

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF013025\
 Data File : BF141313.D
 Acq On : 30 Jan 2025 15:11
 Operator : RC/JU
 Sample : Q1209-01
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-4

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 01/30/2025
 Supervised By :mohammad ahmed 01/31/2025

Quant Time: Jan 30 15:35:22 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 29 17:41:25 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.798	152	170178	20.000	ng	0.00
21) Naphthalene-d8	8.081	136	666362	20.000	ng	0.00
39) Acenaphthene-d10	9.834	164	348098	20.000	ng	0.00
64) Phenanthrene-d10	11.322	188	553693	20.000	ng	0.00
76) Chrysene-d12	13.969	240	311260	20.000	ng	0.00
86) Perylene-d12	15.451	264	340489	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.410	112	790785	71.338	ng	0.00
7) Phenol-d6	6.422	99	990455	70.237	ng	-0.02
23) Nitrobenzene-d5	7.357	82	623478	49.324	ng	-0.01
42) 2,4,6-Tribromophenol	10.622	330	227232	71.205	ng	-0.01
45) 2-Fluorobiphenyl	9.151	172	1097395	48.524	ng	-0.01
79) Terphenyl-d14	12.910	244	953772	47.256	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.345	178	904679	30.396	ng	100
72) Anthracene	11.398	178	231609	7.942	ng	99
73) Carbazole	11.551	167	54746	2.117	ng	96
75) Fluoranthene	12.539	202	1640535	55.824	ng	99
78) Pyrene	12.769	202	1367518	45.770	ng	99
81) Benzo(a)anthracene	13.963	228	694156	32.318	ng	97
83) Chrysene	13.998	228	529824	26.916	ng	98
87) Indeno(1,2,3-cd)pyrene	16.898	276	349948	15.924	ng	96
88) Benzo(b)fluoranthene	15.027	252	758142m	35.398	ng	
89) Benzo(k)fluoranthene	15.045	252	210695m	11.105	ng	
90) Benzo(a)pyrene	15.386	252	511716	28.273	ng	98
91) Dibenzo(a,h)anthracene	16.904	278	80422m	4.549	ng	
92) Benzo(g,h,i)perylene	17.333	276	319953	17.404	ng	100

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

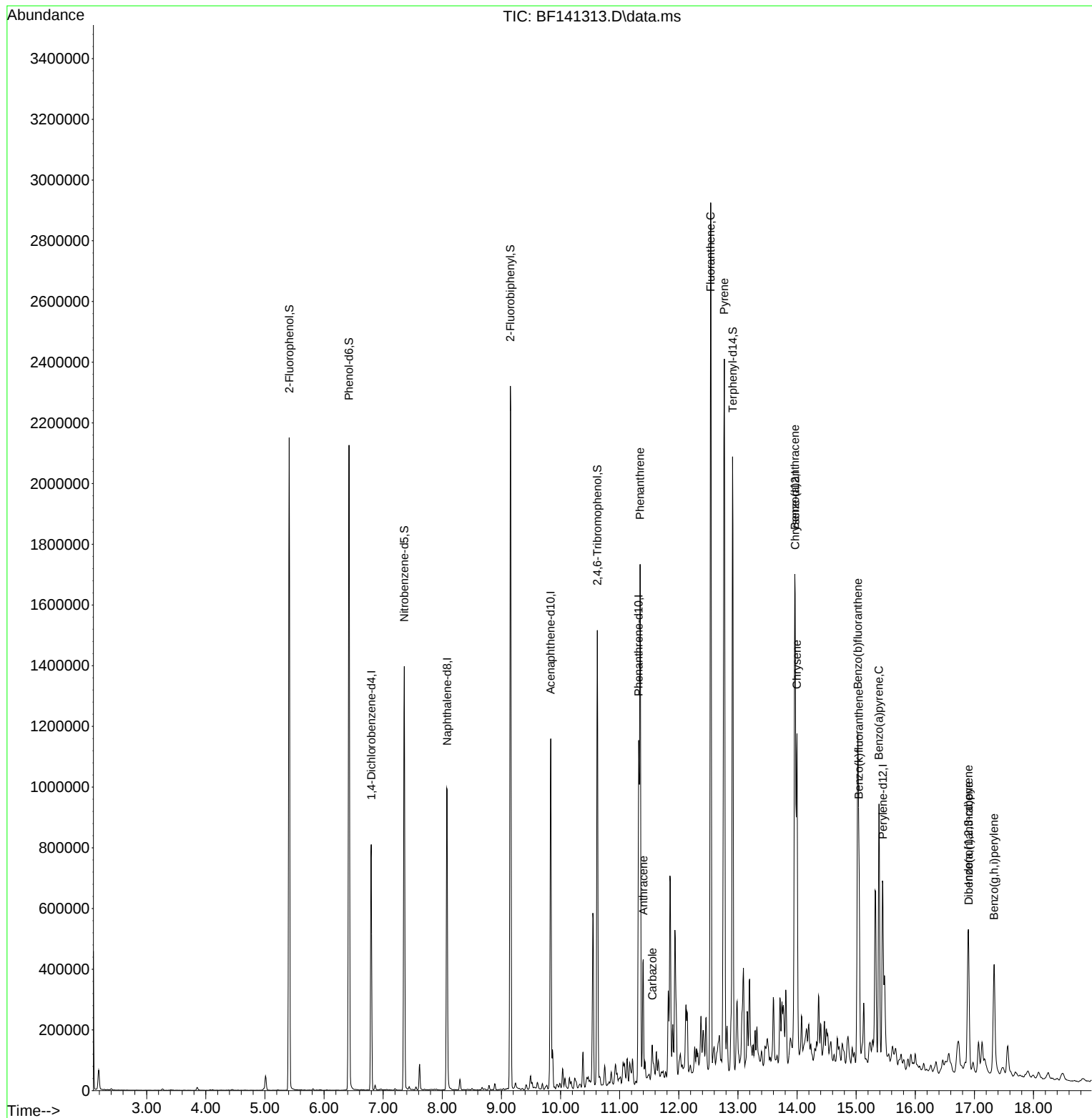
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF013025\
Data File : BF141313.D
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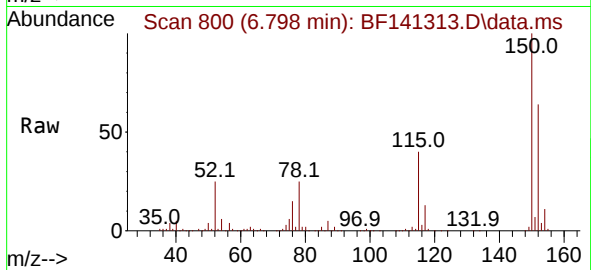
Reviewed By :Jagrut Upadhyay 01/30/2025
Supervised By :mohammad ahmed 01/31/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 800
Delta R.T. -0.006 min
Lab File: BF141313.D
Acq: 30 Jan 2025 15:11

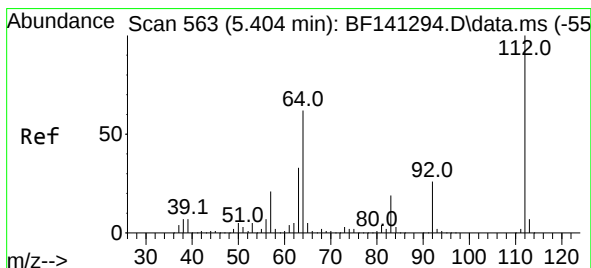
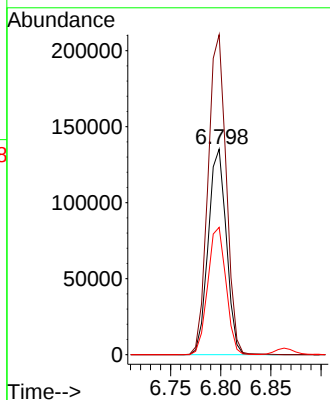
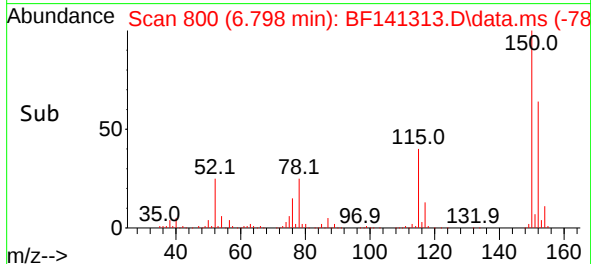
Instrument :
BNA_F
ClientSampleId :
WC-4



