

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101725\
 Data File : BF143995.D
 Acq On : 17 Oct 2025 20:10
 Operator : RC/JU
 Sample : Q3348-05DL 2X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WCS-TP2DL

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 10/20/2025
 Supervised By :Jagrut Upadhyay 10/20/2025

Quant Time: Oct 20 11:13:37 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 06 15:29:47 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	100992	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	387876	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	195768	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	296847	20.000	ng	0.00
76) Chrysene-d12	14.063	240	231732	20.000	ng	0.00
86) Perylene-d12	15.551	264	314821	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	307519	48.354	ng	0.00
7) Phenol-d6	6.498	99	369836	48.788	ng	-0.02
23) Nitrobenzene-d5	7.440	82	207216	32.457	ng	-0.02
42) 2,4,6-Tribromophenol	10.710	330	61367	31.472	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	402080	32.589	ng	-0.01
79) Terphenyl-d14	12.998	244	312053	23.015	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.187	128	320400	18.159	ng	99
37) 2-Methylnaphthalene	8.875	142	46848	3.986	ng	100
38) 1-Methylnaphthalene	8.975	142	59161	5.189	ng	95
49) Acenaphthylene	9.781	152	56670	3.730	ng	100
52) Acenaphthene	9.951	154	44103	4.430	ng	97
58) Fluorene	10.469	166	27180	2.563	ng	# 94
71) Phenanthrene	11.433	178	202234	14.053	ng	99
72) Anthracene	11.486	178	63365	4.358	ng	99
73) Carbazole	11.645	167	31297	2.431	ng	98
75) Fluoranthene	12.627	202	579089	38.956	ng	99
78) Pyrene	12.857	202	581110	30.079	ng	98
81) Benzo(a)anthracene	14.051	228	462934	30.527	ng	94
83) Chrysene	14.086	228	409419	29.171	ng	99
87) Indeno(1,2,3-cd)pyrene	17.045	276	309710	16.055	ng	99
88) Benzo(b)fluoranthene	15.116	252	609660m	33.712	ng	
89) Benzo(k)fluoranthene	15.127	252	268253m	16.031	ng	
90) Benzo(a)pyrene	15.486	252	486765	31.042	ng	97
91) Dibenzo(a,h)anthracene	17.057	278	77824	5.016	ng	# 92
92) Benzo(g,h,i)perylene	17.504	276	281408	18.138	ng	98

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

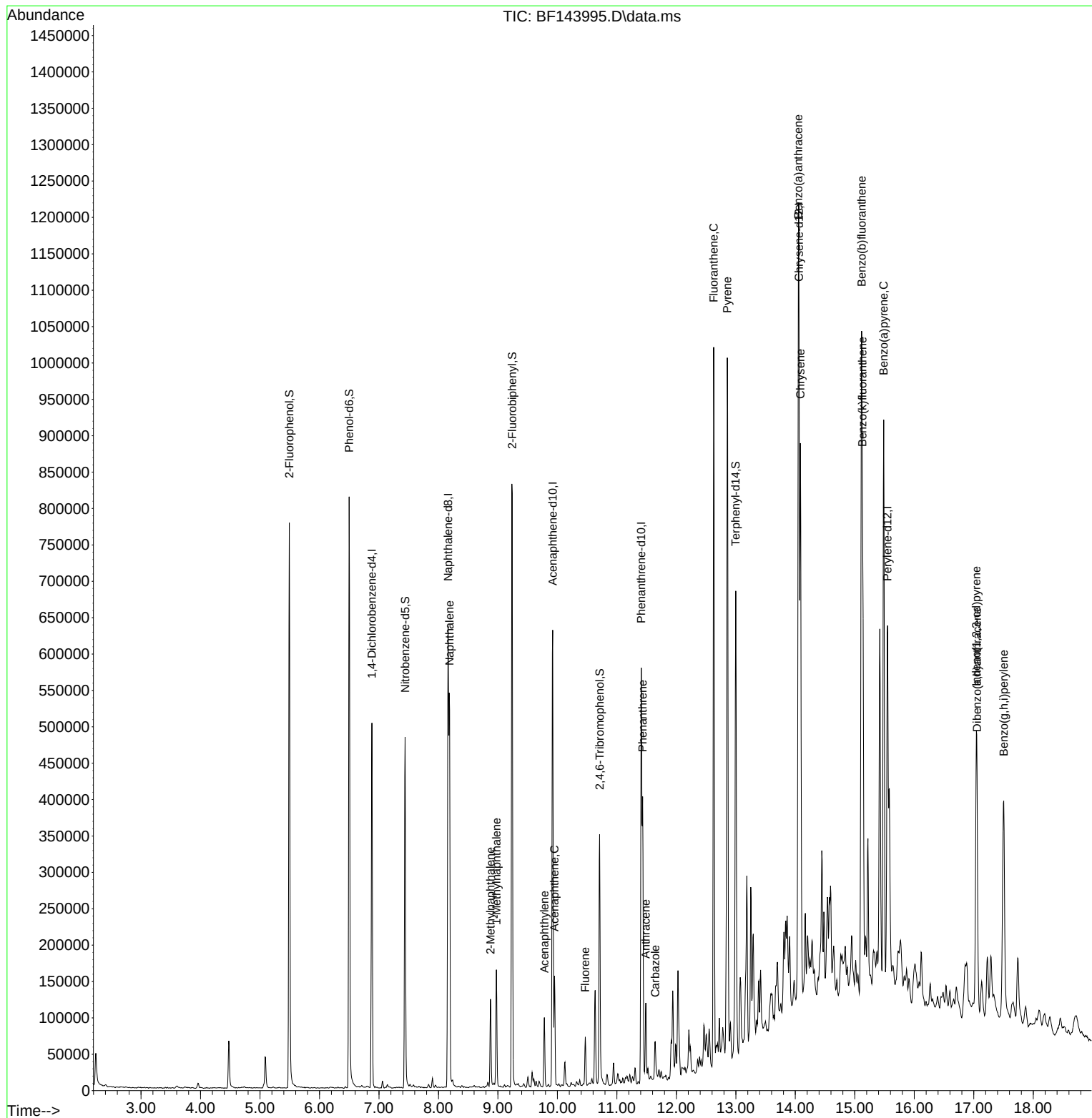
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101725\
Data File : BF143995.D
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ALS Vial : 13 Sample Multiplier: 1

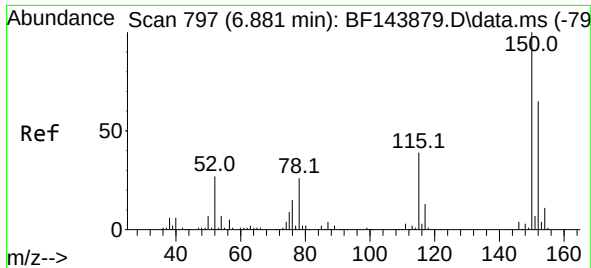
Instrument :
BNA_F
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WCS-TP2DL

Quant Time: Oct 20 11:13:37 2025
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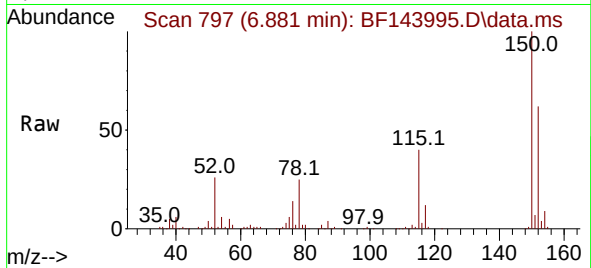
Reviewed By :Rahul Chavli 10/20/2025
Supervised By :Jagrut Upadhyay 10/20/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 797
Delta R.T. -0.005 min
Lab File: BF143995.D
Acq: 17 Oct 2025 20:10

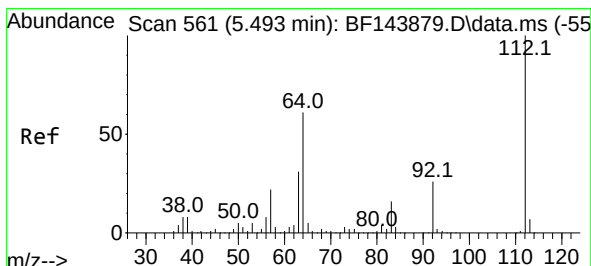
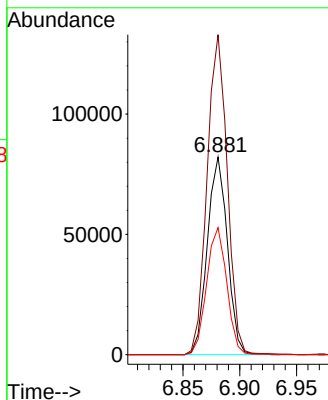
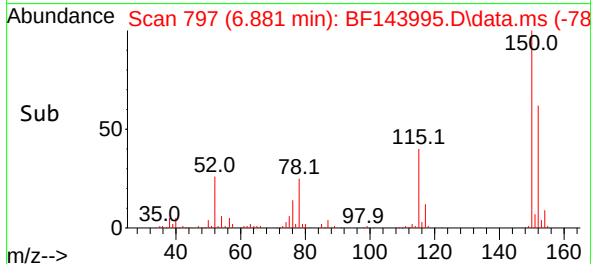
Instrument :
BNA_F
ClientSampleId :
WCS-TP2DL



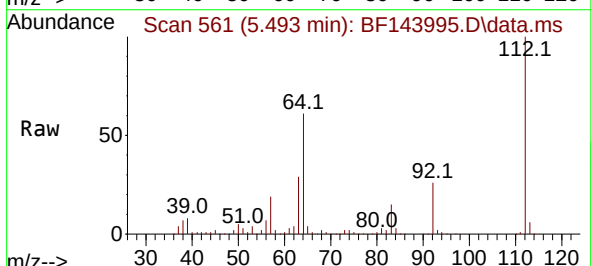
Tgt Ion:152 Resp: 100992
Ion Ratio Lower Upper
152 100
150 161.9 124.4 186.6
115 64.3 48.1 72.1

