

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022025\
 Data File : BF141706.D
 Acq On : 20 Feb 2025 16:35
 Operator : RC/JU
 Sample : Q1384-01 5X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-03-021823025

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 02/21/2025
 Supervised By :Jagrut Upadhyay 02/21/2025

Quant Time: Feb 20 17:07:54 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 16:58:59 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	79357	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	308262	20.000	ng	-0.01
39) Acenaphthene-d10	9.810	164	153555	20.000	ng	-0.02
64) Phenanthrene-d10	11.298	188	213106	20.000	ng	-0.02
76) Chrysene-d12	13.933	240	160801	20.000	ng	-0.03
86) Perylene-d12	15.380	264	143212	20.000	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.399	112	90960	17.970	ng	-0.01
7) Phenol-d6	6.422	99	116480	18.206	ng	-0.02
23) Nitrobenzene-d5	7.346	82	69612	11.778	ng	-0.02
42) 2,4,6-Tribromophenol	10.604	330	20806	13.488	ng	-0.02
45) 2-Fluorobiphenyl	9.134	172	138224	13.868	ng	-0.02
79) Terphenyl-d14	12.880	244	103474	10.863	ng	-0.02
Target Compounds						Qvalue
52) Acenaphthene	9.845	154	17840	2.027	ng	99
58) Fluorene	10.363	166	26234	2.626	ng	97
71) Phenanthrene	11.322	178	189513	16.156	ng	98
72) Anthracene	11.375	178	53331	4.523	ng	98
75) Fluoranthene	12.510	202	221289	17.793	ng	99
78) Pyrene	12.739	202	185863	13.578	ng	99
81) Benzo(a)anthracene	13.927	228	99389	9.298	ng	98
83) Chrysene	13.963	228	72841	7.380	ng	96
87) Indeno(1,2,3-cd)pyrene	16.810	276	31446	3.554	ng	96
88) Benzo(b)fluoranthene	14.963	252	93448m	9.718	ng	
89) Benzo(k)fluoranthene	14.980	252	30791m	3.750	ng	
90) Benzo(a)pyrene	15.316	252	65647	8.437	ng	96
92) Benzo(g,h,i)perylene	17.239	276	31754	4.232	ng	98

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

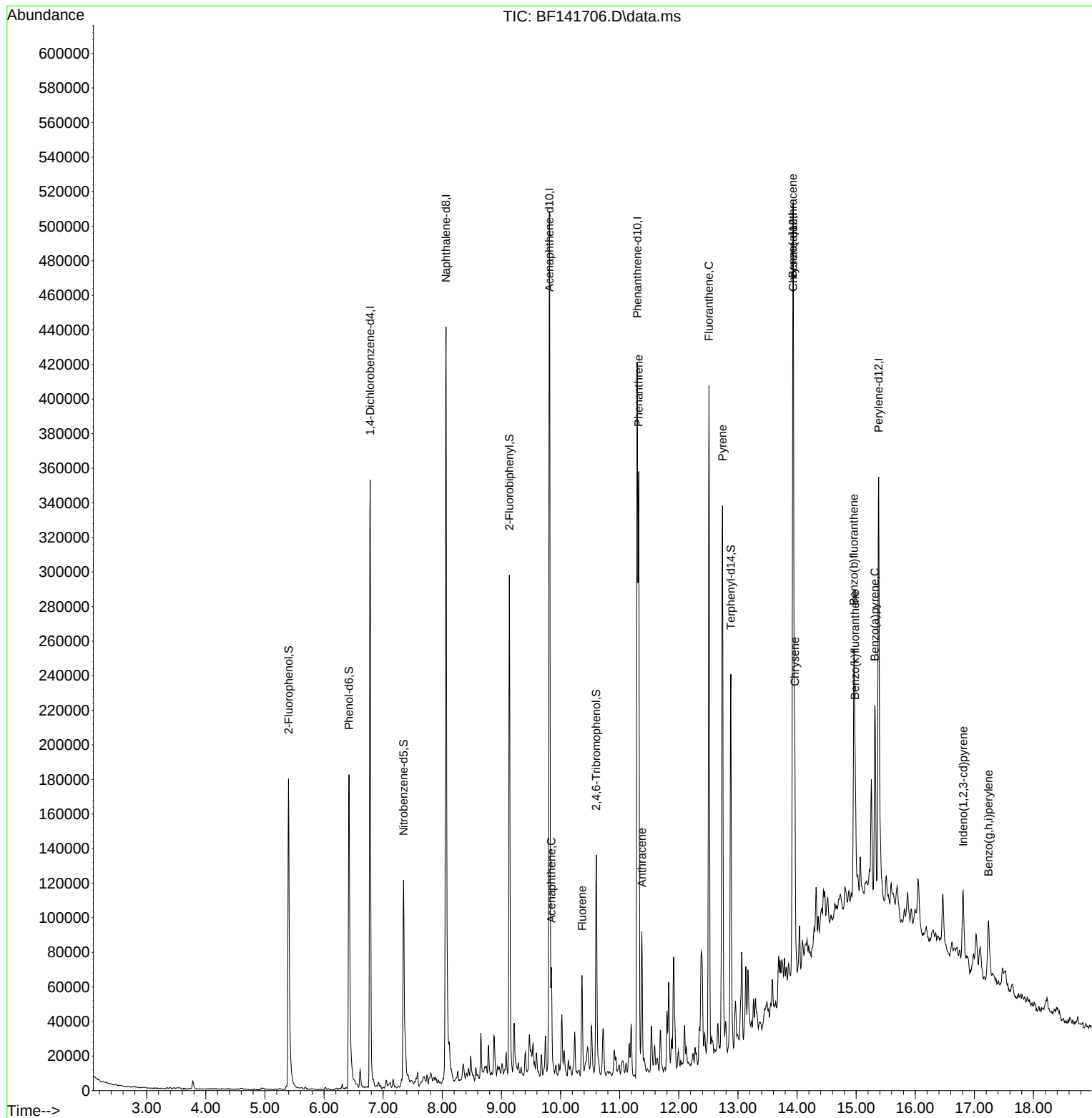
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022025\
Data File : BF141706.D
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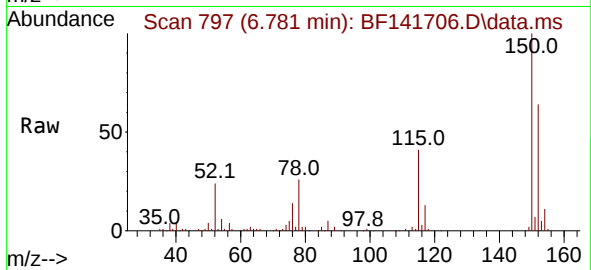
Reviewed By :Rahul Chavli 02/21/2025
Supervised By :Jagrut Upadhyay 02/21/2025





#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.781 min Scan# 798
 Delta R.T. -0.011 min
 Lab File: BF141706.D
 Acq: 20 Feb 2025 16:35

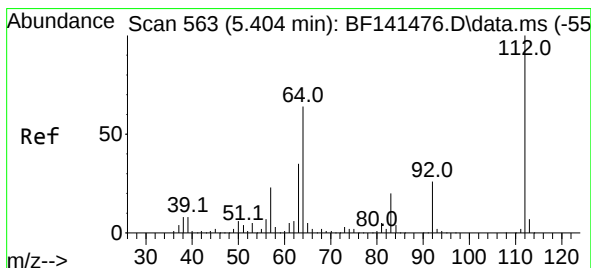
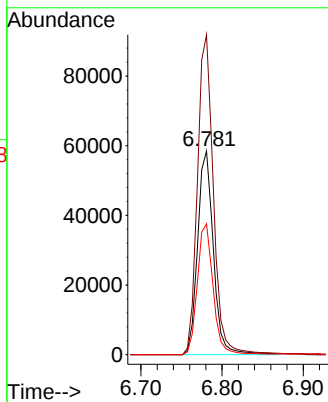
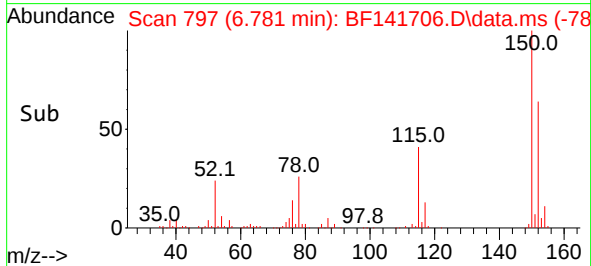
Instrument :
 BNA_F
 ClientSampleId :
 OR-03-021823025



