

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101025\
 Data File : BF143923.D
 Acq On : 10 Oct 2025 14:26
 Operator : RC/JU
 Sample : Q3310-02
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SS-01-1-2

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 10/13/2025
 Supervised By :mohammad ahmed 10/15/2025

Quant Time: Oct 10 14:53:27 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	110739	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	410150	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	209594	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	320160	20.000	ng	0.00
76) Chrysene-d12	14.063	240	259025	20.000	ng	0.00
86) Perylene-d12	15.545	264	301506	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.499	112	546641	78.388	ng	0.00
7) Phenol-d6	6.504	99	629141	75.689	ng	-0.01
23) Nitrobenzene-d5	7.440	82	373550	55.333	ng	-0.02
42) 2,4,6-Tribromophenol	10.710	330	143882	68.922	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	664539	50.309	ng	-0.01
79) Terphenyl-d14	12.998	244	571567	37.713	ng	-0.01
Target Compounds						Qvalue
71) Phenanthrene	11.433	178	186761	12.032	ng	98
72) Anthracene	11.486	178	50240	3.204	ng	96
75) Fluoranthene	12.627	202	260534	16.250	ng	98
78) Pyrene	12.857	202	219683	10.173	ng	97
81) Benzo(a)anthracene	14.051	228	138868	8.192	ng	# 93
83) Chrysene	14.086	228	104158	6.639	ng	# 90
87) Indeno(1,2,3-cd)pyrene	17.039	276	56014	3.032	ng	96
88) Benzo(b)fluoranthene	15.110	252	146866m	8.480	ng	
89) Benzo(k)fluoranthene	15.127	252	52353m	3.267	ng	
90) Benzo(a)pyrene	15.480	252	104350	6.948	ng	# 92
92) Benzo(g,h,i)perylene	17.492	276	53843	3.624	ng	# 91

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

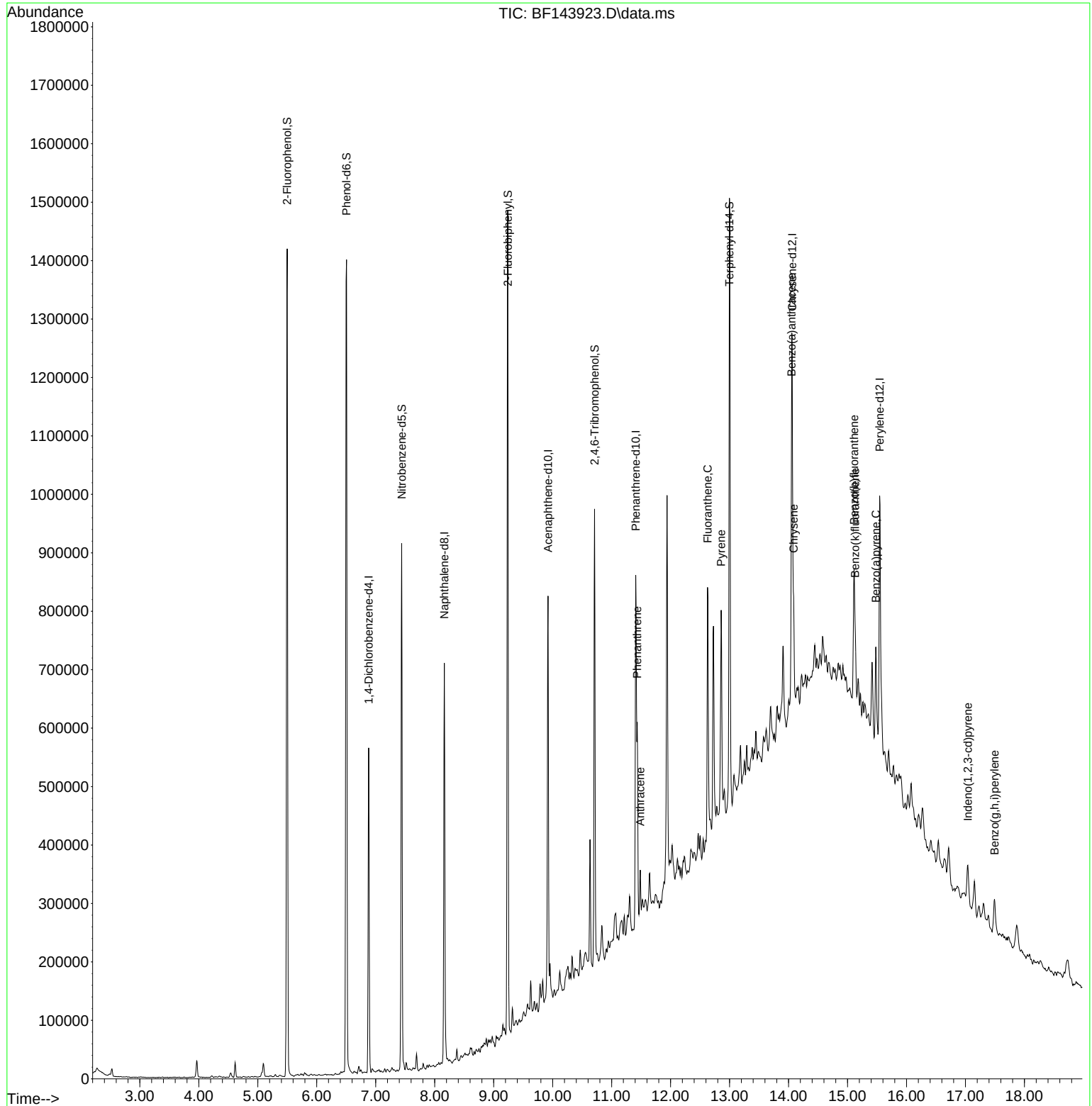
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101025\
Data File : BF143923.D
Acq On : 10 Oct 2025 14:26
Operator : RC/JU
Sample : Q3310-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

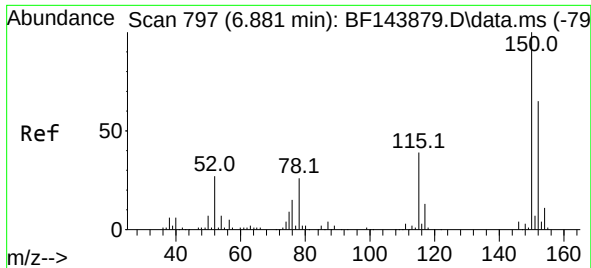
Instrument :
BNA_F
ClientSampleId :
SS-01-1-2

Quant Time: Oct 10 14:53:27 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

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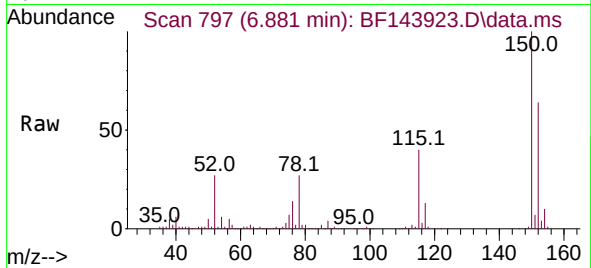
Reviewed By :Jagrut Upadhyay 10/13/2025
Supervised By :mohammad ahmed 10/15/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 79
Delta R.T. -0.005 min
Lab File: BF143923.D
Acq: 10 Oct 2025 14:26