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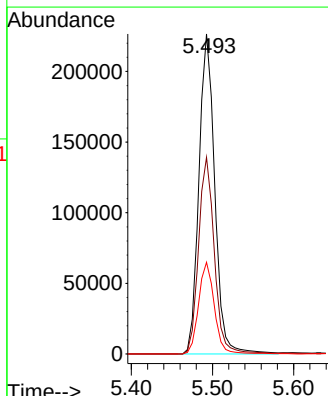
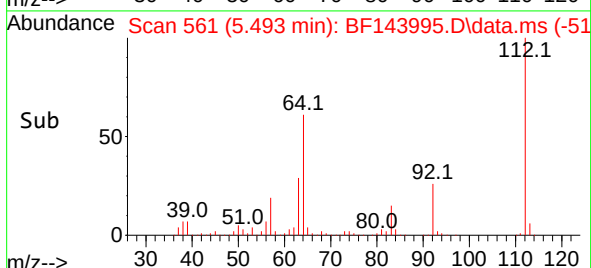
Reviewed By :Rahul Chavli 10/20/2025
Supervised By :Jagrut Upadhyay 10/20/2025

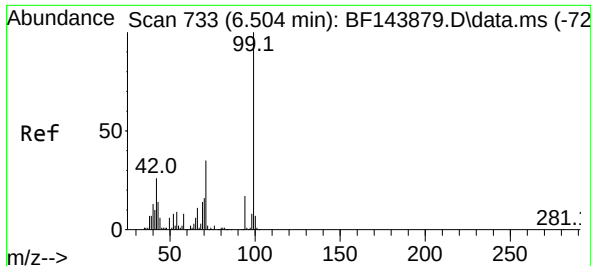


#5
2-Fluorophenol
Concen: 48.354 ng
RT: 5.493 min Scan# 561
Delta R.T. -0.006 min
Lab File: BF143995.D
Acq: 17 Oct 2025 20:10



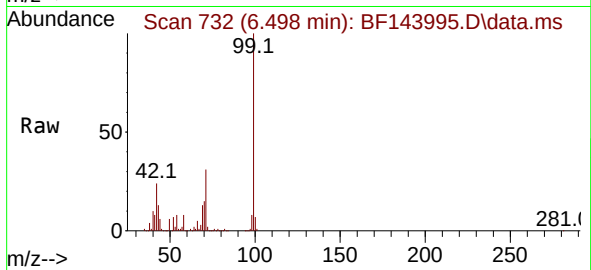
Tgt Ion:112 Resp: 307519
Ion Ratio Lower Upper
112 100
64 61.4 49.1 73.7
63 28.7 24.5 36.7





#7
Phenol-d6
Concen: 48.788 ng
RT: 6.498 min Scan# 71
Delta R.T. -0.017 min
Lab File: BF143995.D
Acq: 17 Oct 2025 20:10

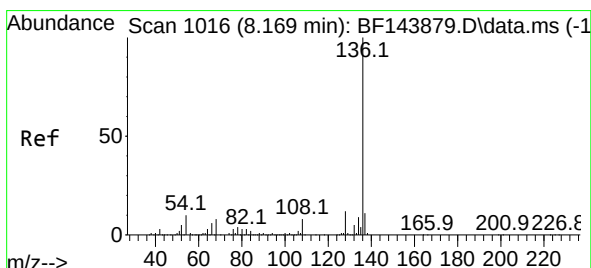
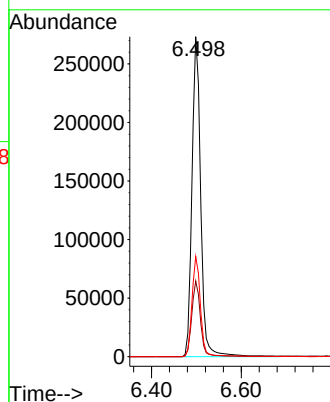
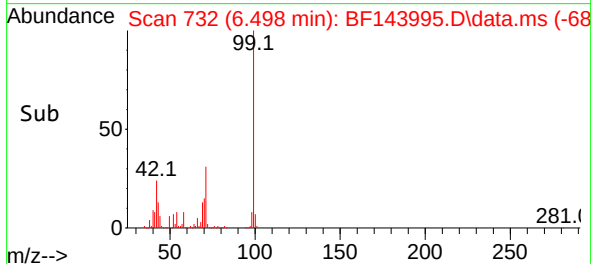
Instrument :
BNA_F
ClientSampleId :
WCS-TP2DL



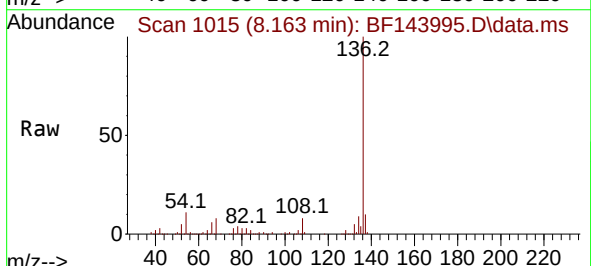
Tgt Ion: 99 Resp: 369830
Ion Ratio Lower Upper
99 100
42 23.7 21.0 31.4
71 31.3 27.8 41.8

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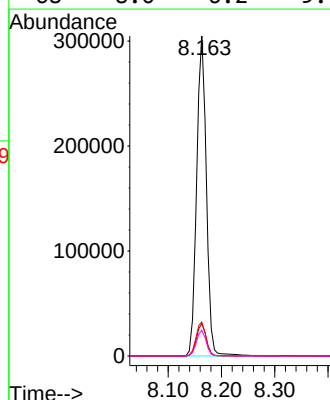
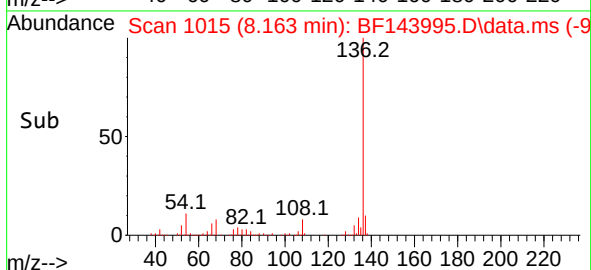
Reviewed By :Rahul Chavli 10/20/2025
Supervised By :Jagrut Upadhyay 10/20/2025

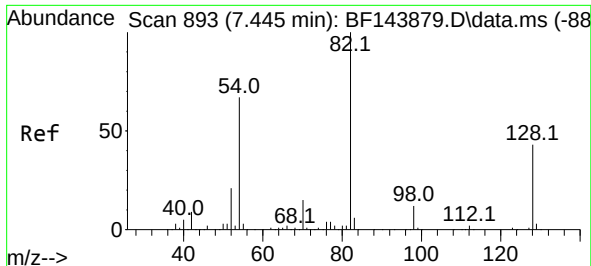


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF143995.D
Acq: 17 Oct 2025 20:10



Tgt Ion:136 Resp: 387876
Ion Ratio Lower Upper
136 100
137 10.1 8.5 12.7
54 10.6 8.2 12.4
68 8.0 6.2 9.4





#23

Nitrobenzene-d5

Concen: 32.457 ng

RT: 7.440 min Scan# 893

Delta R.T. -0.017 min

Lab File: BF143995.D

Acq: 17 Oct 2025 20:10

Instrument :

BNA_F

ClientSampleId :

WCS-TP2DL

Tgt Ion: 82 Resp: 207210

Ion Ratio Lower Upper

82 100

128 42.5 34.0 51.0

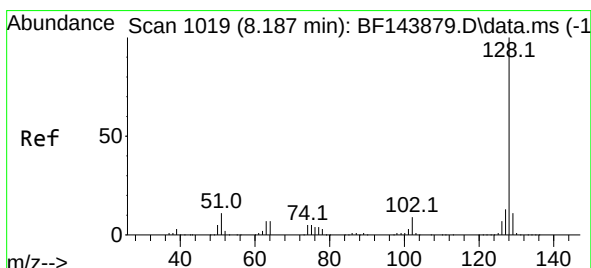
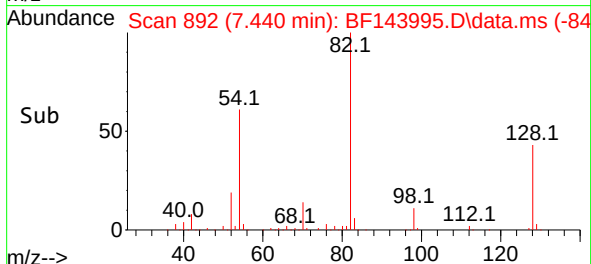
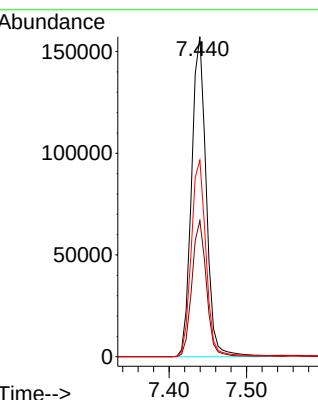
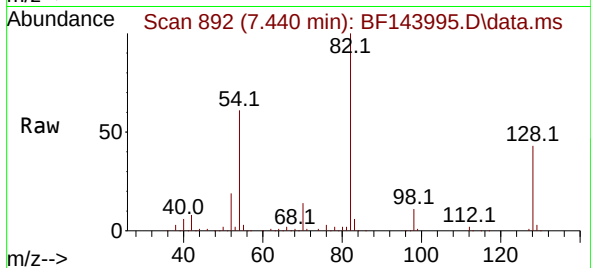
54 61.4 53.2 79.8

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#31

Naphthalene

Concen: 18.159 ng

RT: 8.187 min Scan# 1019

Delta R.T. -0.006 min

Lab File: BF143995.D

Acq: 17 Oct 2025 20:10

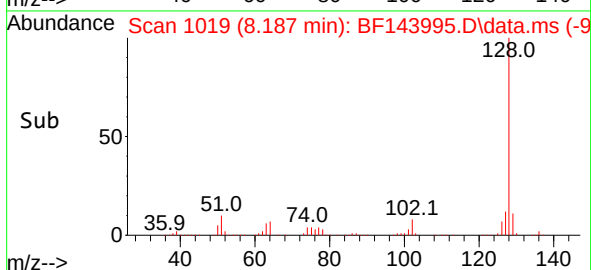
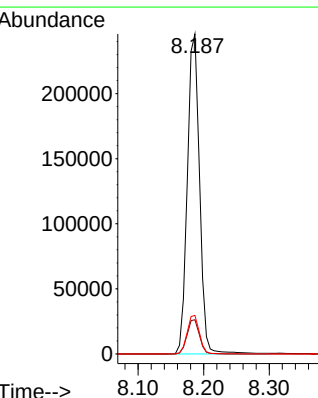
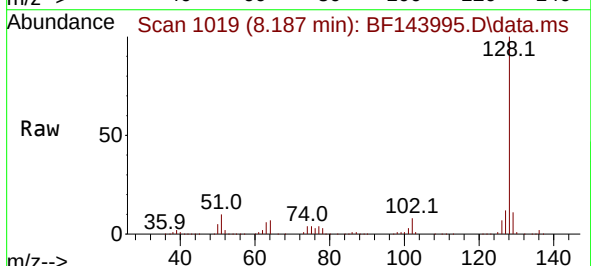
Tgt Ion:128 Resp: 320400

