

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092525\
 Data File : BF143805.D
 Acq On : 25 Sep 2025 15:51
 Operator : RC/JU
 Sample : Q3189-01
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 72-11989

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 09/26/2025
 Supervised By :Jagrut Upadhyay 09/26/2025

Quant Time: Sep 25 16:15:17 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 05:00:00 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	118222	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	408216	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	179018	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	259668	20.000	ng	0.00
76) Chrysene-d12	14.051	240	399315	20.000	ng	-0.01
86) Perylene-d12	15.533	264	590308	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	488237	67.097	ng	0.00
7) Phenol-d6	6.498	99	556418	66.181	ng	-0.01
23) Nitrobenzene-d5	7.440	82	332240	49.819	ng	-0.01
42) 2,4,6-Tribromophenol	10.710	330	173043	65.283	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	562532	49.036	ng	0.00
79) Terphenyl-d14	12.998	244	710586	36.191	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.433	178	49627	3.723	ng	99
75) Fluoranthene	12.622	202	171529	12.793	ng	99
78) Pyrene	12.851	202	161890	8.246	ng	97
81) Benzo(a)anthracene	14.045	228	113499	5.291	ng	93
83) Chrysene	14.080	228	124676	6.423	ng	97
87) Indeno(1,2,3-cd)pyrene	17.015	276	104092	2.324	ng	99
88) Benzo(b)fluoranthene	15.098	252	227971m	7.584	ng	
89) Benzo(k)fluoranthene	15.116	252	75729m	2.507	ng	
90) Benzo(a)pyrene	15.468	252	161207	5.705	ng	97
92) Benzo(g,h,i)perylene	17.468	276	116842	3.309	ng	99

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

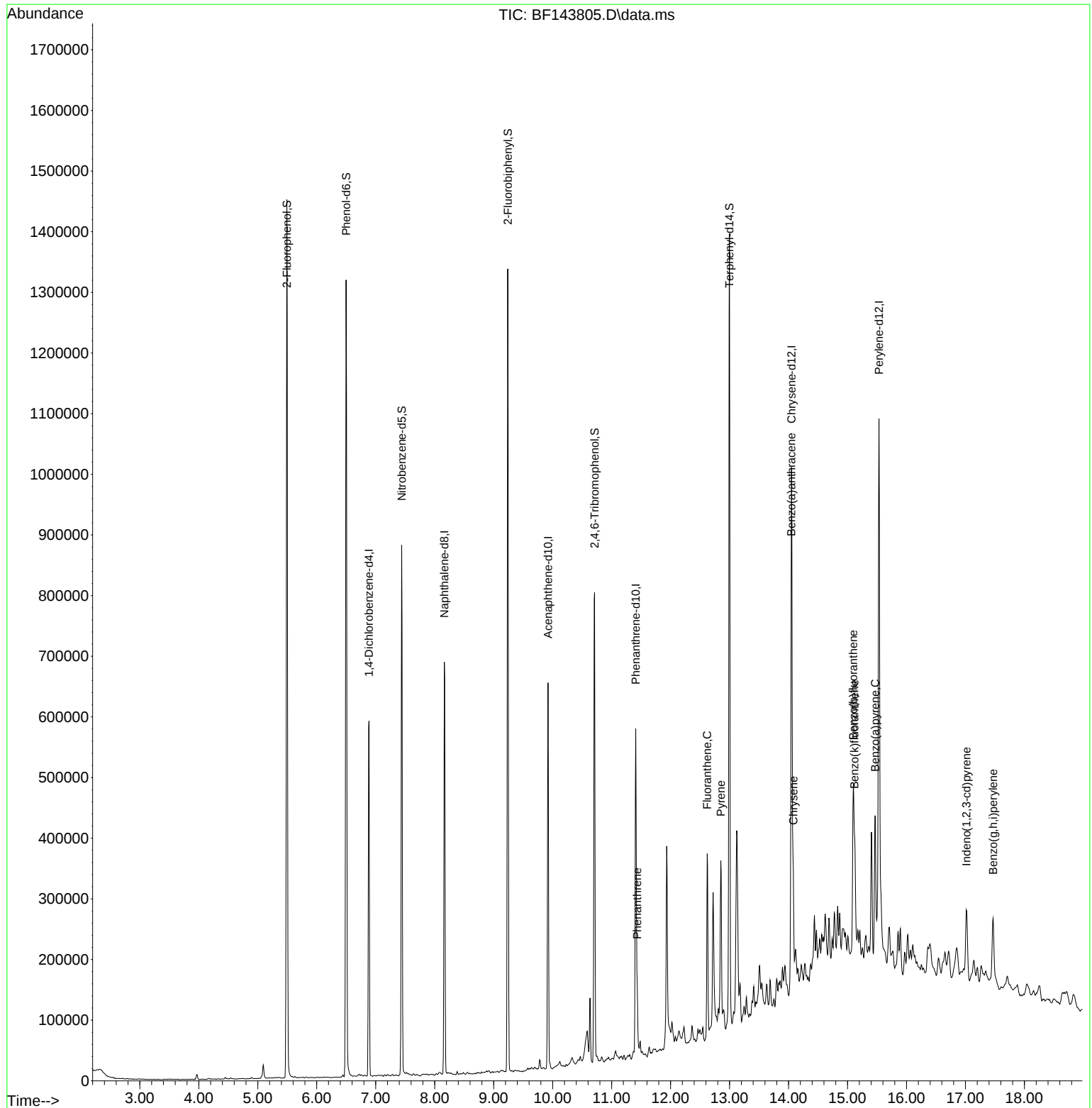
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092525\
Data File : BF143805.D
Acq On : 25 Sep 2025 15:51
Operator : RC/JU
Sample : Q3189-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

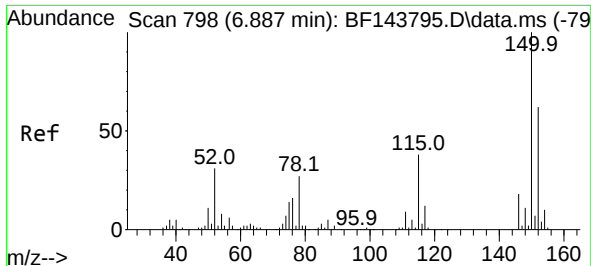
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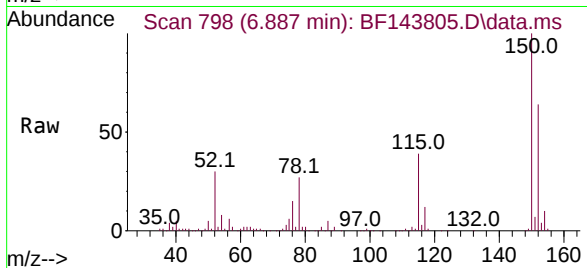
Quant Time: Sep 25 16:15:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 05:00:00 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 798
Delta R.T. -0.000 min
Lab File: BF143805.D
Acq: 25 Sep 2025 15:51