Tgt Ion:152 Resp: 7935
 Ion Ratio Lower Upper
 152 100
 150 157.1 125.0 187.4
 115 64.2 53.6 80.4

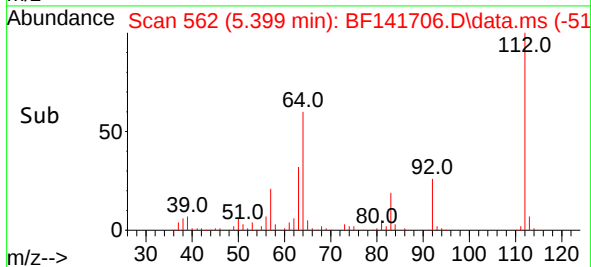
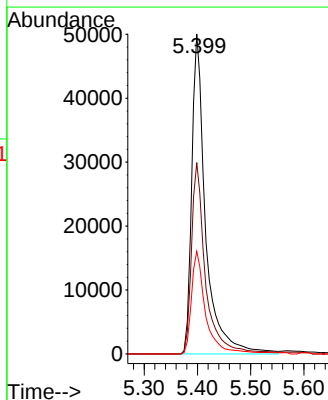
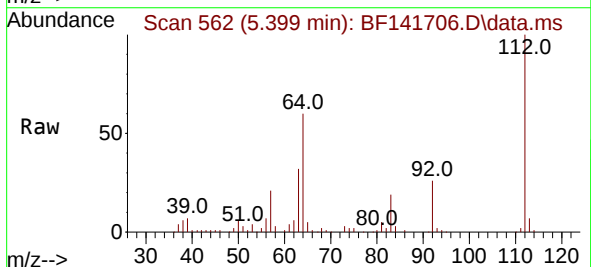
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Reviewed By :Rahul Chavli 02/21/2025
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#5
 2-Fluorophenol
 Concen: 17.970 ng
 RT: 5.399 min Scan# 562
 Delta R.T. -0.011 min
 Lab File: BF141706.D
 Acq: 20 Feb 2025 16:35

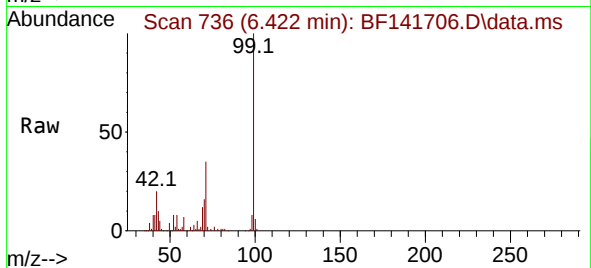
Tgt Ion:112 Resp: 90960
 Ion Ratio Lower Upper
 112 100
 64 59.8 51.1 76.7
 63 32.1 28.4 42.6





#7
Phenol-d6
Concen: 18.206 ng
RT: 6.422 min Scan# 71
Delta R.T. -0.017 min
Lab File: BF141706.D
Acq: 20 Feb 2025 16:35

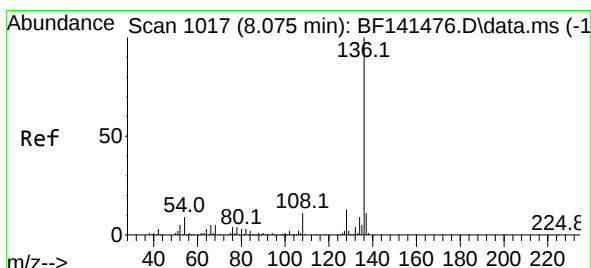
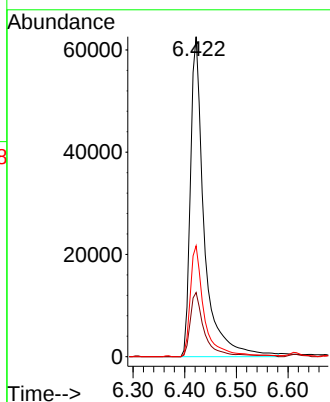
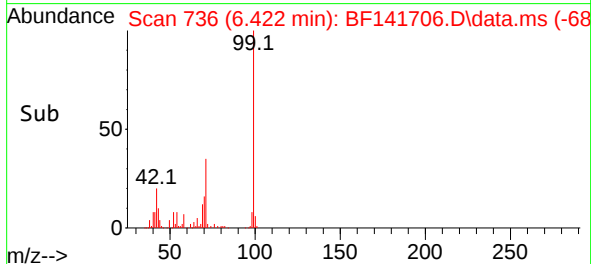
Instrument :
BNA_F
ClientSampleId :
OR-03-021823025



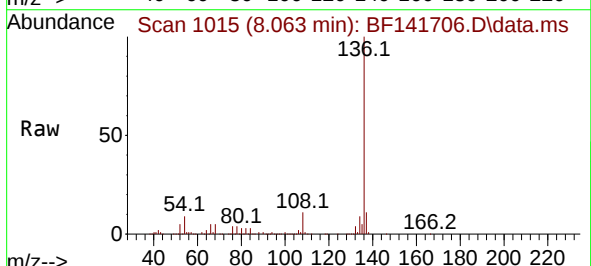
Tgt Ion: 99 Resp: 116480
Ion Ratio Lower Upper
99 100
42 20.0 19.1 28.7
71 34.7 31.1 46.7

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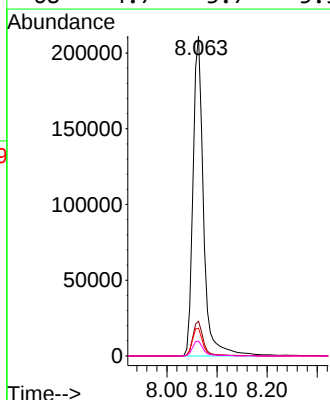
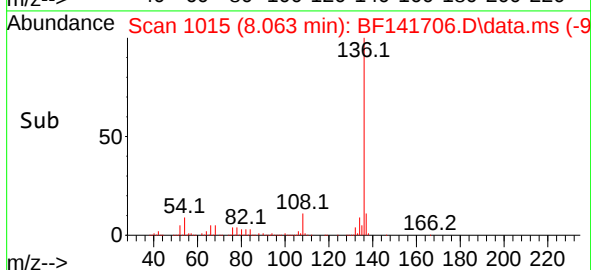
Reviewed By :Rahul Chavli 02/21/2025
Supervised By :Jagrut Upadhyay 02/21/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.011 min
Lab File: BF141706.D
Acq: 20 Feb 2025 16:35



Tgt Ion:136 Resp: 308262
Ion Ratio Lower Upper
136 100
137 10.9 8.6 13.0
54 8.7 7.2 10.8
68 4.7 3.7 5.5





#23

Nitrobenzene-d5

Concen: 11.778 ng

RT: 7.346 min Scan# 89

Delta R.T. -0.017 min

Lab File: BF141706.D

Acq: 20 Feb 2025 16:35

Instrument :

BNA_F

ClientSampleId :

OR-03-021823025

Tgt Ion: 82 Resp: 6961

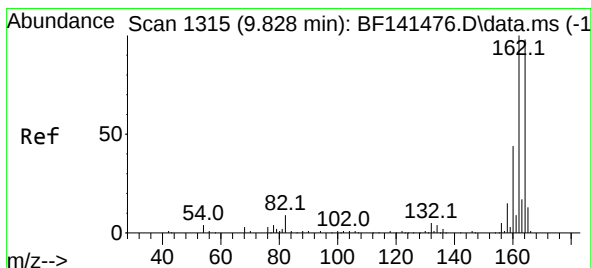
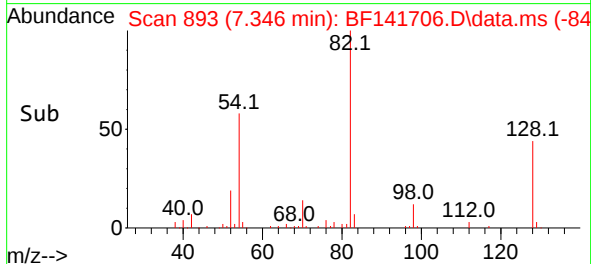
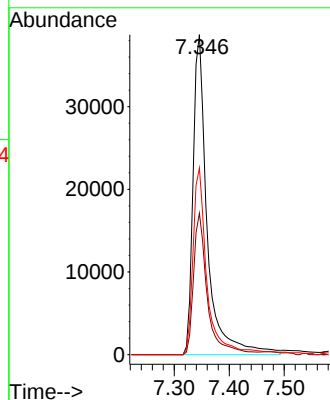
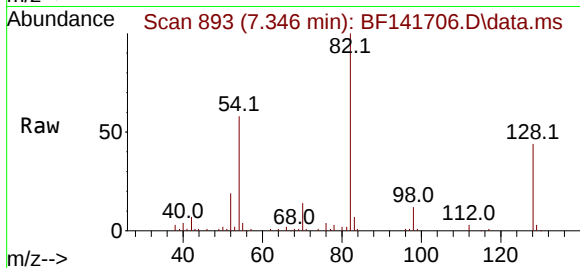
Ion	Ratio	Lower	Upper
82	100		
128	44.2	34.8	52.2
54	58.4	48.2	72.4

