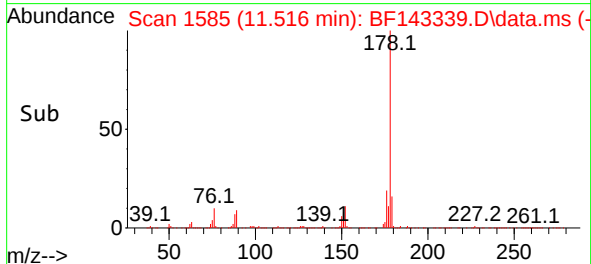
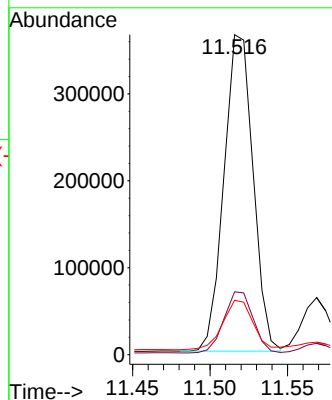
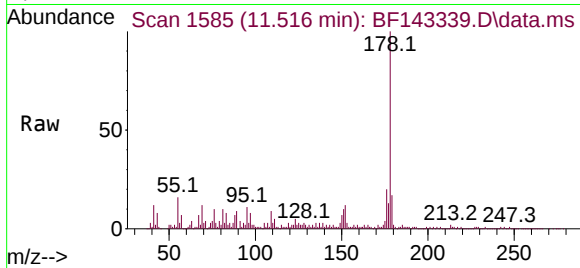
#71
Phenanthrene
Concen: 41.309 ng
RT: 11.516 min Scan# 1156
Delta R.T. 0.006 min
Lab File: BF143339.D
Acq: 06 Aug 2025 19:38

Instrument :
BNA_F
ClientSampleId :
256

Tgt Ion:178 Resp: 47568
Ion Ratio Lower Upper
178 100
176 19.7 15.3 22.9
179 17.0 12.5 18.7

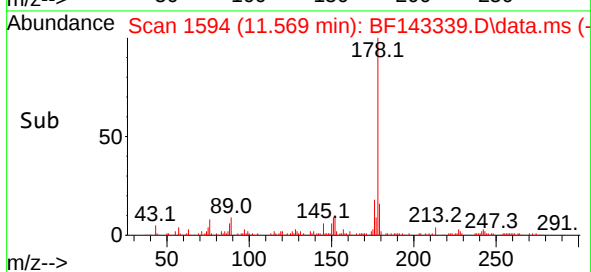
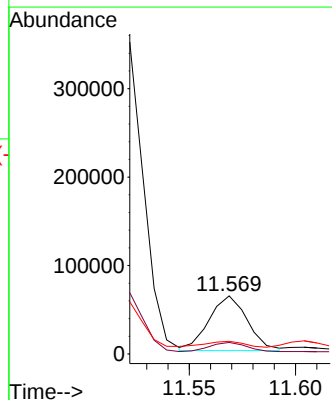
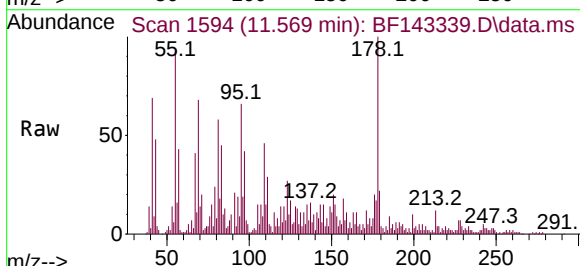
Manual Integrations
APPROVED

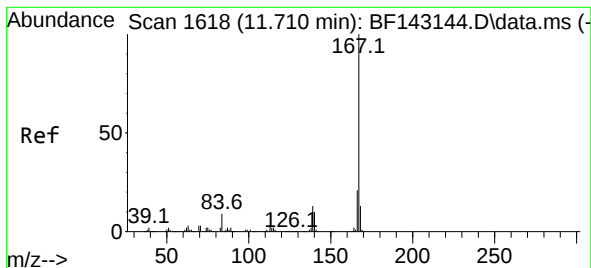
Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025



#72
Anthracene
Concen: 6.625 ng m
RT: 11.569 min Scan# 1594
Delta R.T. 0.006 min
Lab File: BF143339.D
Acq: 06 Aug 2025 19:38

Tgt Ion:178 Resp: 77805
Ion Ratio Lower Upper
178 100
176 19.9 15.0 22.4
179 21.9 12.5 18.7#





#73

Carbazole

Concen: 6.633 ng

RT: 11.722 min Scan# 1620

Delta R.T. 0.012 min

Lab File: BF143339.D

Acq: 06 Aug 2025 19:38

Instrument :

BNA_F

ClientSampleId :