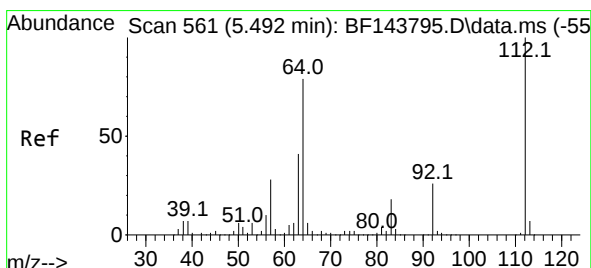
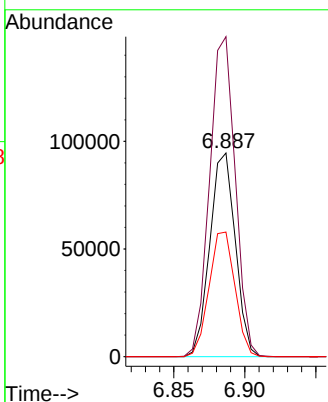
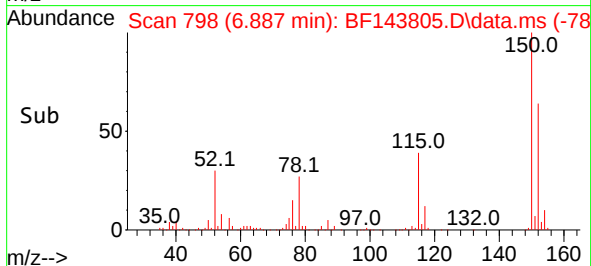
Instrument :
BNA_F
ClientSampleId :
72-11989



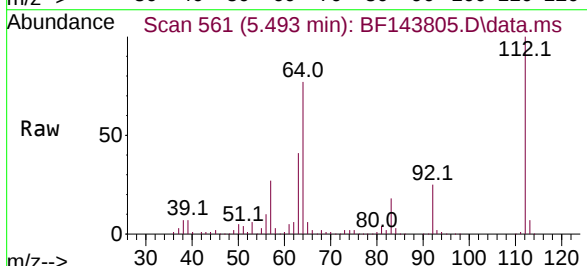
Tgt Ion:152 Resp: 118222
Ion Ratio Lower Upper
152 100
150 157.2 129.6 194.4
115 61.2 49.0 73.4

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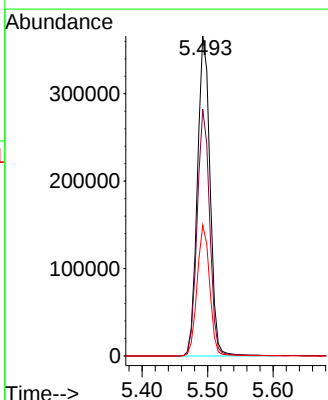
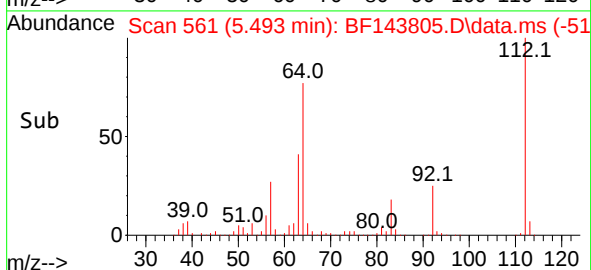
Reviewed By :Rahul Chavli 09/26/2025
Supervised By :Jagrut Upadhyay 09/26/2025



#5
2-Fluorophenol
Concen: 67.097 ng
RT: 5.493 min Scan# 561
Delta R.T. -0.005 min
Lab File: BF143805.D
Acq: 25 Sep 2025 15:51



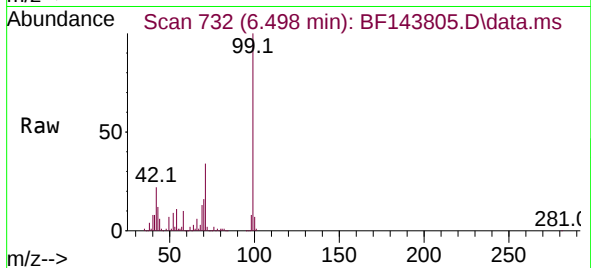
Tgt Ion:112 Resp: 488237
Ion Ratio Lower Upper
112 100
64 77.1 63.0 94.4
63 40.8 32.6 49.0





#7
Phenol-d6
Concen: 66.181 ng
RT: 6.498 min Scan# 731
Delta R.T. -0.012 min
Lab File: BF143805.D
Acq: 25 Sep 2025 15:51

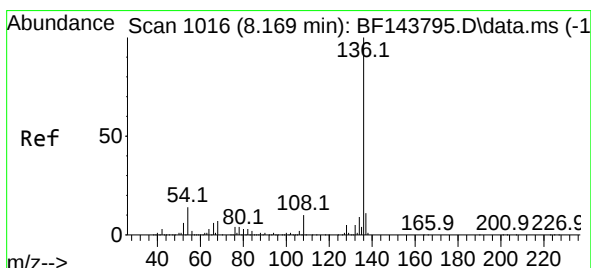
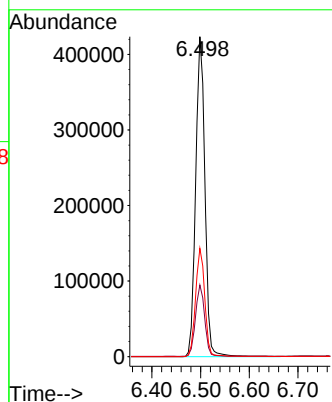
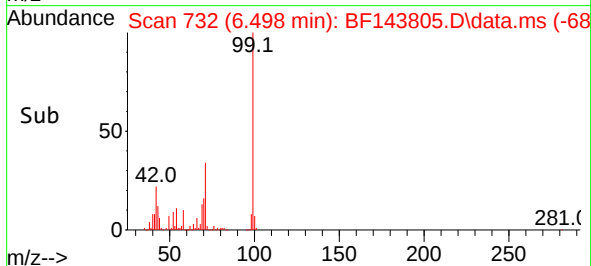
Instrument :
BNA_F
ClientSampleId :
72-11989



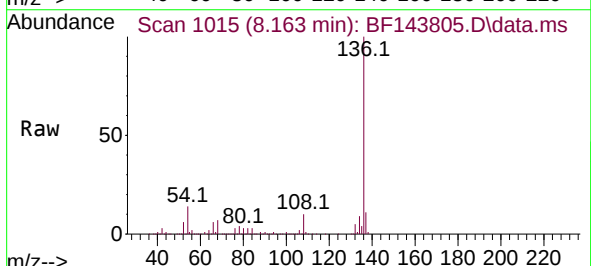
Tgt Ion: 99 Resp: 556418
Ion Ratio Lower Upper
99 100
42 22.4 18.6 28.0
71 33.8 27.0 40.4

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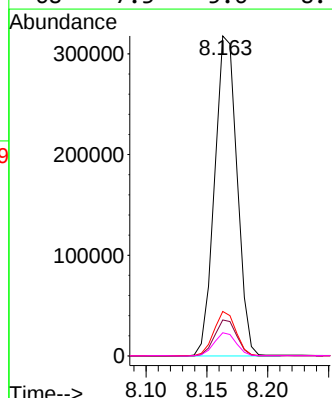
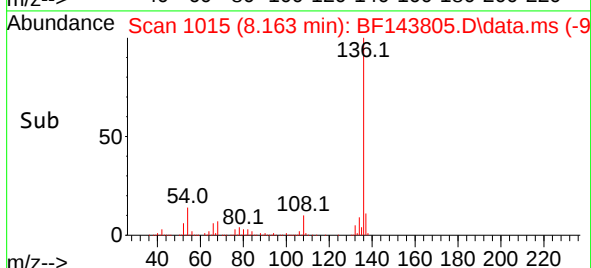
Reviewed By :Rahul Chavli 09/26/2025
Supervised By :Jagrut Upadhyay 09/26/2025