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#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.810 min Scan# 1312

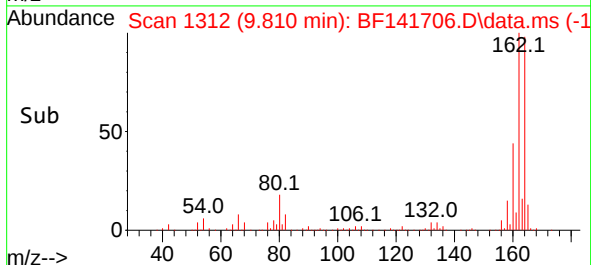
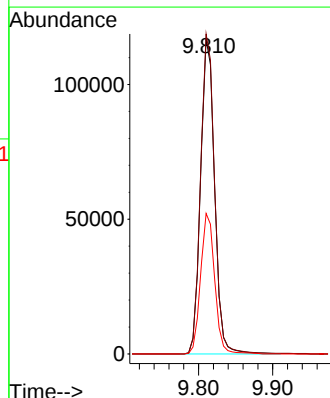
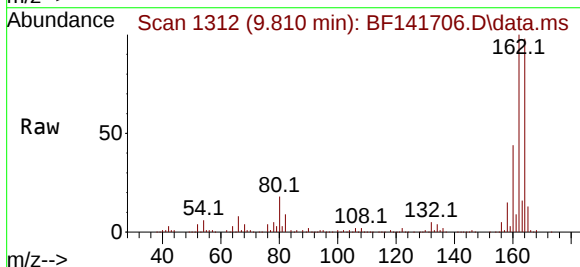
Delta R.T. -0.023 min

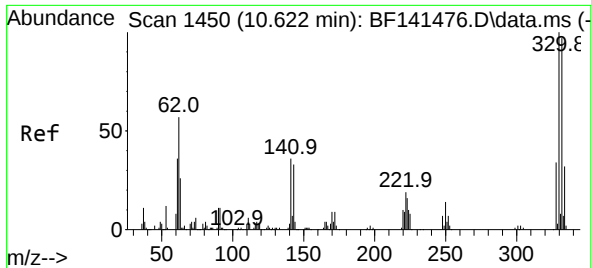
Lab File: BF141706.D

Acq: 20 Feb 2025 16:35

Tgt Ion:164 Resp: 153555

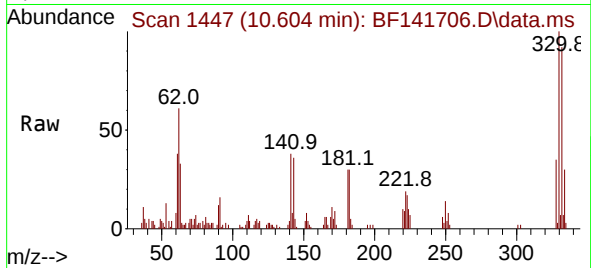
Ion	Ratio	Lower	Upper
164	100		
162	101.7	81.3	121.9
160	44.7	35.9	53.9





#42
2,4,6-Tribromophenol
Concen: 13.488 ng
RT: 10.604 min Scan# 1450
Delta R.T. -0.023 min
Lab File: BF141706.D
Acq: 20 Feb 2025 16:35

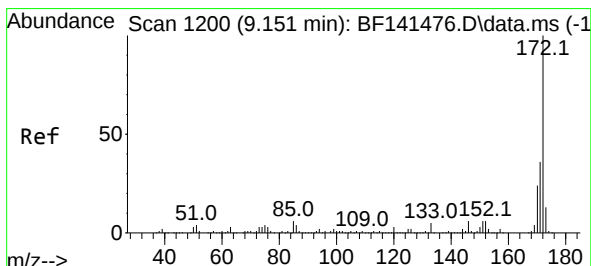
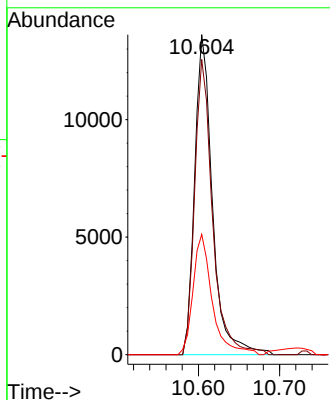
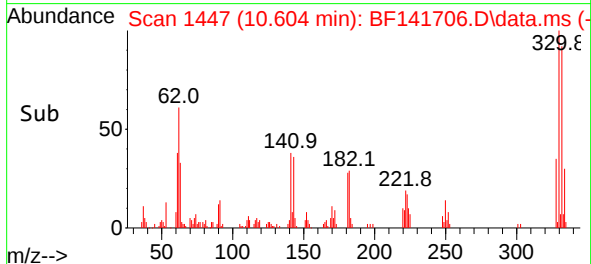
Instrument :
BNA_F
ClientSampleId :
OR-03-021823025



Tgt Ion: 330 Resp: 20800
Ion Ratio Lower Upper
330 100
332 92.3 78.5 117.7
141 40.4 31.0 46.4

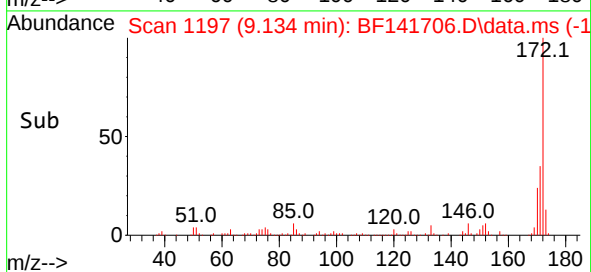
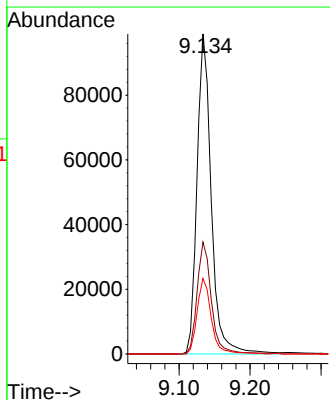
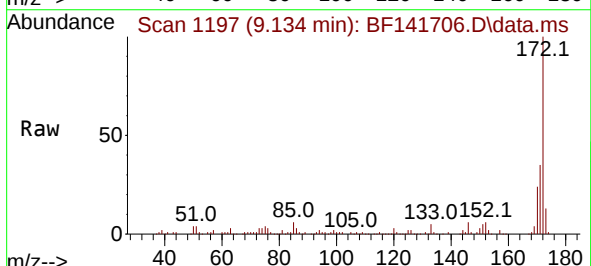
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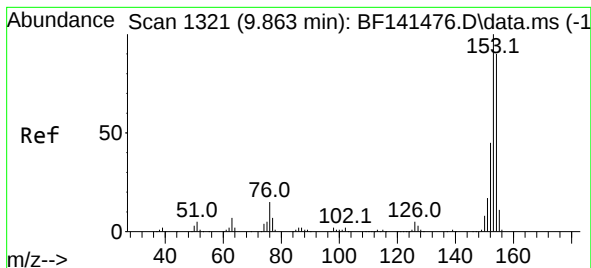
Reviewed By :Rahul Chavli 02/21/2025
Supervised By :Jagrut Upadhyay 02/21/2025



#45
2-Fluorobiphenyl
Concen: 13.868 ng
RT: 9.134 min Scan# 1197
Delta R.T. -0.017 min
Lab File: BF141706.D
Acq: 20 Feb 2025 16:35