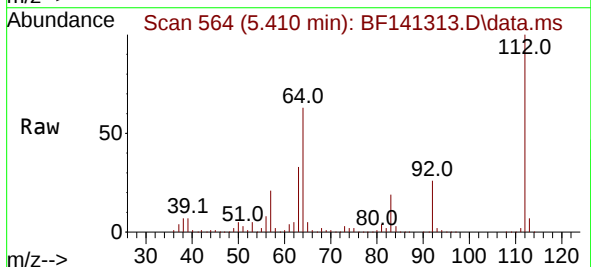
Tgt Ion:152 Resp: 170178
Ion Ratio Lower Upper
152 100
150 155.6 125.9 188.9
115 62.0 49.7 74.5

Manual Integrations
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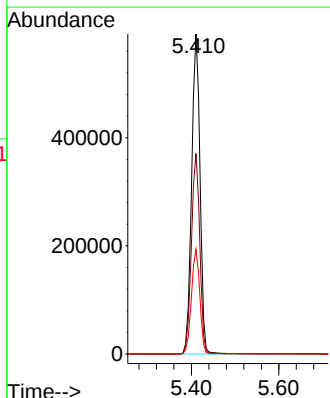
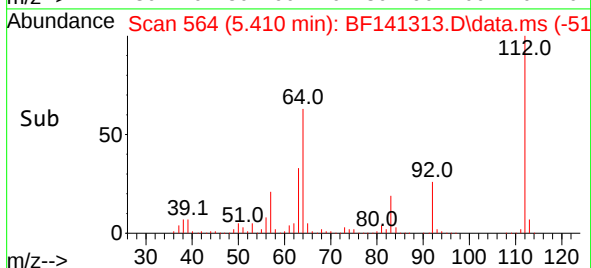
Reviewed By :Jagrut Upadhyay 01/30/2025
Supervised By :mohammad ahmed 01/31/2025

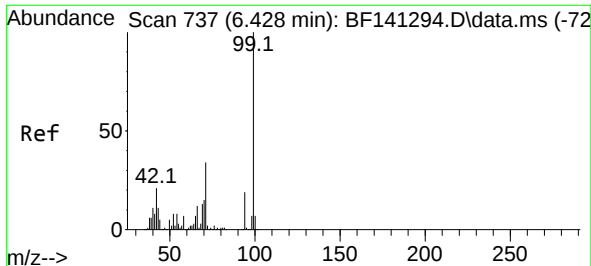


#5
2-Fluorophenol
Concen: 71.338 ng
RT: 5.410 min Scan# 564
Delta R.T. -0.000 min
Lab File: BF141313.D
Acq: 30 Jan 2025 15:11



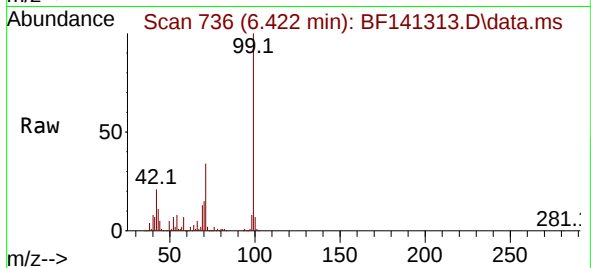
Tgt Ion:112 Resp: 790785
Ion Ratio Lower Upper
112 100
64 62.6 49.8 74.8
63 32.7 26.1 39.1





#7
Phenol-d6
Concen: 70.237 ng
RT: 6.422 min Scan# 71
Delta R.T. -0.018 min
Lab File: BF141313.D
Acq: 30 Jan 2025 15:11

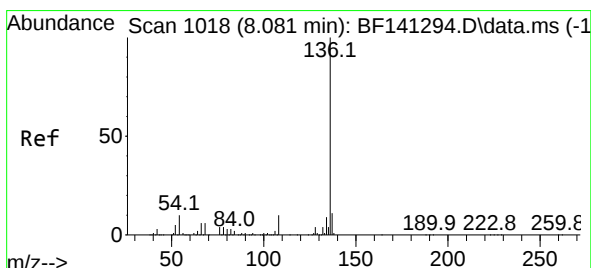
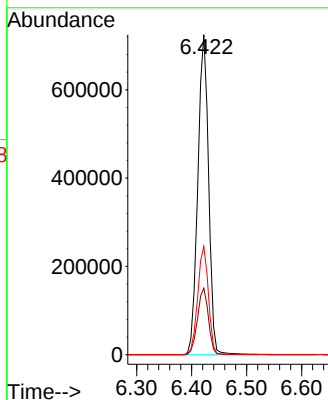
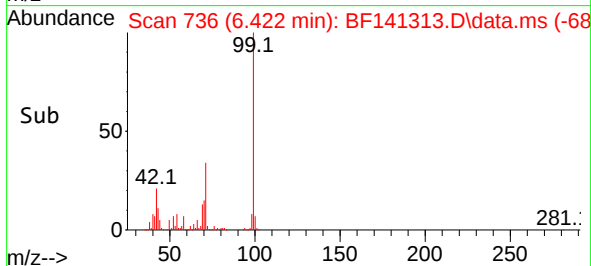
Instrument :
BNA_F
ClientSampleId :
WC-4



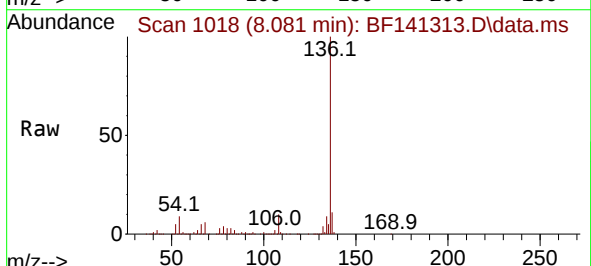
Tgt Ion: 99 Resp: 99045
Ion Ratio Lower Upper
99 100
42 20.8 17.1 25.7
71 33.8 26.9 40.3

Manual Integrations
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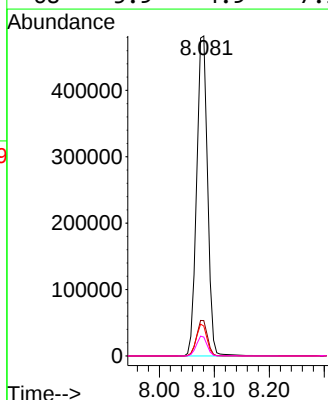
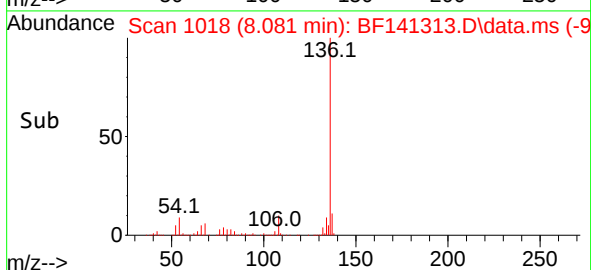
Reviewed By :Jagrut Upadhyay 01/30/2025
Supervised By :mohammad ahmed 01/31/2025

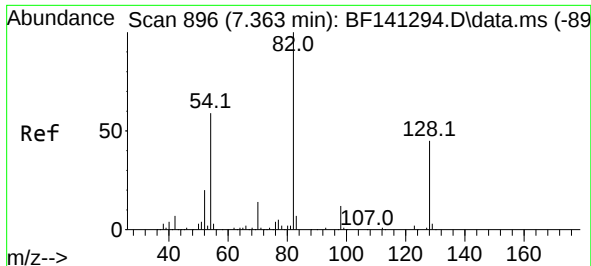


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.081 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF141313.D
Acq: 30 Jan 2025 15:11



Tgt Ion:136 Resp: 666362
Ion Ratio Lower Upper
136 100
137 11.0 8.6 13.0
54 9.4 7.8 11.8
68 5.9 4.9 7.3





#23

Nitrobenzene-d5

Concen: 49.324 ng

RT: 7.357 min Scan# 896

Delta R.T. -0.012 min

Lab File: BF141313.D

Acq: 30 Jan 2025 15:11

Instrument :

BNA_F

ClientSampleId :