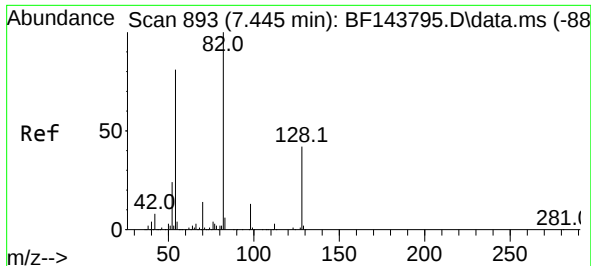


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF143805.D
Acq: 25 Sep 2025 15:51



Tgt Ion:136 Resp: 408216
Ion Ratio Lower Upper
136 100
137 11.2 9.0 13.4
54 13.9 11.2 16.8
68 7.3 5.6 8.4





#23

Nitrobenzene-d5

Concen: 49.819 ng

RT: 7.440 min Scan# 893

Delta R.T. -0.011 min

Lab File: BF143805.D

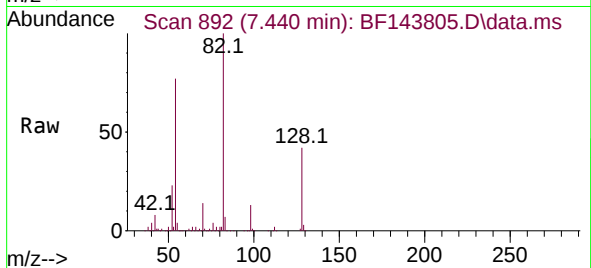
Acq: 25 Sep 2025 15:51

Instrument :

BNA_F

ClientSampleId :

72-11989



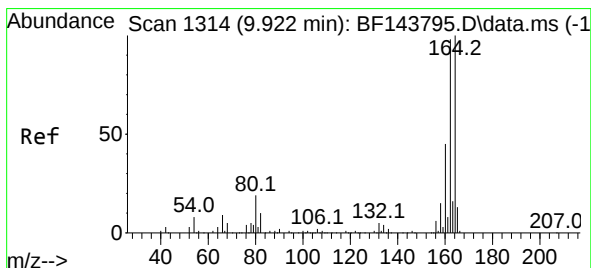
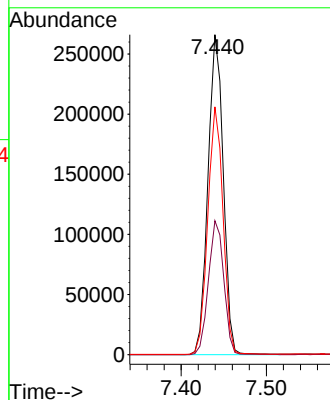
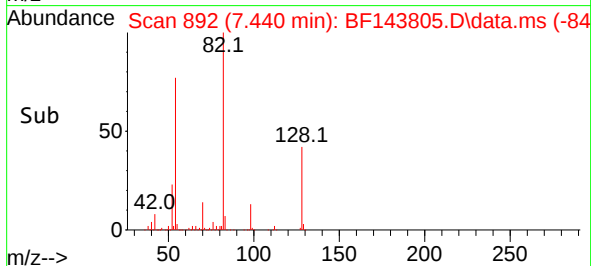
Tgt Ion:	82	Resp:	332240
Ion Ratio	Lower	Upper	
82	100		
128	41.8	33.3	49.9
54	77.4	64.2	96.4

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#39

Acenaphthene-d10

Concen: 20.000 ng

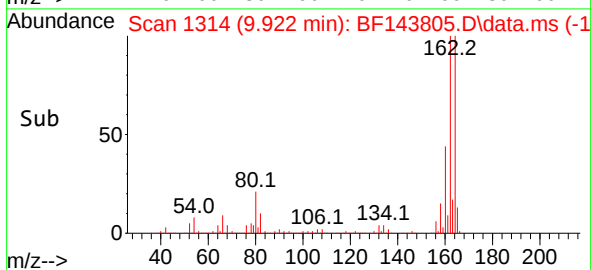
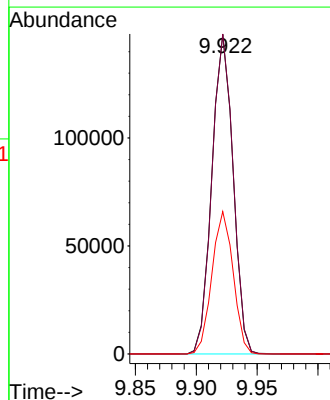
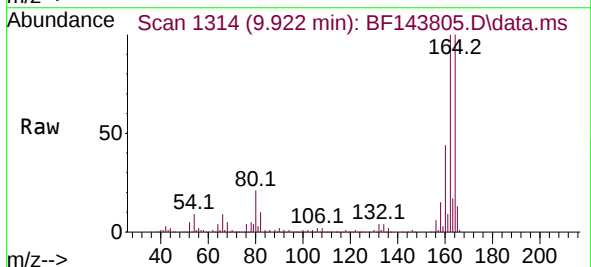
RT: 9.922 min Scan# 1314

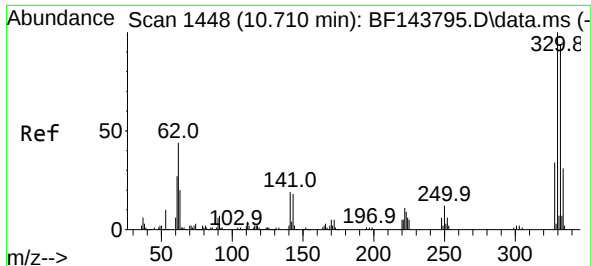
Delta R.T. -0.006 min

Lab File: BF143805.D

Acq: 25 Sep 2025 15:51

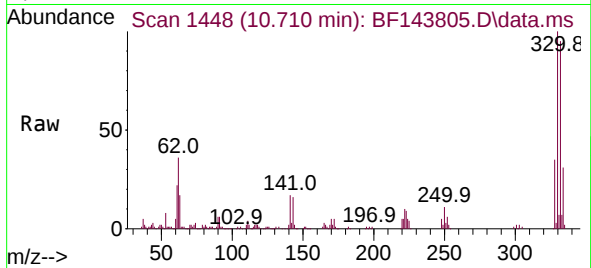
Tgt Ion:	164	Resp:	179018
Ion Ratio	Lower	Upper	
164	100		
162	100.2	78.8	118.2
160	44.6	35.8	53.6





#42
 2,4,6-Tribromophenol
 Concen: 65.283 ng
 RT: 10.710 min Scan# 1448
 Delta R.T. -0.006 min
 Lab File: BF143805.D
 Acq: 25 Sep 2025 15:51