256

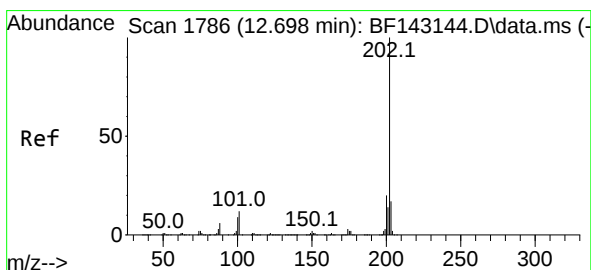
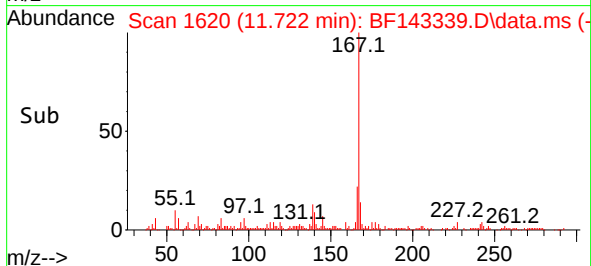
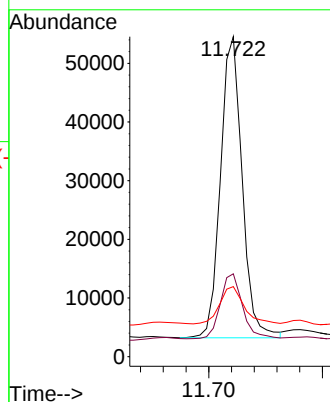
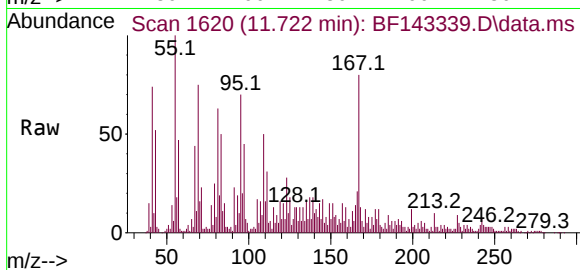
Tgt Ion:167 Resp: 68018
 Ion Ratio Lower Upper
 167 100
 166 25.9 17.0 25.6
 139 21.9 10.0 15.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/07/2025

Supervised By :Jagrut Upadhyay 08/07/2025



#75

Fluoranthene

Concen: 129.680 ng

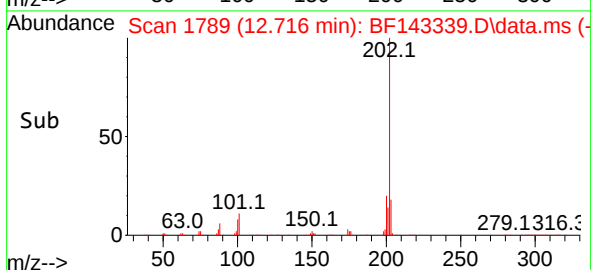
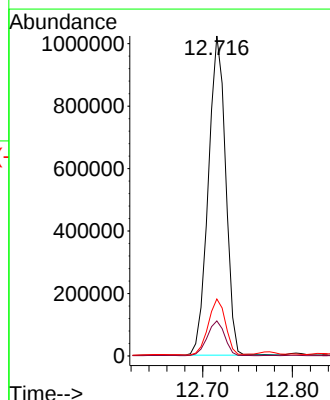
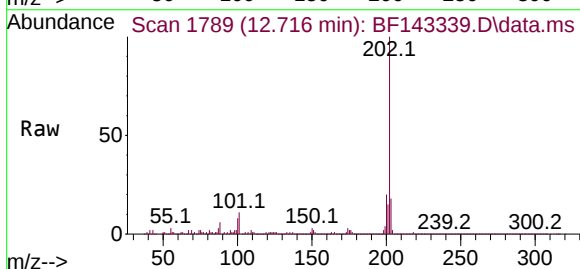
RT: 12.716 min Scan# 1789

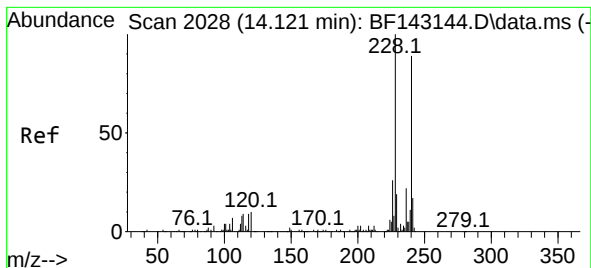
Delta R.T. 0.018 min

Lab File: BF143339.D

Acq: 06 Aug 2025 19:38

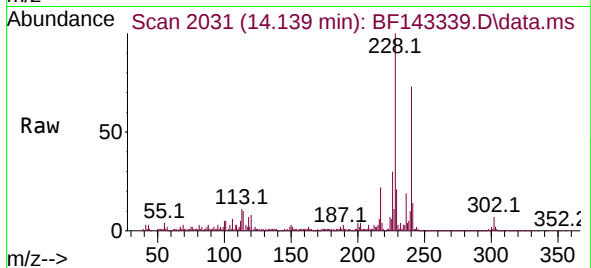
Tgt Ion:202 Resp: 1370641
 Ion Ratio Lower Upper
 202 100
 101 11.0 0.0 31.7
 203 17.8 0.0 37.4





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.139 min Scan# 2028
Delta R.T. 0.018 min
Lab File: BF143339.D
Acq: 06 Aug 2025 19:38