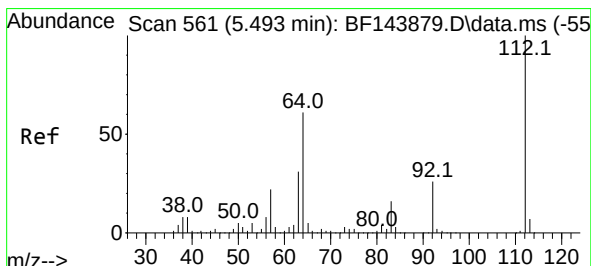
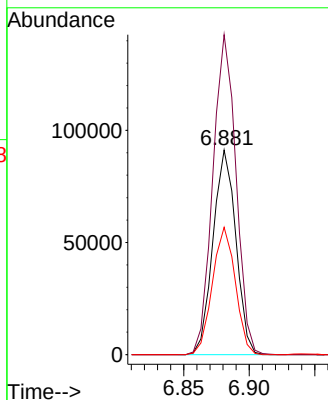
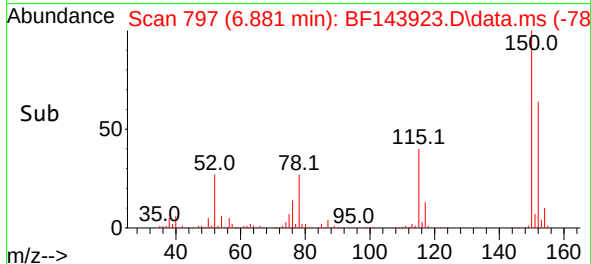
Instrument :
BNA_F
ClientSampleId :
SS-01-1-2



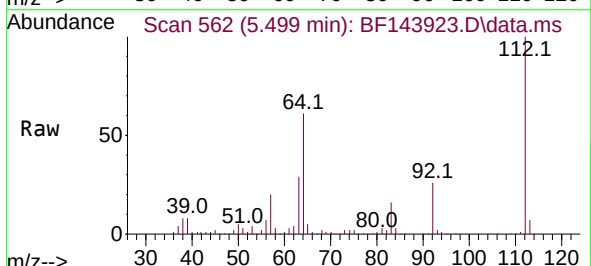
Tgt Ion:152 Resp: 110739
Ion Ratio Lower Upper
152 100
150 156.5 124.4 186.6
115 62.2 48.1 72.1

Manual Integrations
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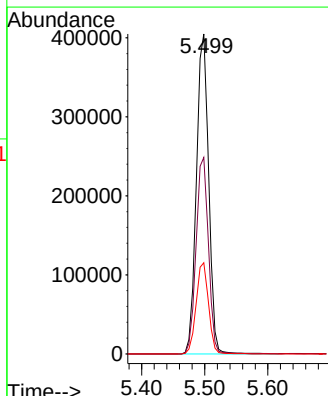
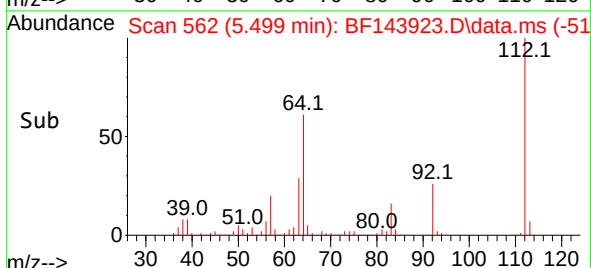
Reviewed By :Jagrut Upadhyay 10/13/2025
Supervised By :mohammad ahmed 10/15/2025

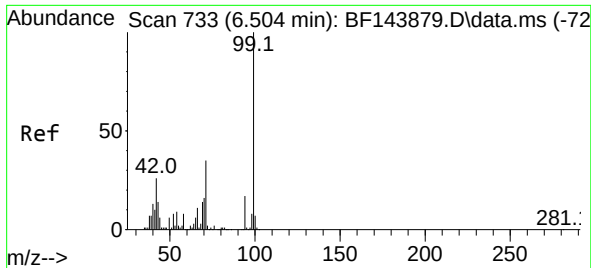


#5
2-Fluorophenol
Concen: 78.388 ng
RT: 5.499 min Scan# 562
Delta R.T. 0.000 min
Lab File: BF143923.D
Acq: 10 Oct 2025 14:26



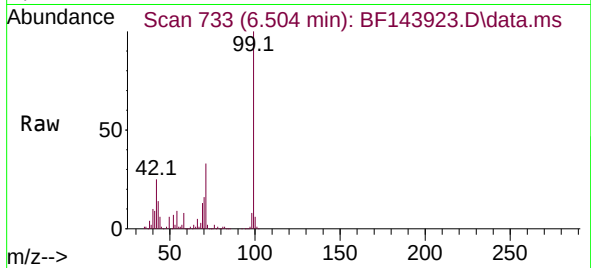
Tgt Ion:112 Resp: 546641
Ion Ratio Lower Upper
112 100
64 61.4 49.1 73.7
63 28.5 24.5 36.7





#7
Phenol-d6
Concen: 75.689 ng
RT: 6.504 min Scan# 733
Delta R.T. -0.012 min
Lab File: BF143923.D
Acq: 10 Oct 2025 14:26

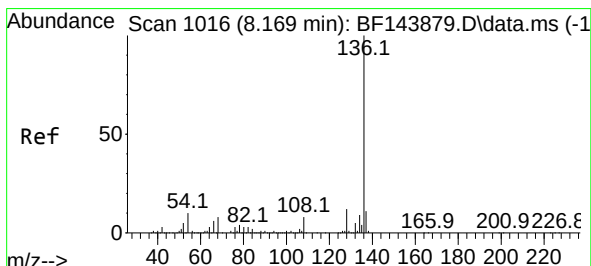
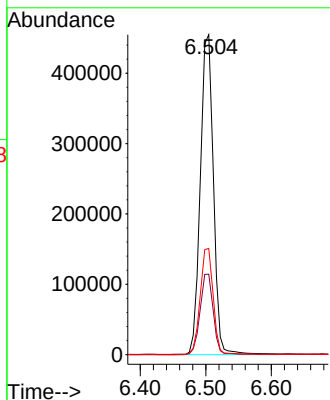
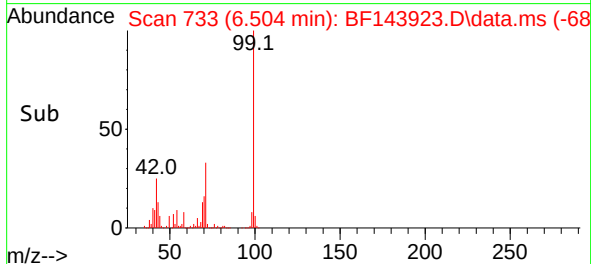
Instrument :
BNA_F
ClientSampleId :
SS-01-1-2



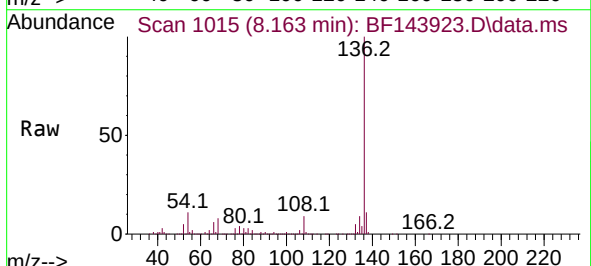
Tgt Ion: 99 Resp: 62914
Ion Ratio Lower Upper
99 100
42 25.1 21.0 31.4
71 33.2 27.8 41.8

Manual Integrations
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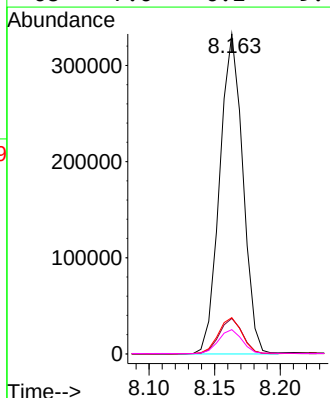
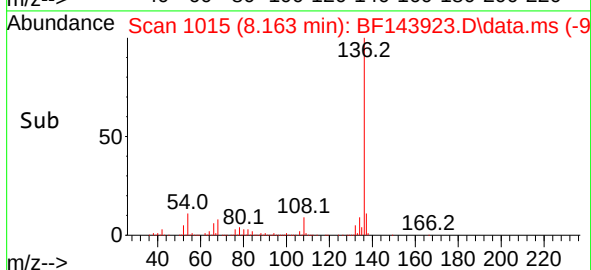
Reviewed By :Jagrut Upadhyay 10/13/2025
Supervised By :mohammad ahmed 10/15/2025

