

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
 Data File : BF144296.D
 Acq On : 20 Nov 2025 15:59
 Operator : RC/JU
 Sample : Q3662-04
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B1-0.0-1.0-20251117

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 11/21/2025
 Supervised By :mohammad ahmed 11/22/2025

Quant Time: Nov 20 16:46:56 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 05 18:37:33 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.863	152	39264	20.000	ng	-0.01
21) Naphthalene-d8	8.145	136	131569	20.000	ng	-0.01
39) Acenaphthene-d10	9.898	164	67150	20.000	ng	-0.02
64) Phenanthrene-d10	11.392	188	132298	20.000	ng	-0.01
76) Chrysene-d12	14.039	240	127839	20.000	ng	-0.01
86) Perylene-d12	15.521	264	98400	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	131616	52.456	ng	0.00
7) Phenol-d6	6.493	99	141899	49.912	ng	0.00
23) Nitrobenzene-d5	7.422	82	82868	36.377	ng	-0.01
42) 2,4,6-Tribromophenol	10.692	330	41299	49.011	ng	-0.01
45) 2-Fluorobiphenyl	9.216	172	155815	34.271	ng	-0.01
79) Terphenyl-d14	12.980	244	219505	27.274	ng	-0.01
Target Compounds						Qvalue
49) Acenaphthylene	9.763	152	18793	3.449	ng	98
71) Phenanthrene	11.416	178	93364	14.174	ng	99
72) Anthracene	11.469	178	17264	2.578	ng	97
75) Fluoranthene	12.610	202	219050	32.193	ng	99
78) Pyrene	12.839	202	229746	22.289	ng	99
81) Benzo(a)anthracene	14.033	228	125294	14.141	ng	94
83) Chrysene	14.069	228	132554	16.206	ng	97
87) Indeno(1,2,3-cd)pyrene	17.015	276	44368	6.281	ng	97
88) Benzo(b)fluoranthene	15.092	252	124392m	22.236	ng	
89) Benzo(k)fluoranthene	15.104	252	45623m	8.713	ng	
90) Benzo(a)pyrene	15.457	252	82438	15.974	ng	# 93
91) Dibenzo(a,h)anthracene	17.021	278	11667	2.057	ng	# 80
92) Benzo(g,h,i)perylene	17.468	276	45713	8.160	ng	# 91

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

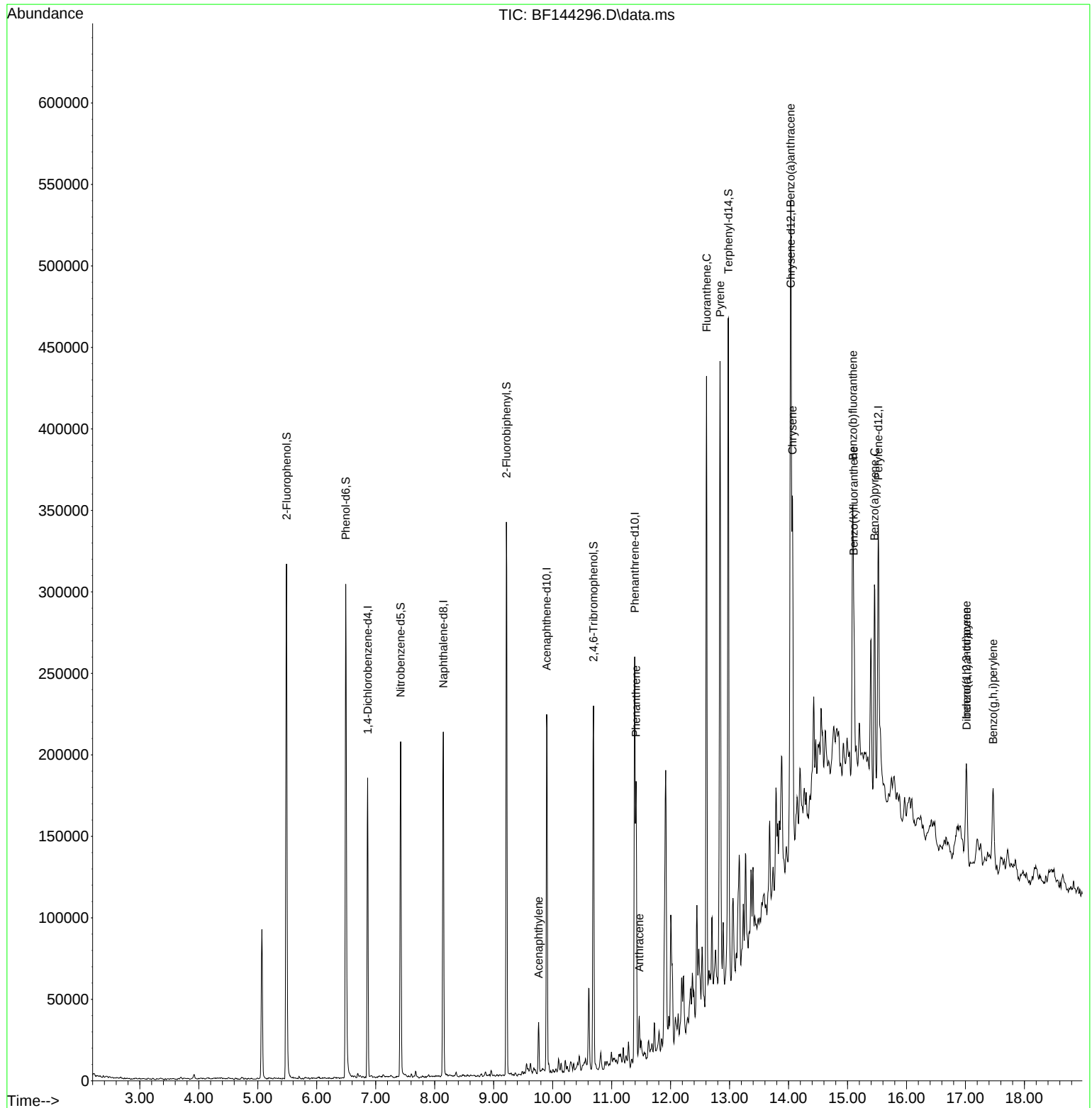
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112025\
Data File : BF144296.D
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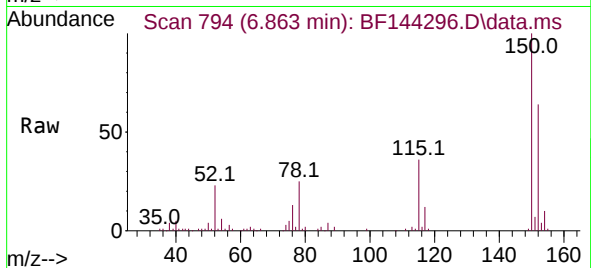
Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.863 min Scan# 796
Delta R.T. -0.012 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