Tgt Ion: 172 Resp: 138224
Ion Ratio Lower Upper
172 100
171 34.9 28.7 43.1
170 23.6 18.9 28.3





#52

Acenaphthene

Concen: 2.027 ng

RT: 9.845 min Scan# 11

Delta R.T. -0.023 min

Lab File: BF141706.D

Acq: 20 Feb 2025 16:35

Instrument :

BNA_F

ClientSampleId :

OR-03-021823025

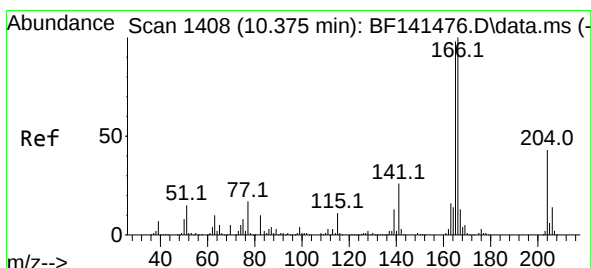
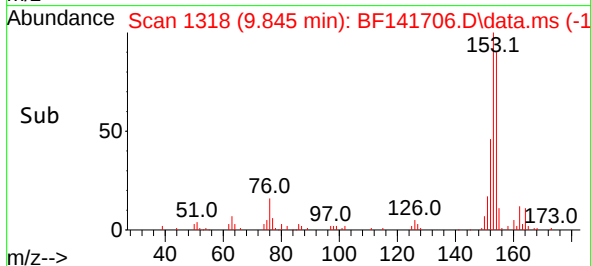
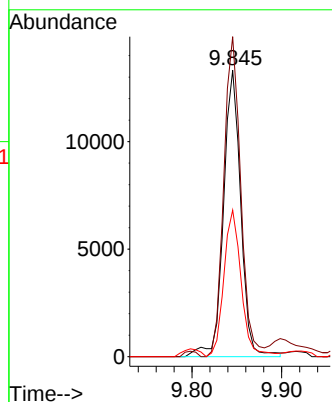
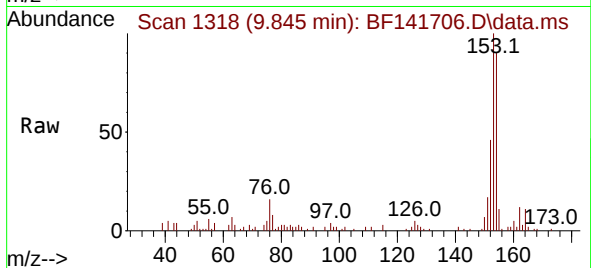
Tgt Ion:154 Resp: 17840
 Ion Ratio Lower Upper
 154 100
 153 111.7 89.2 133.8
 152 51.2 39.8 59.8

Manual Integrations

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Supervised By :Jagrut Upadhyay 02/21/2025



#58

Fluorene

Concen: 2.626 ng

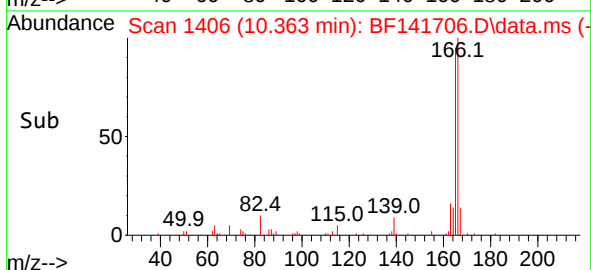
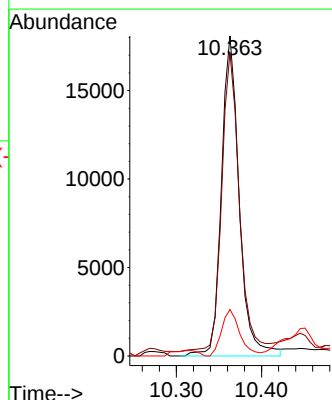
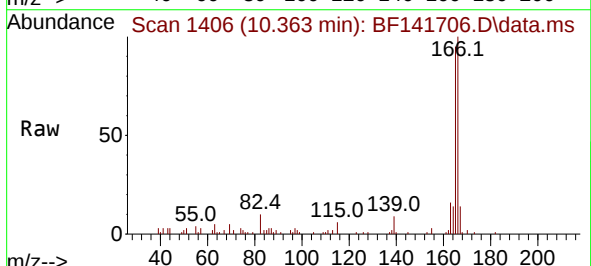
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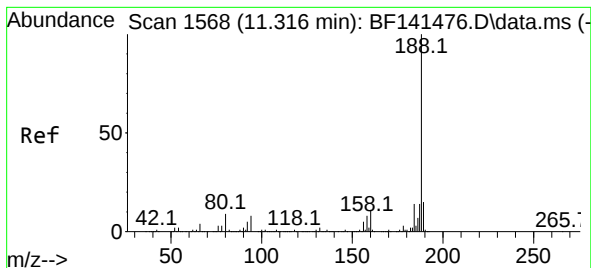
Delta R.T. -0.017 min

Lab File: BF141706.D

Acq: 20 Feb 2025 16:35

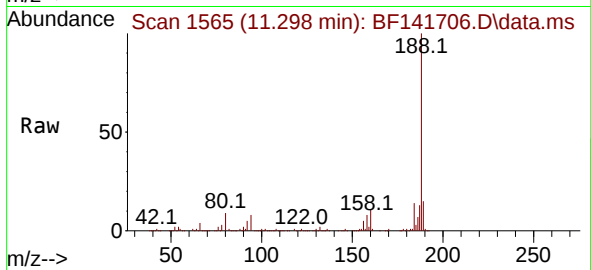
Tgt Ion:166 Resp: 26234
 Ion Ratio Lower Upper
 166 100
 165 94.8 78.2 117.2
 167 14.5 10.7 16.1





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.298 min Scan# 1568
Delta R.T. -0.017 min
Lab File: BF141706.D
Acq: 20 Feb 2025 16:35

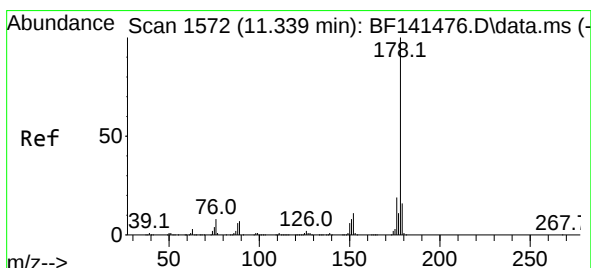
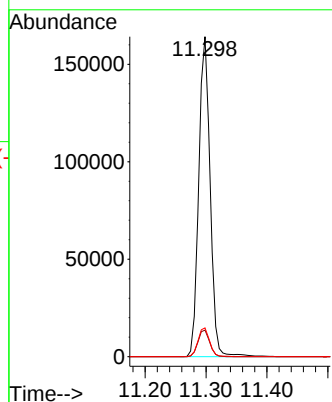
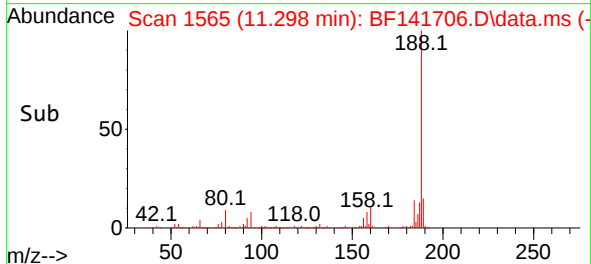
Instrument :
BNA_F
ClientSampleId :
OR-03-021823025



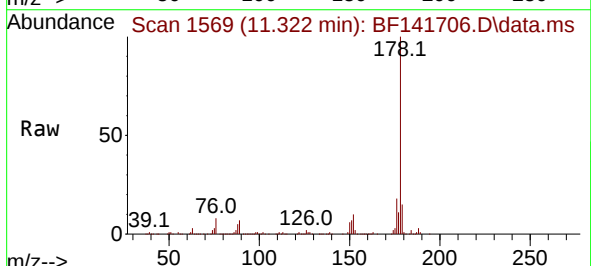
Tgt Ion:188 Resp: 213100
Ion Ratio Lower Upper
188 100
94 8.3 6.6 10.0
80 9.0 7.3 10.9