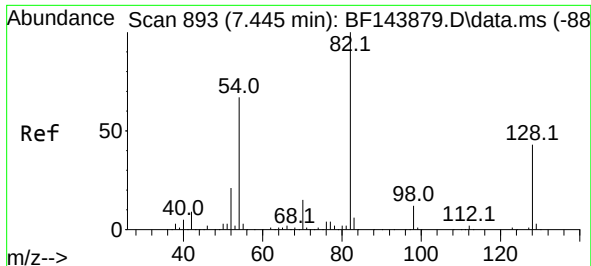


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF143923.D
Acq: 10 Oct 2025 14:26



Tgt Ion:136 Resp: 410150
Ion Ratio Lower Upper
136 100
137 11.1 8.5 12.7
54 11.3 8.2 12.4
68 7.6 6.2 9.4





#23

Nitrobenzene-d5

Concen: 55.333 ng

RT: 7.440 min Scan# 89

Delta R.T. -0.017 min

Lab File: BF143923.D

Acq: 10 Oct 2025 14:26

Instrument :

BNA_F

ClientSampleId :

SS-01-1-2

Tgt Ion: 82 Resp: 373550

Ion Ratio Lower Upper

82 100

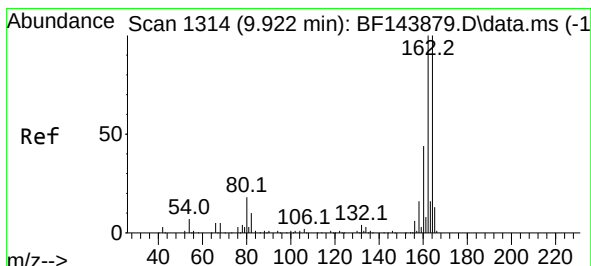
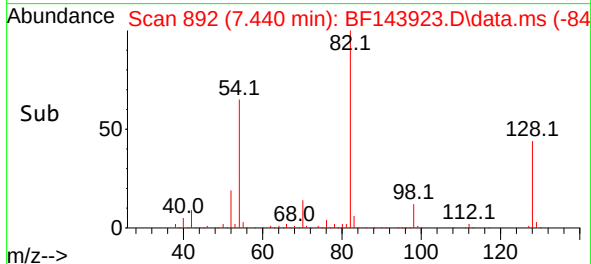
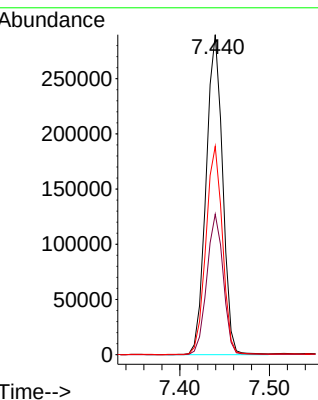
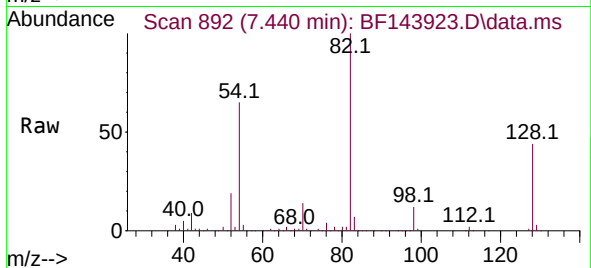
128 43.9 34.0 51.0

54 65.1 53.2 79.8

Manual Integrations

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Reviewed By :Jagrut Upadhyay 10/13/2025
Supervised By :mohammad ahmed 10/15/2025



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.922 min Scan# 1314

Delta R.T. -0.005 min

Lab File: BF143923.D

Acq: 10 Oct 2025 14:26

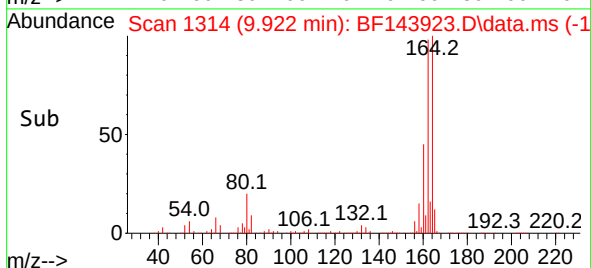
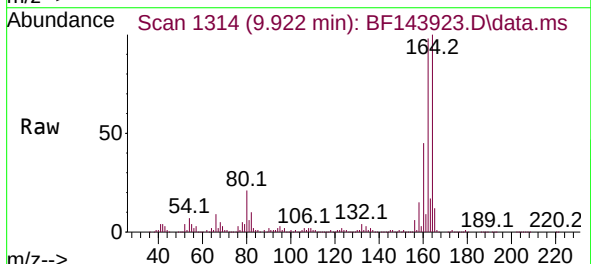
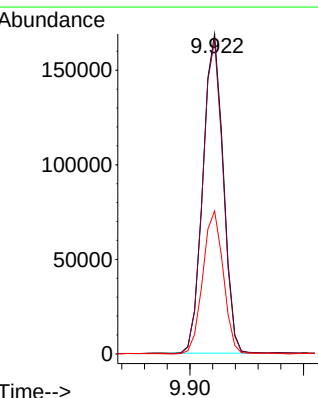
Tgt Ion:164 Resp: 209594

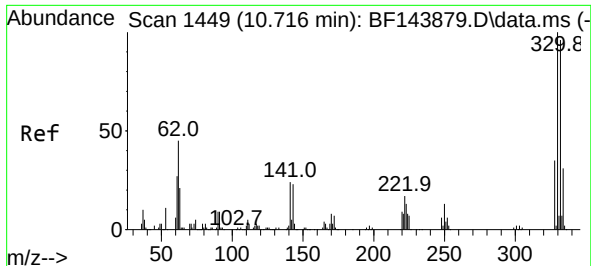
Ion Ratio Lower Upper

164 100

162 97.9 80.2 120.2

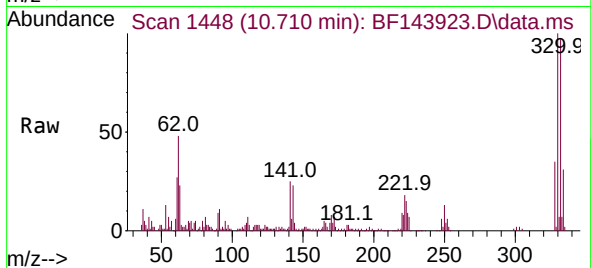
160 44.7 35.4 53.0





#42
2,4,6-Tribromophenol
Concen: 68.922 ng
RT: 10.710 min Scan# 1449
Delta R.T. -0.012 min
Lab File: BF143923.D
Acq: 10 Oct 2025 14:26

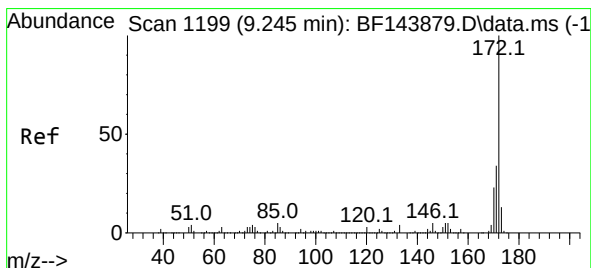
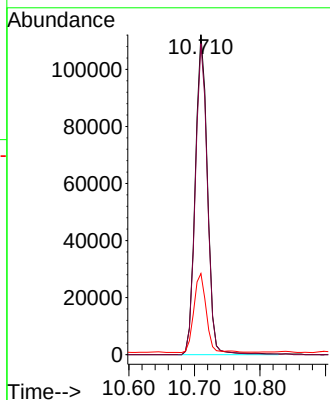
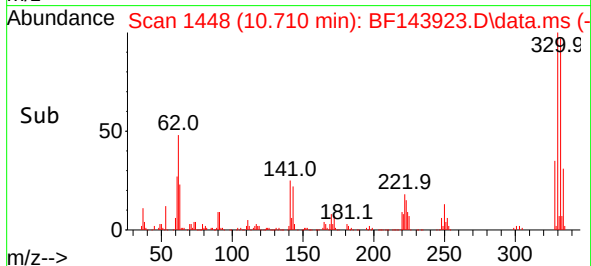
Instrument :
BNA_F
ClientSampleId :
SS-01-1-2