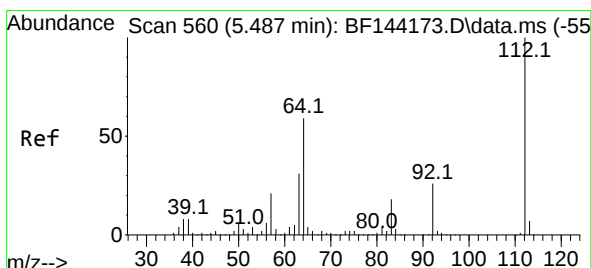
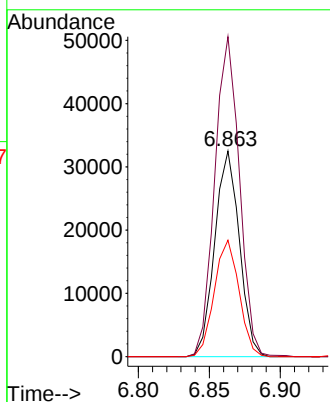
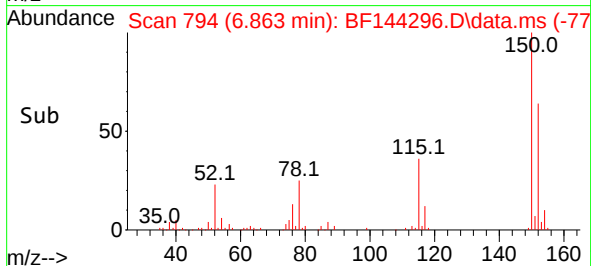
Instrument :
BNA_F
ClientSampleId :
B1-0.0-1.0-20251117



Tgt Ion:152 Resp: 39264
Ion Ratio Lower Upper
152 100
150 155.7 127.4 191.0
115 56.7 49.5 74.3

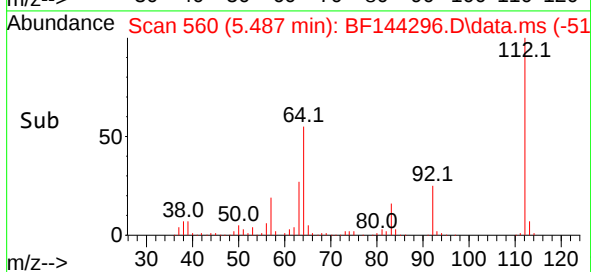
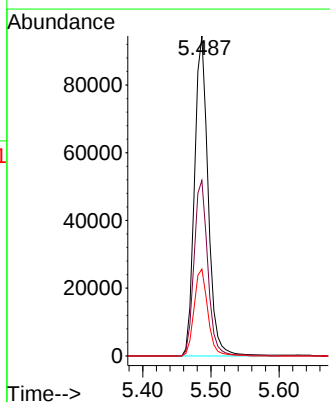
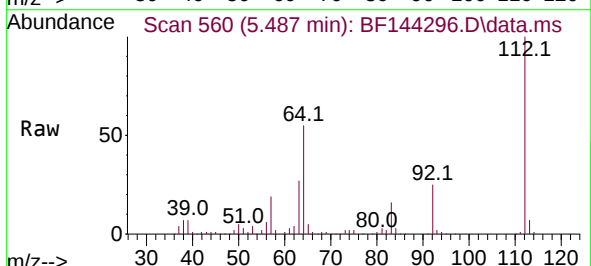
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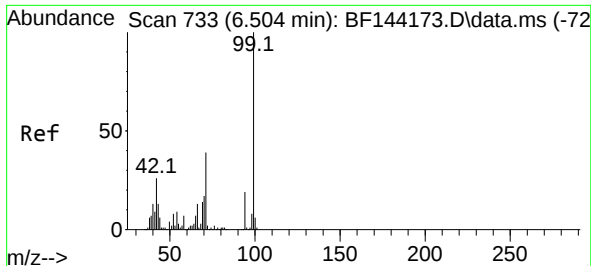
Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025



#5
2-Fluorophenol
Concen: 52.456 ng
RT: 5.487 min Scan# 560
Delta R.T. -0.006 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

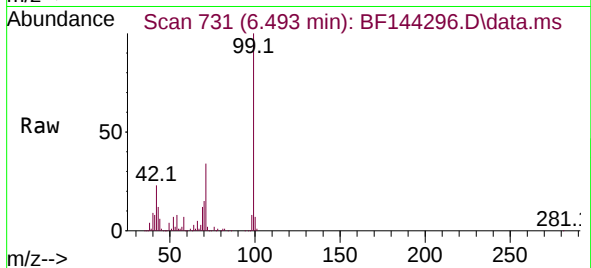
Tgt Ion:112 Resp: 131616
Ion Ratio Lower Upper
112 100
64 54.8 47.2 70.8
63 27.1 24.4 36.6





#7
Phenol-d6
Concen: 49.912 ng
RT: 6.493 min Scan# 731
Delta R.T. -0.006 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

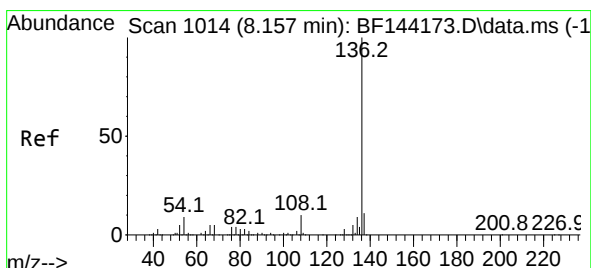
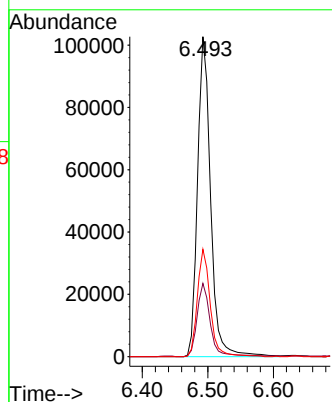
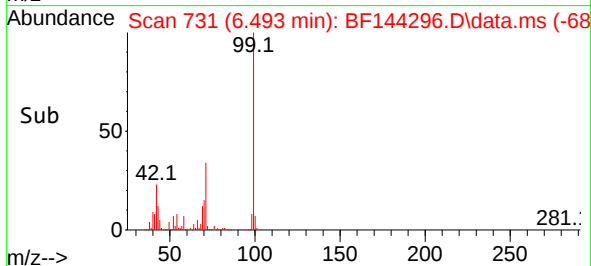
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B1-0.0-1.0-20251117



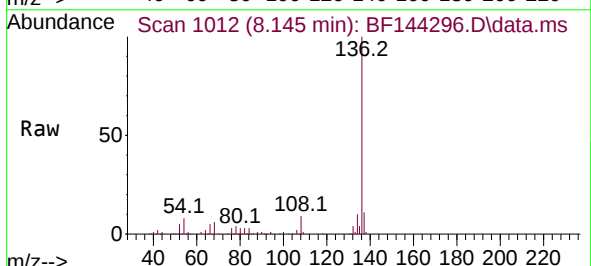
Tgt Ion: 99 Resp: 141899
Ion Ratio Lower Upper
99 100
42 22.9 20.9 31.3
71 33.5 31.4 47.2