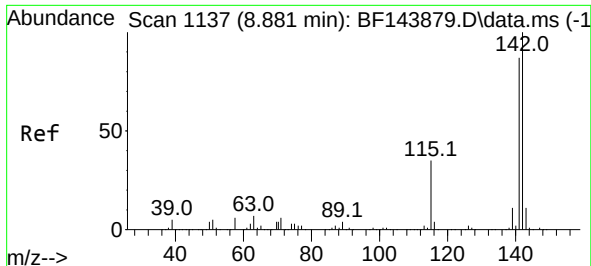
Ion Ratio Lower Upper

128 100

129 10.7 8.7 13.1

127 12.1 10.0 15.0





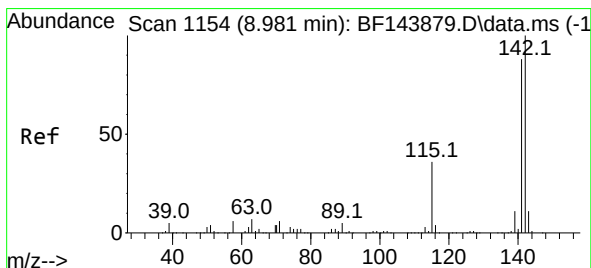
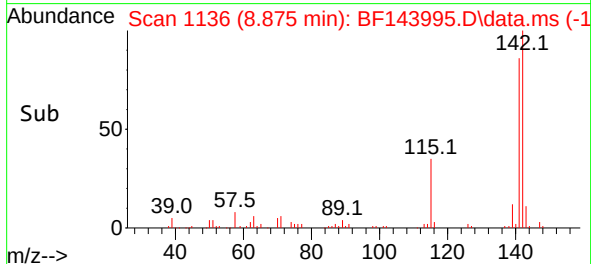
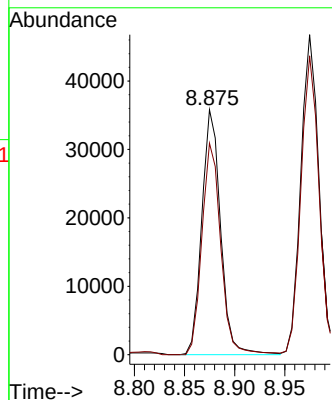
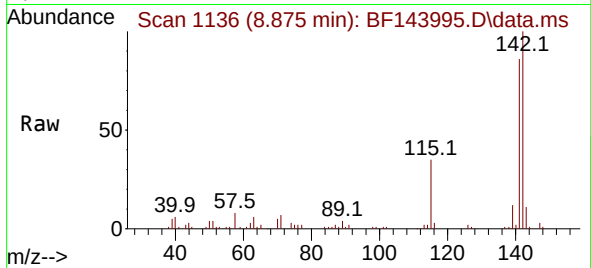
#37
2-Methylnaphthalene
Concen: 3.986 ng
RT: 8.875 min Scan# 1136
Delta R.T. -0.012 min
Lab File: BF143995.D
Acq: 17 Oct 2025 20:10

Instrument :
BNA_F
ClientSampleId :
WCS-TP2DL

Tgt Ion:142 Resp: 4684
Ion Ratio Lower Upper
142 100
141 86.3 69.2 103.8

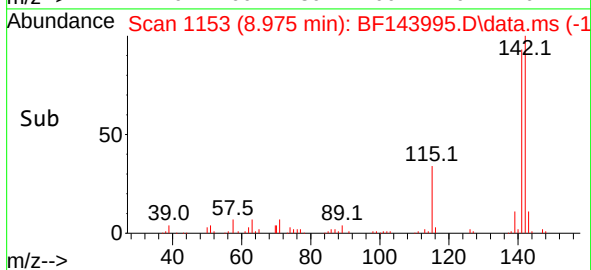
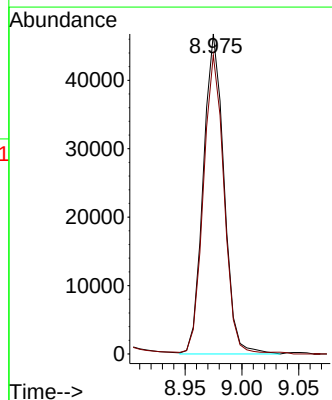
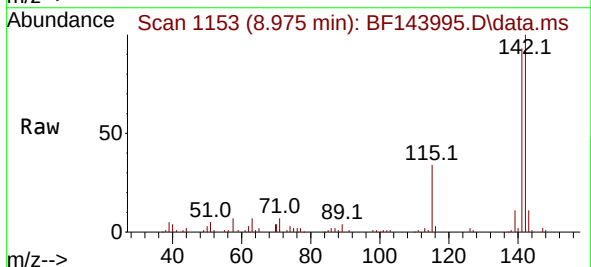
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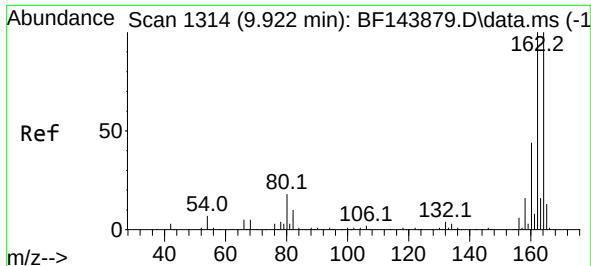
Reviewed By :Rahul Chavli 10/20/2025
Supervised By :Jagrut Upadhyay 10/20/2025



#38
1-Methylnaphthalene
Concen: 5.189 ng
RT: 8.975 min Scan# 1153
Delta R.T. -0.011 min
Lab File: BF143995.D
Acq: 17 Oct 2025 20:10

Tgt Ion:142 Resp: 59161
Ion Ratio Lower Upper
142 100
141 93.4 70.8 106.2





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.922 min Scan# 11

Delta R.T. -0.005 min

Lab File: BF143995.D

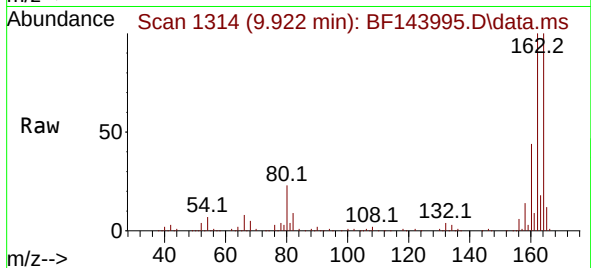
Acq: 17 Oct 2025 20:10

Instrument :

BNA_F

ClientSampleId :

WCS-TP2DL



Tgt Ion:164 Resp: 19576

Ion Ratio Lower Upper

164 100

162 99.9 80.2 120.2

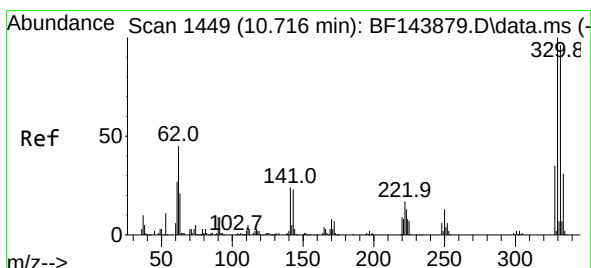
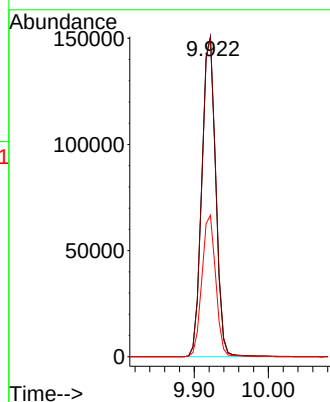
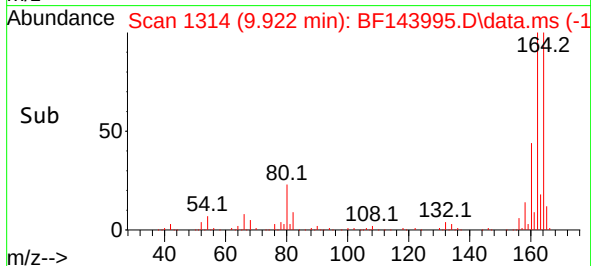
160 44.2 35.4 53.0

Manual Integrations

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Reviewed By :Rahul Chavli 10/20/2025

Supervised By :Jagrut Upadhyay 10/20/2025



#42

2,4,6-Tribromophenol

Concen: 31.472 ng

RT: 10.710 min Scan# 1448

Delta R.T. -0.012 min

Lab File: BF143995.D

Acq: 17 Oct 2025 20:10

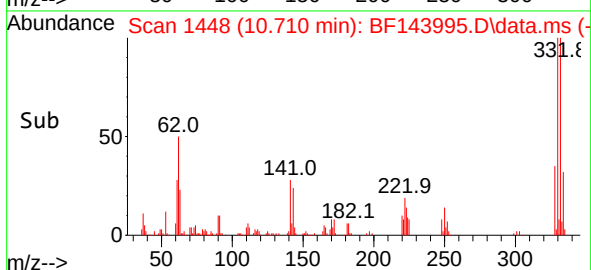
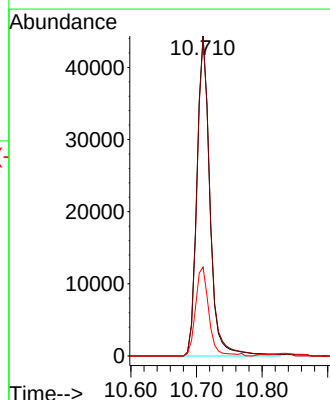
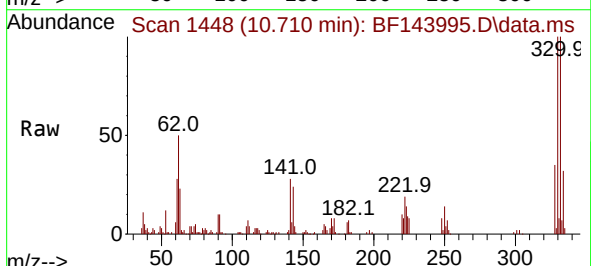
Tgt Ion:330 Resp: 61367