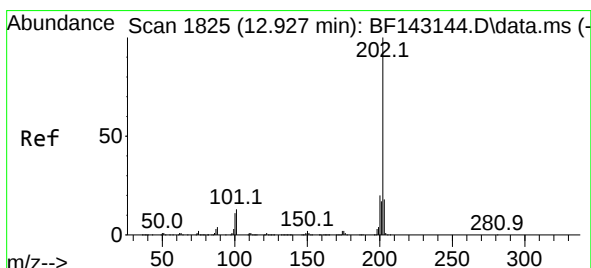
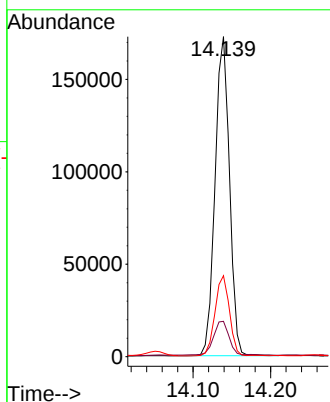
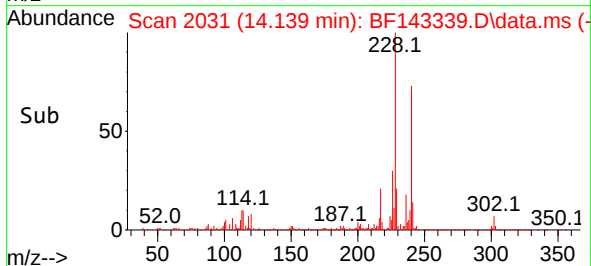
Instrument :
BNA_F
ClientSampleId :
256



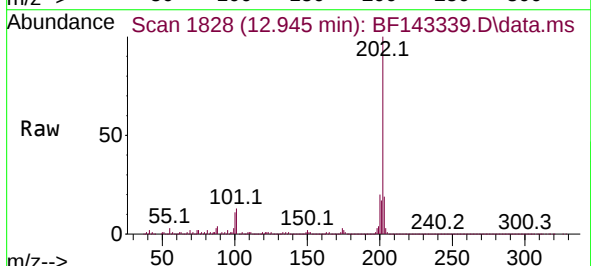
Tgt Ion:240 Resp: 22296
Ion Ratio Lower Upper
240 100
120 11.0 9.4 14.2
236 25.3 20.2 30.4

Manual Integrations
APPROVED

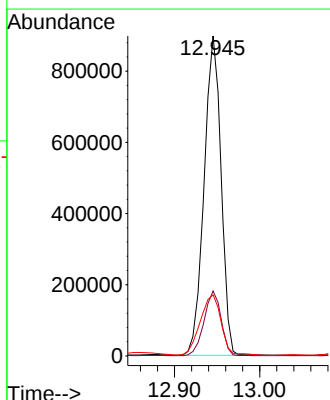
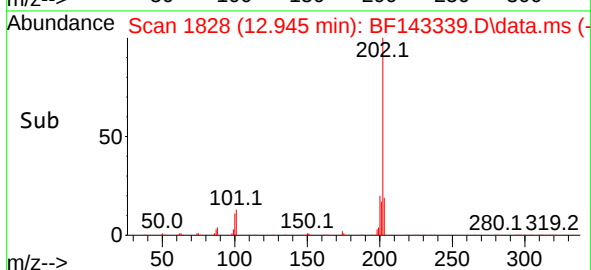
Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025

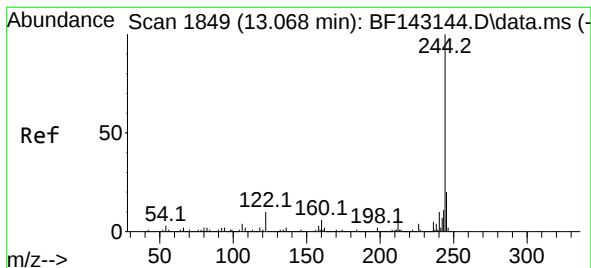


#78
Pyrene
Concen: 65.283 ng
RT: 12.945 min Scan# 1828
Delta R.T. 0.018 min
Lab File: BF143339.D
Acq: 06 Aug 2025 19:38



Tgt Ion:202 Resp: 1242270
Ion Ratio Lower Upper
202 100
200 20.3 15.7 23.5
203 19.1 14.2 21.2





#79

Terphenyl-d14

Concen: 14.266 ng

RT: 13.075 min Scan# 1849

Delta R.T. 0.006 min

Lab File: BF143339.D

Acq: 06 Aug 2025 19:38

Instrument :

BNA_F

ClientSampleId :