Manual Integrations
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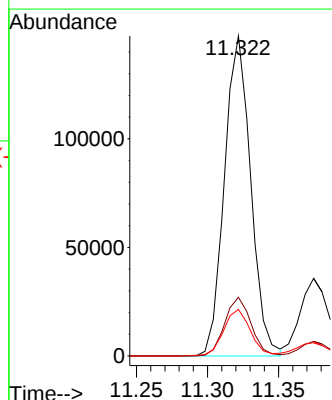
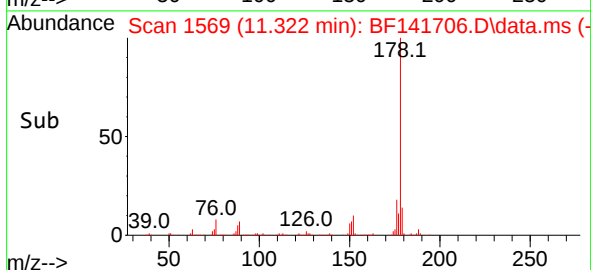
Reviewed By :Rahul Chavli 02/21/2025
Supervised By :Jagrut Upadhyay 02/21/2025

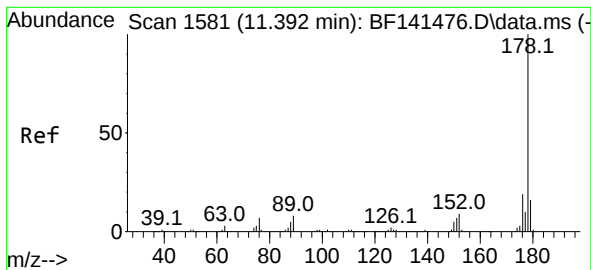


#71
Phenanthrene
Concen: 16.156 ng
RT: 11.322 min Scan# 1569
Delta R.T. -0.023 min
Lab File: BF141706.D
Acq: 20 Feb 2025 16:35



Tgt Ion:178 Resp: 189513
Ion Ratio Lower Upper
178 100
176 18.3 15.4 23.0
179 14.5 12.4 18.6





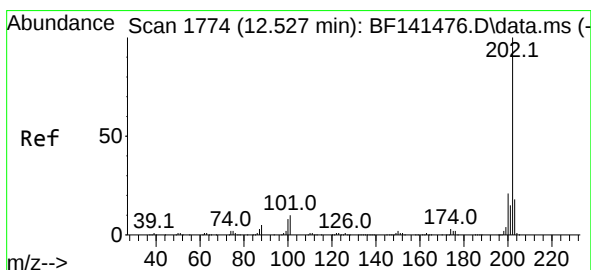
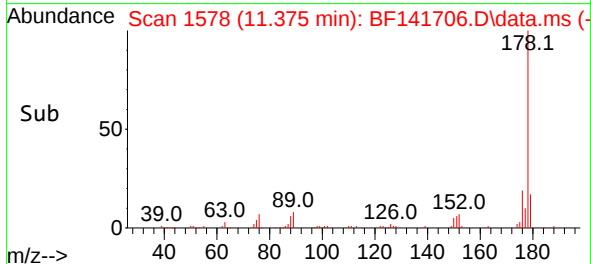
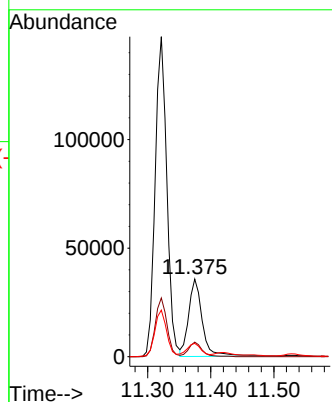
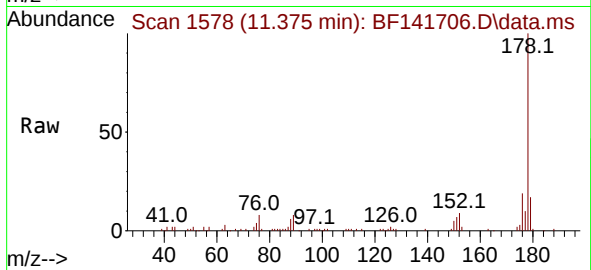
#72
 Anthracene
 Concen: 4.523 ng
 RT: 11.375 min Scan# 11375
 Delta R.T. -0.023 min
 Lab File: BF141706.D
 Acq: 20 Feb 2025 16:35

Instrument :
 BNA_F
 ClientSampleId :
 OR-03-021823025

Tgt Ion:178 Resp: 5333
 Ion Ratio Lower Upper
 178 100
 176 18.8 14.8 22.2
 179 17.2 12.4 18.6

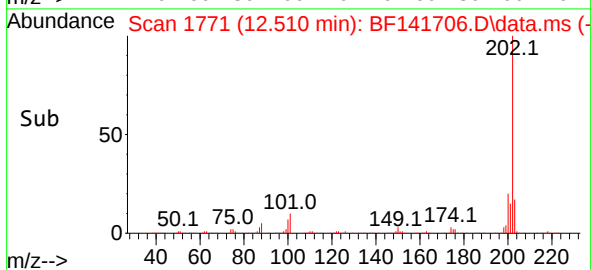
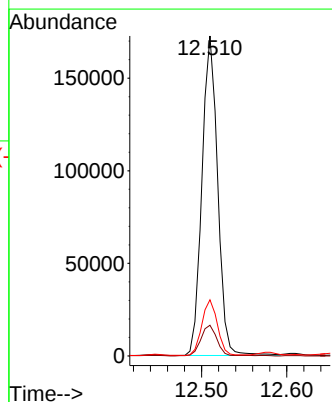
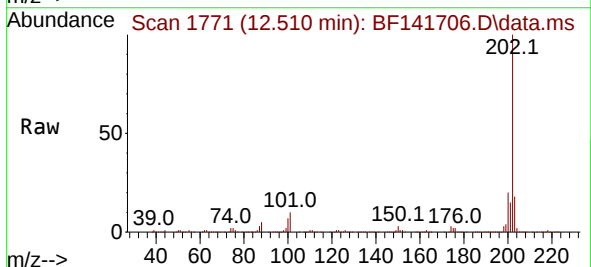
Manual Integrations
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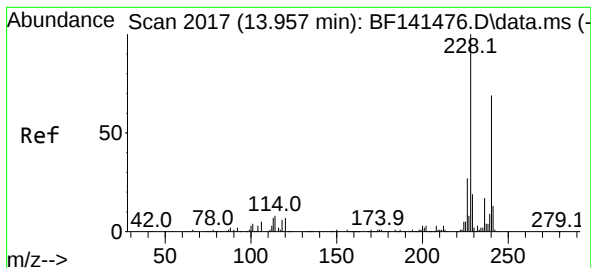
Reviewed By :Rahul Chavli 02/21/2025
 Supervised By :Jagrut Upadhyay 02/21/2025



#75
 Fluoranthene
 Concen: 17.793 ng
 RT: 12.510 min Scan# 1771
 Delta R.T. -0.023 min
 Lab File: BF141706.D
 Acq: 20 Feb 2025 16:35

Tgt Ion:202 Resp: 221289
 Ion Ratio Lower Upper
 202 100
 101 9.6 0.0 30.2
 203 17.5 0.0 37.6





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.933 min Scan# 20

Delta R.T. -0.029 min

Lab File: BF141706.D

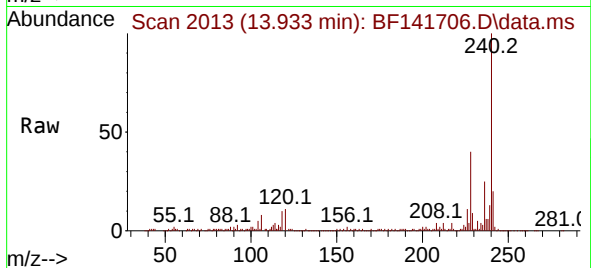
Acq: 20 Feb 2025 16:35

Instrument :

BNA_F

ClientSampleId :