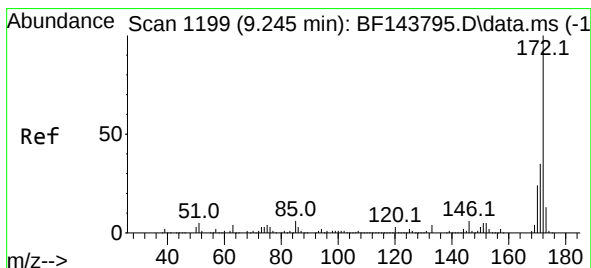
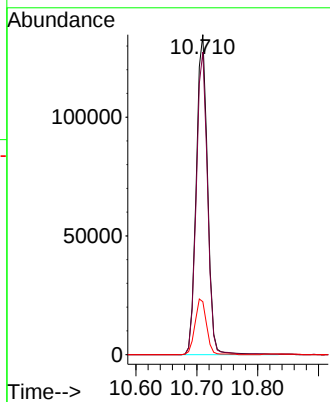
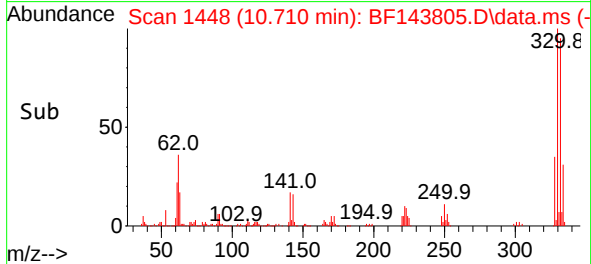
Instrument :
 BNA_F
 ClientSampleId :
 72-11989



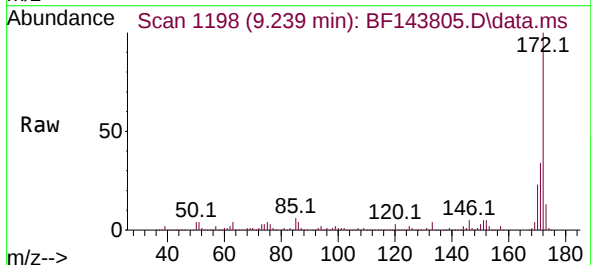
Tgt Ion: 330 Resp: 173043
 Ion Ratio Lower Upper
 330 100
 332 94.0 74.7 112.1
 141 17.8 14.3 21.5

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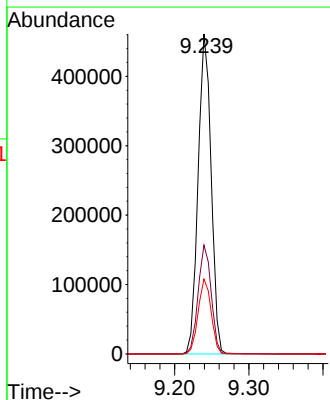
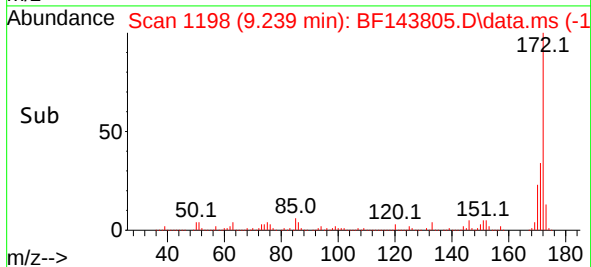
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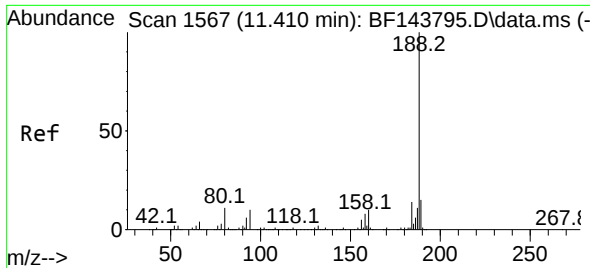


#45
 2-Fluorobiphenyl
 Concen: 49.036 ng
 RT: 9.239 min Scan# 1198
 Delta R.T. -0.006 min
 Lab File: BF143805.D
 Acq: 25 Sep 2025 15:51



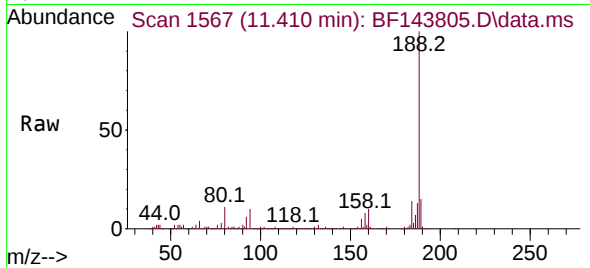
Tgt Ion: 172 Resp: 562532
 Ion Ratio Lower Upper
 172 100
 171 34.0 27.9 41.9
 170 23.4 19.1 28.7





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143805.D
Acq: 25 Sep 2025 15:51

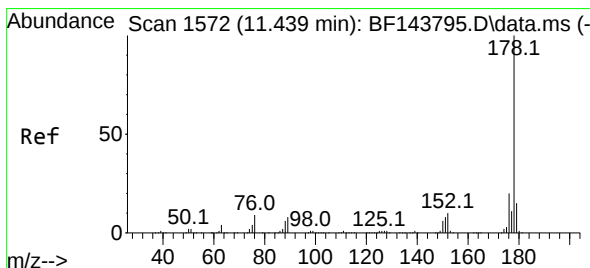
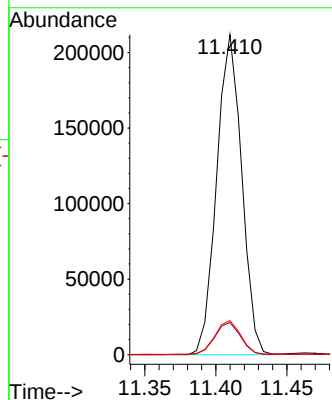
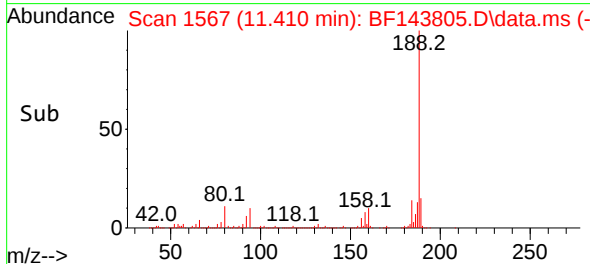
Instrument :
BNA_F
ClientSampleId :
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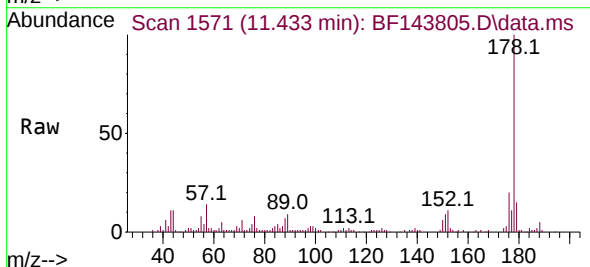
Tgt Ion:188 Resp: 259668
Ion Ratio Lower Upper
188 100
94 10.0 8.2 12.2
80 10.6 8.6 12.8

Manual Integrations
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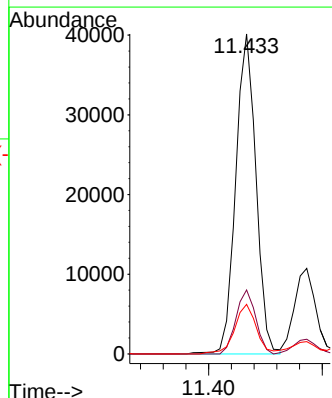
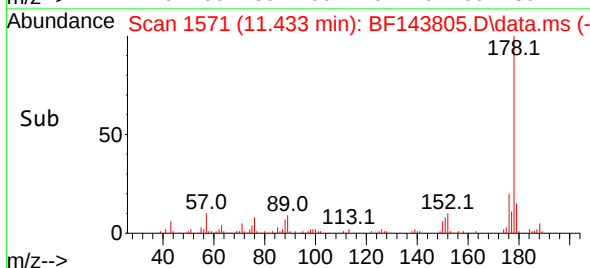
Reviewed By :Rahul Chavli 09/26/2025
Supervised By :Jagrut Upadhyay 09/26/2025