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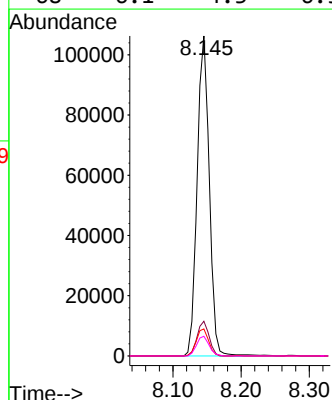
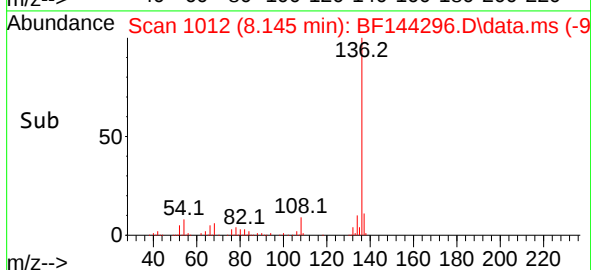
Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025

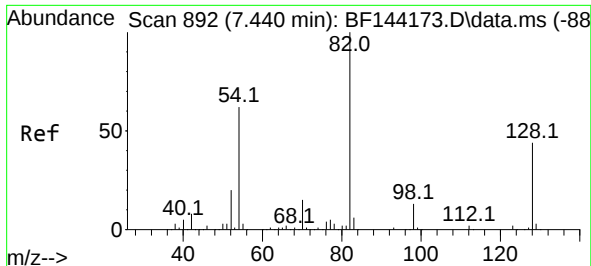


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.145 min Scan# 1012
Delta R.T. -0.012 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59



Tgt Ion:136 Resp: 131569
Ion Ratio Lower Upper
136 100
137 10.8 8.6 13.0
54 8.4 7.0 10.6
68 6.1 4.3 6.5





#23

Nitrobenzene-d5

Concen: 36.377 ng

RT: 7.422 min Scan# 889

Delta R.T. -0.012 min

Lab File: BF144296.D

Acq: 20 Nov 2025 15:59

Instrument :

BNA_F

ClientSampleId :

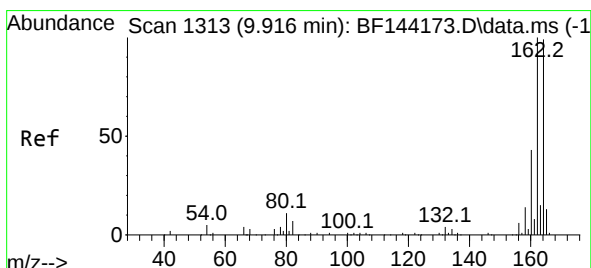
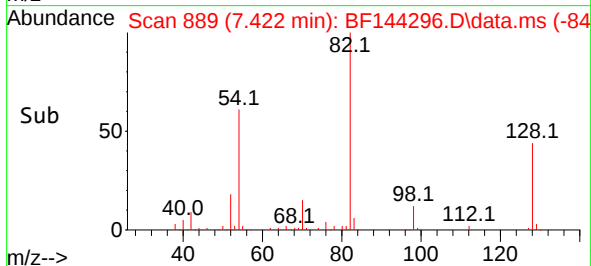
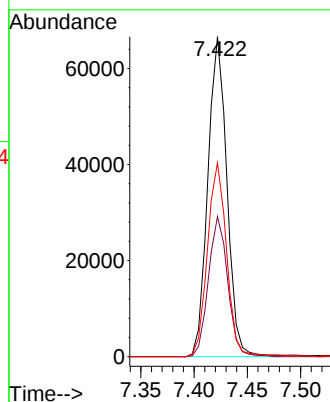
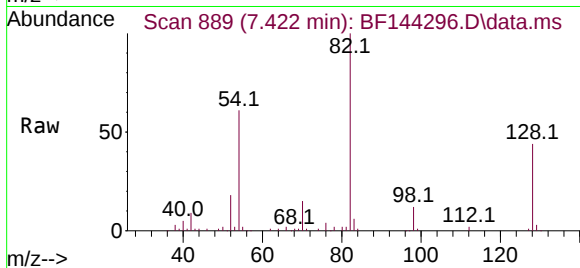
B1-0.0-1.0-20251117

Tgt Ion: 82 Resp: 82868
 Ion Ratio Lower Upper
 82 100
 128 43.8 34.7 52.1
 54 60.6 49.5 74.3

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#39

Acenaphthene-d10

Concen: 20.000 ng

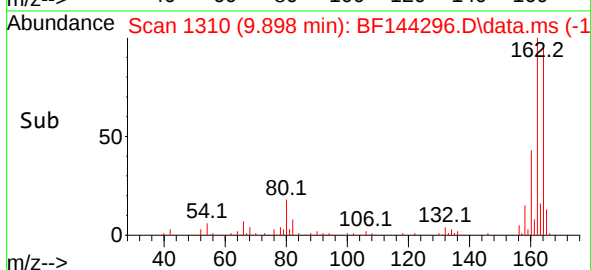
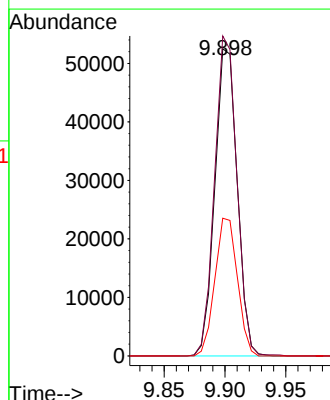
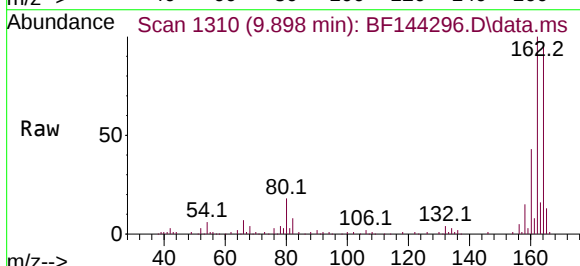
RT: 9.898 min Scan# 1310

Delta R.T. -0.018 min

Lab File: BF144296.D

Acq: 20 Nov 2025 15:59

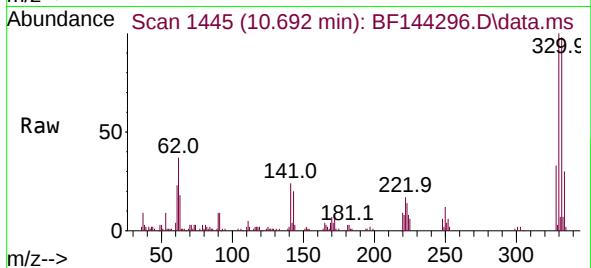
Tgt Ion:164 Resp: 67150
 Ion Ratio Lower Upper
 164 100
 162 104.2 81.1 121.7
 160 44.8 34.5 51.7





#42
2,4,6-Tribromophenol
Concen: 49.011 ng
RT: 10.692 min Scan# 1445
Delta R.T. -0.012 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