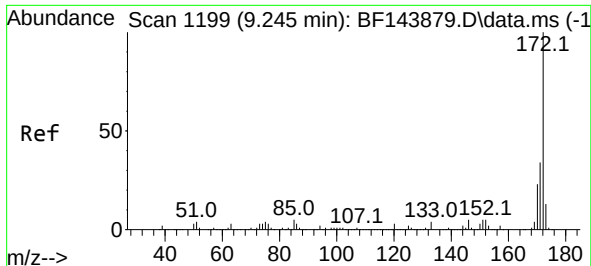
Ion Ratio Lower Upper

330 100

332 99.9 76.9 115.3

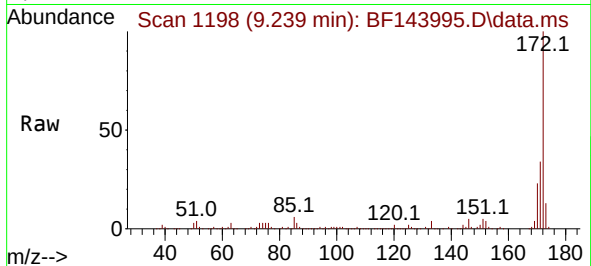
141 28.3 20.2 30.4





#45
2-Fluorobiphenyl
Concen: 32.589 ng
RT: 9.239 min Scan# 1199
Delta R.T. -0.012 min
Lab File: BF143995.D
Acq: 17 Oct 2025 20:10

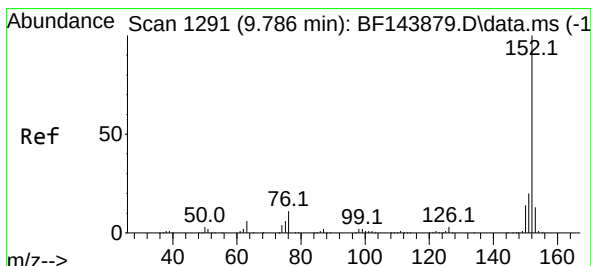
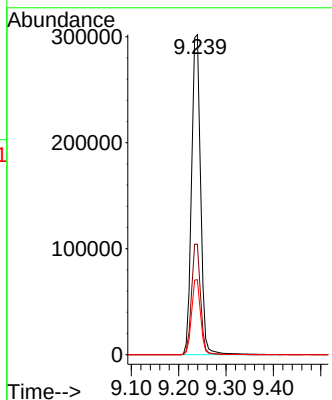
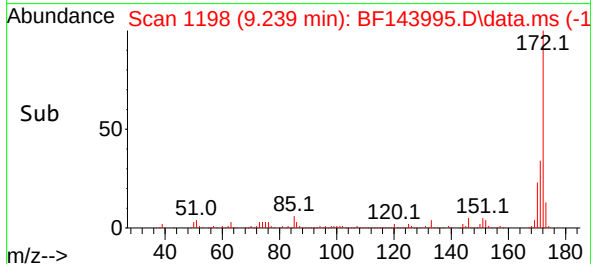
Instrument :
BNA_F
ClientSampleId :
WCS-TP2DL



Tgt Ion:172 Resp: 402080
Ion Ratio Lower Upper
172 100
171 34.5 27.4 41.0
170 23.5 18.6 28.0

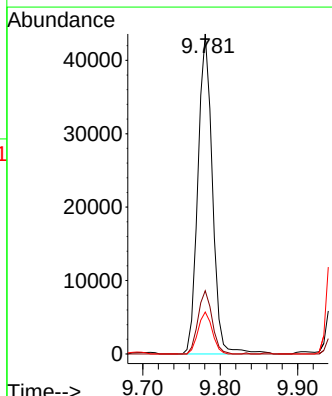
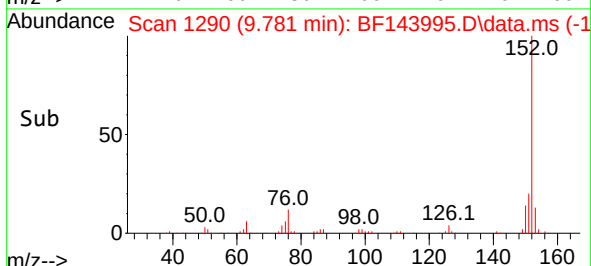
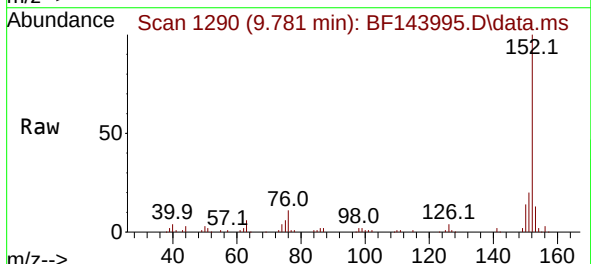
Manual Integrations
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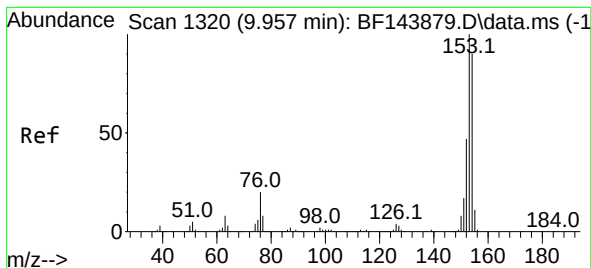
Reviewed By :Rahul Chavli 10/20/2025
Supervised By :Jagrut Upadhyay 10/20/2025



#49
Acenaphthylene
Concen: 3.730 ng
RT: 9.781 min Scan# 1290
Delta R.T. -0.006 min
Lab File: BF143995.D
Acq: 17 Oct 2025 20:10

Tgt Ion:152 Resp: 56670
Ion Ratio Lower Upper
152 100
151 19.7 15.8 23.6
153 13.1 10.5 15.7





#52

Acenaphthene

Concen: 4.430 ng

RT: 9.951 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF143995.D

Acq: 17 Oct 2025 20:10

Instrument :

BNA_F

ClientSampleId :

WCS-TP2DL

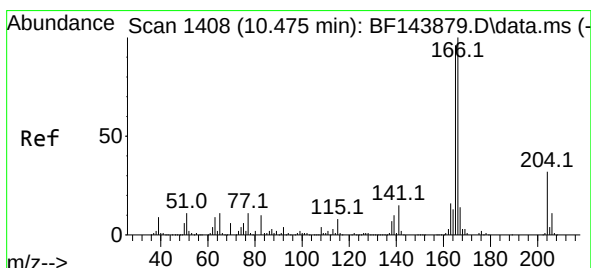
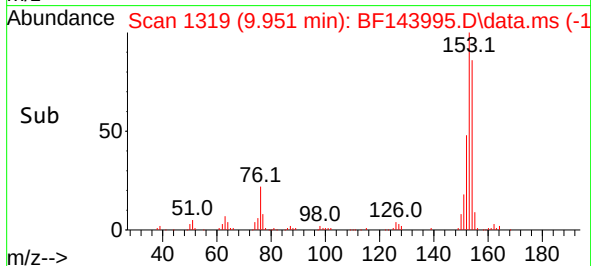
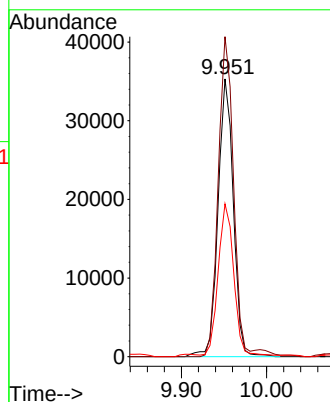
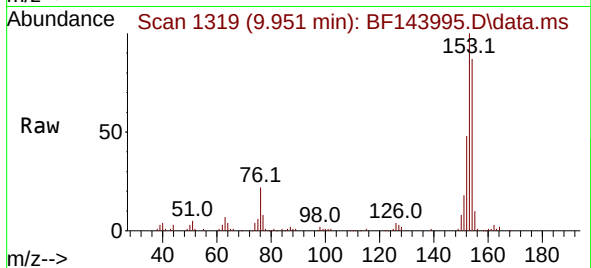
Tgt Ion:154 Resp: 4410
 Ion Ratio Lower Upper
 154 100
 153 115.2 89.3 133.9
 152 55.0 42.2 63.2

Manual Integrations

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Reviewed By :Rahul Chavli 10/20/2025

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#58

Fluorene

Concen: 2.563 ng

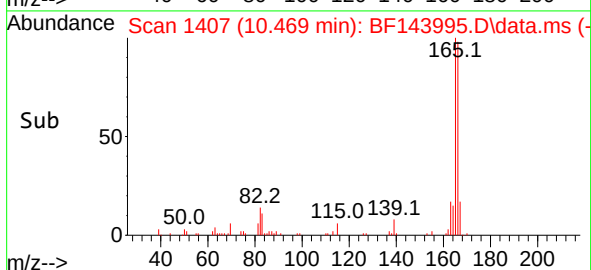
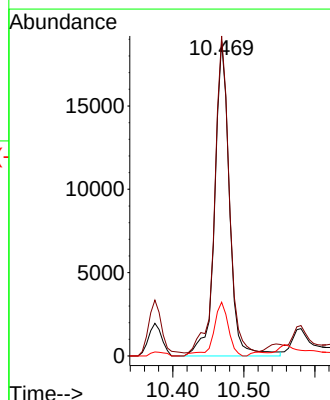
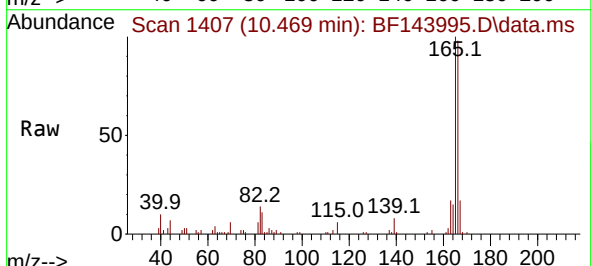
RT: 10.469 min Scan# 1407