OR-03-021823025



Tgt Ion:240 Resp: 16080

Ion Ratio Lower Upper

240 100

120 11.0 8.0 12.0

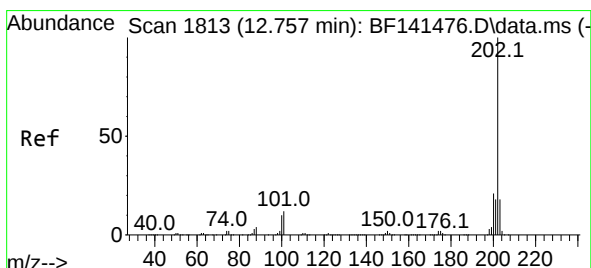
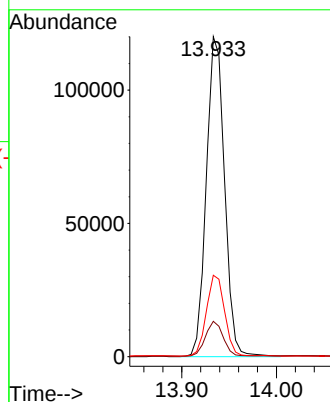
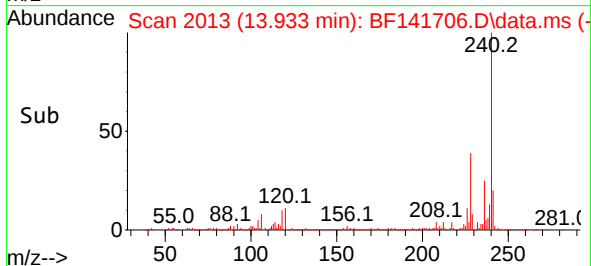
236 25.5 19.8 29.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 02/21/2025

Supervised By :Jagrut Upadhyay 02/21/2025



#78

Pyrene

Concen: 13.578 ng

RT: 12.739 min Scan# 1810

Delta R.T. -0.023 min

Lab File: BF141706.D

Acq: 20 Feb 2025 16:35

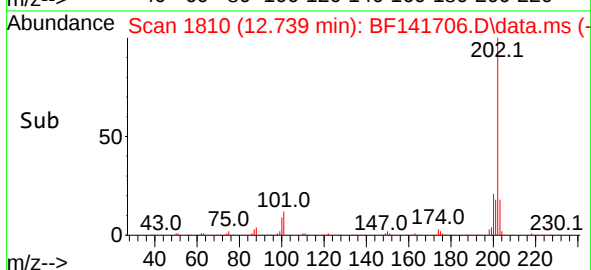
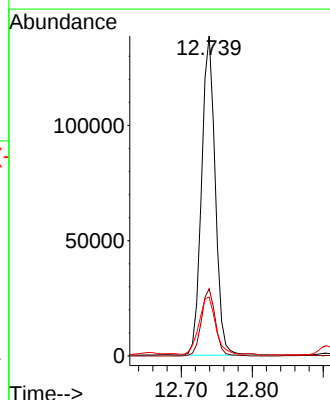
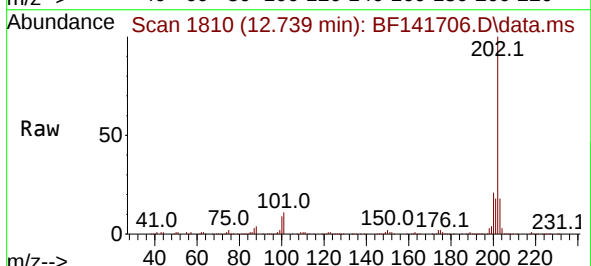
Tgt Ion:202 Resp: 185863

Ion Ratio Lower Upper

202 100

200 21.0 17.0 25.4

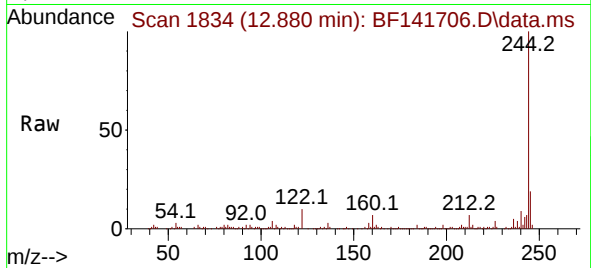
203 18.4 14.3 21.5





#79
 Terphenyl-d14
 Concen: 10.863 ng
 RT: 12.880 min Scan# 11
 Delta R.T. -0.023 min
 Lab File: BF141706.D
 Acq: 20 Feb 2025 16:35

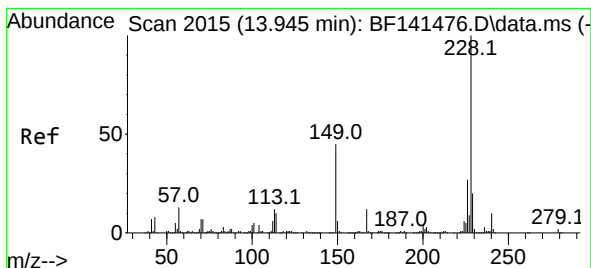
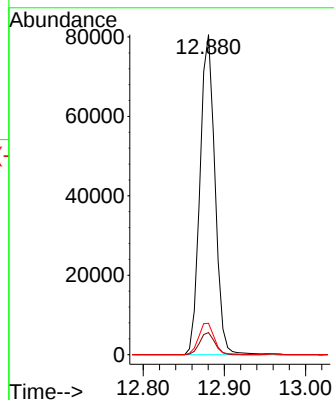
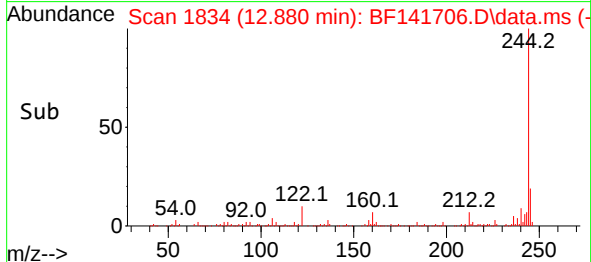
Instrument :
 BNA_F
 ClientSampleId :
 OR-03-021823025



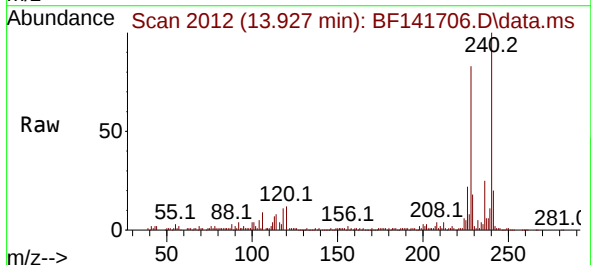
Tgt Ion:244 Resp: 103474
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.6 8.4
 122 9.8 8.4 12.6

Manual Integrations
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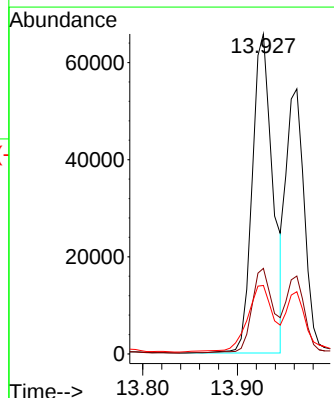
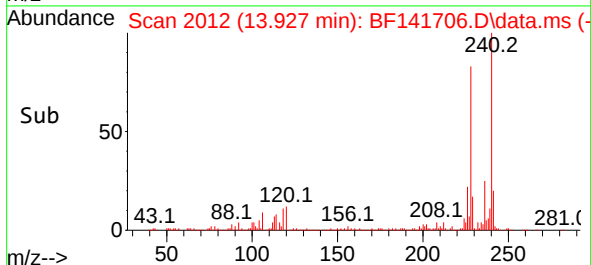
Reviewed By :Rahul Chavli 02/21/2025
 Supervised By :Jagrut Upadhyay 02/21/2025

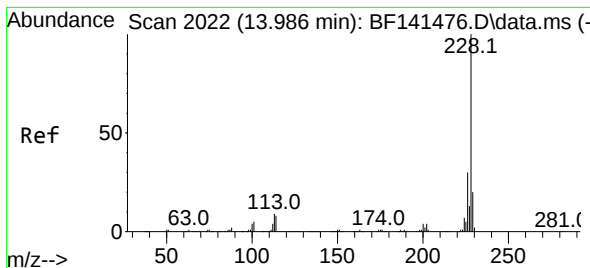


#81
 Benzo(a)anthracene
 Concen: 9.298 ng
 RT: 13.927 min Scan# 2012
 Delta R.T. -0.023 min
 Lab File: BF141706.D
 Acq: 20 Feb 2025 16:35



Tgt Ion:228 Resp: 99389
 Ion Ratio Lower Upper
 228 100
 226 26.7 21.8 32.8
 229 21.4 15.8 23.6