WC-4

Tgt Ion: 82 Resp: 623478

Ion Ratio Lower Upper

82 100

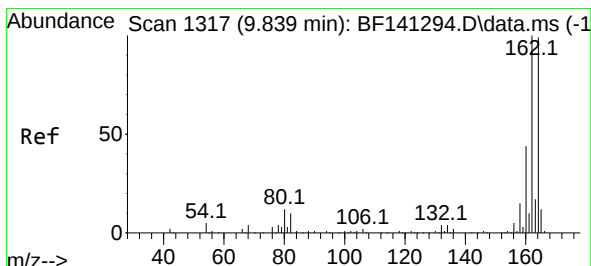
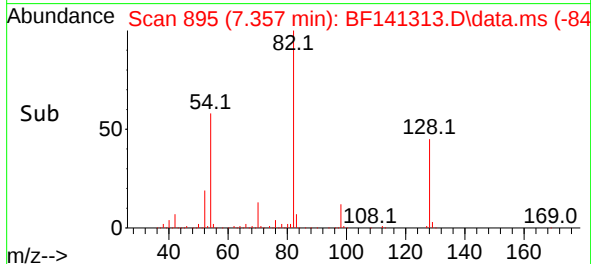
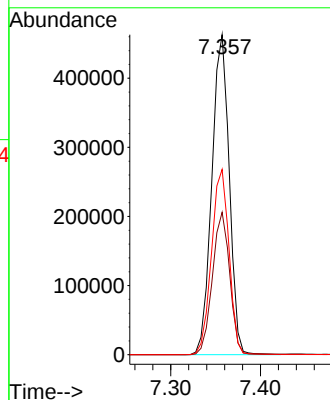
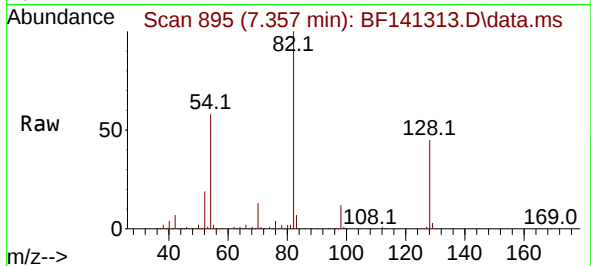
128 44.5 35.7 53.5

54 57.9 47.1 70.7

Manual Integrations

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Supervised By :mohammad ahmed 01/31/2025



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.834 min Scan# 1316

Delta R.T. -0.006 min

Lab File: BF141313.D

Acq: 30 Jan 2025 15:11

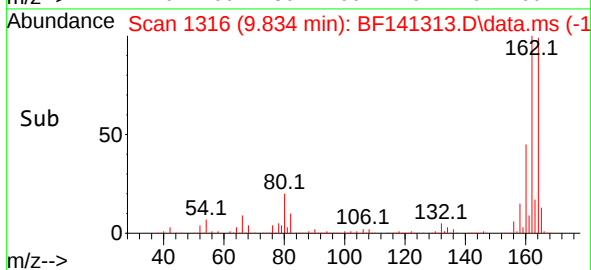
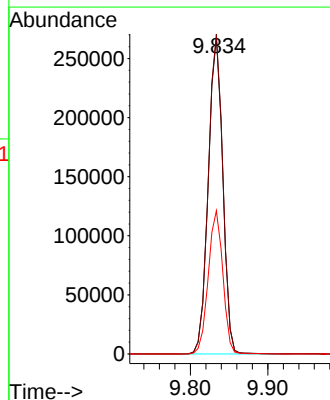
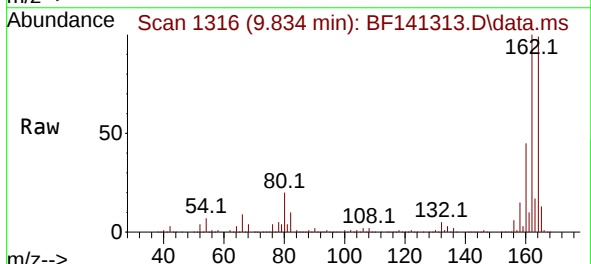
Tgt Ion:164 Resp: 348098

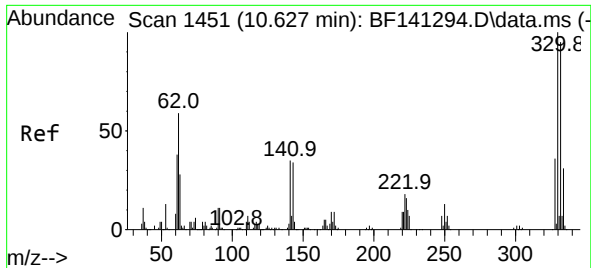
Ion Ratio Lower Upper

164 100

162 101.1 80.6 121.0

160 45.2 35.8 53.6





#42
 2,4,6-Tribromophenol
 Concen: 71.205 ng
 RT: 10.622 min Scan# 1451
 Delta R.T. -0.012 min
 Lab File: BF141313.D
 Acq: 30 Jan 2025 15:11

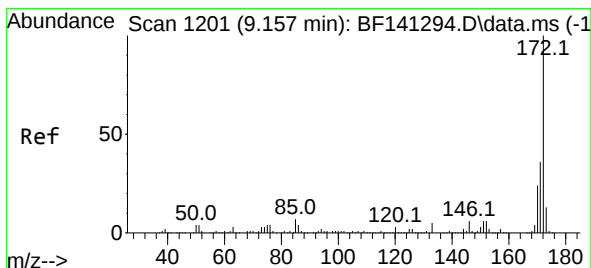
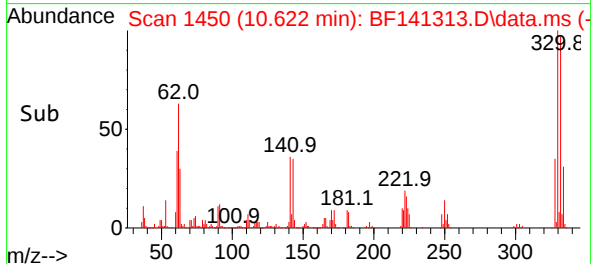
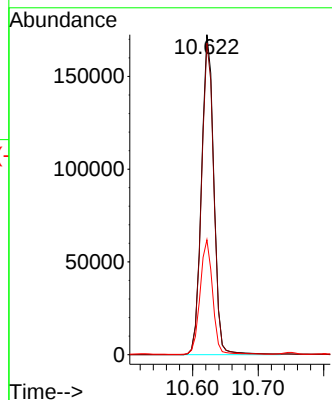
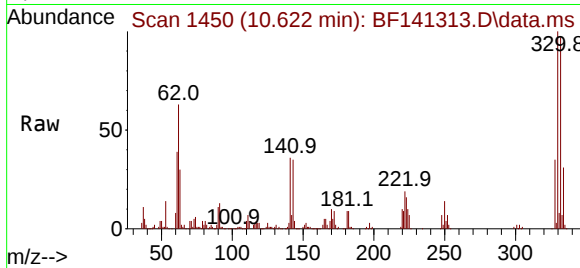
Instrument :
 BNA_F
 ClientSampleId :
 WC-4

Tgt Ion: 330 Resp: 22723

Ion	Ratio	Lower	Upper
330	100		
332	97.3	76.1	114.1
141	36.1	28.8	43.2

Manual Integrations
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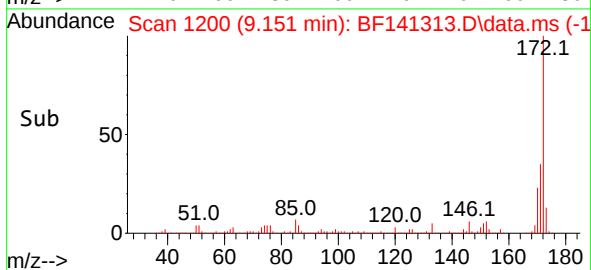
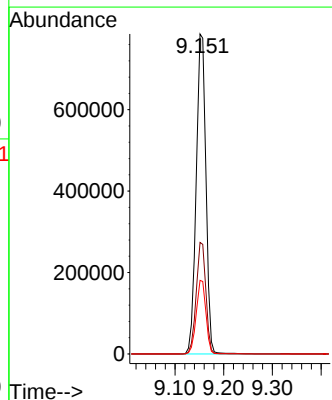
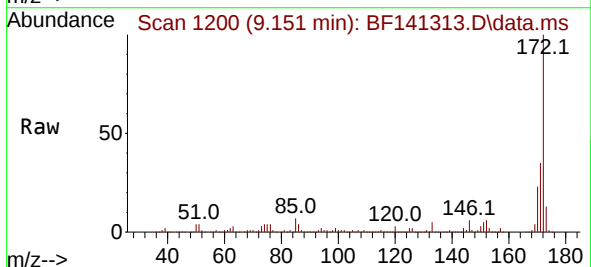
Reviewed By :Jagrut Upadhyay 01/30/2025
 Supervised By :mohammad ahmed 01/31/2025