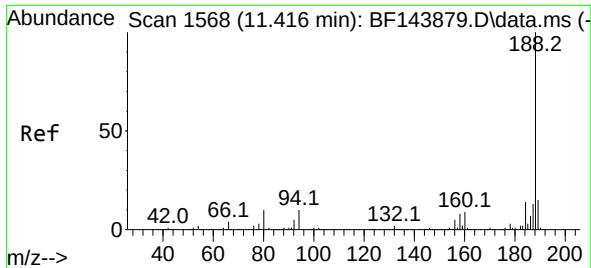
Delta R.T. -0.012 min

Lab File: BF143995.D

Acq: 17 Oct 2025 20:10

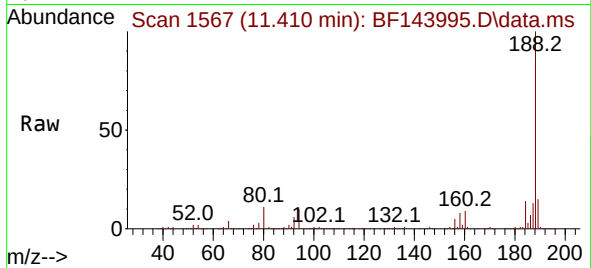
Tgt Ion:166 Resp: 27180
 Ion Ratio Lower Upper
 166 100
 165 101.8 77.0 115.6
 167 17.1 11.1 16.7#





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143995.D
Acq: 17 Oct 2025 20:10

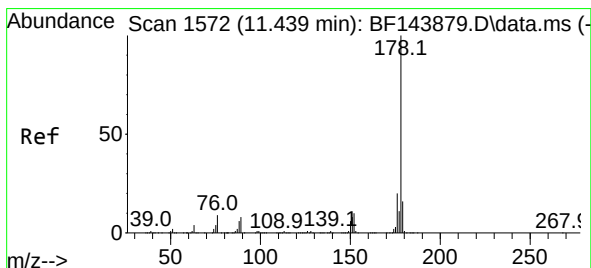
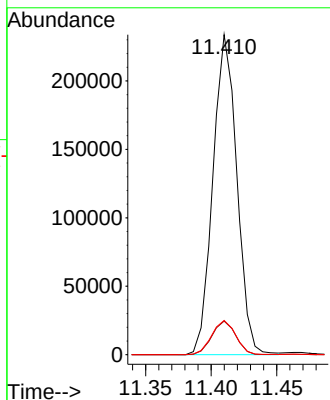
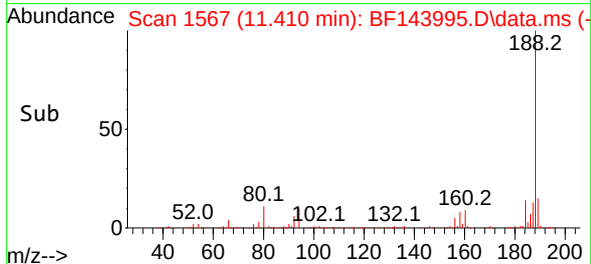
Instrument :
BNA_F
ClientSampleId :
WCS-TP2DL



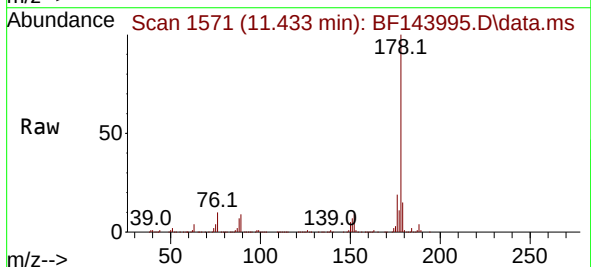
Tgt Ion:188 Resp: 29684
Ion Ratio Lower Upper
188 100
94 10.5 7.8 11.6
80 10.7 7.9 11.9

Manual Integrations
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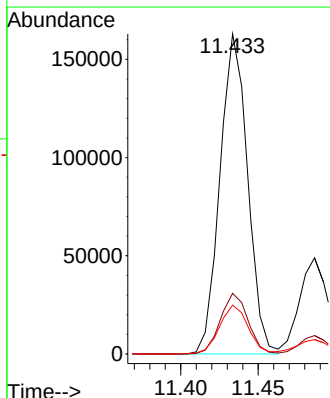
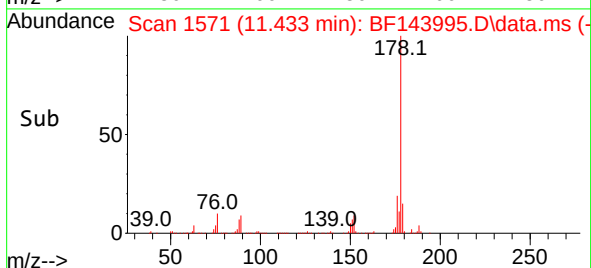
Reviewed By :Rahul Chavli 10/20/2025
Supervised By :Jagrut Upadhyay 10/20/2025

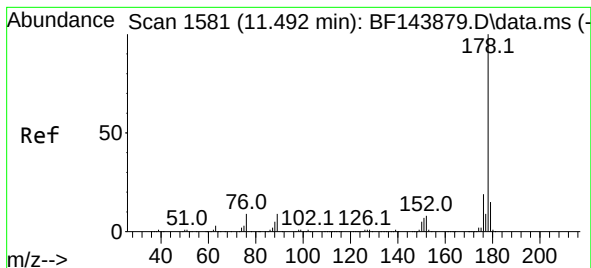


#71
Phenanthrene
Concen: 14.053 ng
RT: 11.433 min Scan# 1571
Delta R.T. -0.012 min
Lab File: BF143995.D
Acq: 17 Oct 2025 20:10



Tgt Ion:178 Resp: 202234
Ion Ratio Lower Upper
178 100
176 18.9 15.9 23.9
179 15.2 12.4 18.6





#72

Anthracene

Concen: 4.358 ng

RT: 11.486 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF143995.D

Acq: 17 Oct 2025 20:10

Instrument :

BNA_F

ClientSampleId :

WCS-TP2DL

Tgt Ion:178 Resp: 6336

Ion Ratio Lower Upper

178 100

176 19.2 14.9 22.3

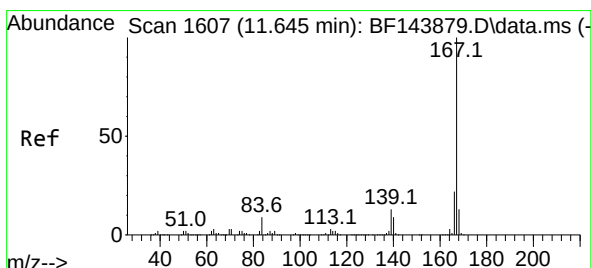
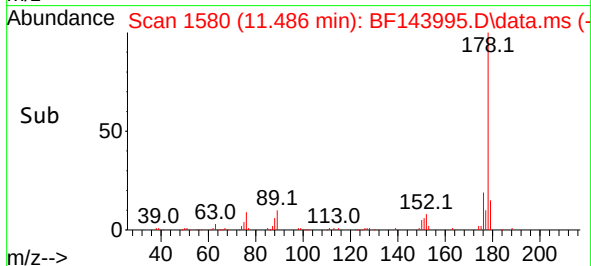
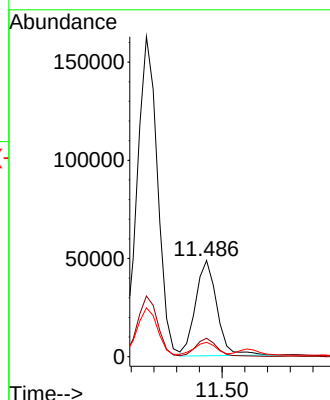
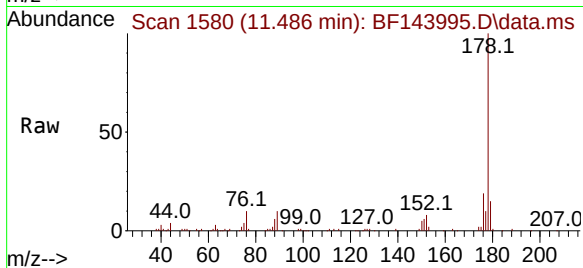
179 15.0 12.2 18.2

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 10/20/2025

Supervised By :Jagrut Upadhyay 10/20/2025



#73

Carbazole

Concen: 2.431 ng

RT: 11.645 min Scan# 1607

Delta R.T. -0.006 min

Lab File: BF143995.D

Acq: 17 Oct 2025 20:10

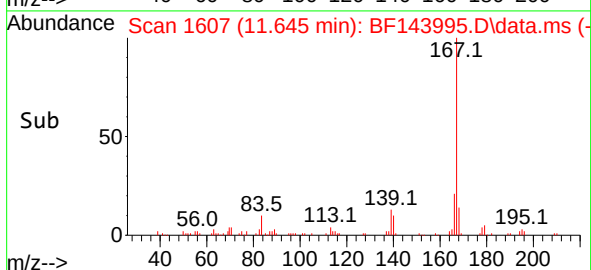
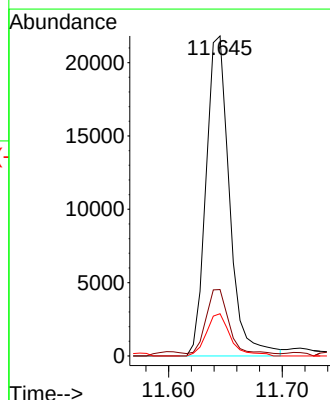
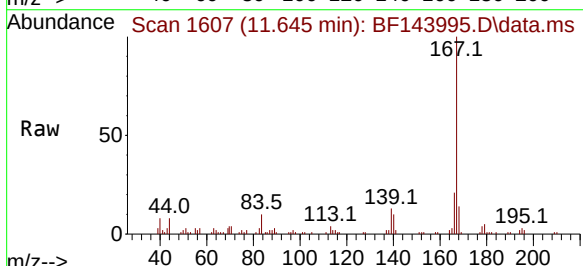
Tgt Ion:167 Resp: 31297

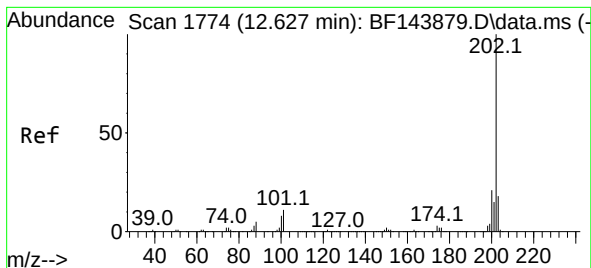
Ion Ratio Lower Upper

167 100

166 20.8 17.2 25.8

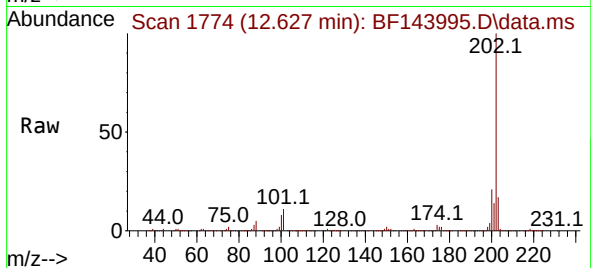
139 13.2 10.1 15.1





#75
Fluoranthene
Concen: 38.956 ng
RT: 12.627 min Scan# 1774
Delta R.T. -0.006 min
Lab File: BF143995.D
Acq: 17 Oct 2025 20:10