Tgt Ion: 330 Resp: 143882
Ion Ratio Lower Upper
330 100
332 96.9 76.9 115.3
141 24.7 20.2 30.4

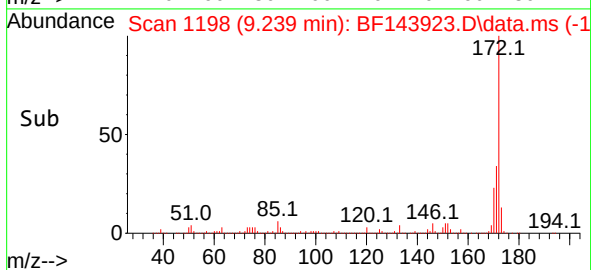
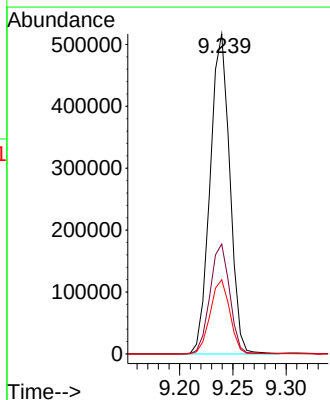
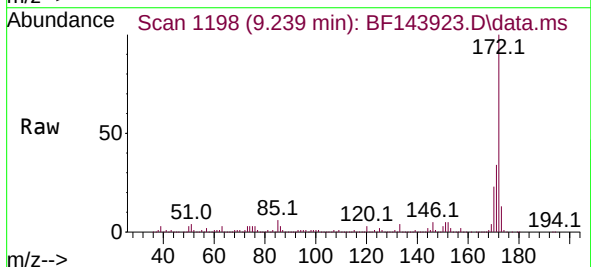
Manual Integrations
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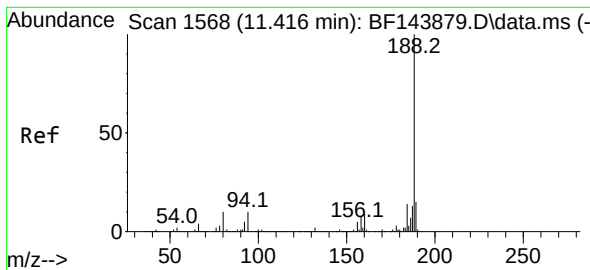
Reviewed By : Jagrut Upadhyay 10/13/2025
Supervised By : mohammad ahmed 10/15/2025



#45
2-Fluorobiphenyl
Concen: 50.309 ng
RT: 9.239 min Scan# 1198
Delta R.T. -0.012 min
Lab File: BF143923.D
Acq: 10 Oct 2025 14:26

Tgt Ion: 172 Resp: 664539
Ion Ratio Lower Upper
172 100
171 34.3 27.4 41.0
170 23.2 18.6 28.0





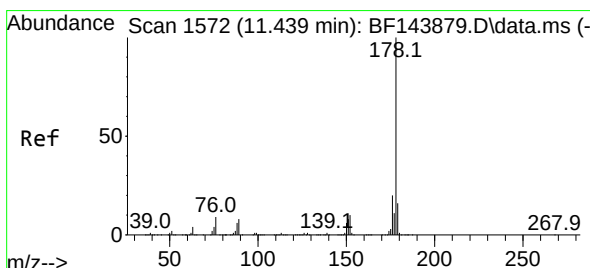
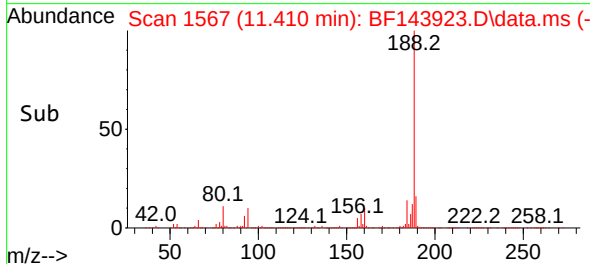
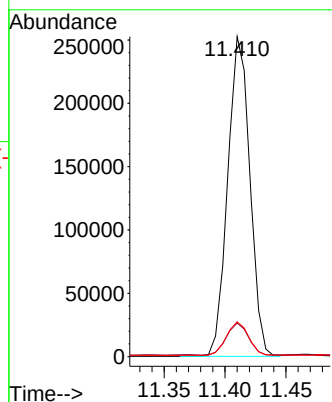
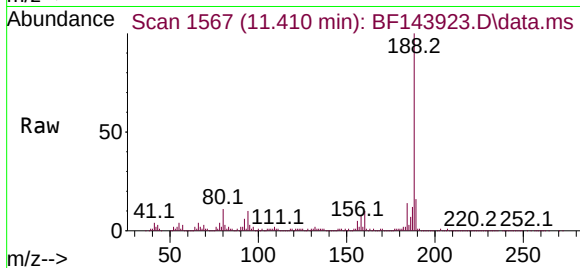
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143923.D
Acq: 10 Oct 2025 14:26

Instrument :
BNA_F
ClientSampleId :
SS-01-1-2

Tgt Ion:188 Resp: 320160
Ion Ratio Lower Upper
188 100
94 10.5 7.8 11.6
80 10.9 7.9 11.9

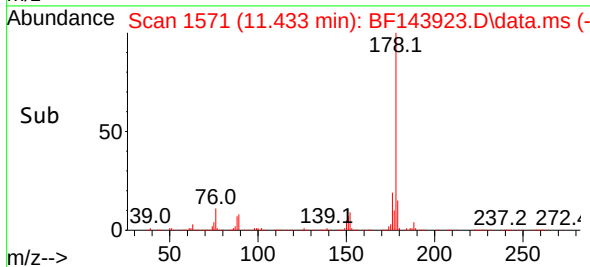
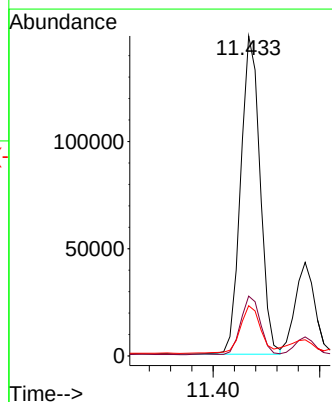
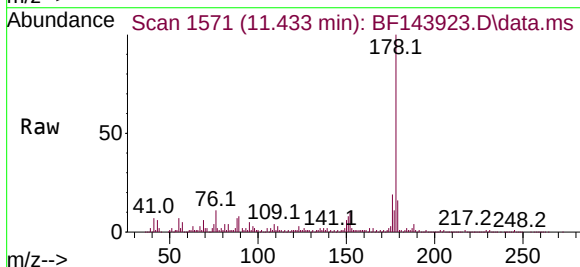
Manual Integrations
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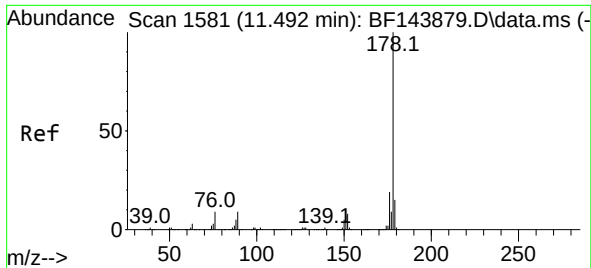
Reviewed By :Jagrut Upadhyay 10/13/2025
Supervised By :mohammad ahmed 10/15/2025



#71
Phenanthrene
Concen: 12.032 ng
RT: 11.433 min Scan# 1571
Delta R.T. -0.012 min
Lab File: BF143923.D
Acq: 10 Oct 2025 14:26

Tgt Ion:178 Resp: 186761
Ion Ratio Lower Upper
178 100
176 18.7 15.9 23.9
179 15.7 12.4 18.6