256

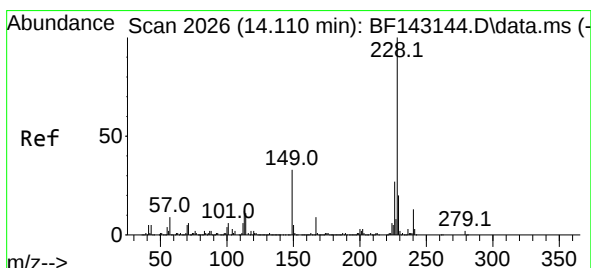
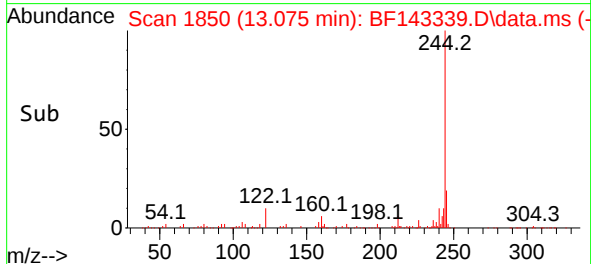
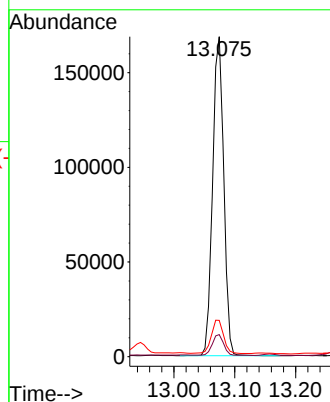
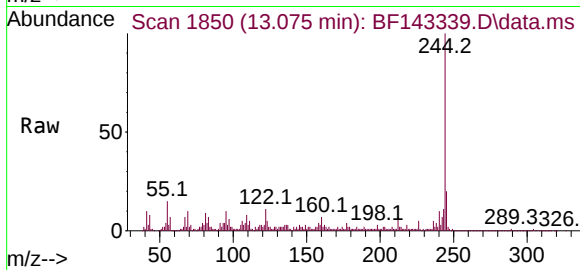
Tgt Ion:244 Resp: 21375
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.2 7.8
 122 11.3 8.2 12.2

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/07/2025

Supervised By :Jagrut Upadhyay 08/07/2025



#81

Benzo(a)anthracene

Concen: 46.788 ng

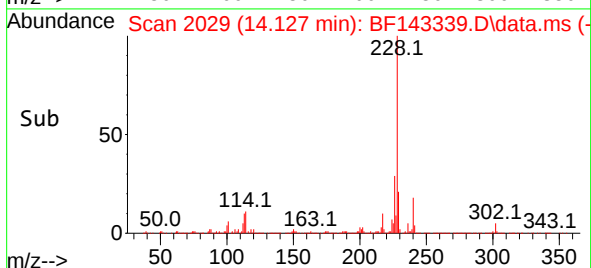
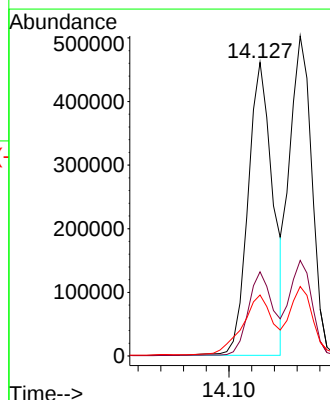
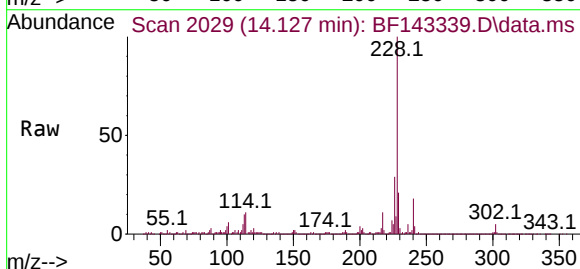
RT: 14.127 min Scan# 2029

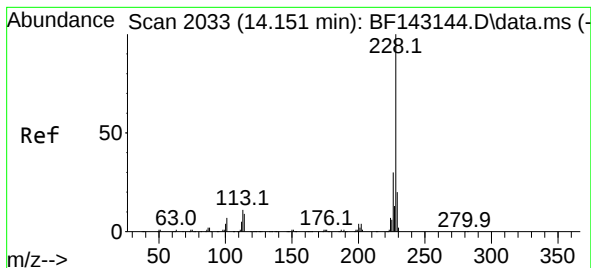
Delta R.T. 0.018 min

Lab File: BF143339.D

Acq: 06 Aug 2025 19:38

Tgt Ion:228 Resp: 698435
 Ion Ratio Lower Upper
 228 100
 226 28.7 21.7 32.5
 229 20.7 15.8 23.6





#83

Chrysene

Concen: 50.537 ng

RT: 14.163 min Scan# 2035

Delta R.T. 0.012 min

Lab File: BF143339.D

Acq: 06 Aug 2025 19:38

Instrument :

BNA_F

ClientSampleId :