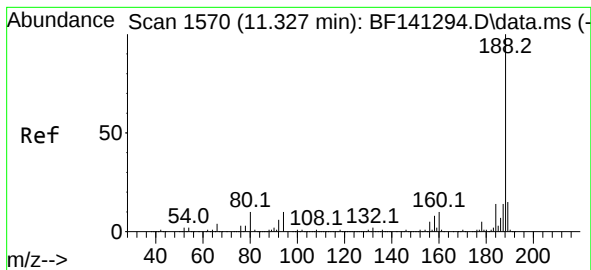


#45
 2-Fluorobiphenyl
 Concen: 48.524 ng
 RT: 9.151 min Scan# 1200
 Delta R.T. -0.012 min
 Lab File: BF141313.D
 Acq: 30 Jan 2025 15:11

Tgt Ion: 172 Resp: 1097395

Ion	Ratio	Lower	Upper
172	100		
171	34.9	28.8	43.2
170	23.0	19.0	28.6





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.322 min Scan# 1569

Delta R.T. -0.006 min

Lab File: BF141313.D

Acq: 30 Jan 2025 15:11

Instrument :

BNA_F

ClientSampleId :

WC-4

Tgt Ion:188 Resp: 55369

Ion Ratio Lower Upper

188 100

94 10.3 7.8 11.6

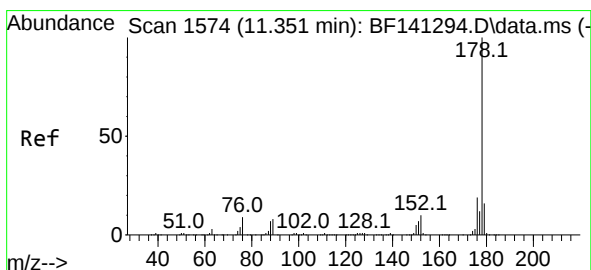
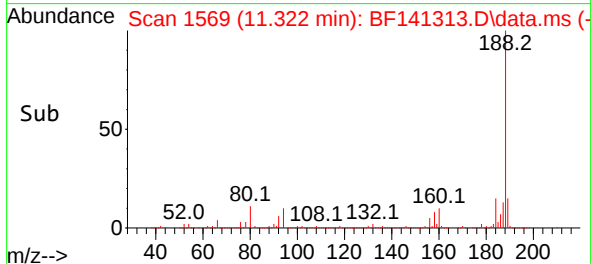
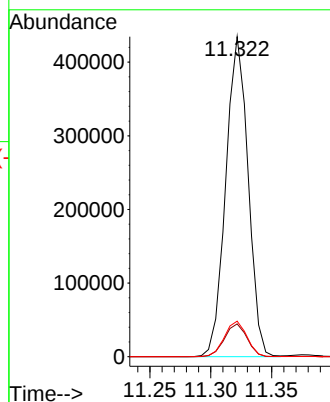
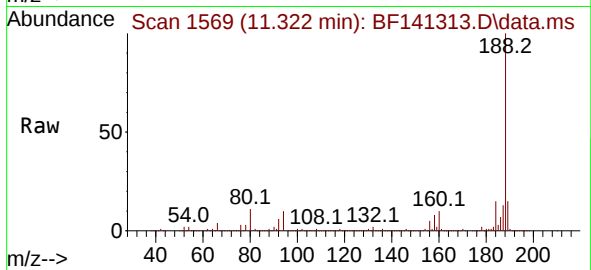
80 11.1 8.2 12.4

Manual Integrations

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Reviewed By :Jagrut Upadhyay 01/30/2025

Supervised By :mohammad ahmed 01/31/2025



#71

Phenanthrene

Concen: 30.396 ng

RT: 11.345 min Scan# 1573

Delta R.T. -0.006 min

Lab File: BF141313.D

Acq: 30 Jan 2025 15:11

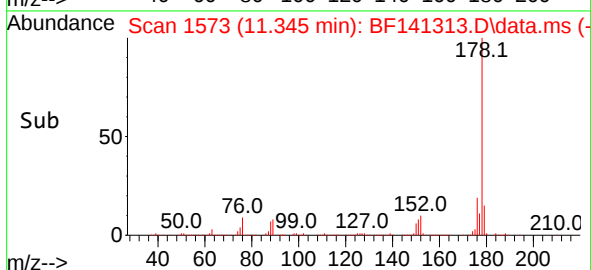
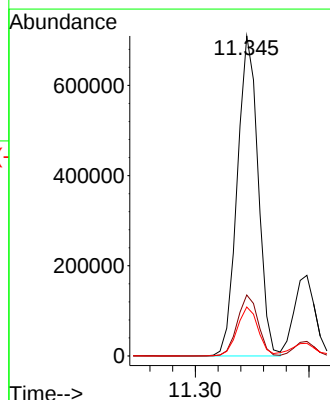
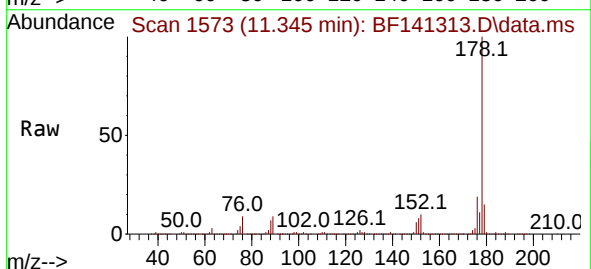
Tgt Ion:178 Resp: 904679

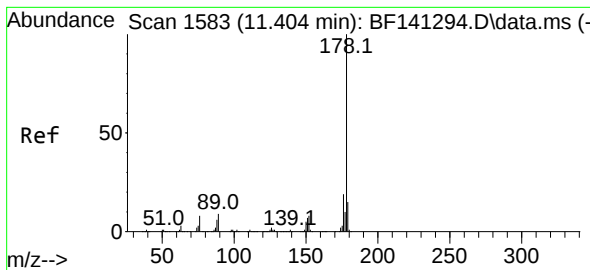
Ion Ratio Lower Upper

178 100

176 19.1 15.3 22.9

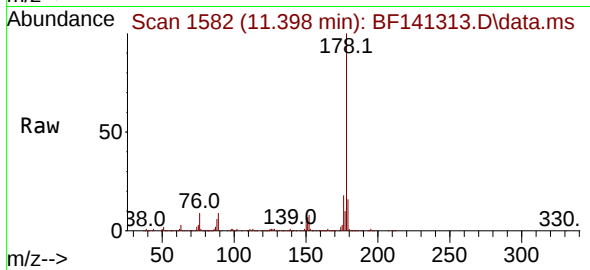
179 15.3 12.5 18.7





#72
 Anthracene
 Concen: 7.942 ng
 RT: 11.398 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF141313.D
 Acq: 30 Jan 2025 15:11

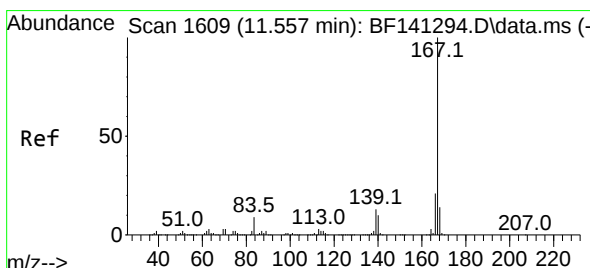
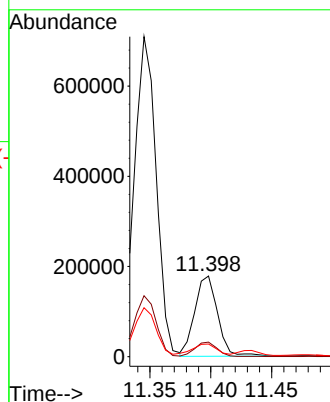
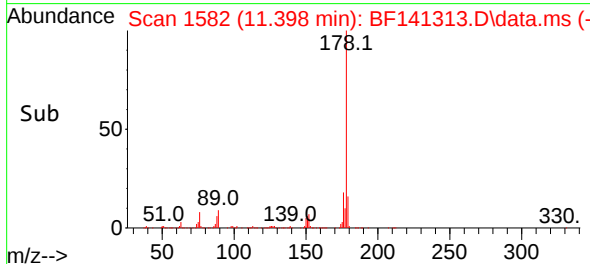
Instrument :
 BNA_F
 ClientSampleId :
 WC-4



Tgt Ion:178 Resp: 231609
 Ion Ratio Lower Upper
 178 100
 176 18.1 15.0 22.6
 179 15.7 12.3 18.5