#83

Chrysene

Concen: 7.380 ng

RT: 13.963 min Scan# 2022

Delta R.T. -0.029 min

Lab File: BF141706.D

Acq: 20 Feb 2025 16:35

Instrument :

BNA_F

ClientSampleId :

OR-03-021823025

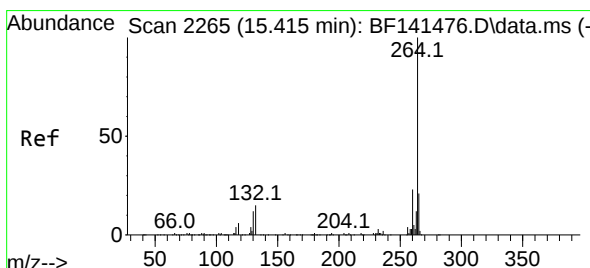
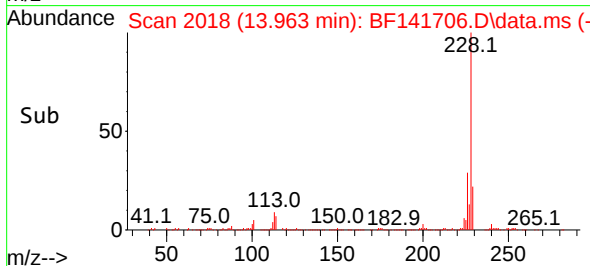
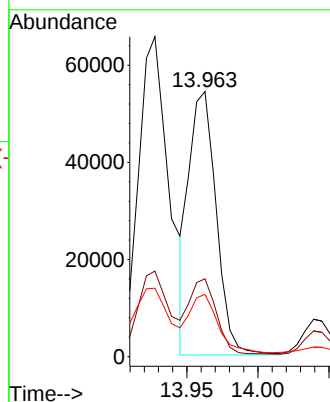
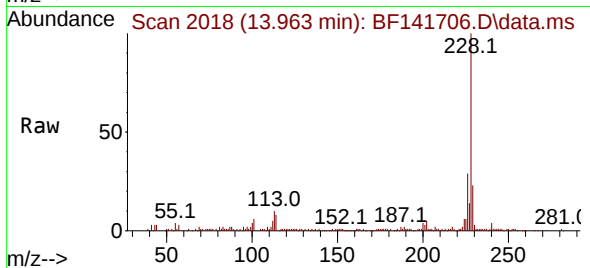
Tgt Ion:	228	Resp:	7284
Ion Ratio	Lower	Upper	
228	100		
226	29.4	24.0	36.0
229	23.5	15.7	23.5

Manual Integrations

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Reviewed By :Rahul Chavli 02/21/2025

Supervised By :Jagrut Upadhyay 02/21/2025



#86

Perylene-d12

Concen: 20.000 ng

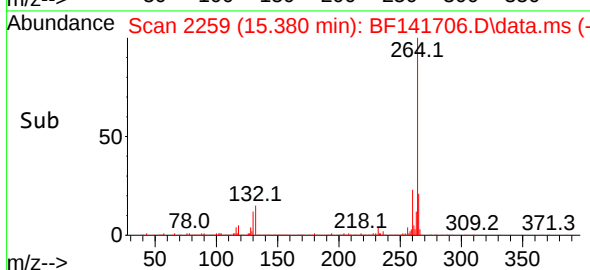
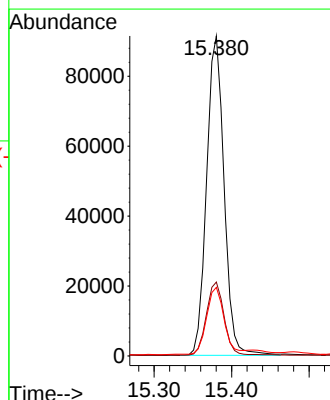
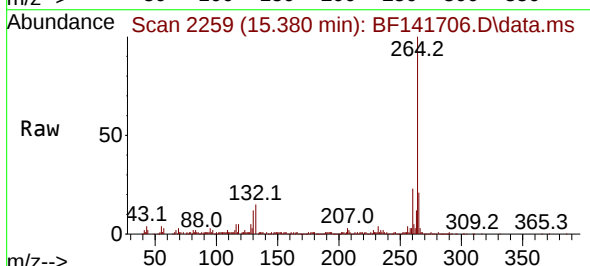
RT: 15.380 min Scan# 2259

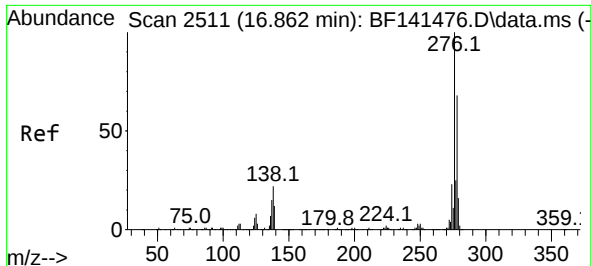
Delta R.T. -0.035 min

Lab File: BF141706.D

Acq: 20 Feb 2025 16:35

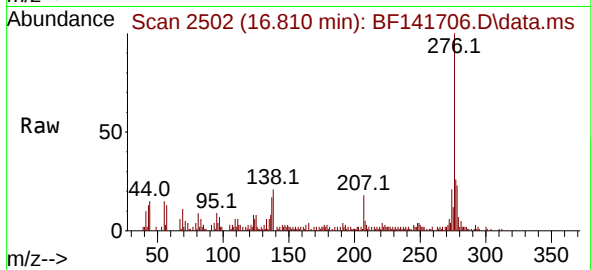
Tgt Ion:	264	Resp:	143212
Ion Ratio	Lower	Upper	
264	100		
260	23.1	18.6	28.0
265	21.4	17.0	25.4





#87
Indeno(1,2,3-cd)pyrene
Concen: 3.554 ng
RT: 16.810 min Scan# 2144
Delta R.T. -0.064 min
Lab File: BF141706.D
Acq: 20 Feb 2025 16:35

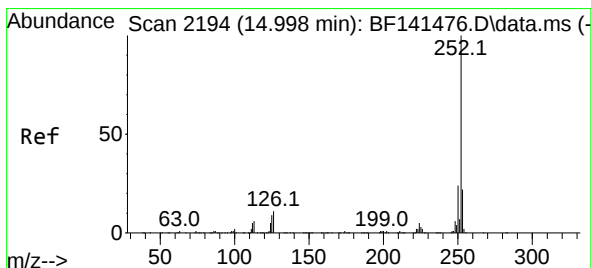
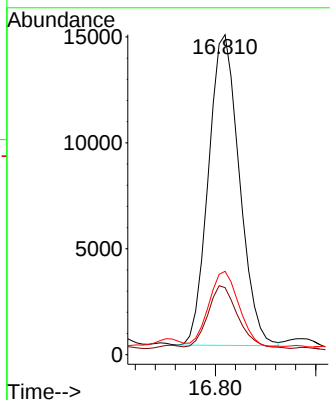
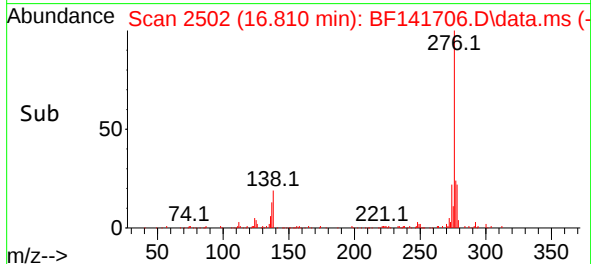
Instrument :
BNA_F
ClientSampleId :
OR-03-021823025



Tgt Ion:276 Resp: 31440
Ion Ratio Lower Upper
276 100
138 20.3 18.0 27.0
277 23.8 20.4 30.6