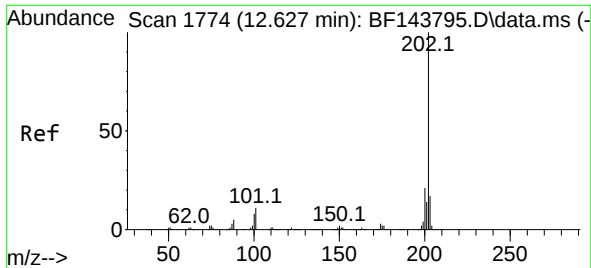


#71
Phenanthrene
Concen: 3.723 ng
RT: 11.433 min Scan# 1571
Delta R.T. -0.006 min
Lab File: BF143805.D
Acq: 25 Sep 2025 15:51



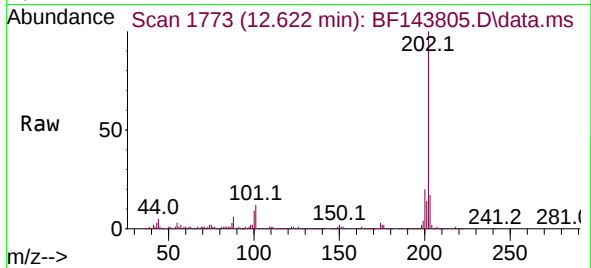
Tgt Ion:178 Resp: 49627
Ion Ratio Lower Upper
178 100
176 20.0 15.6 23.4
179 15.5 12.2 18.4





#75
Fluoranthene
Concen: 12.793 ng
RT: 12.622 min Scan# 1774
Delta R.T. -0.006 min
Lab File: BF143805.D
Acq: 25 Sep 2025 15:51

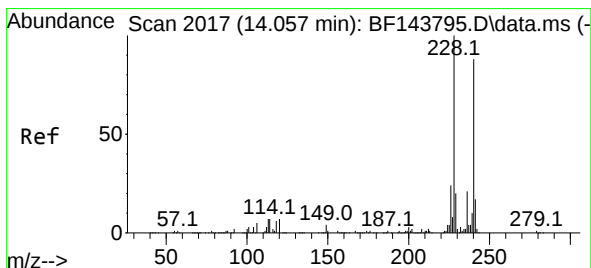
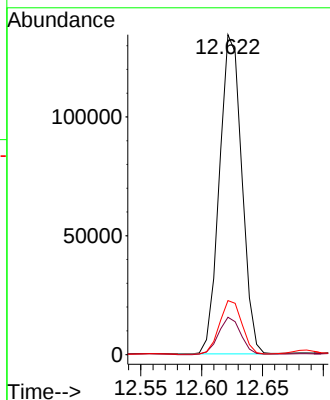
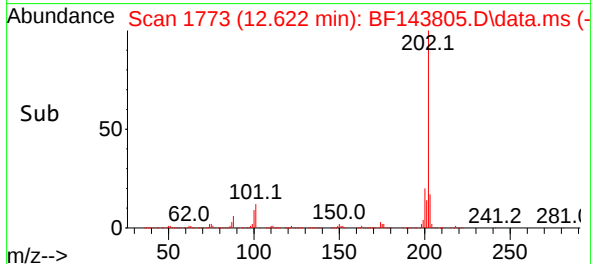
Instrument :
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72-11989



Tgt Ion:202 Resp: 171529
Ion Ratio Lower Upper
202 100
101 11.7 0.0 31.1
203 16.9 0.0 37.4

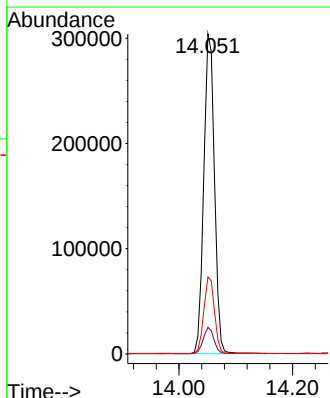
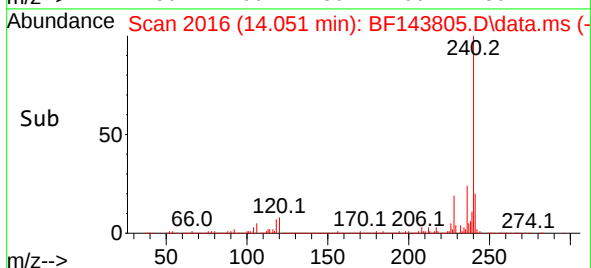
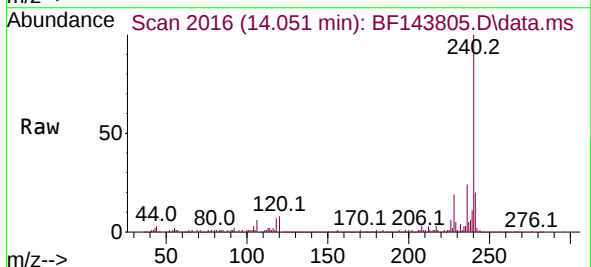
Manual Integrations
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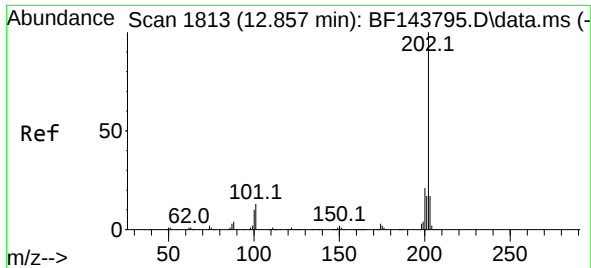
Reviewed By :Rahul Chavli 09/26/2025
Supervised By :Jagrut Upadhyay 09/26/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2016
Delta R.T. -0.012 min
Lab File: BF143805.D
Acq: 25 Sep 2025 15:51

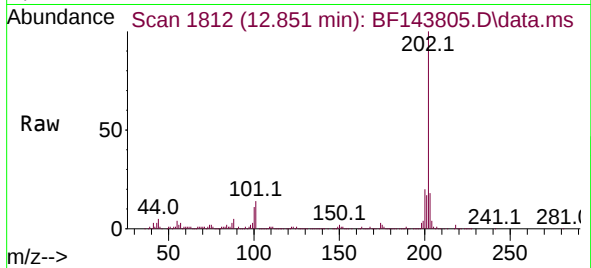
Tgt Ion:240 Resp: 399315
Ion Ratio Lower Upper
240 100
120 8.3 6.2 9.4
236 24.1 19.4 29.2





#78
Pyrene
Concen: 8.246 ng
RT: 12.851 min Scan# 1813
Delta R.T. -0.006 min
Lab File: BF143805.D
Acq: 25 Sep 2025 15:51