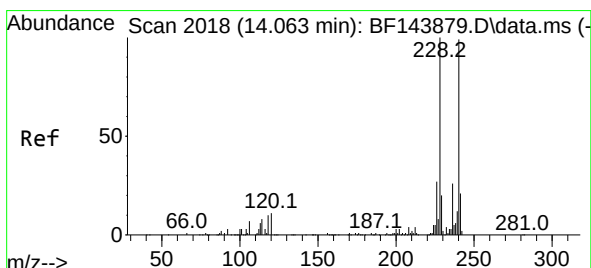
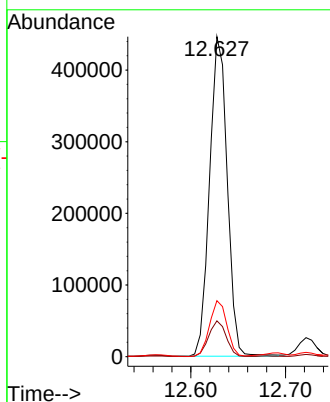
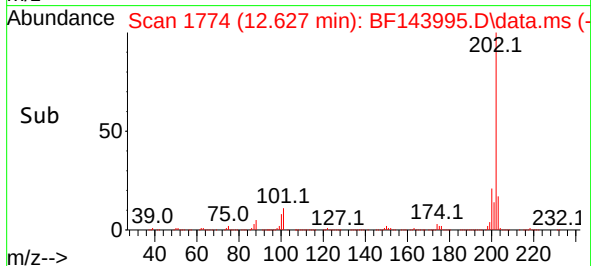
Instrument :
BNA_F
ClientSampleId :
WCS-TP2DL



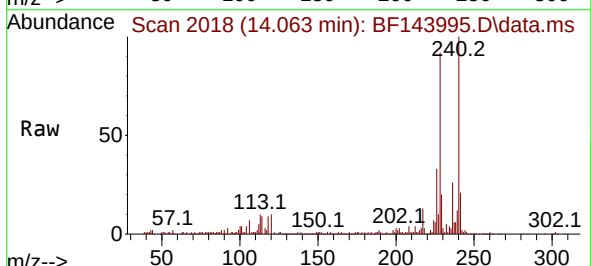
Tgt Ion:202 Resp: 579089
Ion Ratio Lower Upper
202 100
101 11.2 0.0 30.7
203 17.5 0.0 37.8

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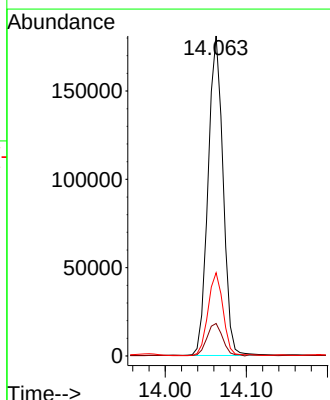
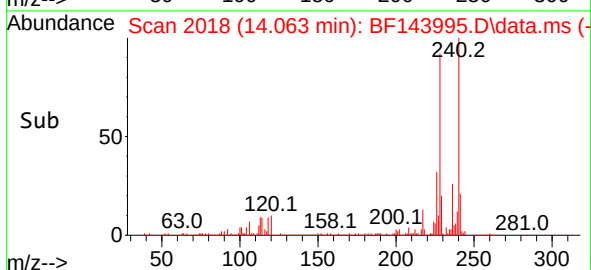
Reviewed By :Rahul Chavli 10/20/2025
Supervised By :Jagrut Upadhyay 10/20/2025

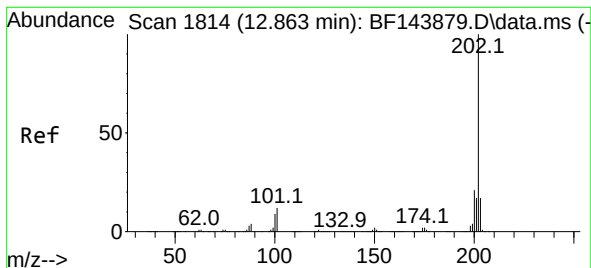


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 1818
Delta R.T. -0.005 min
Lab File: BF143995.D
Acq: 17 Oct 2025 20:10



Tgt Ion:240 Resp: 231732
Ion Ratio Lower Upper
240 100
120 10.1 8.6 13.0
236 26.0 21.1 31.7





#78

Pyrene

Concen: 30.079 ng

RT: 12.857 min Scan# 1814

Delta R.T. -0.006 min

Lab File: BF143995.D

Acq: 17 Oct 2025 20:10

Instrument :

BNA_F

ClientSampleId :

WCS-TP2DL

Tgt Ion:202 Resp: 581110

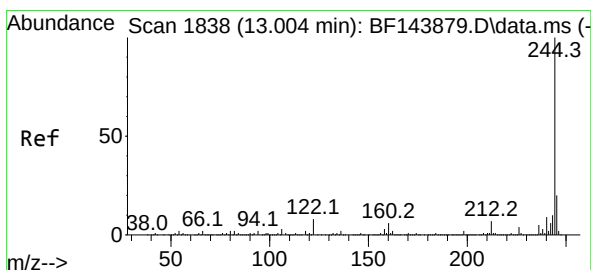
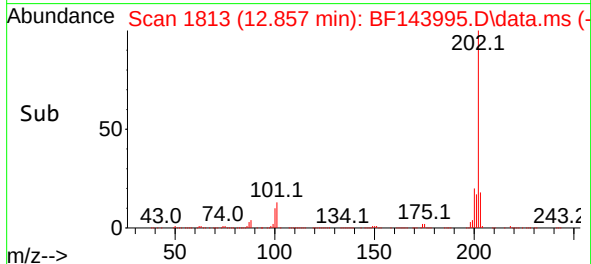
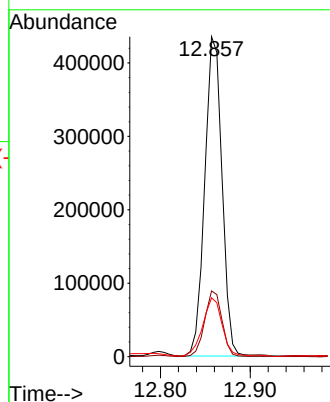
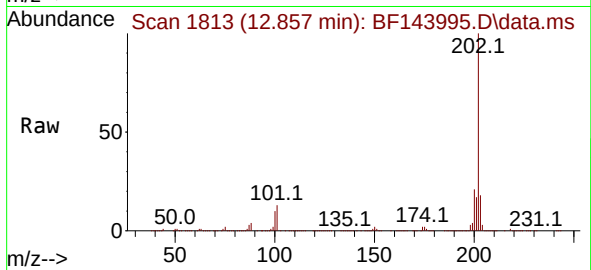
Ion	Ratio	Lower	Upper
202	100		
200	20.6	17.0	25.6
203	18.4	13.8	20.6

Manual Integrations

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Reviewed By :Rahul Chavli 10/20/2025

Supervised By :Jagrut Upadhyay 10/20/2025



#79

Terphenyl-d14

Concen: 23.015 ng

RT: 12.998 min Scan# 1837

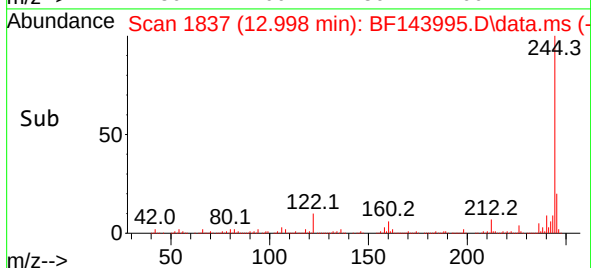
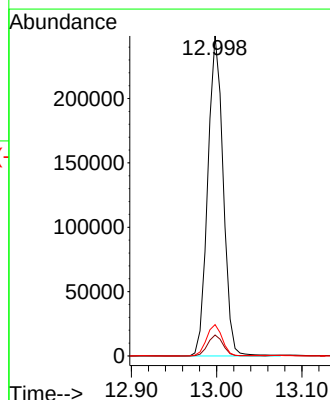
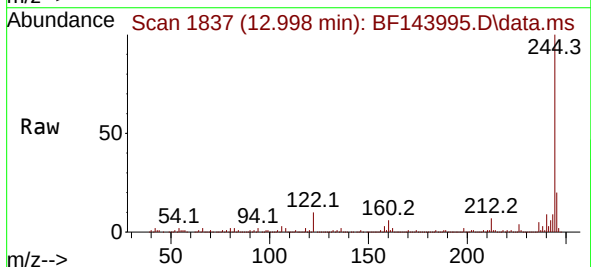
Delta R.T. -0.012 min

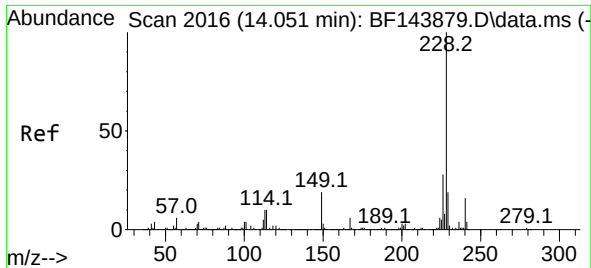
Lab File: BF143995.D

Acq: 17 Oct 2025 20:10

Tgt Ion:244 Resp: 312053

Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.4	8.0
122	9.8	6.4	9.6#





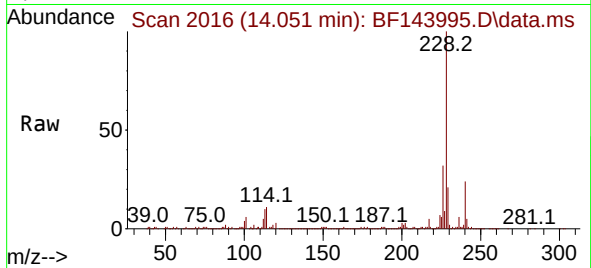
#81
Benzo(a)anthracene
Concen: 30.527 ng
RT: 14.051 min Scan# 2016
Delta R.T. -0.006 min
Lab File: BF143995.D
Acq: 17 Oct 2025 20:10