256

Tgt Ion:228 Resp: 678280

Ion Ratio Lower Upper

228 100

226 29.8 23.8 35.8

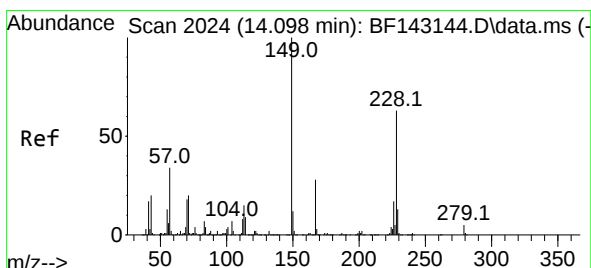
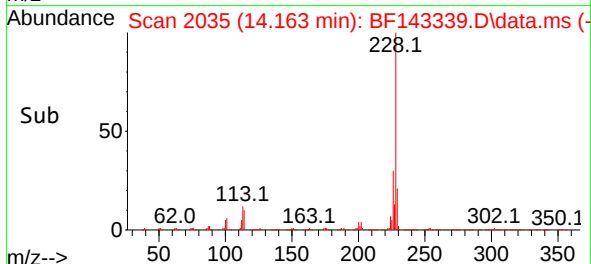
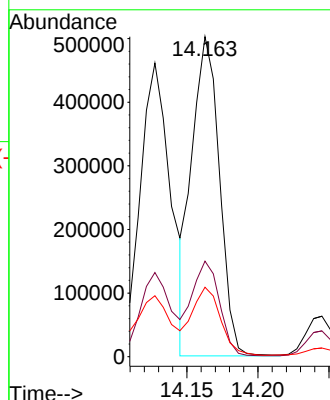
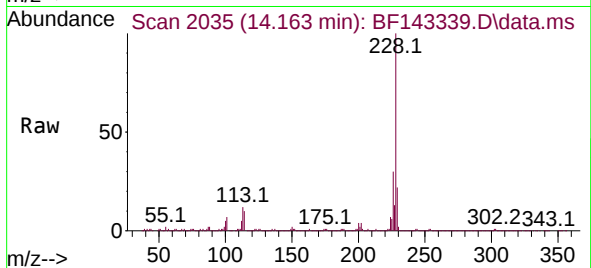
229 21.7 15.6 23.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/07/2025

Supervised By :Jagrut Upadhyay 08/07/2025



#84

Bis(2-ethylhexyl)phthalate

Concen: 2.506 ng

RT: 14.104 min Scan# 2025

Delta R.T. 0.006 min

Lab File: BF143339.D

Acq: 06 Aug 2025 19:38

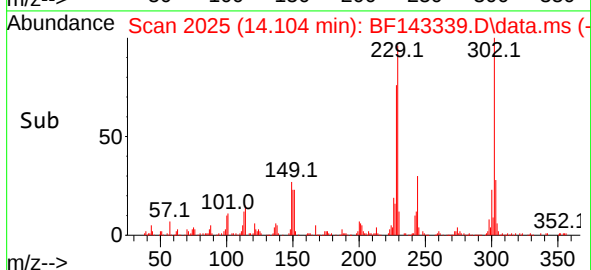
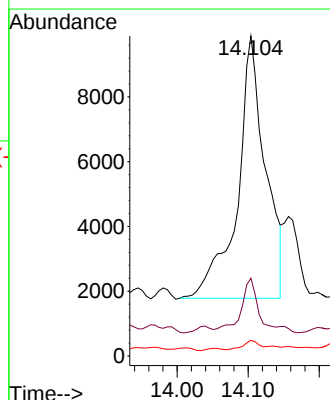
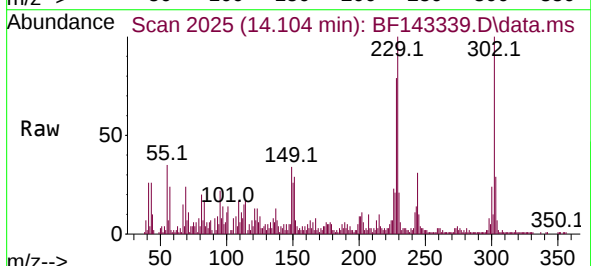
Tgt Ion:149 Resp: 22105

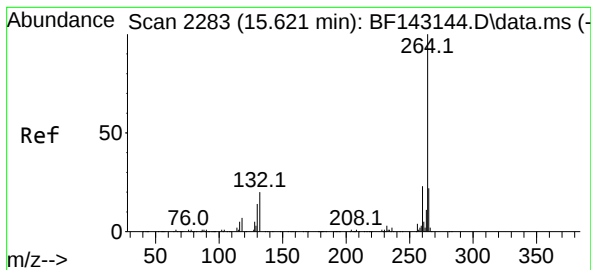
Ion Ratio Lower Upper

149 100

167 24.3 22.3 33.5

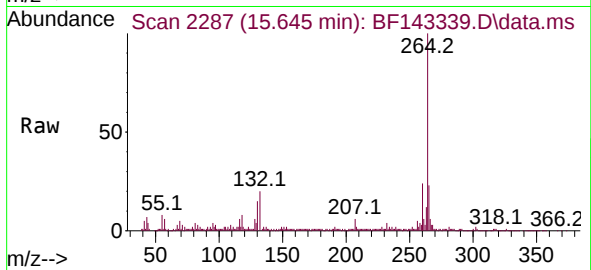
279 4.9 3.6 5.4





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.645 min Scan# 21
Delta R.T. 0.024 min
Lab File: BF143339.D
Acq: 06 Aug 2025 19:38