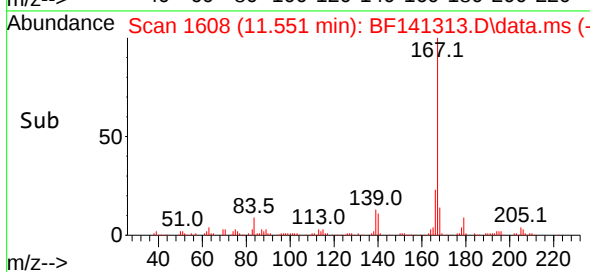
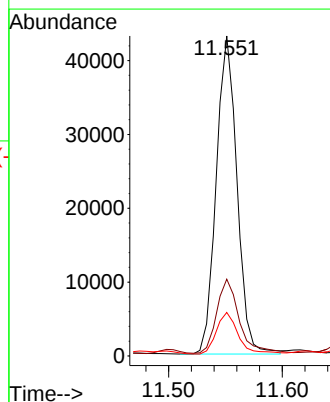
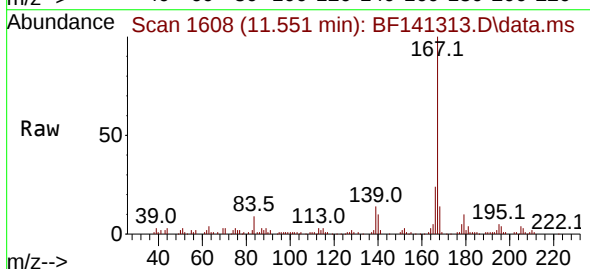
Manual Integrations
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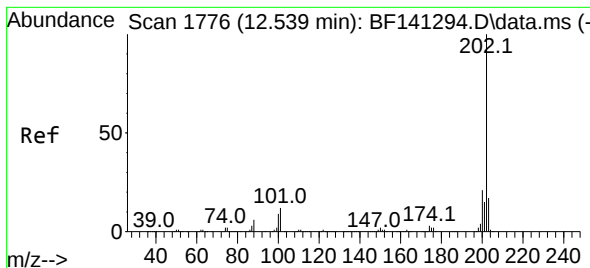
Reviewed By :Jagrut Upadhyay 01/30/2025
 Supervised By :mohammad ahmed 01/31/2025



#73
 Carbazole
 Concen: 2.117 ng
 RT: 11.551 min Scan# 1608
 Delta R.T. -0.006 min
 Lab File: BF141313.D
 Acq: 30 Jan 2025 15:11

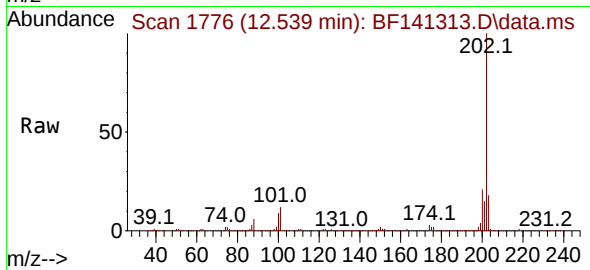
Tgt Ion:167 Resp: 54746
 Ion Ratio Lower Upper
 167 100
 166 24.0 17.0 25.6
 139 13.6 10.6 16.0





#75
Fluoranthene
Concen: 55.824 ng
RT: 12.539 min Scan# 1776
Delta R.T. -0.000 min
Lab File: BF141313.D
Acq: 30 Jan 2025 15:11

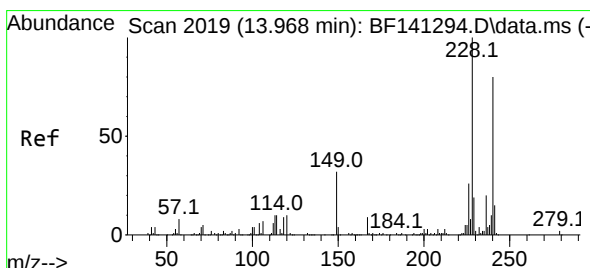
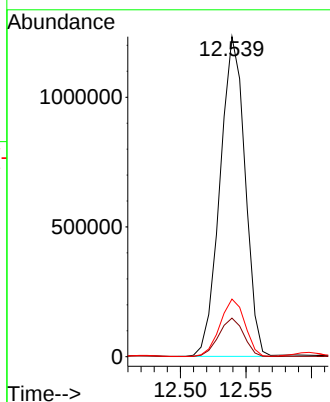
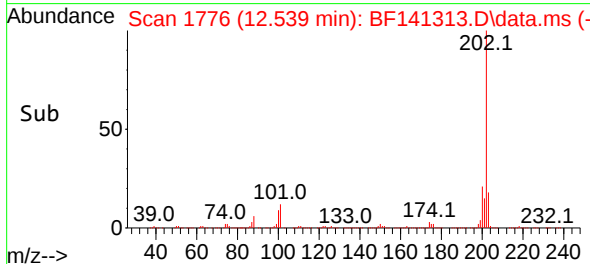
Instrument :
BNA_F
ClientSampleId :
WC-4



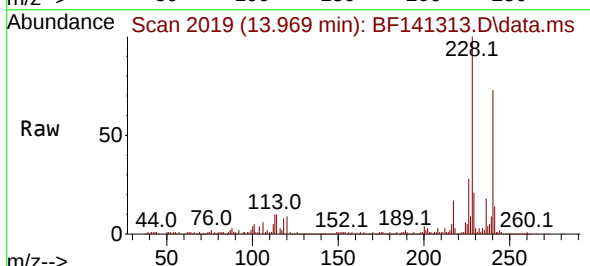
Tgt Ion:202 Resp: 1640539
Ion Ratio Lower Upper
202 100
101 12.1 0.0 31.7
203 18.0 0.0 37.5

Manual Integrations
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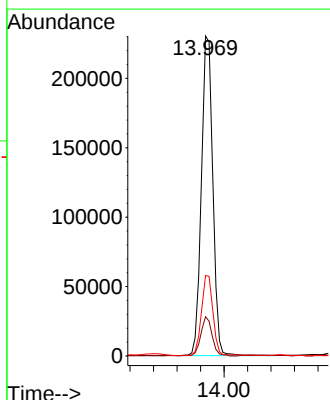
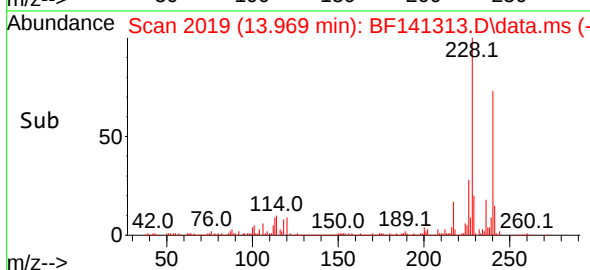
Reviewed By :Jagrut Upadhyay 01/30/2025
Supervised By :mohammad ahmed 01/31/2025

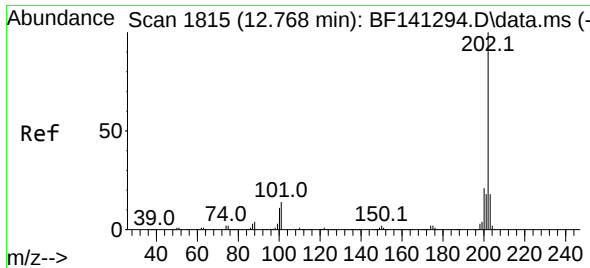


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.969 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF141313.D
Acq: 30 Jan 2025 15:11



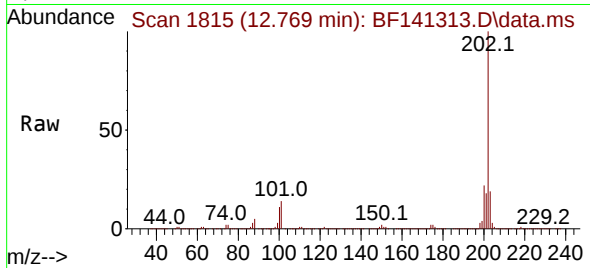
Tgt Ion:240 Resp: 311260
Ion Ratio Lower Upper
240 100
120 12.3 10.0 15.0
236 25.2 19.7 29.5





#78
Pyrene
Concen: 45.770 ng
RT: 12.769 min Scan# 1815
Delta R.T. -0.000 min
Lab File: BF141313.D
Acq: 30 Jan 2025 15:11