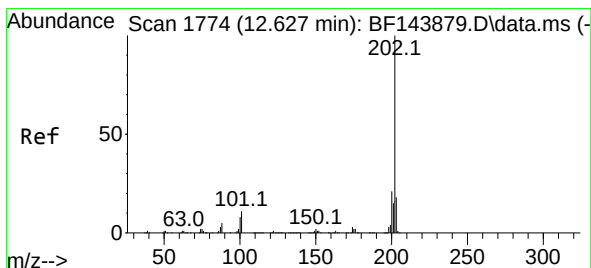
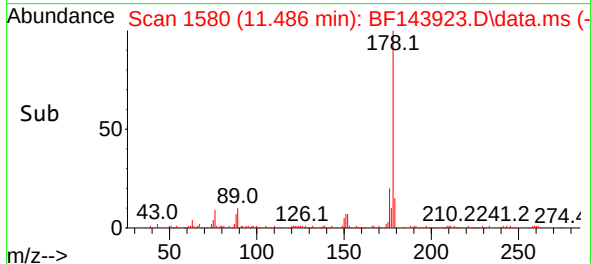
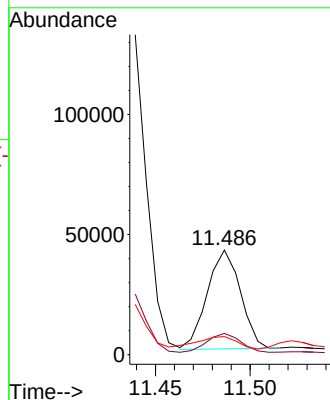
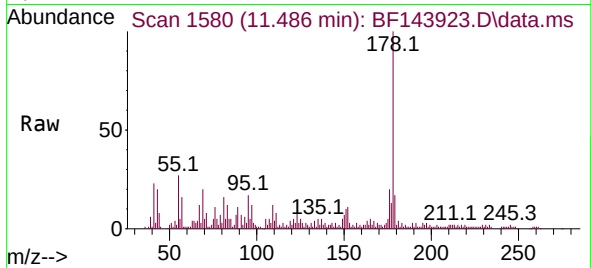
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 Anthracene
 Concen: 3.204 ng
 RT: 11.486 min Scan# 1581
 Delta R.T. -0.012 min
 Lab File: BF143923.D
 Acq: 10 Oct 2025 14:26

Instrument :
 BNA_F
 ClientSampleId :
 SS-01-1-2

Tgt Ion:178 Resp: 50240
 Ion Ratio Lower Upper
 178 100
 176 20.3 14.9 22.3
 179 17.2 12.2 18.2

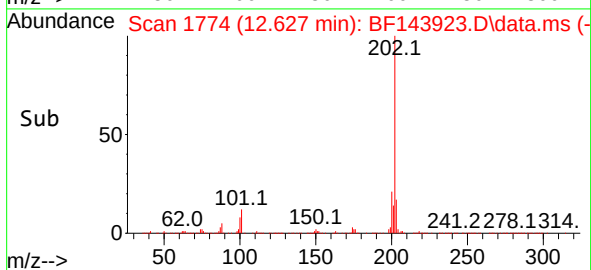
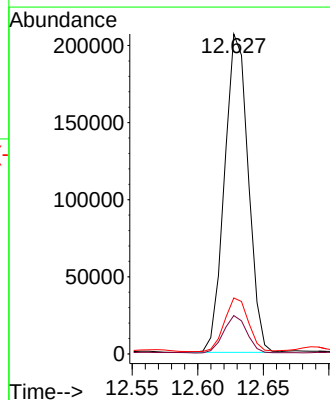
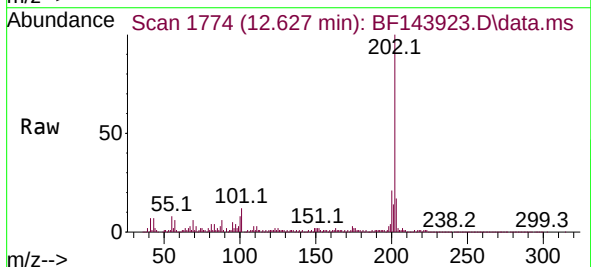
Manual Integrations
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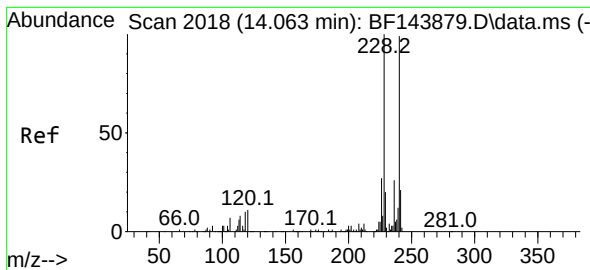
Reviewed By :Jagrut Upadhyay 10/13/2025
 Supervised By :mohammad ahmed 10/15/2025



#75
 Fluoranthene
 Concen: 16.250 ng
 RT: 12.627 min Scan# 1774
 Delta R.T. -0.006 min
 Lab File: BF143923.D
 Acq: 10 Oct 2025 14:26

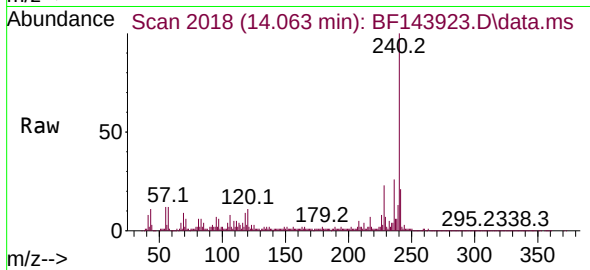
Tgt Ion:202 Resp: 260534
 Ion Ratio Lower Upper
 202 100
 101 12.0 0.0 30.7
 203 17.5 0.0 37.8





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.005 min
Lab File: BF143923.D
Acq: 10 Oct 2025 14:26

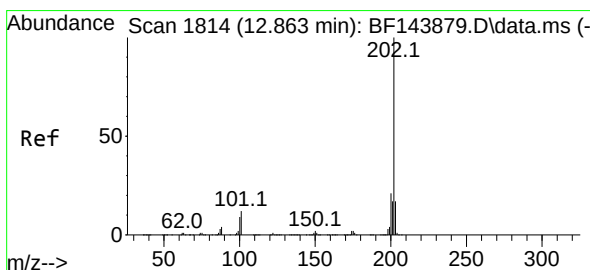
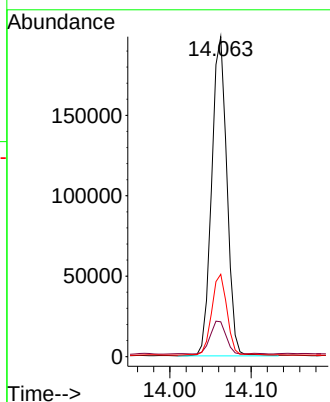
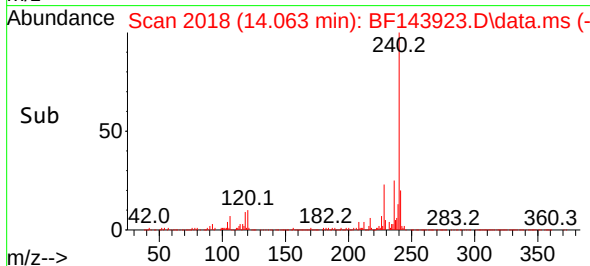
Instrument :
BNA_F
ClientSampleId :
SS-01-1-2



Tgt Ion:240 Resp: 259025
Ion Ratio Lower Upper
240 100
120 10.9 8.6 13.0
236 25.7 21.1 31.7