Instrument :

BNA_F

ClientSampleId :

WCS-TP2DL

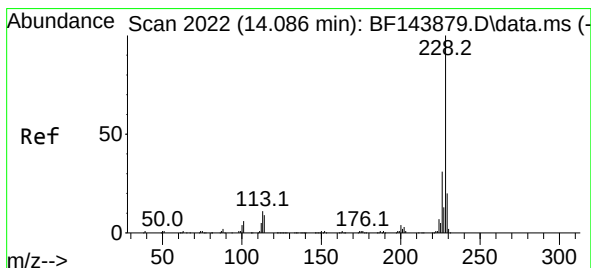
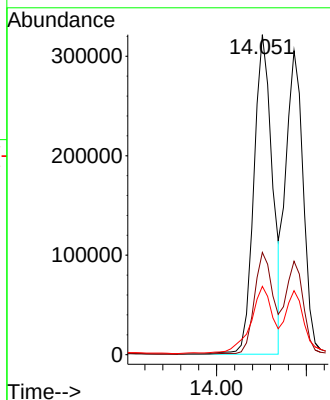
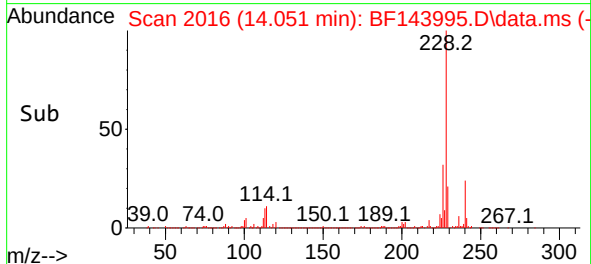


Tgt Ion:228 Resp: 462934
Ion Ratio Lower Upper
228 100
226 31.9 22.2 33.2
229 21.4 15.6 23.4

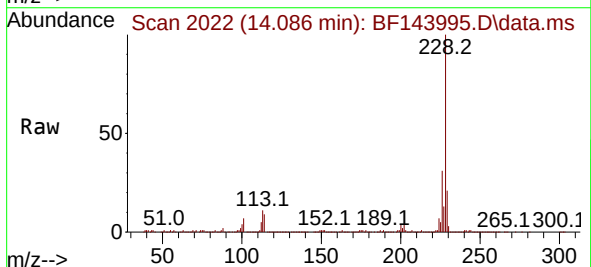
Manual Integrations

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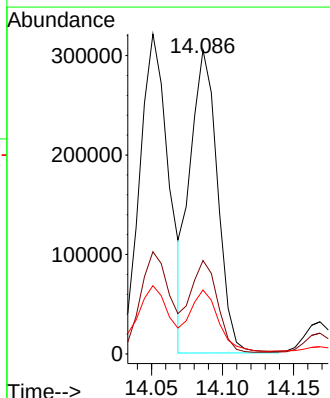
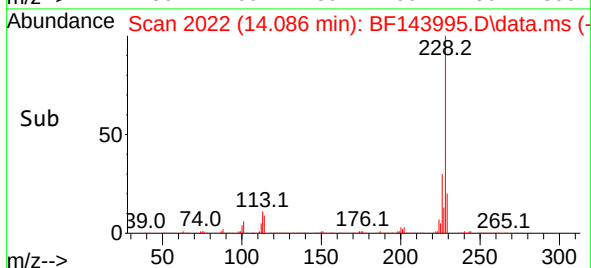
Reviewed By :Rahul Chavli 10/20/2025
Supervised By :Jagrut Upadhyay 10/20/2025

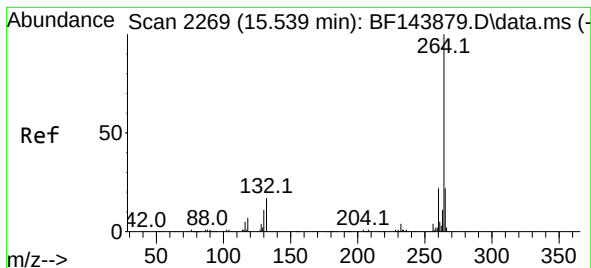


#83
Chrysene
Concen: 29.171 ng
RT: 14.086 min Scan# 2022
Delta R.T. -0.006 min
Lab File: BF143995.D
Acq: 17 Oct 2025 20:10



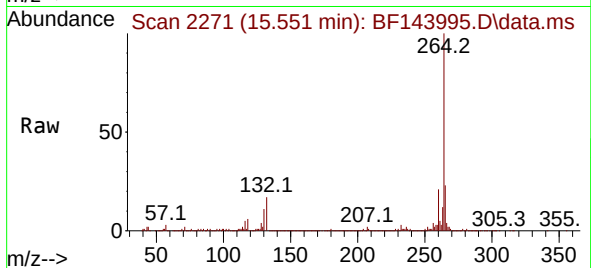
Tgt Ion:228 Resp: 409419
Ion Ratio Lower Upper
228 100
226 30.7 24.4 36.6
229 21.0 15.9 23.9





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.551 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF143995.D
Acq: 17 Oct 2025 20:10

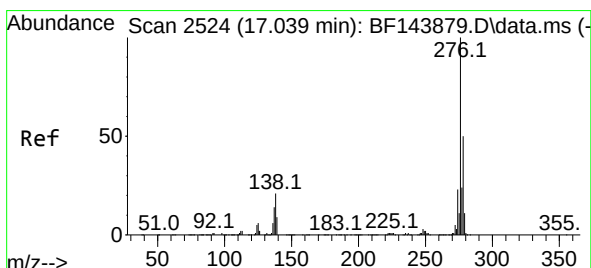
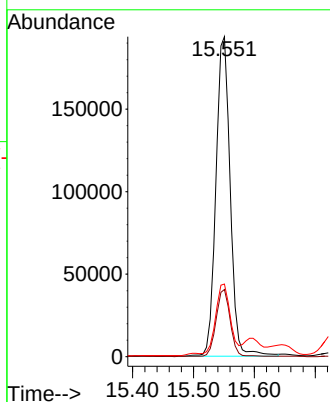
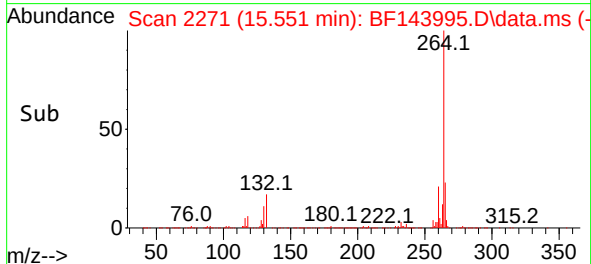
Instrument :
BNA_F
ClientSampleId :
WCS-TP2DL



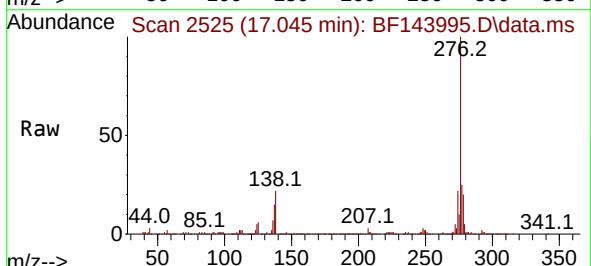
Tgt Ion:264 Resp: 31482
Ion Ratio Lower Upper
264 100
260 21.0 17.8 26.8
265 22.7 17.5 26.3

Manual Integrations
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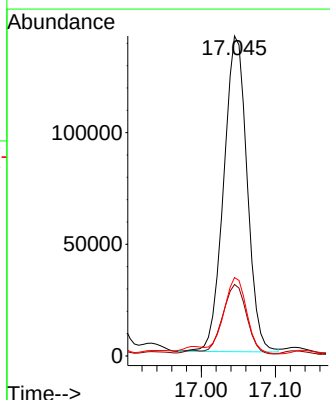
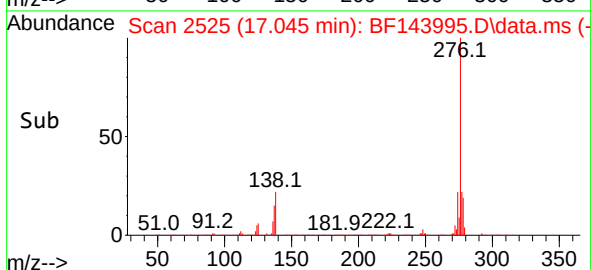
Reviewed By :Rahul Chavli 10/20/2025
Supervised By :Jagrut Upadhyay 10/20/2025

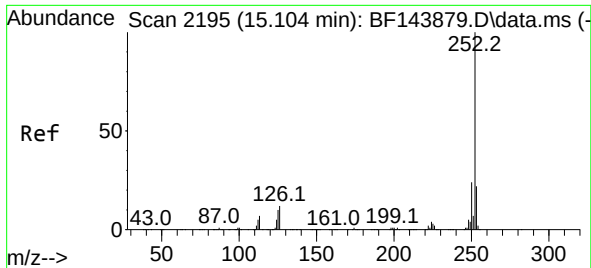


#87
Indeno(1,2,3-cd)pyrene
Concen: 16.055 ng
RT: 17.045 min Scan# 2525
Delta R.T. -0.012 min
Lab File: BF143995.D
Acq: 17 Oct 2025 20:10



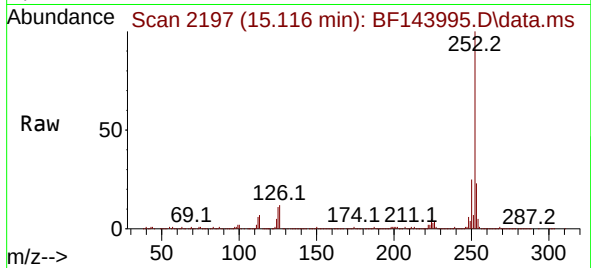
Tgt Ion:276 Resp: 309710
Ion Ratio Lower Upper
276 100
138 23.0 18.2 27.2
277 24.0 19.8 29.6





#88
Benzo(b)fluoranthene
Concen: 33.712 ng m
RT: 15.116 min Scan# 2195
Delta R.T. 0.000 min
Lab File: BF143995.D
Acq: 17 Oct 2025 20:10