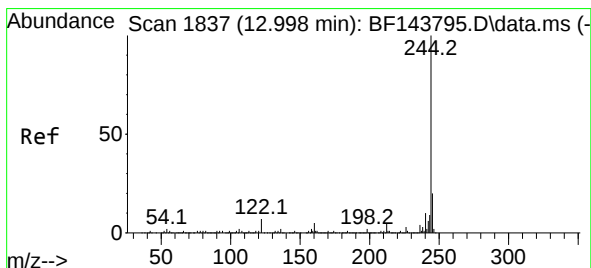
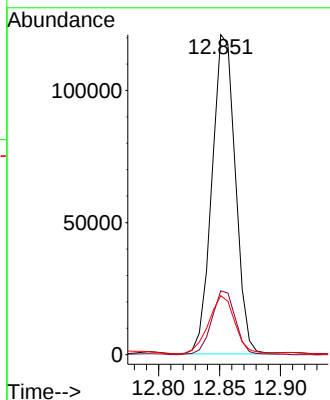
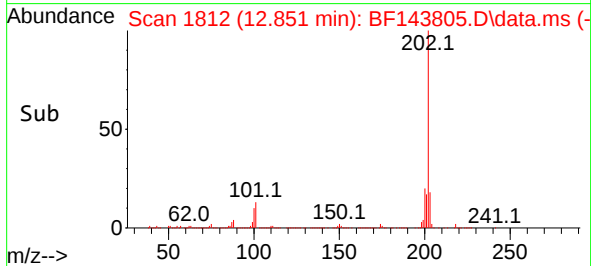
Instrument :
BNA_F
ClientSampleId :
72-11989



Tgt Ion:202 Resp: 161890
Ion Ratio Lower Upper
202 100
200 19.9 17.0 25.4
203 18.4 13.9 20.9

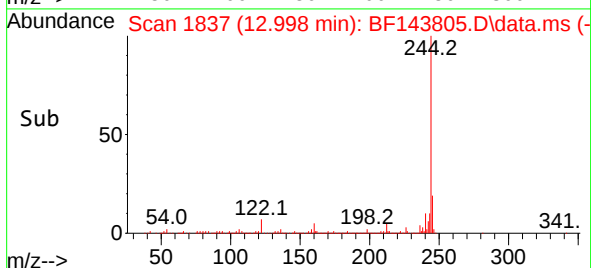
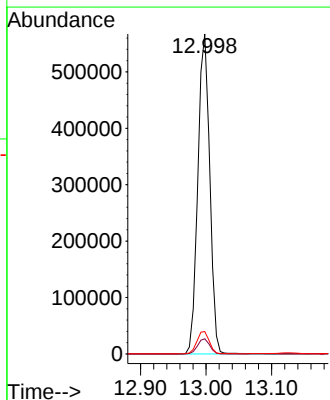
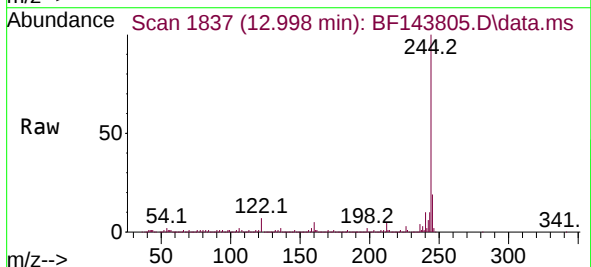
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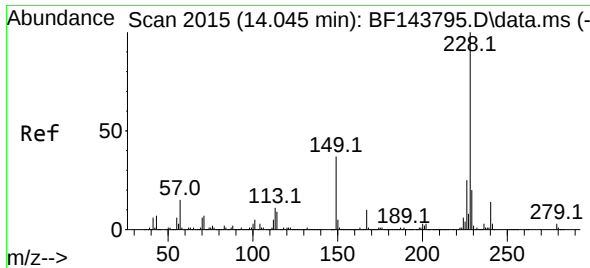
Reviewed By :Rahul Chavli 09/26/2025
Supervised By :Jagrut Upadhyay 09/26/2025



#79
Terphenyl-d14
Concen: 36.191 ng
RT: 12.998 min Scan# 1837
Delta R.T. -0.006 min
Lab File: BF143805.D
Acq: 25 Sep 2025 15:51

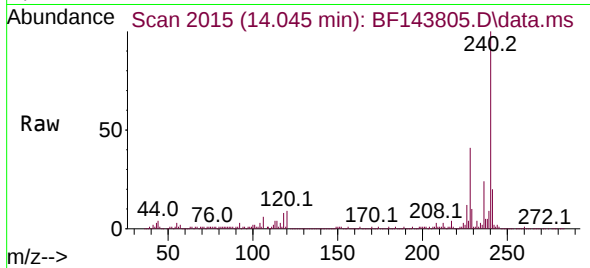
Tgt Ion:244 Resp: 710586
Ion Ratio Lower Upper
244 100
212 4.7 3.9 5.9
122 7.0 5.6 8.4





#81
Benzo(a)anthracene
Concen: 5.291 ng
RT: 14.045 min Scan# 2015
Delta R.T. -0.006 min
Lab File: BF143805.D
Acq: 25 Sep 2025 15:51

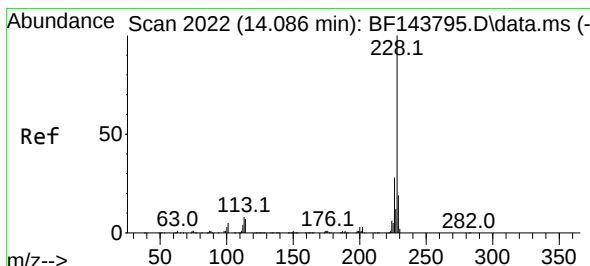
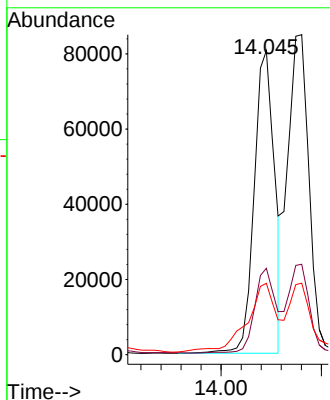
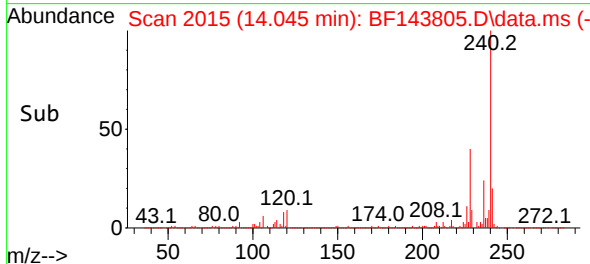
Instrument : BNA_F
ClientSampleId : 72-11989



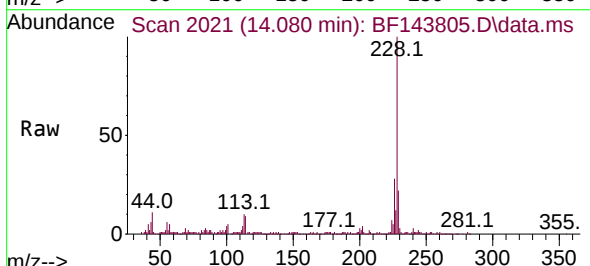
Tgt Ion:228 Resp: 113499
Ion Ratio Lower Upper
228 100
226 28.4 20.2 30.2
229 23.5 16.1 24.1