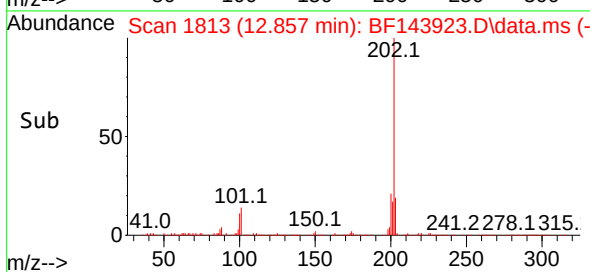
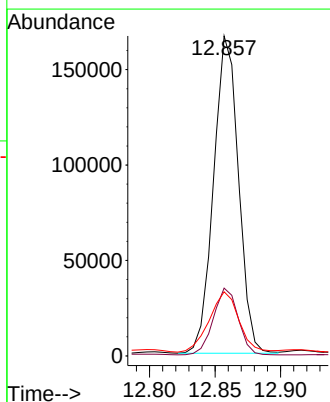
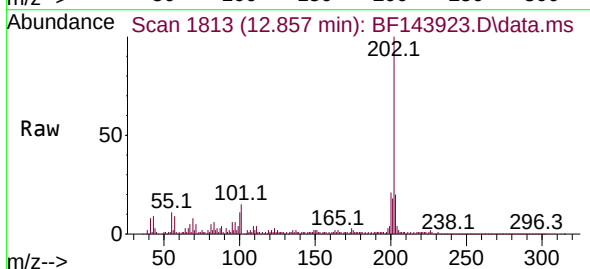
Manual Integrations
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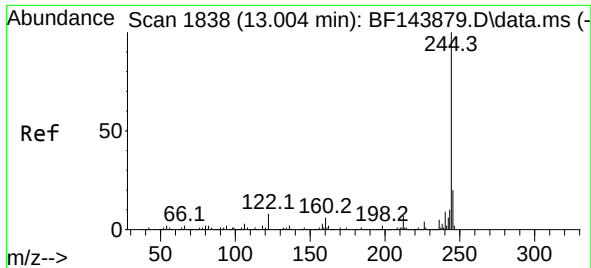
Reviewed By :Jagrut Upadhyay 10/13/2025
Supervised By :mohammad ahmed 10/15/2025



#78
Pyrene
Concen: 10.173 ng
RT: 12.857 min Scan# 1813
Delta R.T. -0.006 min
Lab File: BF143923.D
Acq: 10 Oct 2025 14:26

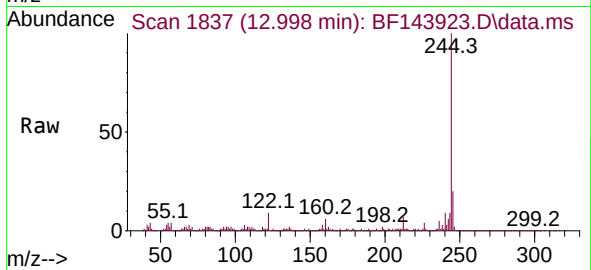
Tgt Ion:202 Resp: 219683
Ion Ratio Lower Upper
202 100
200 21.2 17.0 25.6
203 20.0 13.8 20.6





#79
 Terphenyl-d14
 Concen: 37.713 ng
 RT: 12.998 min Scan# 1838
 Delta R.T. -0.012 min
 Lab File: BF143923.D
 Acq: 10 Oct 2025 14:26

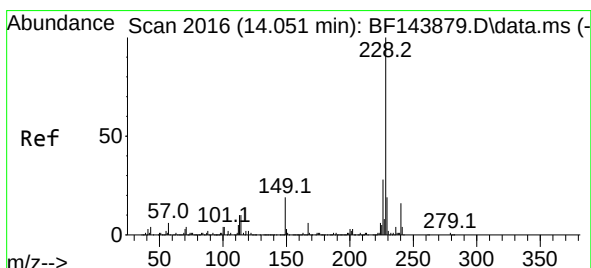
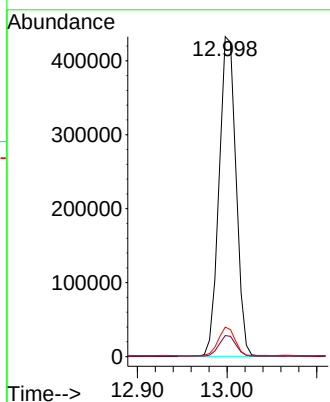
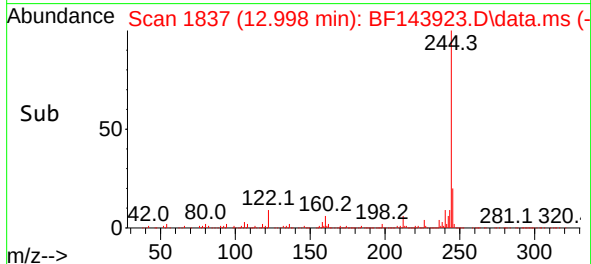
Instrument :
 BNA_F
 ClientSampleId :
 SS-01-1-2



Tgt Ion:244 Resp: 571562
 Ion Ratio Lower Upper
 244 100
 212 6.6 5.4 8.0
 122 9.2 6.4 9.6

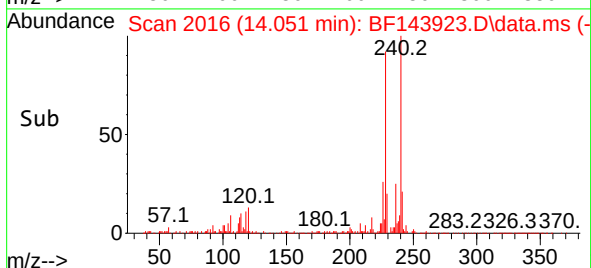
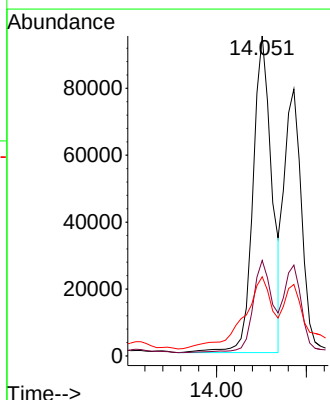
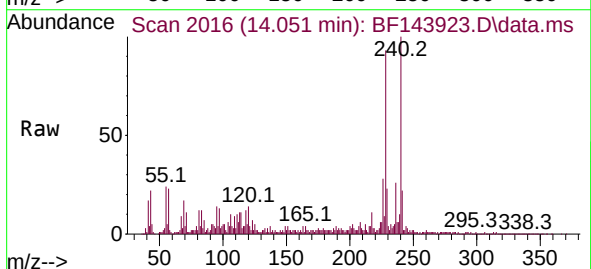
Manual Integrations
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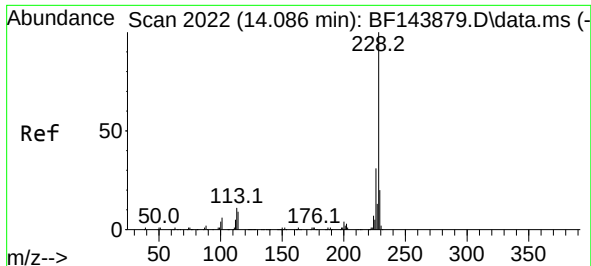
Reviewed By :Jagrut Upadhyay 10/13/2025
 Supervised By :mohammad ahmed 10/15/2025



#81
 Benzo(a)anthracene
 Concen: 8.192 ng
 RT: 14.051 min Scan# 2016
 Delta R.T. -0.006 min
 Lab File: BF143923.D
 Acq: 10 Oct 2025 14:26

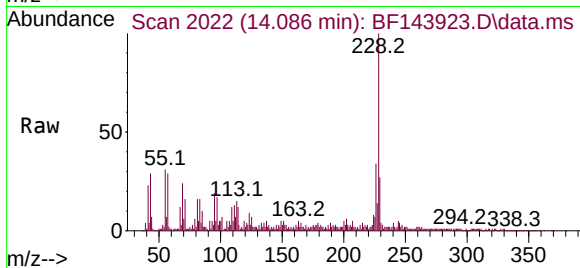
Tgt Ion:228 Resp: 138868
 Ion Ratio Lower Upper
 228 100
 226 29.8 22.2 33.2
 229 24.7 15.6 23.4#