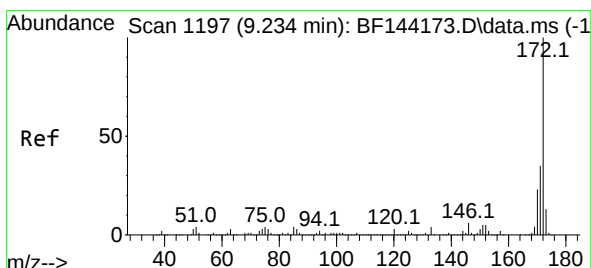
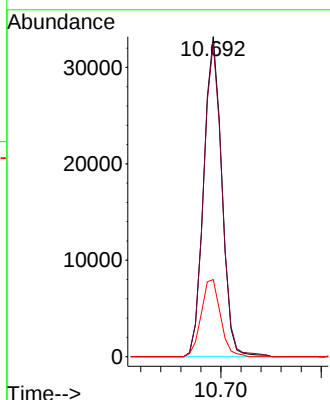
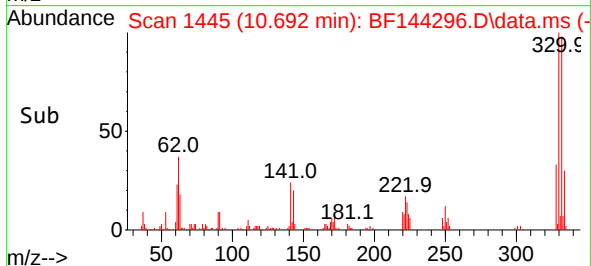
Instrument : BNA_F
ClientSampleId : B1-0.0-1.0-20251117



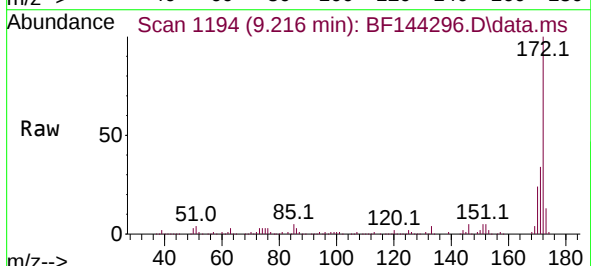
Tgt Ion: 330 Resp: 41299
Ion Ratio Lower Upper
330 100
332 99.6 76.7 115.1
141 25.7 17.8 26.8

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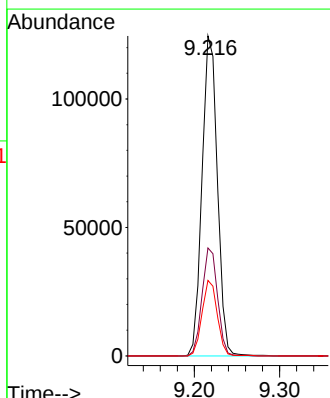
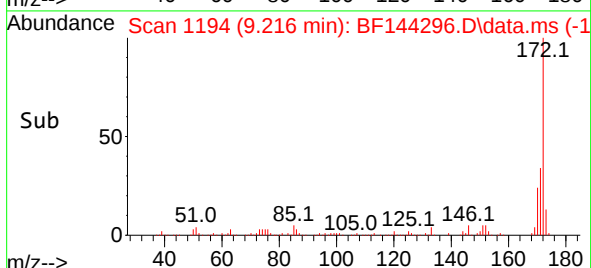
Reviewed By : Jagrut Upadhyay 11/21/2025
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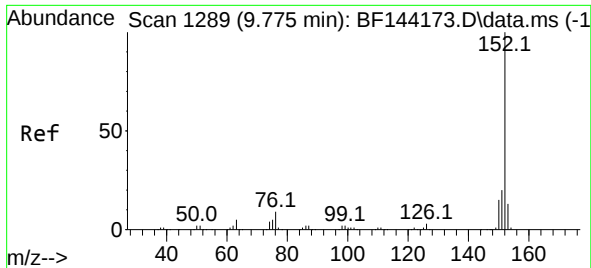


#45
2-Fluorobiphenyl
Concen: 34.271 ng
RT: 9.216 min Scan# 1194
Delta R.T. -0.012 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59



Tgt Ion: 172 Resp: 155815
Ion Ratio Lower Upper
172 100
171 33.7 28.1 42.1
170 23.6 18.6 28.0





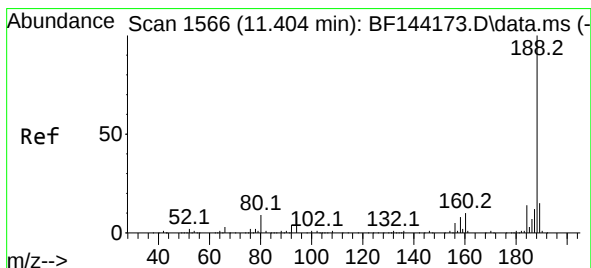
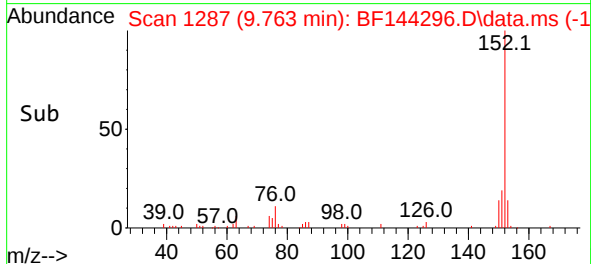
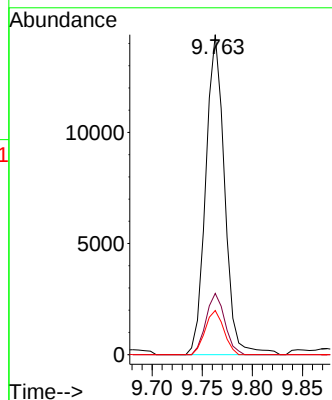
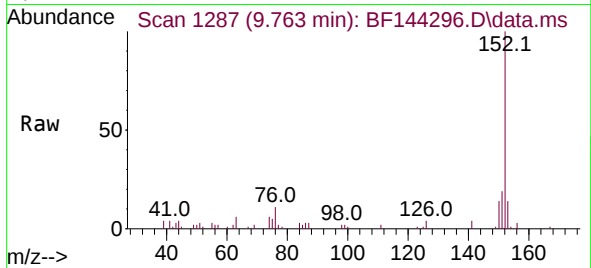
#49
Acenaphthylene
Concen: 3.449 ng
RT: 9.763 min Scan# 1289
Delta R.T. -0.012 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

Instrument :
BNA_F
ClientSampleId :
B1-0.0-1.0-20251117

Tgt Ion:152 Resp: 18793
Ion Ratio Lower Upper
152 100
151 19.1 15.9 23.9
153 13.8 10.5 15.7