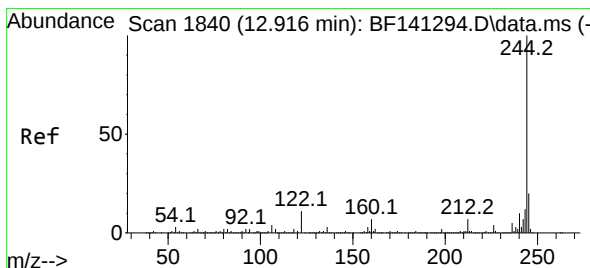
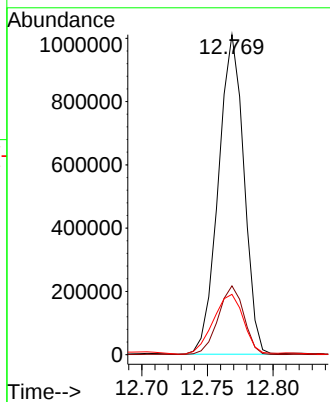
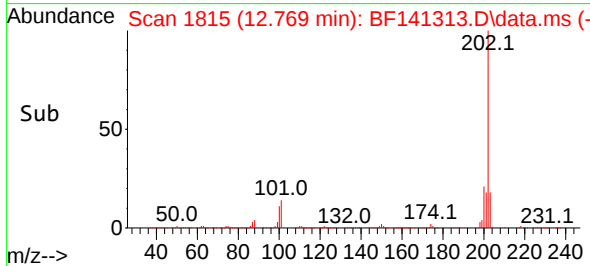
Instrument :
BNA_F
ClientSampleId :
WC-4



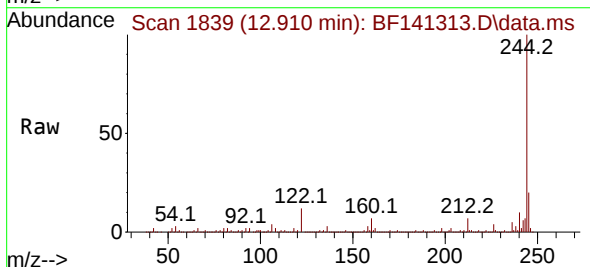
Tgt Ion:202 Resp: 1367518
Ion Ratio Lower Upper
202 100
200 21.5 17.0 25.4
203 18.9 14.3 21.5

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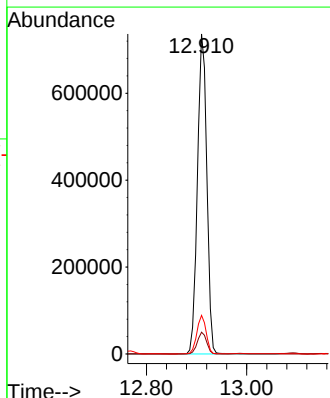
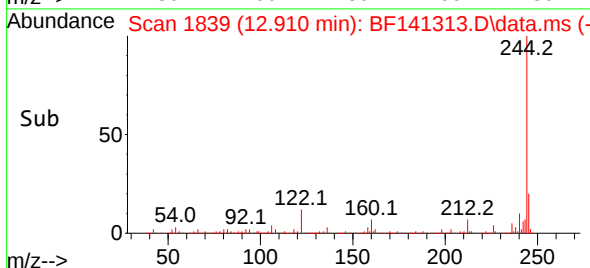
Reviewed By :Jagrut Upadhyay 01/30/2025
Supervised By :mohammad ahmed 01/31/2025

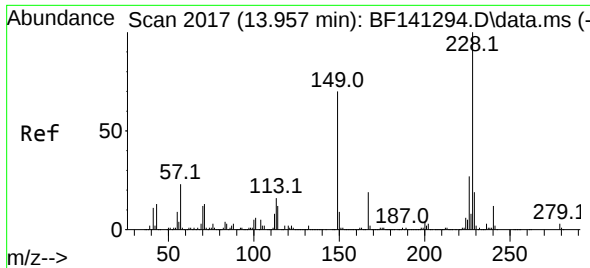


#79
Terphenyl-d14
Concen: 47.256 ng
RT: 12.910 min Scan# 1839
Delta R.T. -0.006 min
Lab File: BF141313.D
Acq: 30 Jan 2025 15:11



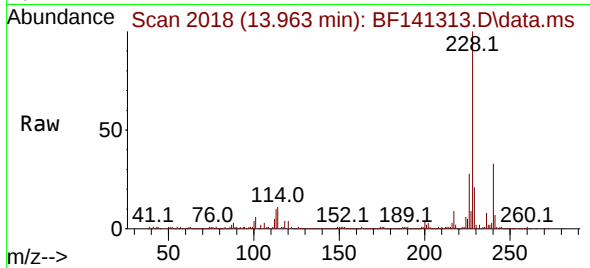
Tgt Ion:244 Resp: 953772
Ion Ratio Lower Upper
244 100
212 6.8 5.4 8.0
122 12.1 8.8 13.2





#81
Benzo(a)anthracene
Concen: 32.318 ng
RT: 13.963 min Scan# 2017
Delta R.T. -0.000 min
Lab File: BF141313.D
Acq: 30 Jan 2025 15:11

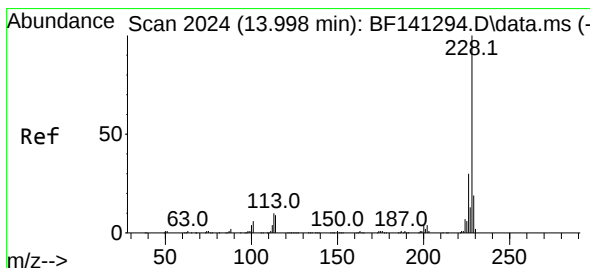
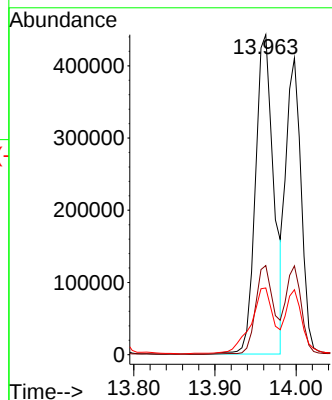
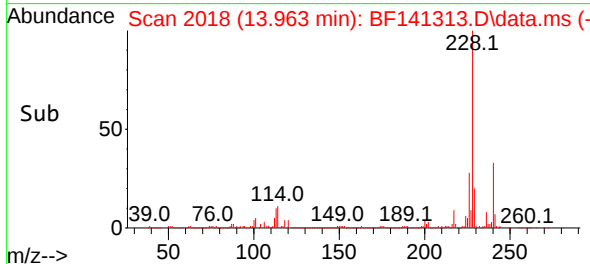
Instrument :
BNA_F
ClientSampleId :
WC-4



Tgt Ion:228 Resp: 694150
Ion Ratio Lower Upper
228 100
226 27.8 21.4 32.2
229 20.8 15.5 23.3

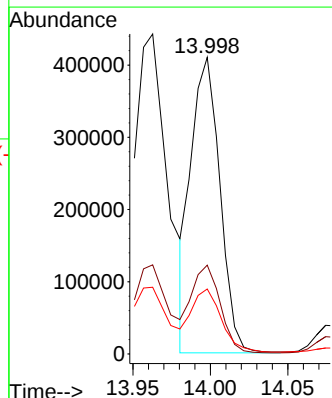
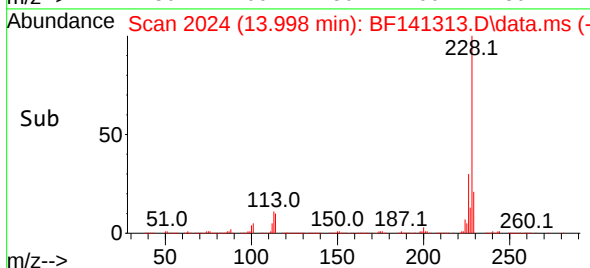
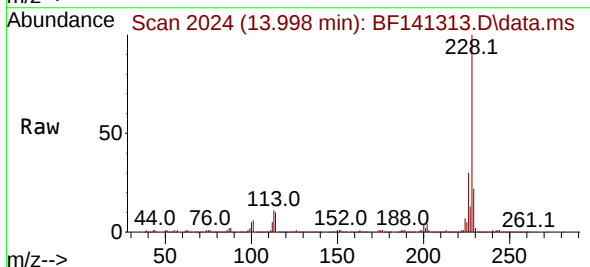
Manual Integrations
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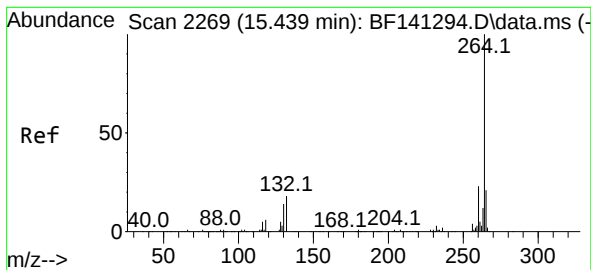
Reviewed By :Jagrut Upadhyay 01/30/2025
Supervised By :mohammad ahmed 01/31/2025