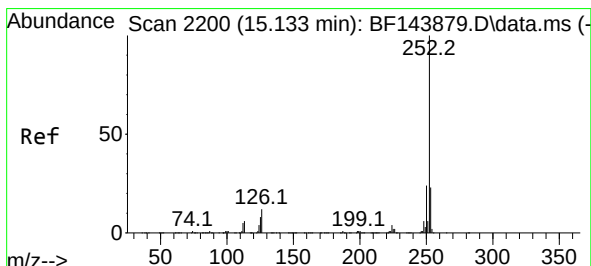
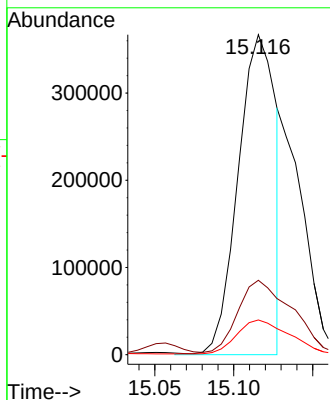
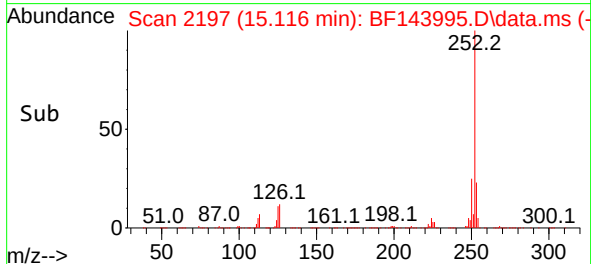
Instrument :
BNA_F
ClientSampleId :
WCS-TP2DL



Tgt Ion:252 Resp: 609660
Ion Ratio Lower Upper
252 100
253 23.2 17.4 26.2
125 10.9 7.8 11.6

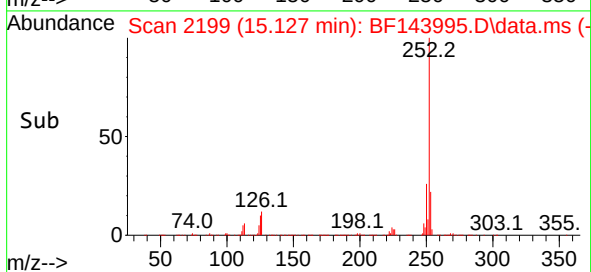
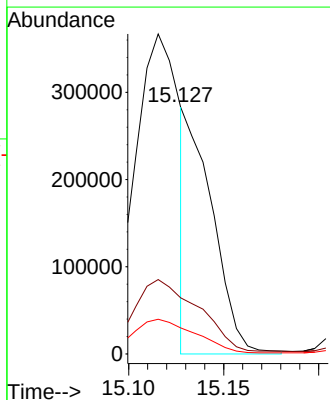
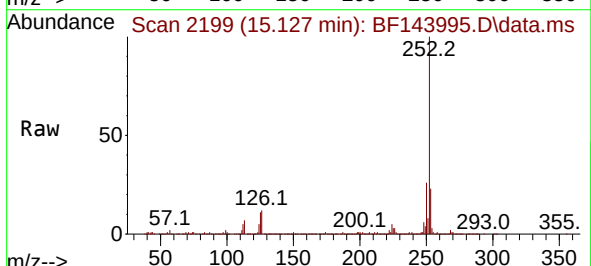
Manual Integrations
APPROVED

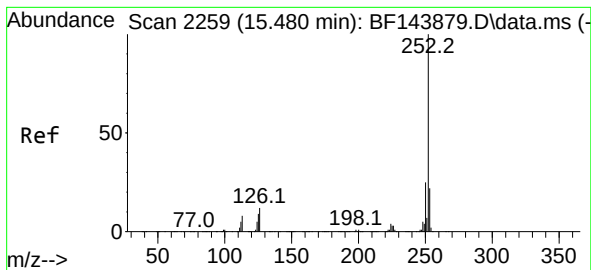
Reviewed By :Rahul Chavli 10/20/2025
Supervised By :Jagrut Upadhyay 10/20/2025



#89
Benzo(k)fluoranthene
Concen: 16.031 ng m
RT: 15.127 min Scan# 2199
Delta R.T. -0.017 min
Lab File: BF143995.D
Acq: 17 Oct 2025 20:10

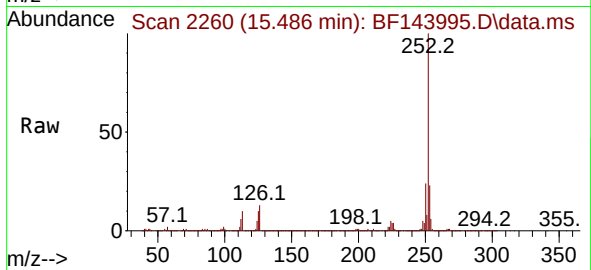
Tgt Ion:252 Resp: 268253
Ion Ratio Lower Upper
252 100
253 22.8 17.8 26.8
125 10.6 7.4 11.2





#90
Benzo(a)pyrene
Concen: 31.042 ng
RT: 15.486 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BF143995.D
Acq: 17 Oct 2025 20:10

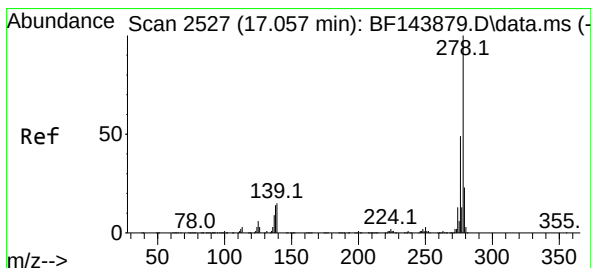
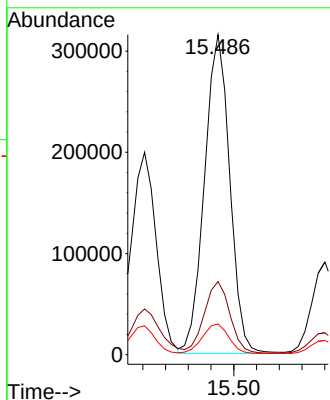
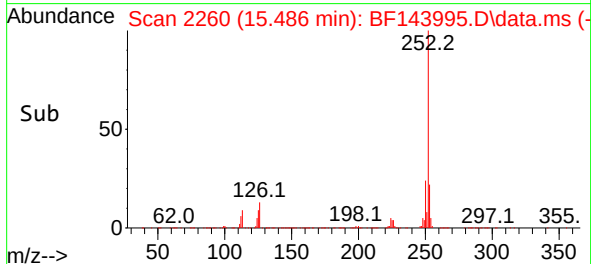
Instrument :
BNA_F
ClientSampleId :
WCS-TP2DL



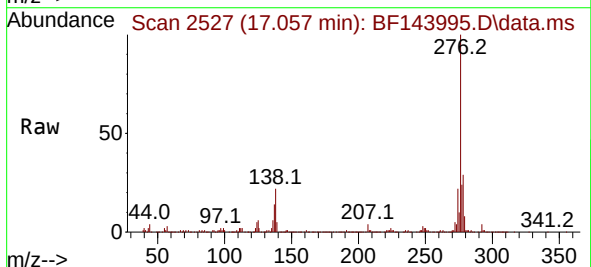
Tgt Ion:252 Resp: 48676
Ion Ratio Lower Upper
252 100
253 22.9 17.3 25.9
125 9.6 7.0 10.4

Manual Integrations
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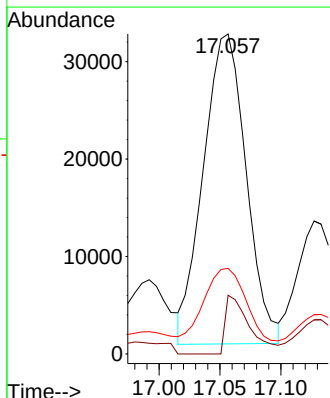
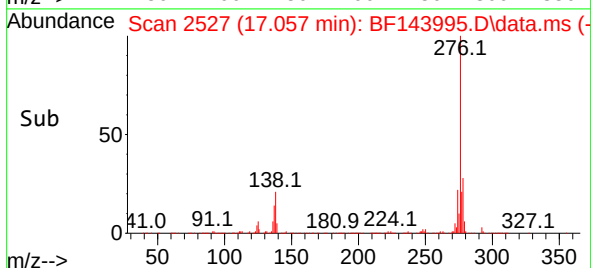
Reviewed By :Rahul Chavli 10/20/2025
Supervised By :Jagrut Upadhyay 10/20/2025

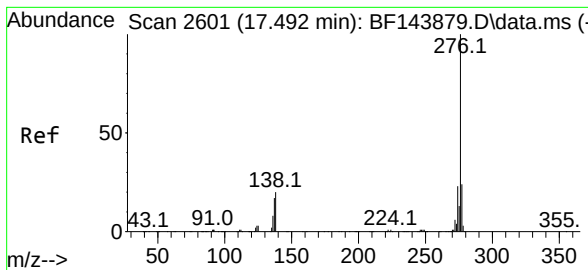


#91
Dibenzo(a,h)anthracene
Concen: 5.016 ng
RT: 17.057 min Scan# 2527
Delta R.T. -0.023 min
Lab File: BF143995.D
Acq: 17 Oct 2025 20:10



Tgt Ion:278 Resp: 77824
Ion Ratio Lower Upper
278 100
139 18.3 11.7 17.5#
279 26.7 18.4 27.6





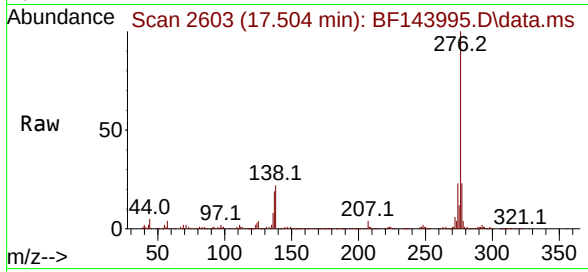
#92
 Benzo(g,h,i)perylene
 Concen: 18.138 ng
 RT: 17.504 min Scan# 20
 Delta R.T. -0.012 min
 Lab File: BF143995.D
 Acq: 17 Oct 2025 20:10

Instrument :

BNA_F

ClientSampleId :

WCS-TP2DL



Tgt Ion:276 Resp: 281408
 Ion Ratio Lower Upper
 276 100
 277 22.9 19.0 28.6
 138 21.6 16.1 24.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 10/20/2025

Supervised By :Jagrut Upadhyay 10/20/2025