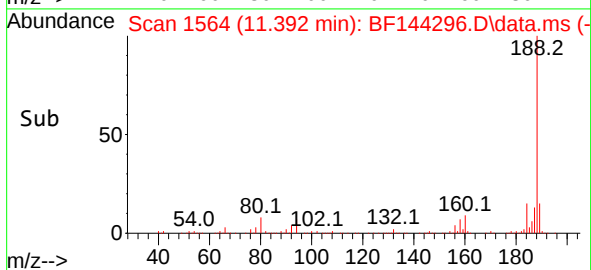
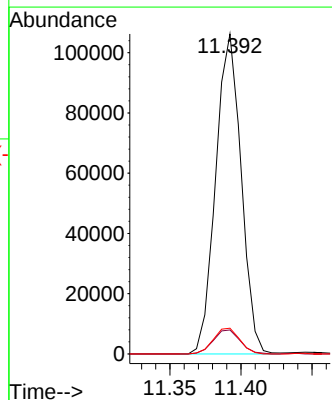
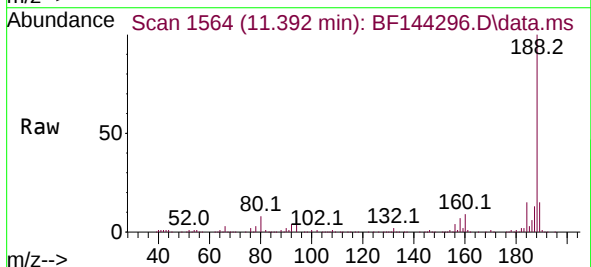
Manual Integrations
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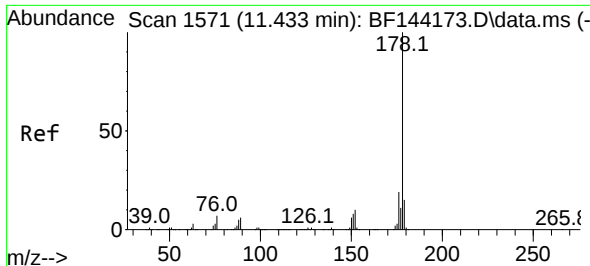
Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 1564
Delta R.T. -0.012 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

Tgt Ion:188 Resp: 132298
Ion Ratio Lower Upper
188 100
94 7.5 6.2 9.2
80 8.0 6.9 10.3





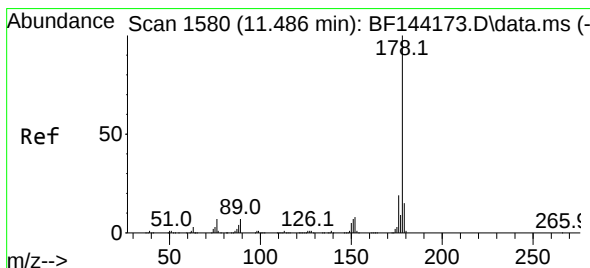
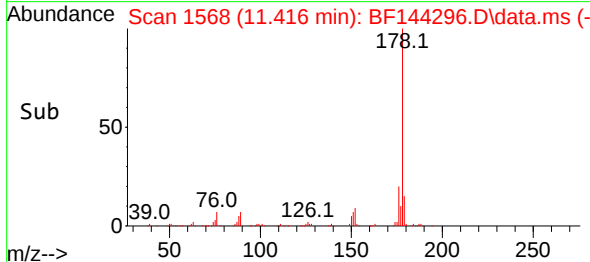
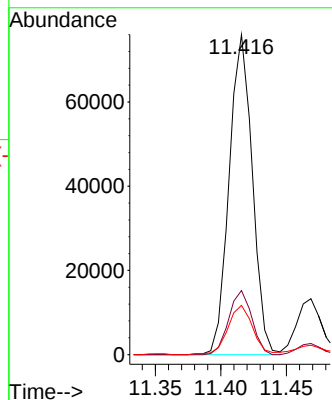
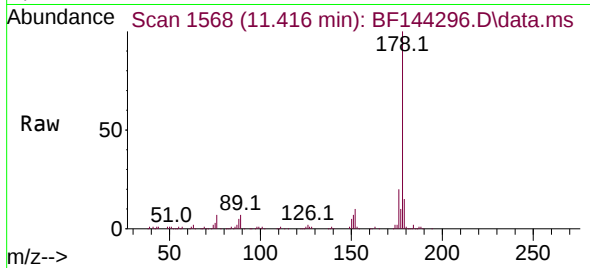
#71
Phenanthrene
Concen: 14.174 ng
RT: 11.416 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

Instrument :
BNA_F
ClientSampleId :
B1-0.0-1.0-20251117

Tgt Ion:178 Resp: 93364
Ion Ratio Lower Upper
178 100
176 20.0 15.5 23.3
179 15.4 12.2 18.4

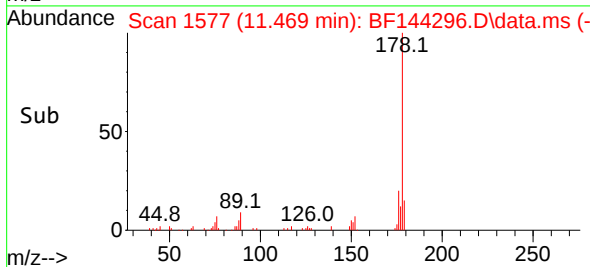
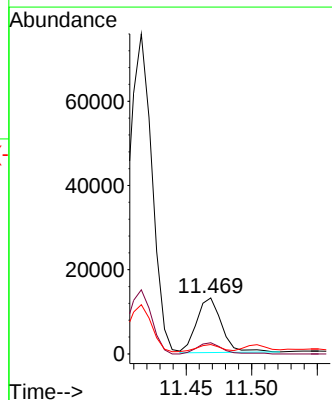
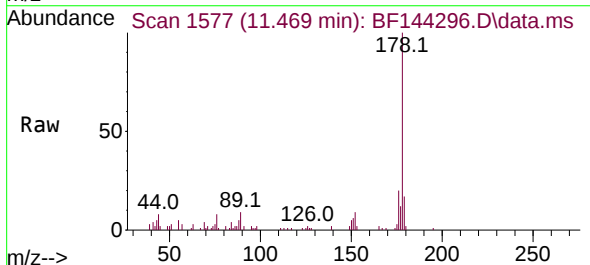
Manual Integrations
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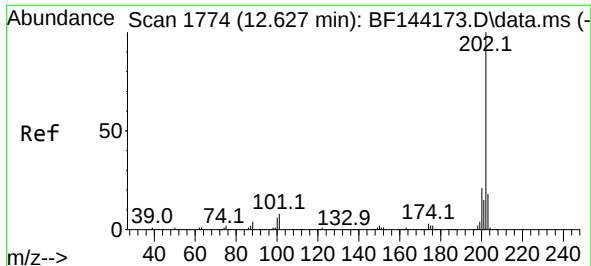
Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025



#72
Anthracene
Concen: 2.578 ng
RT: 11.469 min Scan# 1577
Delta R.T. -0.012 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

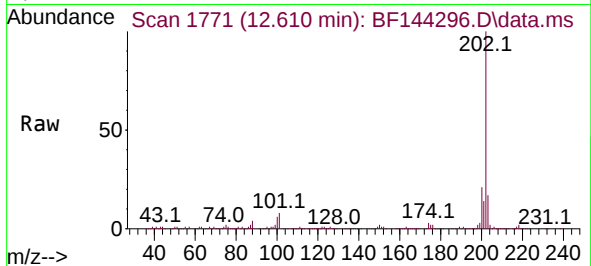
Tgt Ion:178 Resp: 17264
Ion Ratio Lower Upper
178 100
176 19.9 15.3 22.9
179 16.7 12.0 18.0





#75
Fluoranthene
Concen: 32.193 ng
RT: 12.610 min Scan# 1774
Delta R.T. -0.012 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