#83
Chrysene
Concen: 26.916 ng
RT: 13.998 min Scan# 2024
Delta R.T. -0.000 min
Lab File: BF141313.D
Acq: 30 Jan 2025 15:11

Tgt Ion:228 Resp: 529824
Ion Ratio Lower Upper
228 100
226 29.9 24.1 36.1
229 21.9 15.6 23.4





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.451 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF141313.D

Acq: 30 Jan 2025 15:11

Instrument :

BNA_F

ClientSampleId :

WC-4

Tgt Ion:264 Resp: 340489

Ion Ratio Lower Upper

264 100

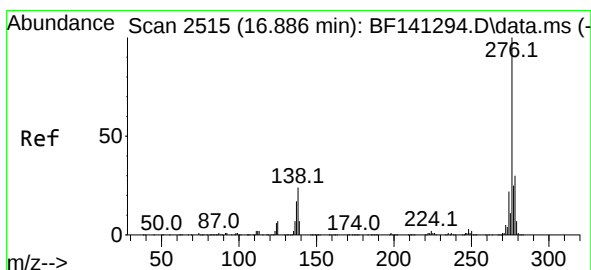
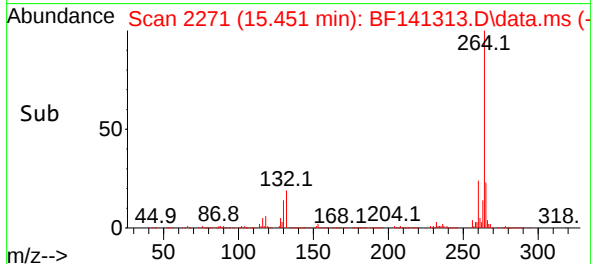
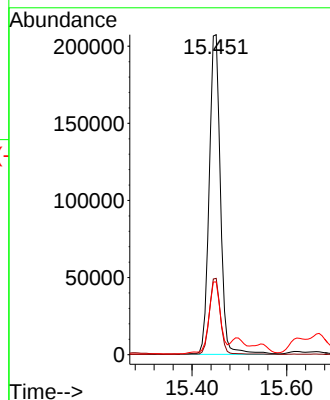
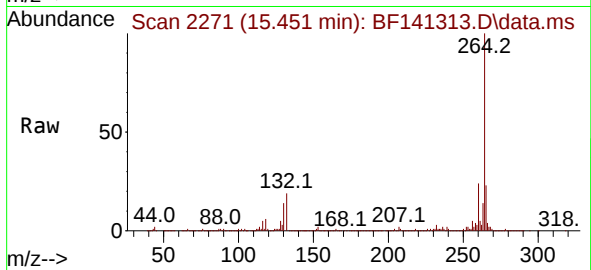
260 23.8 18.6 27.8

265 22.8 16.7 25.1

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Supervised By :mohammad ahmed 01/31/2025



#87

Indeno(1,2,3-cd)pyrene

Concen: 15.924 ng

RT: 16.898 min Scan# 2517

Delta R.T. -0.000 min

Lab File: BF141313.D

Acq: 30 Jan 2025 15:11

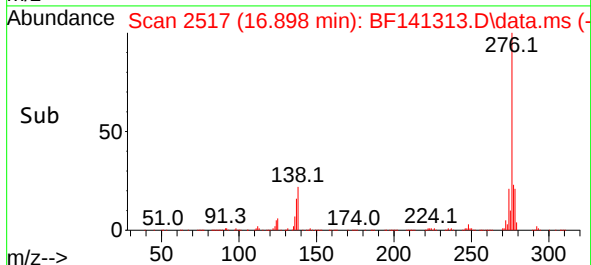
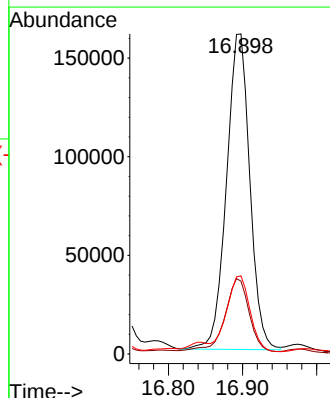
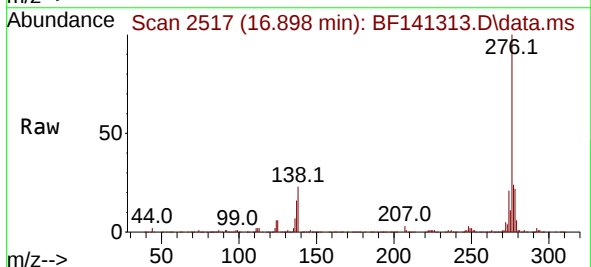
Tgt Ion:276 Resp: 349948

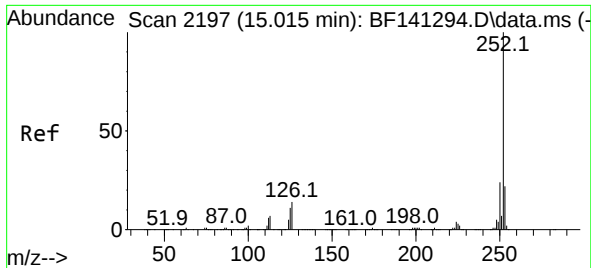
Ion Ratio Lower Upper

276 100

138 23.8 21.7 32.5

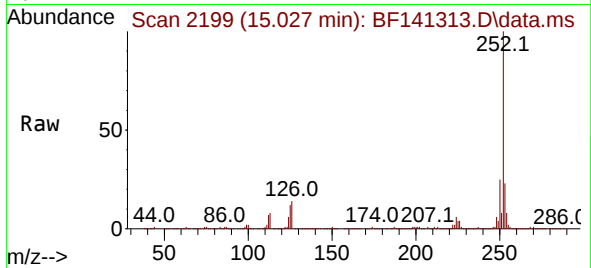
277 24.2 20.3 30.5





#88
Benzo(b)fluoranthene
Concen: 35.398 ng m
RT: 15.027 min Scan# 2199
Delta R.T. 0.006 min
Lab File: BF141313.D
Acq: 30 Jan 2025 15:11

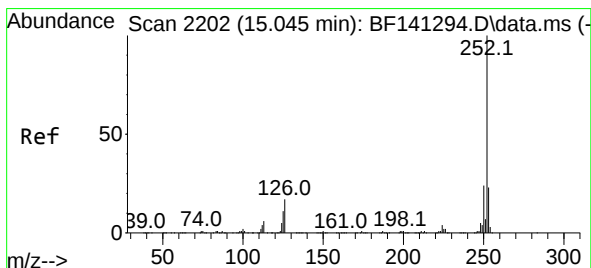
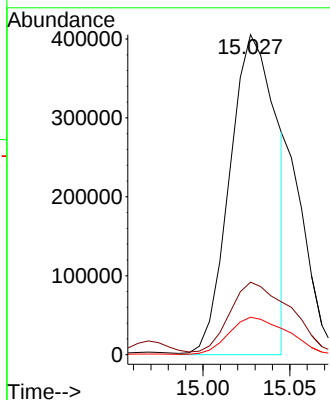
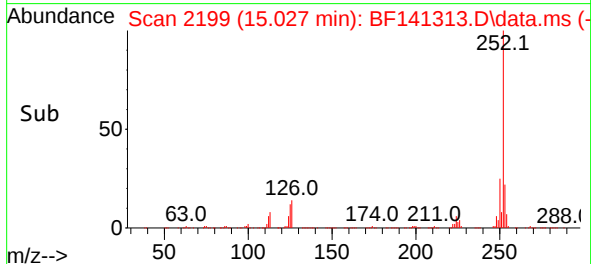
Instrument :
BNA_F
ClientSampleId :
WC-4



Tgt Ion:252 Resp: 75814
Ion Ratio Lower Upper
252 100
253 22.6 17.4 26.2
125 11.7 8.6 12.8