#83
Chrysene
Concen: 6.639 ng
RT: 14.086 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF143923.D
Acq: 10 Oct 2025 14:26

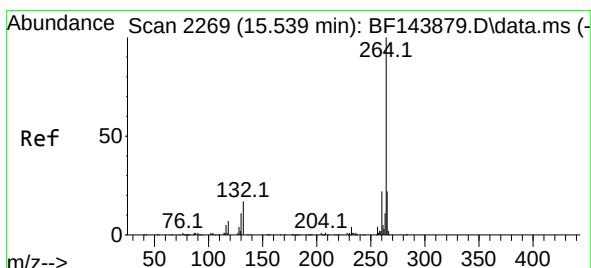
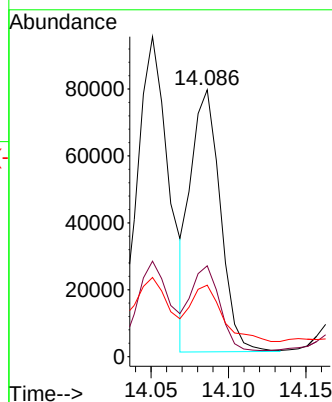
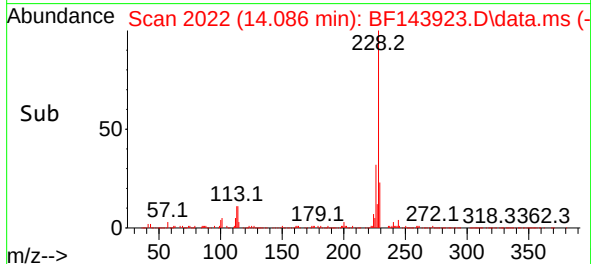
Instrument :
BNA_F
ClientSampleId :
SS-01-1-2



Tgt Ion:228 Resp: 104158
Ion Ratio Lower Upper
228 100
226 34.0 24.4 36.6
229 26.8 15.9 23.9

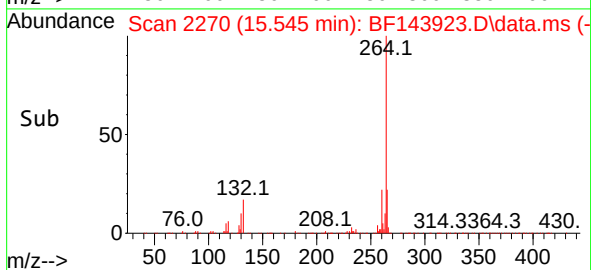
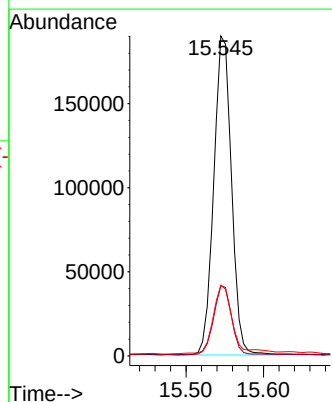
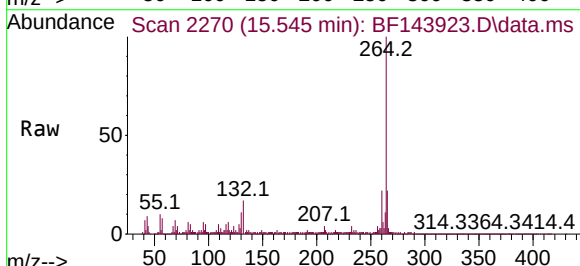
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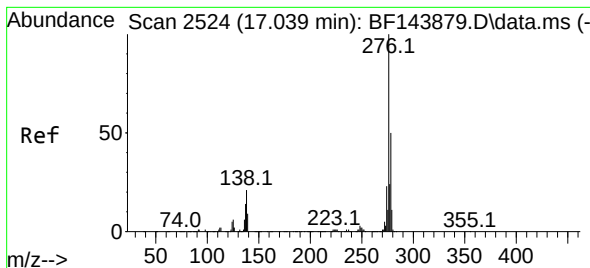
Reviewed By :Jagrut Upadhyay 10/13/2025
Supervised By :mohammad ahmed 10/15/2025



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.545 min Scan# 2270
Delta R.T. 0.000 min
Lab File: BF143923.D
Acq: 10 Oct 2025 14:26

Tgt Ion:264 Resp: 301506
Ion Ratio Lower Upper
264 100
260 22.0 17.8 26.8
265 22.1 17.5 26.3





#87

Indeno(1,2,3-cd)pyrene

Concen: 3.032 ng

RT: 17.039 min Scan# 2196

Delta R.T. -0.017 min

Lab File: BF143923.D

Acq: 10 Oct 2025 14:26

Instrument :

BNA_F

ClientSampleId :

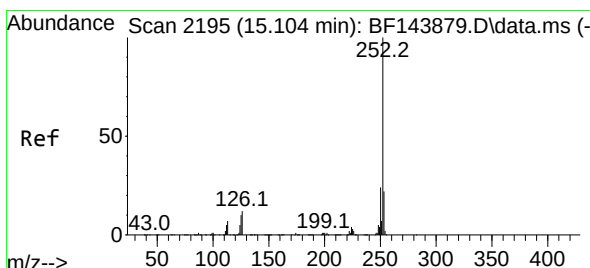
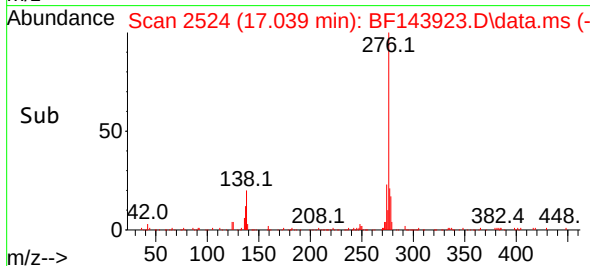
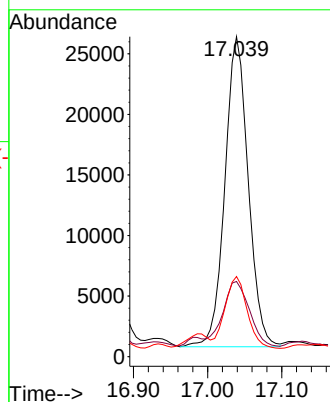
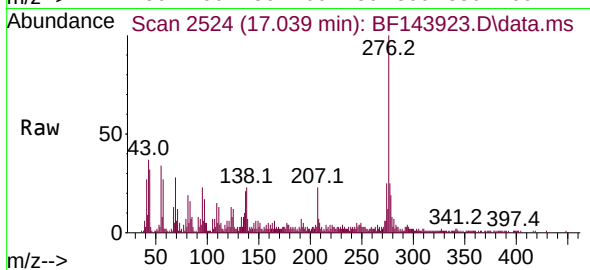
SS-01-1-2

Tgt Ion:	276	Resp:	56014
Ion Ratio	Lower	Upper	
276	100		
138	23.8	18.2	27.2
277	22.1	19.8	29.6

Manual Integrations

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Reviewed By :Jagrut Upadhyay 10/13/2025
Supervised By :mohammad ahmed 10/15/2025



#88

Benzo(b)fluoranthene

Concen: 8.480 ng m

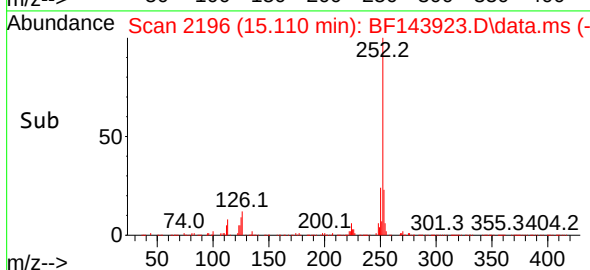
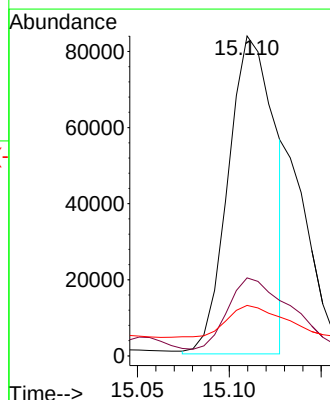
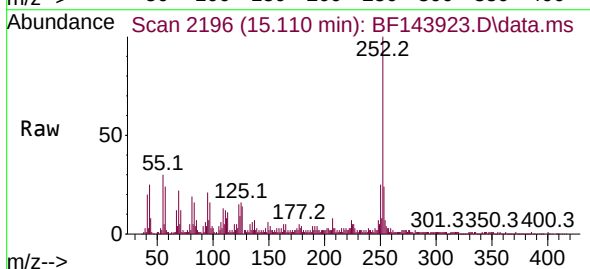
RT: 15.110 min Scan# 2196