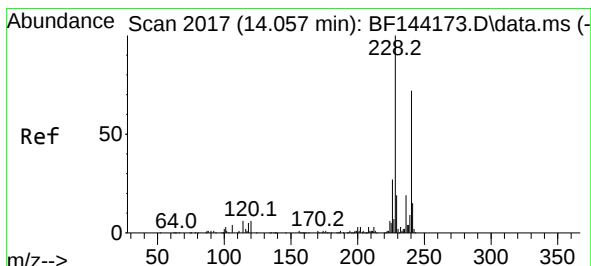
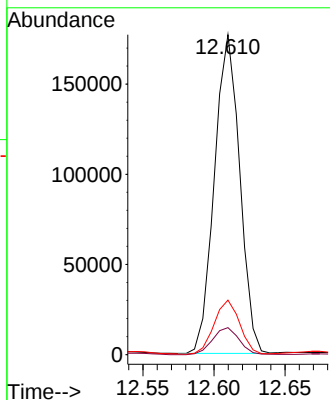
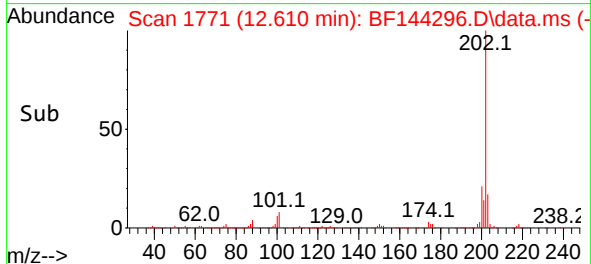
Instrument :
BNA_F
ClientSampleId :
B1-0.0-1.0-20251117



Tgt Ion:202 Resp: 219050
Ion Ratio Lower Upper
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101 8.4 0.0 27.9
203 17.0 0.0 37.5

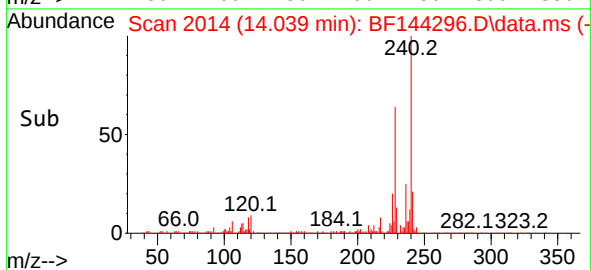
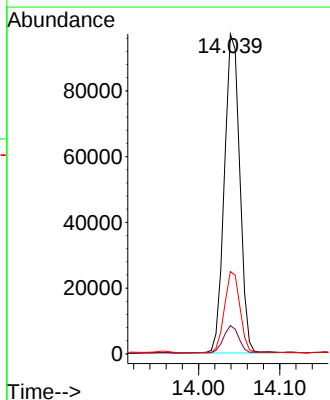
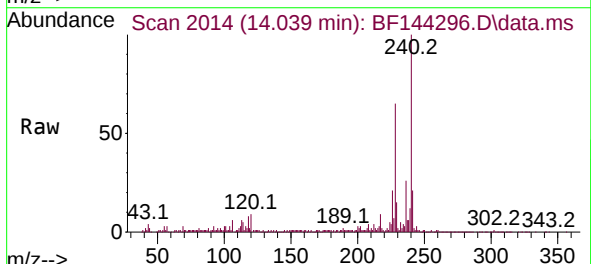
Manual Integrations
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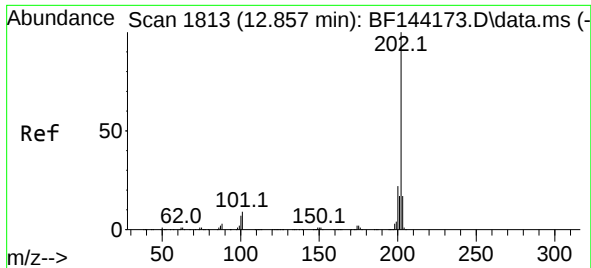
Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2014
Delta R.T. -0.012 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

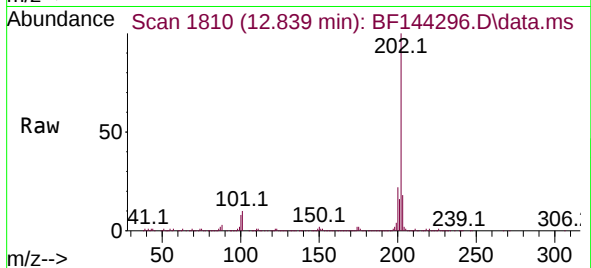
Tgt Ion:240 Resp: 127839
Ion Ratio Lower Upper
240 100
120 8.9 6.6 10.0
236 25.7 21.4 32.2





#78
Pyrene
Concen: 22.289 ng
RT: 12.839 min Scan# 1813
Delta R.T. -0.012 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

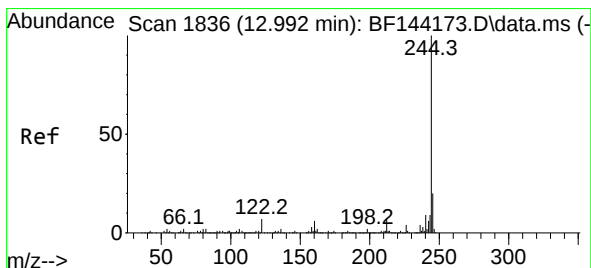
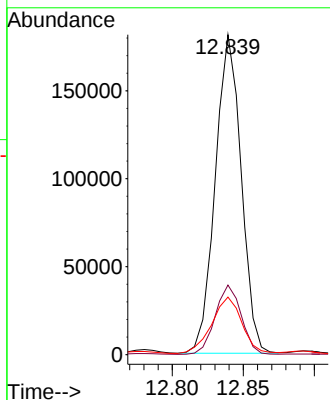
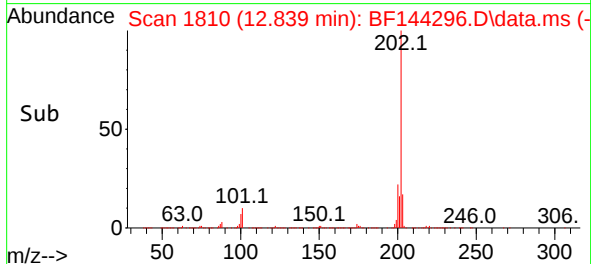
Instrument :
BNA_F
ClientSampleId :
B1-0.0-1.0-20251117



Tgt Ion:202 Resp: 229746
Ion Ratio Lower Upper
202 100
200 21.7 17.2 25.8
203 18.0 13.7 20.5