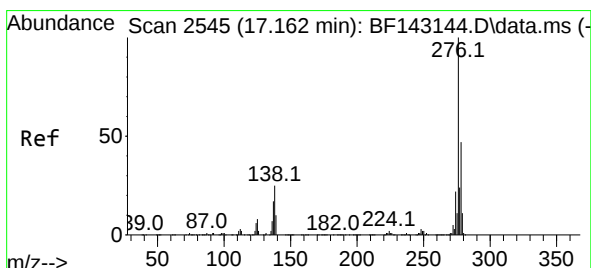
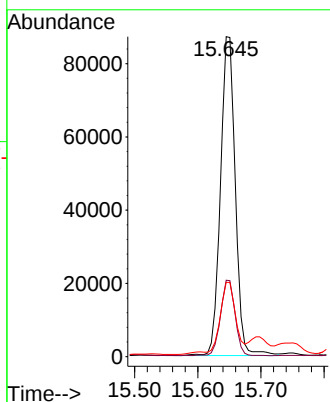
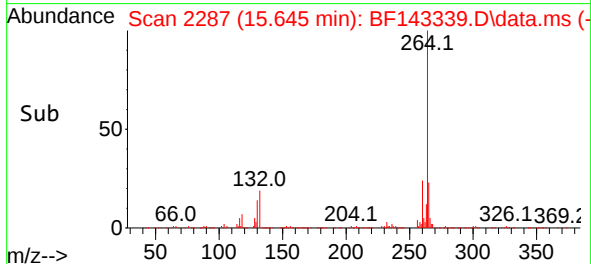
Instrument :
BNA_F
ClientSampleId :
256



Tgt Ion:264 Resp: 142220
Ion Ratio Lower Upper
264 100
260 23.9 18.5 27.7
265 23.2 17.4 26.2

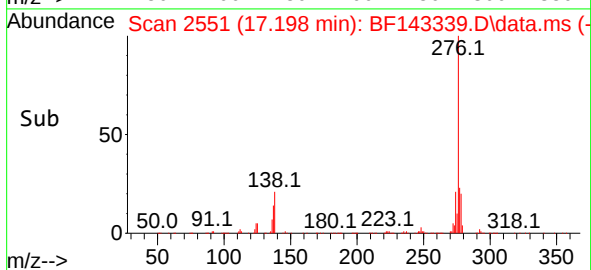
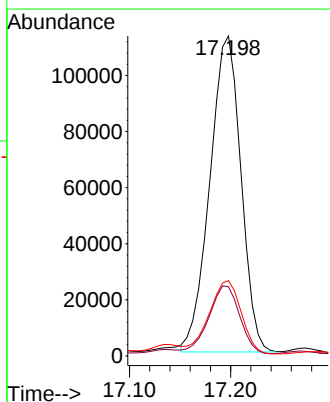
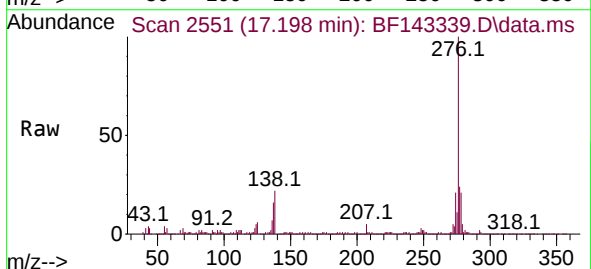
Manual Integrations
APPROVED

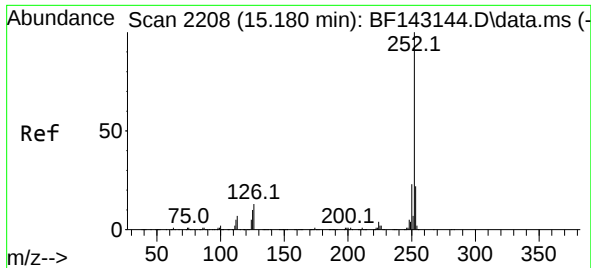
Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025



#87
Indeno(1,2,3-cd)pyrene
Concen: 24.028 ng m
RT: 17.198 min Scan# 2551
Delta R.T. 0.035 min
Lab File: BF143339.D
Acq: 06 Aug 2025 19:38

Tgt Ion:276 Resp: 240964
Ion Ratio Lower Upper
276 100
138 4.5 21.8 32.6#
277 4.3 20.0 30.0#