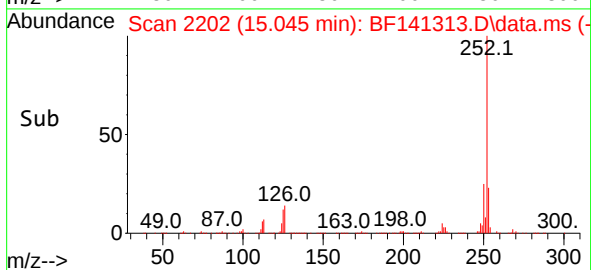
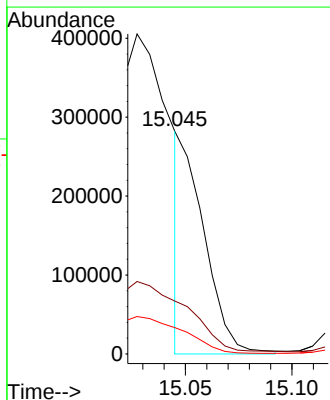
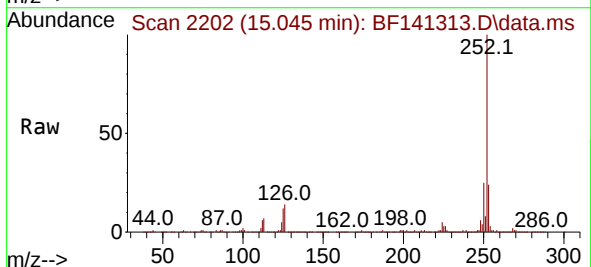
Manual Integrations
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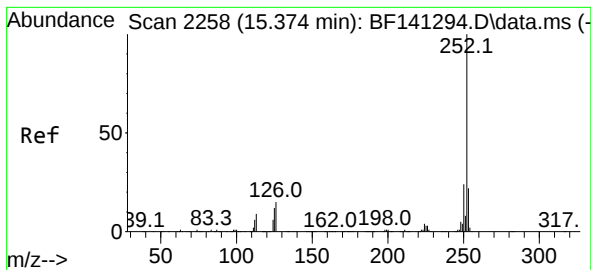
Reviewed By :Jagrut Upadhyay 01/30/2025
Supervised By :mohammad ahmed 01/31/2025



#89
Benzo(k)fluoranthene
Concen: 11.105 ng m
RT: 15.045 min Scan# 2202
Delta R.T. -0.006 min
Lab File: BF141313.D
Acq: 30 Jan 2025 15:11

Tgt Ion:252 Resp: 210695
Ion Ratio Lower Upper
252 100
253 23.7 17.6 26.4
125 11.8 8.4 12.6





#90

Benzo(a)pyrene

Concen: 28.273 ng

RT: 15.386 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF141313.D

Acq: 30 Jan 2025 15:11

Instrument :

BNA_F

ClientSampleId :

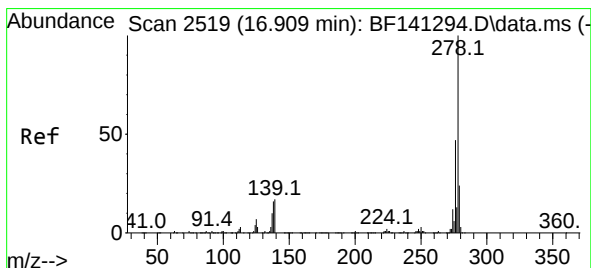
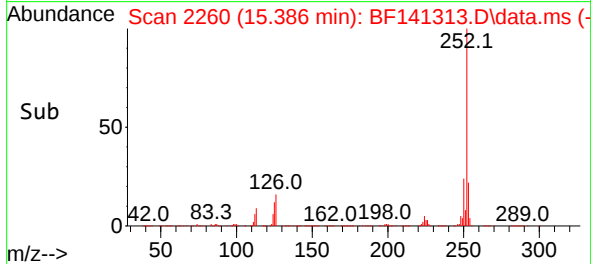
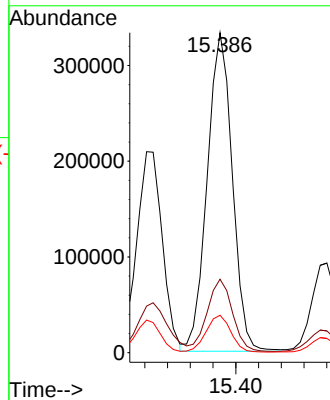
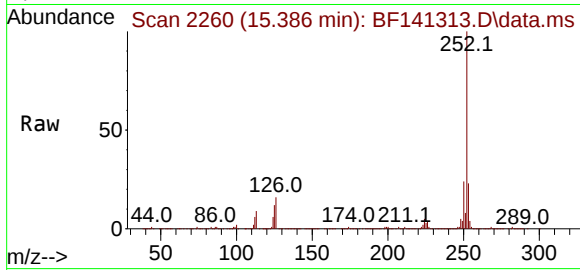
WC-4

Tgt Ion:252 Resp: 511710
 Ion Ratio Lower Upper
 252 100
 253 23.0 17.2 25.8
 125 11.7 9.4 14.2

Manual Integrations

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Reviewed By :Jagrut Upadhyay 01/30/2025
 Supervised By :mohammad ahmed 01/31/2025



#91

Dibenzo(a,h)anthracene

Concen: 4.549 ng m

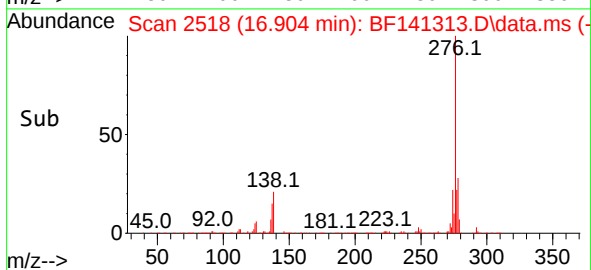
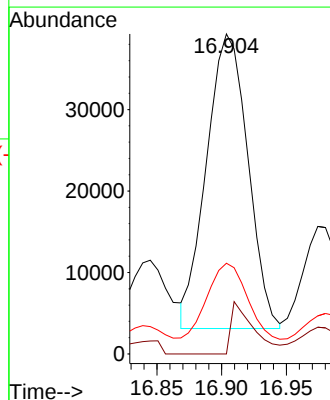
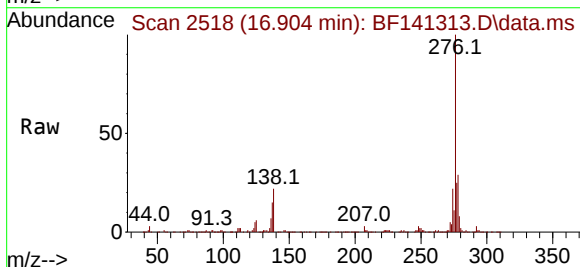
RT: 16.904 min Scan# 2518

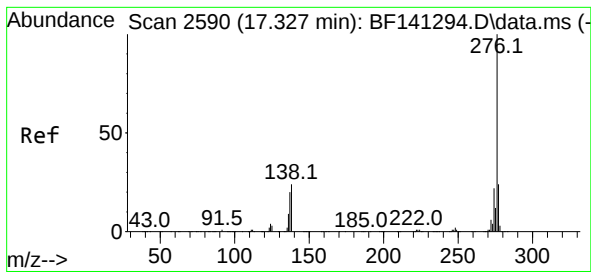
Delta R.T. -0.018 min

Lab File: BF141313.D

Acq: 30 Jan 2025 15:11

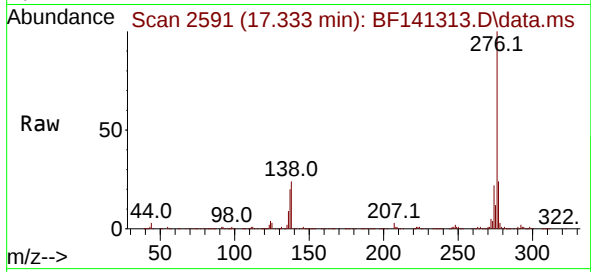
Tgt Ion:278 Resp: 80422
 Ion Ratio Lower Upper
 278 100
 139 0.0 13.9 20.9#
 279 28.4 18.8 28.2#





#92
Benzo(g,h,i)perylene
Concen: 17.404 ng
RT: 17.333 min Scan# 2591
Delta R.T. -0.012 min
Lab File: BF141313.D
Acq: 30 Jan 2025 15:11

Instrument :
BNA_F
ClientSampleId :
WC-4



Tgt Ion:276 Resp: 31995
Ion Ratio Lower Upper
276 100
277 23.7 19.2 28.8
138 23.6 19.0 28.4

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 01/30/2025
Supervised By :mohammad ahmed 01/31/2025