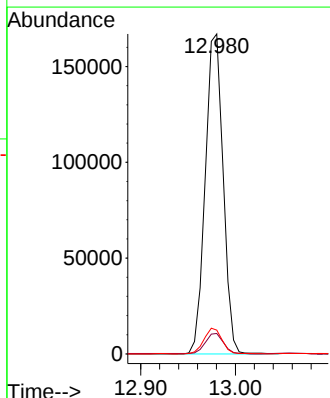
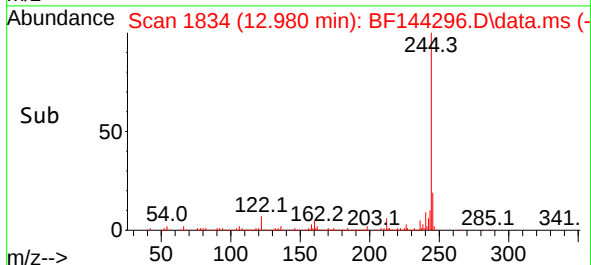
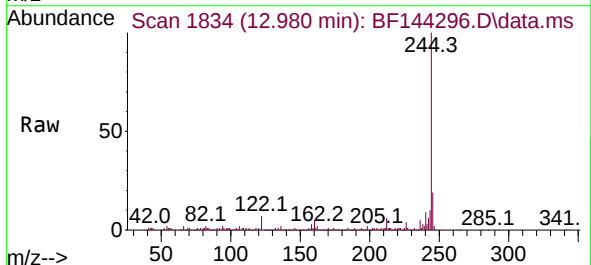
Manual Integrations
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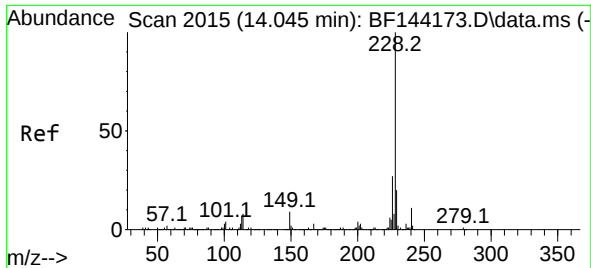
Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025



#79
Terphenyl-d14
Concen: 27.274 ng
RT: 12.980 min Scan# 1834
Delta R.T. -0.012 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

Tgt Ion:244 Resp: 219505
Ion Ratio Lower Upper
244 100
212 6.4 5.3 7.9
122 7.4 5.6 8.4





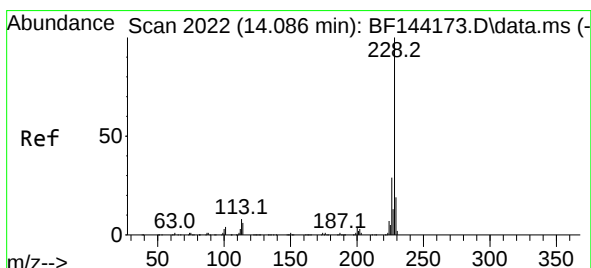
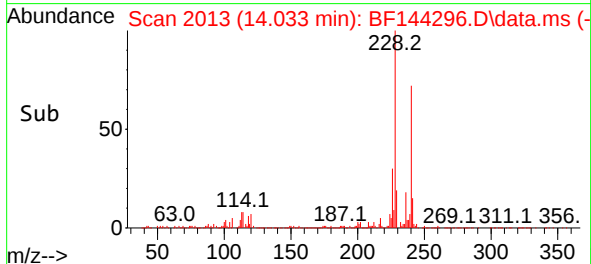
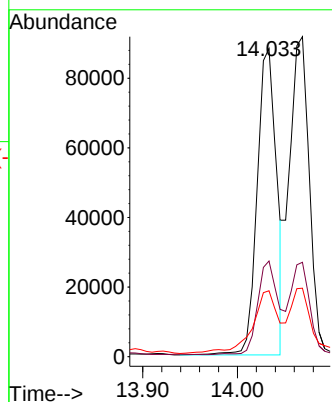
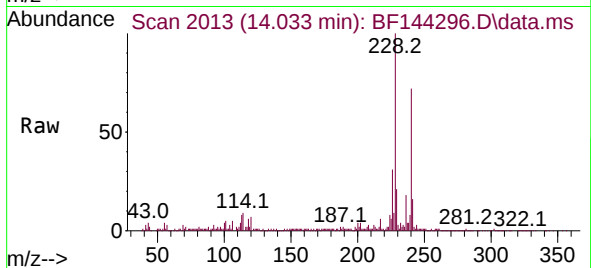
#81
Benzo(a)anthracene
Concen: 14.141 ng
RT: 14.033 min Scan# 2019
Delta R.T. -0.012 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

Instrument :
BNA_F
ClientSampleId :
B1-0.0-1.0-20251117

Tgt Ion:228 Resp: 125294
Ion Ratio Lower Upper
228 100
226 31.0 21.8 32.8
229 21.4 15.8 23.6

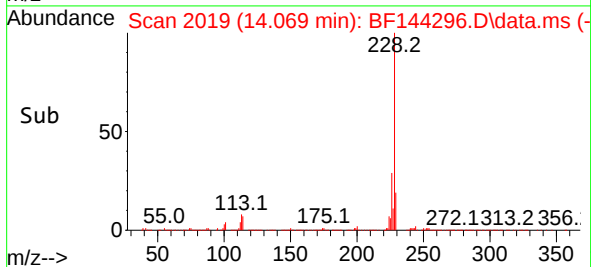
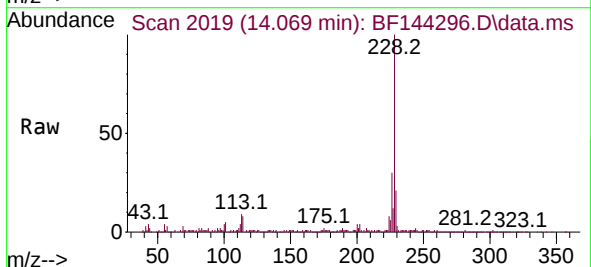
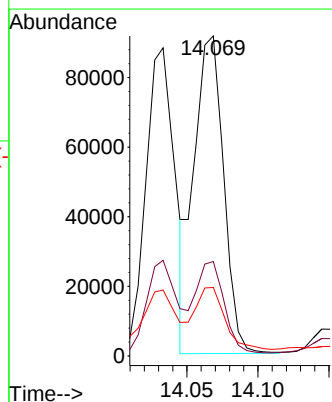
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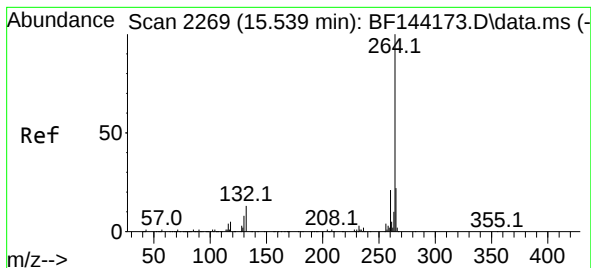
Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025



#83
Chrysene
Concen: 16.206 ng
RT: 14.069 min Scan# 2019
Delta R.T. -0.012 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

Tgt Ion:228 Resp: 132554
Ion Ratio Lower Upper
228 100
226 29.5 22.9 34.3
229 21.4 15.0 22.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.521 min Scan# 21

Delta R.T. -0.018 min

Lab File: BF144296.D

Acq: 20 Nov 2025 15:59

Instrument :

BNA_F

ClientSampleId :