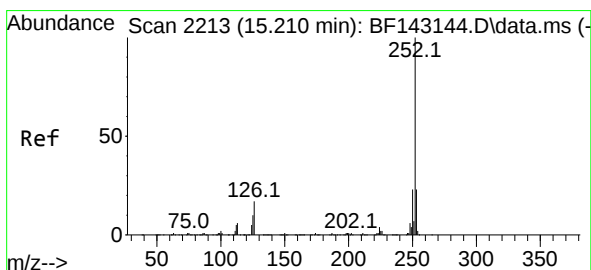
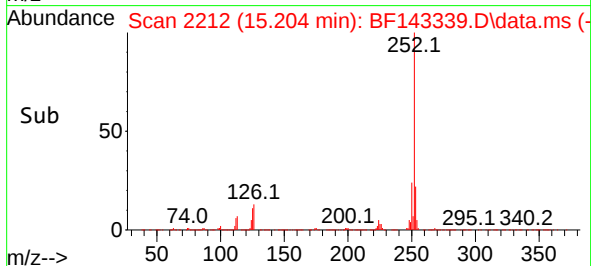
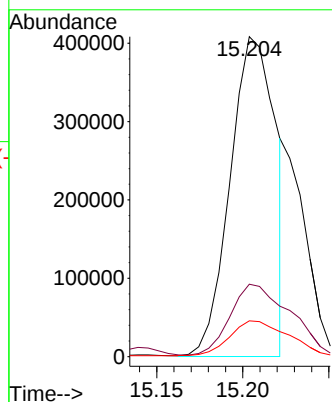
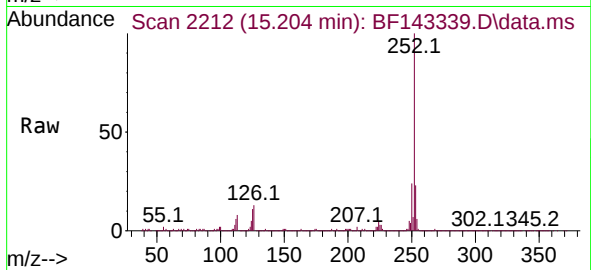
#88
Benzo(b)fluoranthene
Concen: 86.361 ng m
RT: 15.204 min Scan# 2115
Delta R.T. 0.024 min
Lab File: BF143339.D
Acq: 06 Aug 2025 19:38

Instrument :
BNA_F
ClientSampleId :
256

Tgt Ion:252 Resp: 75033
Ion Ratio Lower Upper
252 100
253 22.7 17.5 26.3
125 11.2 8.0 12.0

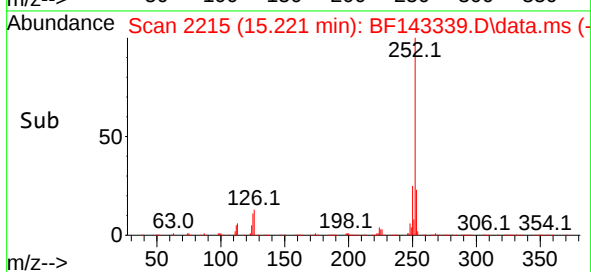
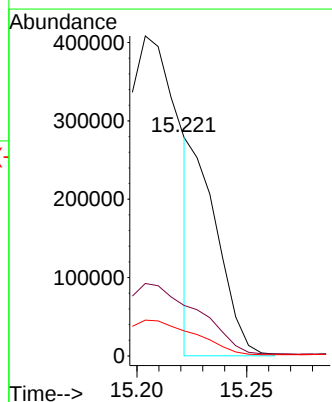
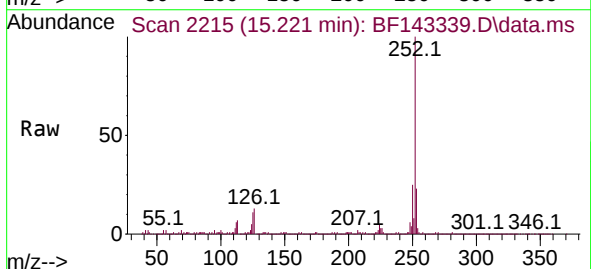
Manual Integrations
APPROVED

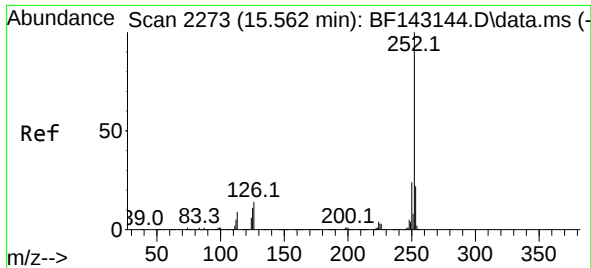
Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025



#89
Benzo(k)fluoranthene
Concen: 29.684 ng m
RT: 15.221 min Scan# 2215
Delta R.T. 0.012 min
Lab File: BF143339.D
Acq: 06 Aug 2025 19:38

Tgt Ion:252 Resp: 230138
Ion Ratio Lower Upper
252 100
253 23.1 17.8 26.6
125 11.5 8.1 12.1