Manual Integrations
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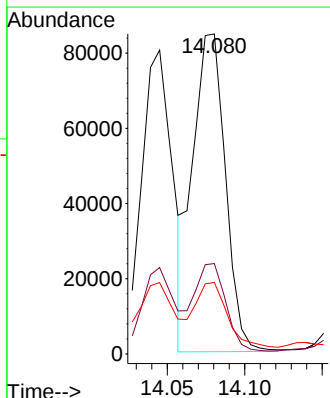
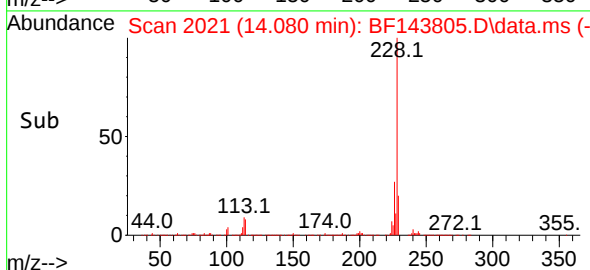
Reviewed By :Rahul Chavli 09/26/2025
Supervised By :Jagrut Upadhyay 09/26/2025

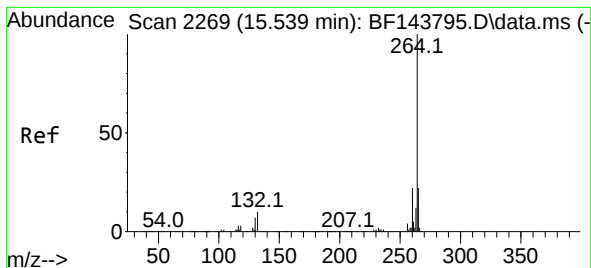


#83
Chrysene
Concen: 6.423 ng
RT: 14.080 min Scan# 2021
Delta R.T. -0.006 min
Lab File: BF143805.D
Acq: 25 Sep 2025 15:51



Tgt Ion:228 Resp: 124676
Ion Ratio Lower Upper
228 100
226 28.2 22.6 33.8
229 22.3 15.6 23.4





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.533 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF143805.D

Acq: 25 Sep 2025 15:51

Instrument :

BNA_F

ClientSampleId :

72-11989

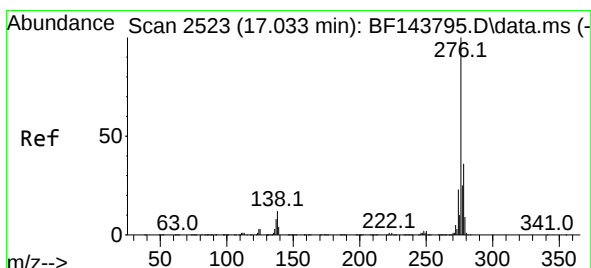
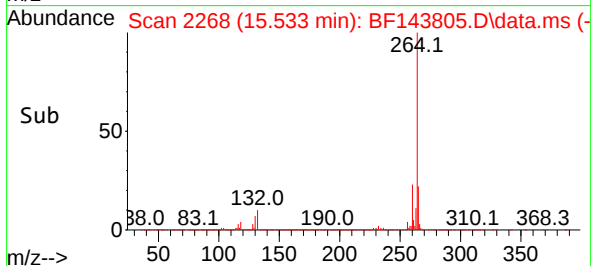
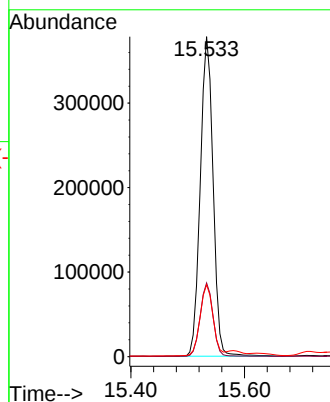
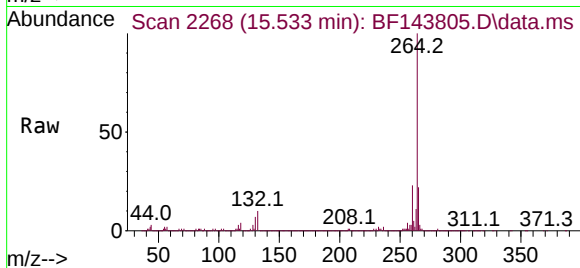
Tgt Ion:	264	Resp:	590308
Ion Ratio	Lower	Upper	
264	100		
260	23.0	17.9	26.9
265	22.5	17.7	26.5

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.324 ng

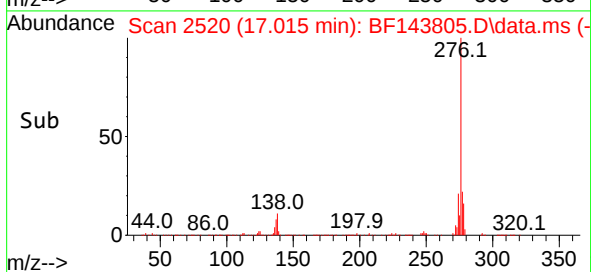
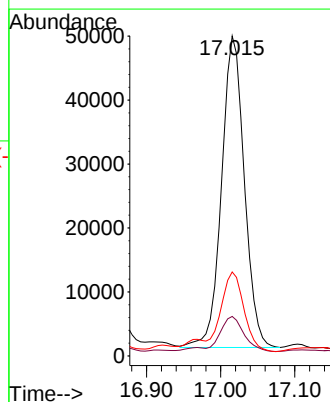
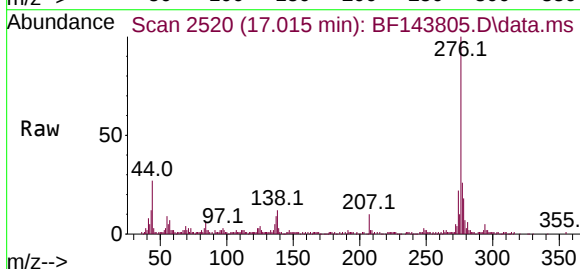
RT: 17.015 min Scan# 2520

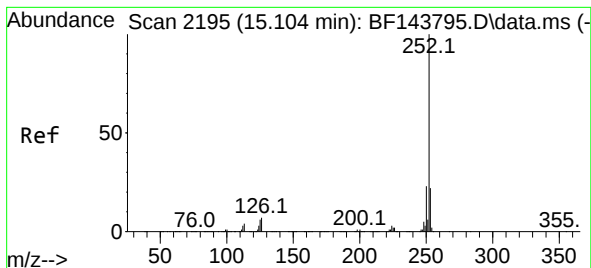
Delta R.T. -0.029 min

Lab File: BF143805.D

Acq: 25 Sep 2025 15:51

Tgt Ion:	276	Resp:	104092
Ion Ratio	Lower	Upper	
276	100		
138	11.7	10.6	15.8
277	25.7	20.7	31.1





#88

Benzo(b)fluoranthene

Concen: 7.584 ng m

RT: 15.098 min Scan# 2197

Delta R.T. -0.006 min

Lab File: BF143805.D

Acq: 25 Sep 2025 15:51

Instrument :

BNA_F

ClientSampleId :