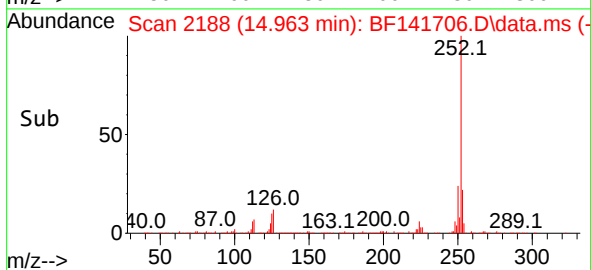
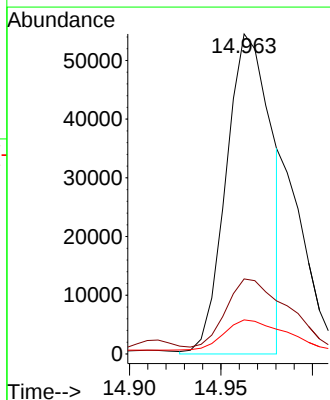
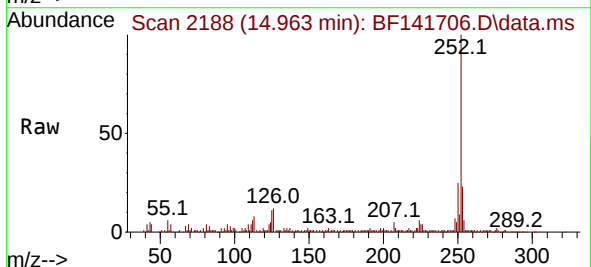
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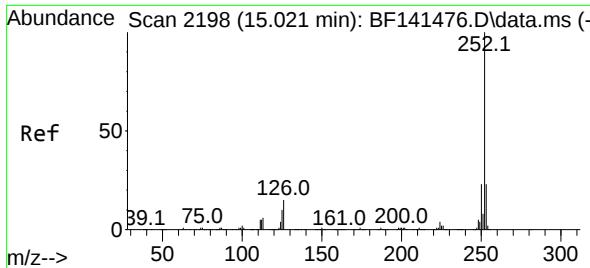
Reviewed By :Rahul Chavli 02/21/2025
Supervised By :Jagrut Upadhyay 02/21/2025



#88
Benzo(b)fluoranthene
Concen: 9.718 ng m
RT: 14.963 min Scan# 2188
Delta R.T. -0.041 min
Lab File: BF141706.D
Acq: 20 Feb 2025 16:35

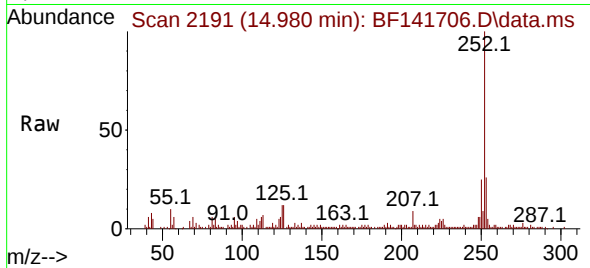
Tgt Ion:252 Resp: 93448
Ion Ratio Lower Upper
252 100
253 23.4 17.5 26.3
125 10.6 7.0 10.6#





#89
Benzo(k)fluoranthene
Concen: 3.750 ng m
RT: 14.980 min Scan# 2198
Delta R.T. -0.053 min
Lab File: BF141706.D
Acq: 20 Feb 2025 16:35

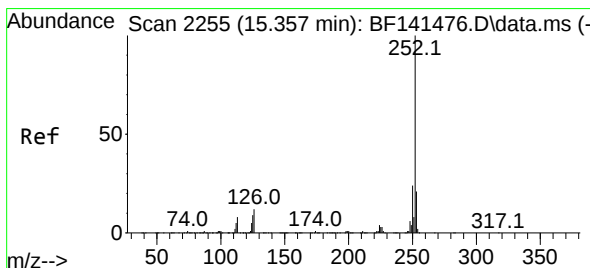
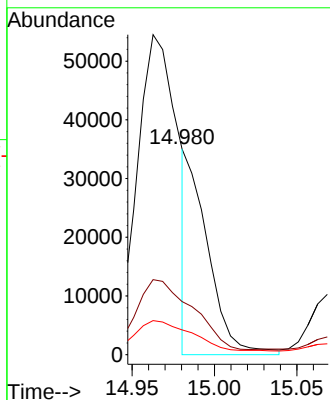
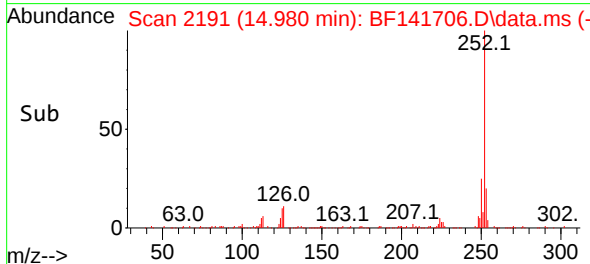
Instrument :
BNA_F
ClientSampleId :
OR-03-021823025



Tgt Ion:252 Resp: 3079
Ion Ratio Lower Upper
252 100
253 25.8 18.0 27.0
125 12.1 7.4 11.0

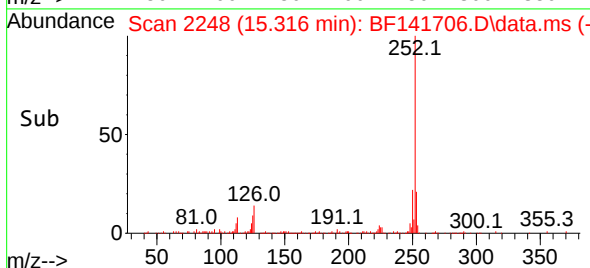
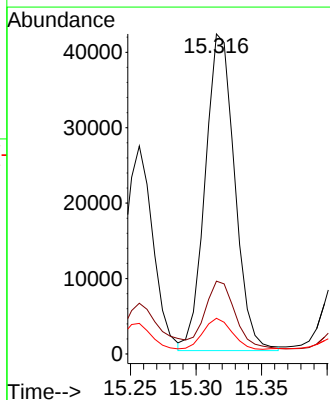
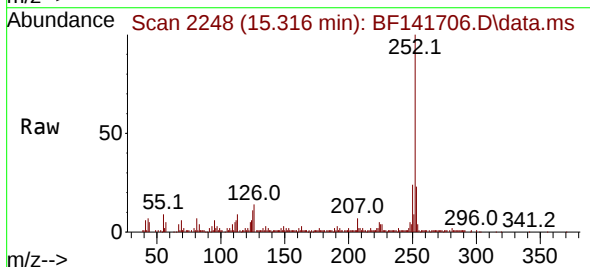
Manual Integrations
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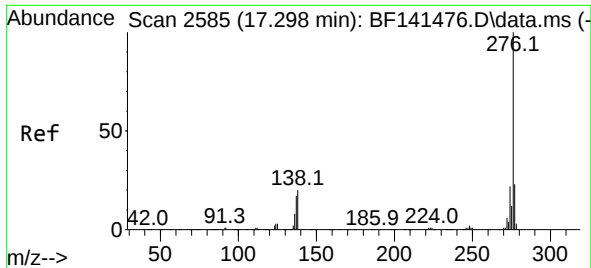
Reviewed By :Rahul Chavli 02/21/2025
Supervised By :Jagrut Upadhyay 02/21/2025



#90
Benzo(a)pyrene
Concen: 8.437 ng
RT: 15.316 min Scan# 2248
Delta R.T. -0.047 min
Lab File: BF141706.D
Acq: 20 Feb 2025 16:35

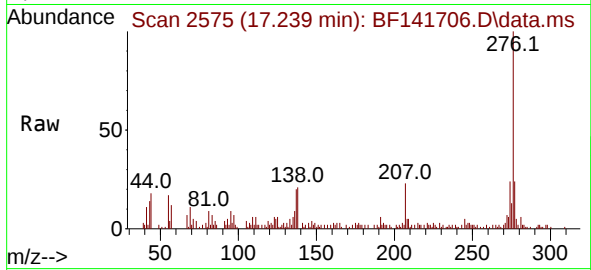
Tgt Ion:252 Resp: 65647
Ion Ratio Lower Upper
252 100
253 22.8 17.1 25.7
125 11.1 7.4 11.2





#92
 Benzo(g,h,i)perylene
 Concen: 4.232 ng
 RT: 17.239 min Scan# 21
 Delta R.T. -0.076 min
 Lab File: BF141706.D
 Acq: 20 Feb 2025 16:35

Instrument :
 BNA_F
 ClientSampleId :
 OR-03-021823025



Tgt Ion: 276 Resp: 31754
 Ion Ratio Lower Upper
 276 100
 277 24.2 18.6 28.0
 138 20.6 15.9 23.9

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 02/21/2025
 Supervised By :Jagrut Upadhyay 02/21/2025