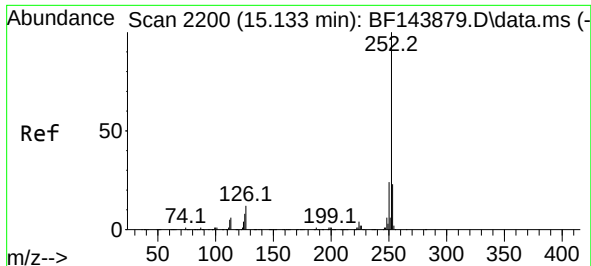
Delta R.T. -0.006 min

Lab File: BF143923.D

Acq: 10 Oct 2025 14:26

Tgt Ion:	252	Resp:	146866
Ion Ratio	Lower	Upper	
252	100		
253	24.4	17.4	26.2
125	15.8	7.8	11.6





#89

Benzo(k)fluoranthene

Concen: 3.267 ng m

RT: 15.127 min Scan# 2199

Delta R.T. -0.017 min

Lab File: BF143923.D

Acq: 10 Oct 2025 14:26

Instrument :

BNA_F

ClientSampleId :

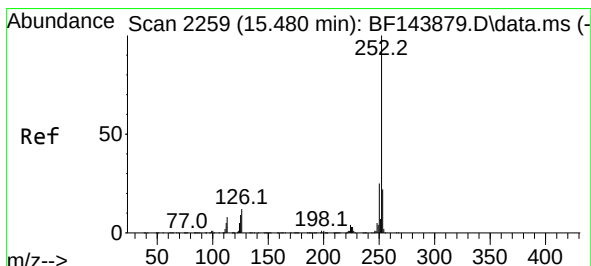
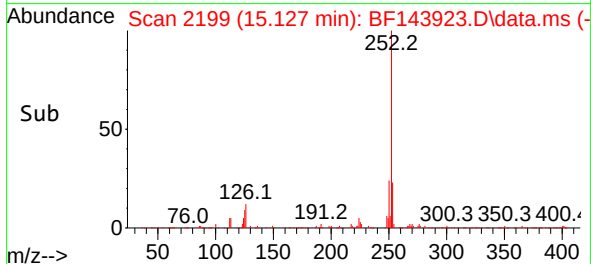
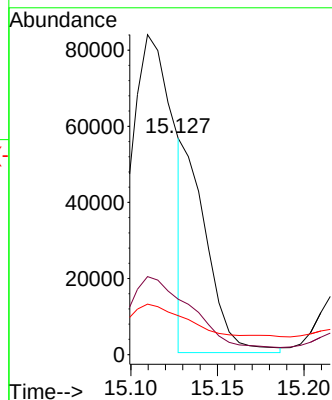
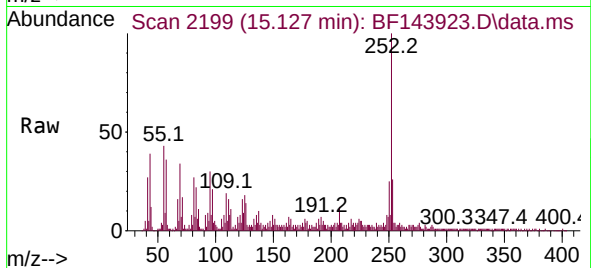
SS-01-1-2

Tgt Ion:	252	Resp:	5235
Ion Ratio	Lower	Upper	
252	100		
253	25.6	17.8	26.8
125	18.0	7.4	11.2

Manual Integrations

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Reviewed By :Jagrut Upadhyay 10/13/2025
Supervised By :mohammad ahmed 10/15/2025



#90

Benzo(a)pyrene

Concen: 6.948 ng

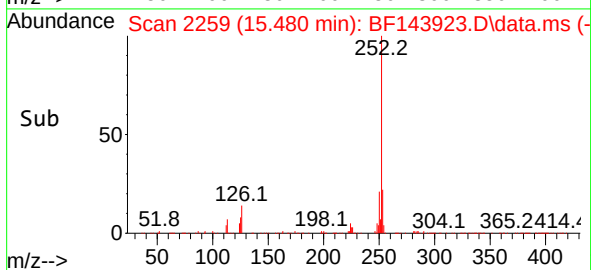
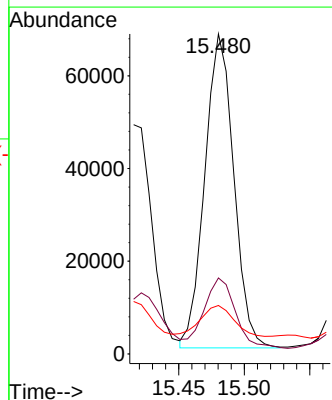
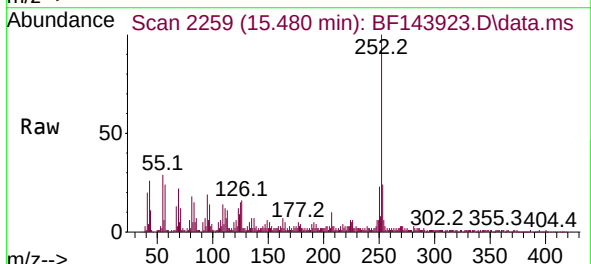
RT: 15.480 min Scan# 2259

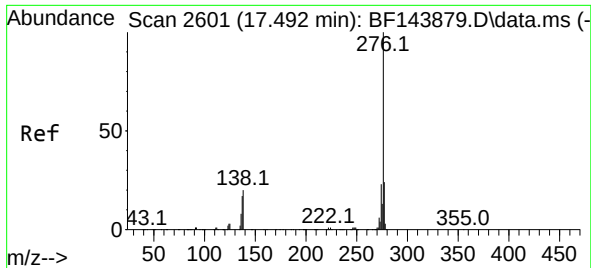
Delta R.T. -0.006 min

Lab File: BF143923.D

Acq: 10 Oct 2025 14:26

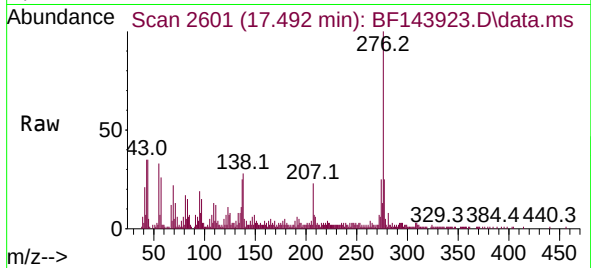
Tgt Ion:	252	Resp:	104350
Ion Ratio	Lower	Upper	
252	100		
253	23.7	17.3	25.9
125	15.1	7.0	10.4





#92
 Benzo(g,h,i)perylene
 Concen: 3.624 ng
 RT: 17.492 min Scan# 2601
 Delta R.T. -0.023 min
 Lab File: BF143923.D
 Acq: 10 Oct 2025 14:26

Instrument :
 BNA_F
 ClientSampleId :
 SS-01-1-2



Tgt Ion: 276 Resp: 5384

Ion	Ratio	Lower	Upper
276	100		
277	24.8	19.0	28.6
138	27.7	16.1	24.1

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 10/13/2025
 Supervised By :mohammad ahmed 10/15/2025