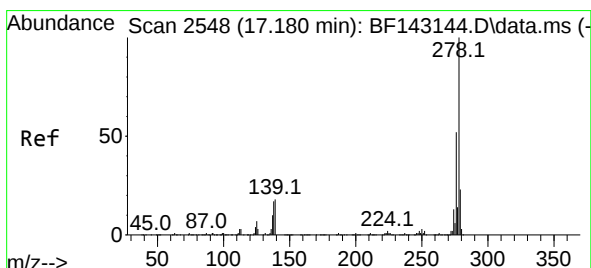
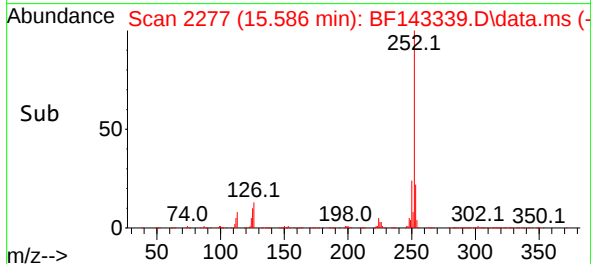
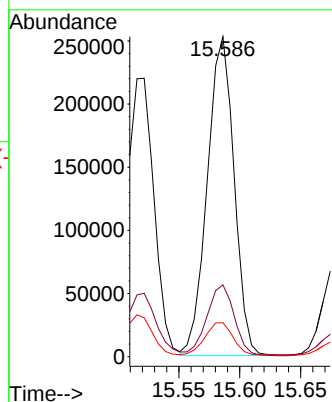
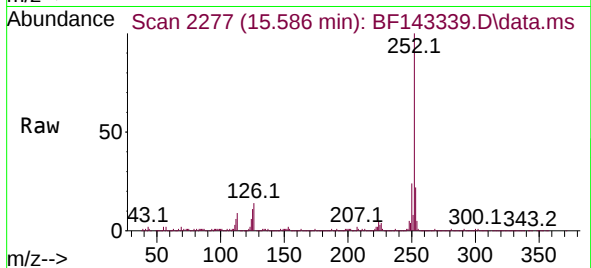
#90
Benzo(a)pyrene
Concen: 48.396 ng
RT: 15.586 min Scan# 21
Delta R.T. 0.024 min
Lab File: BF143339.D
Acq: 06 Aug 2025 19:38

Instrument :
BNA_F
ClientSampleId :
256

Tgt Ion:252 Resp: 387409
Ion Ratio Lower Upper
252 100
253 22.5 17.3 25.9
125 10.6 8.6 13.0

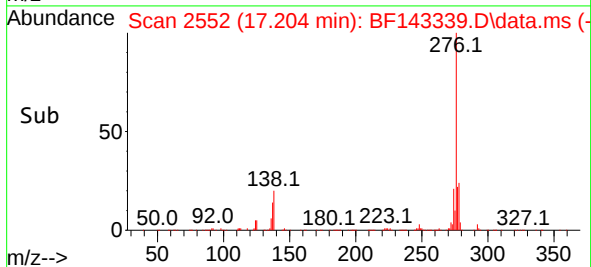
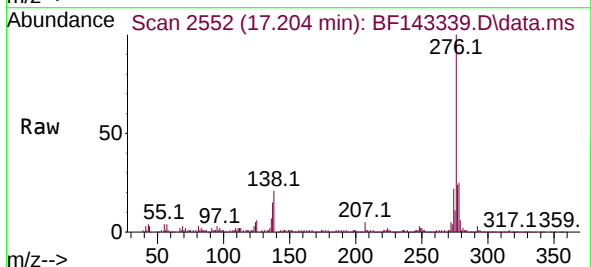
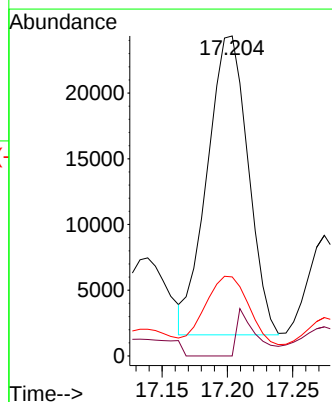
Manual Integrations
APPROVED

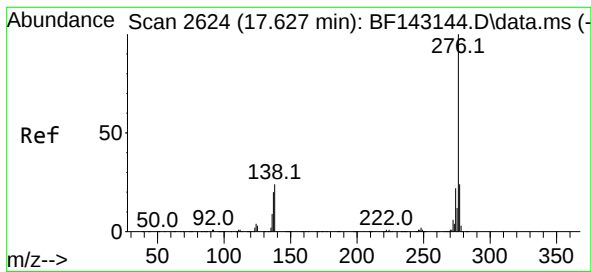
Reviewed By :Rahul Chavli 08/07/2025
Supervised By :Jagrut Upadhyay 08/07/2025



#91
Dibenzo(a,h)anthracene
Concen: 6.075 ng m
RT: 17.204 min Scan# 2552
Delta R.T. 0.024 min
Lab File: BF143339.D
Acq: 06 Aug 2025 19:38

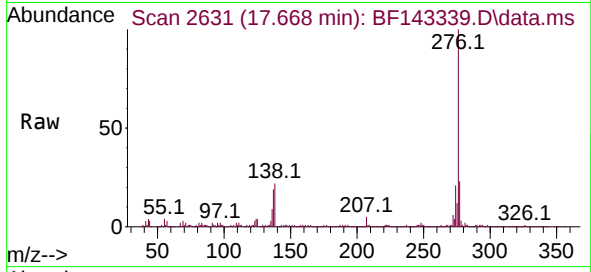
Tgt Ion:278 Resp: 49584
Ion Ratio Lower Upper
278 100
139 0.0 14.1 21.1#
279 24.7 18.6 28.0





#92
Benzo(g,h,i)perylene
Concen: 31.859 ng
RT: 17.668 min Scan# 20
Delta R.T. 0.041 min
Lab File: BF143339.D
Acq: 06 Aug 2025 19:38

Instrument :
BNA_F
ClientSampleId :
256



Tgt Ion:276 Resp: 251550
Ion Ratio Lower Upper
276 100
277 23.4 19.1 28.7
138 21.7 18.9 28.3

Manual Integrations
APPROVED

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