72-11989

Tgt Ion:252 Resp: 22797

Ion Ratio Lower Upper

252 100

253 23.5 17.8 26.8

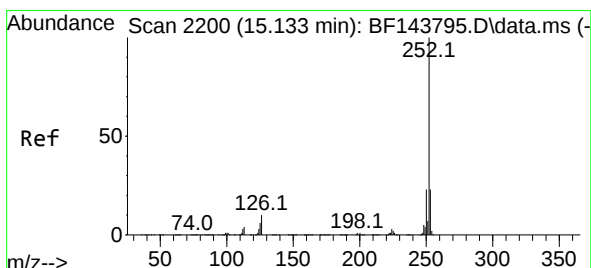
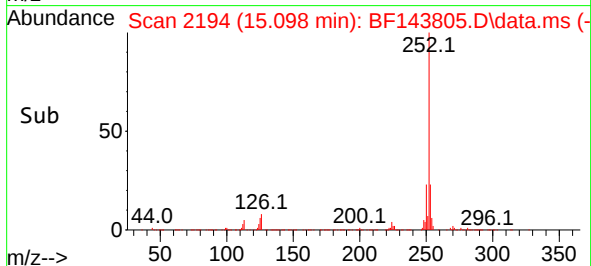
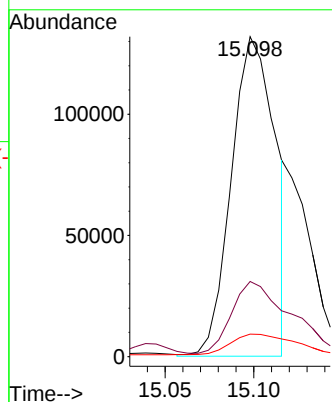
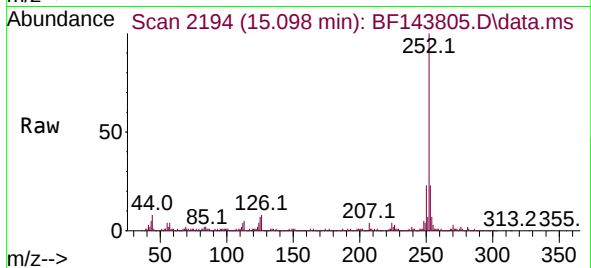
125 7.0 4.4 6.6

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 09/26/2025

Supervised By :Jagrut Upadhyay 09/26/2025



#89

Benzo(k)fluoranthene

Concen: 2.507 ng m

RT: 15.116 min Scan# 2197

Delta R.T. -0.023 min

Lab File: BF143805.D

Acq: 25 Sep 2025 15:51

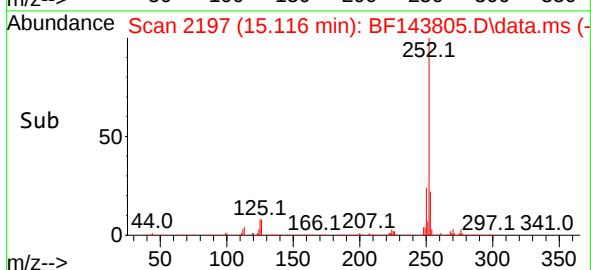
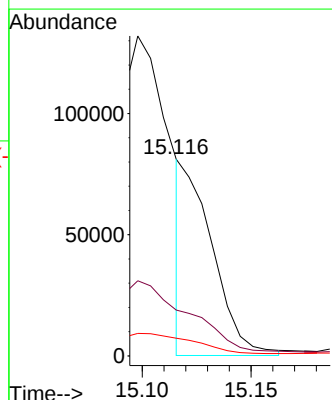
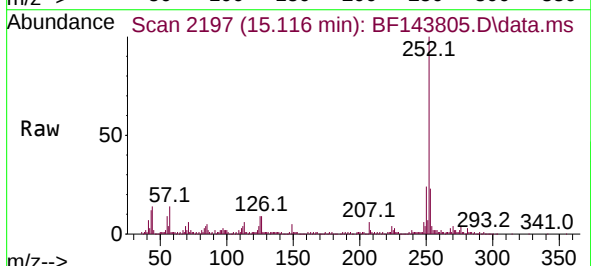
Tgt Ion:252 Resp: 75729

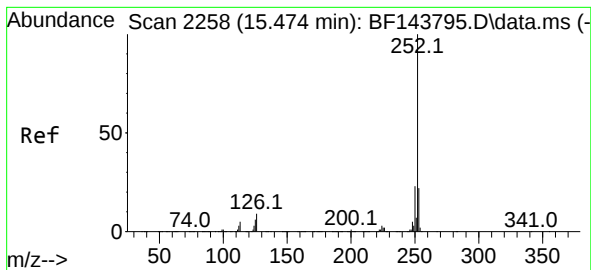
Ion Ratio Lower Upper

252 100

253 23.3 17.9 26.9

125 9.0 4.6 6.8





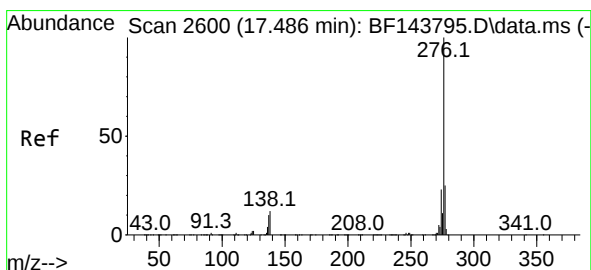
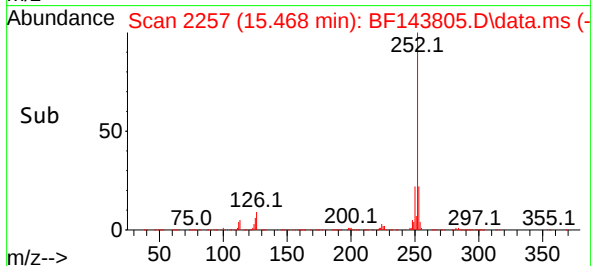
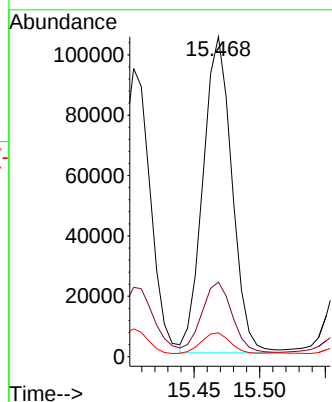
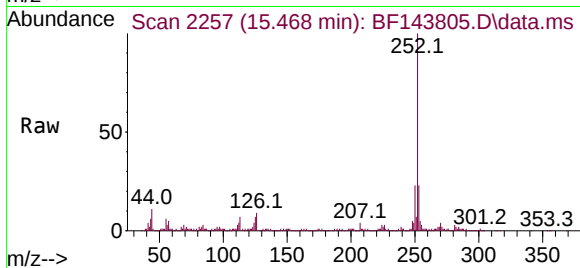
#90
Benzo(a)pyrene
Concen: 5.705 ng
RT: 15.468 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF143805.D
Acq: 25 Sep 2025 15:51

Instrument :
BNA_F
ClientSampleId :
72-11989

Tgt Ion:252 Resp: 16120
Ion Ratio Lower Upper
252 100
253 23.3 17.6 26.4
125 7.4 5.0 7.4

Manual Integrations
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Reviewed By :Rahul Chavli 09/26/2025
Supervised By :Jagrut Upadhyay 09/26/2025



#92
Benzo(g,h,i)perylene
Concen: 3.309 ng
RT: 17.468 min Scan# 2597
Delta R.T. -0.035 min
Lab File: BF143805.D
Acq: 25 Sep 2025 15:51

Tgt Ion:276 Resp: 116842
Ion Ratio Lower Upper
276 100
277 24.3 19.6 29.4
138 12.8 9.2 13.8