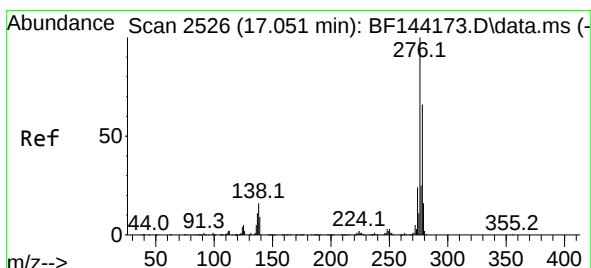
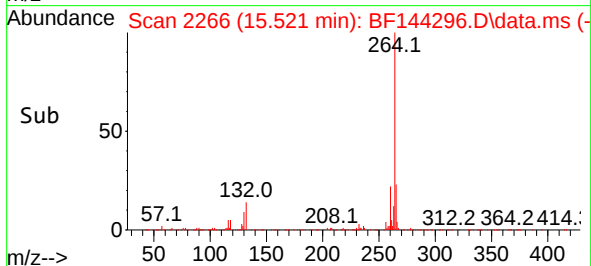
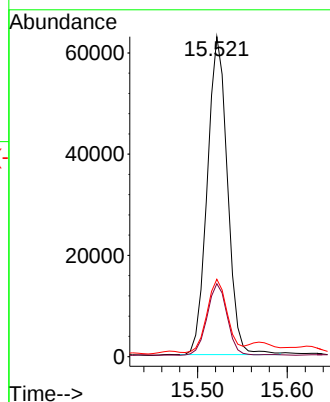
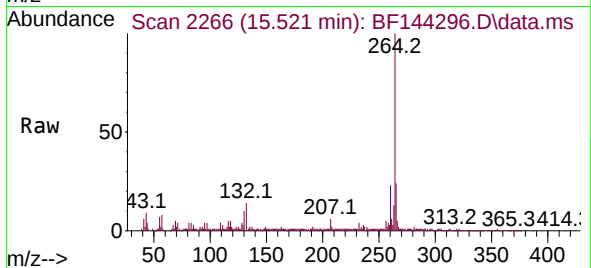
B1-0.0-1.0-20251117

Tgt Ion:	264	Resp:	98400
Ion Ratio	Lower	Upper	
264	100		
260	22.8	17.1	25.7
265	24.2	17.4	26.0

Manual Integrations

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Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025



#87

Indeno(1,2,3-cd)pyrene

Concen: 6.281 ng

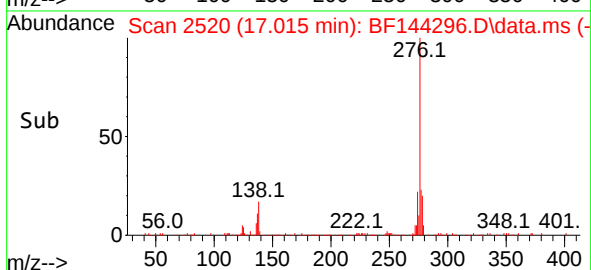
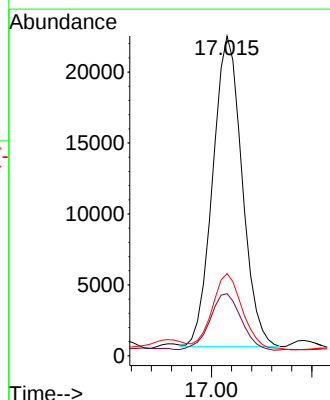
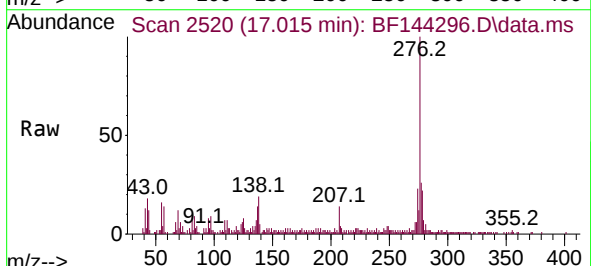
RT: 17.015 min Scan# 2520

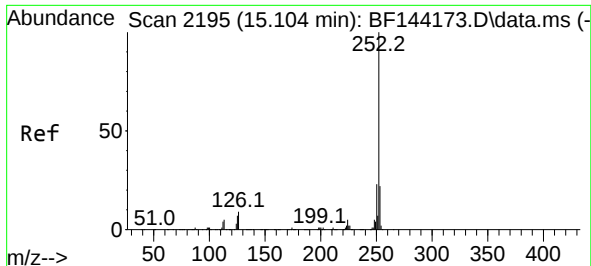
Delta R.T. -0.018 min

Lab File: BF144296.D

Acq: 20 Nov 2025 15:59

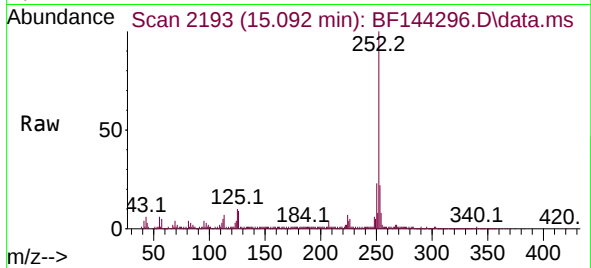
Tgt Ion:	276	Resp:	44368
Ion Ratio	Lower	Upper	
276	100		
138	19.5	13.9	20.9
277	25.5	19.8	29.6





#88
Benzo(b)fluoranthene
Concen: 22.236 ng m
RT: 15.092 min Scan# 2195
Delta R.T. -0.006 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

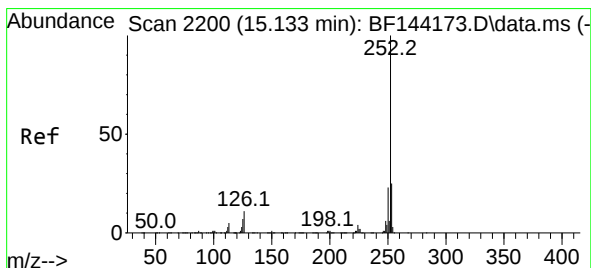
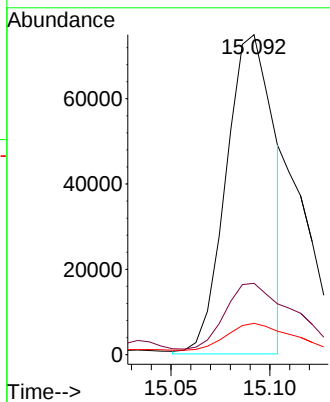
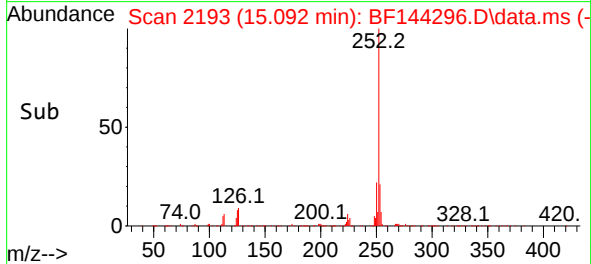
Instrument :
BNA_F
ClientSampleId :
B1-0.0-1.0-20251117



Tgt Ion:252 Resp: 124392
Ion Ratio Lower Upper
252 100
253 22.3 17.4 26.2
125 9.8 5.3 7.9

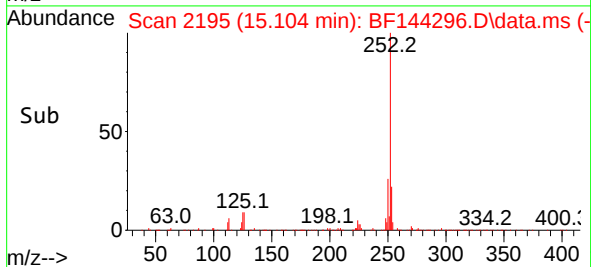
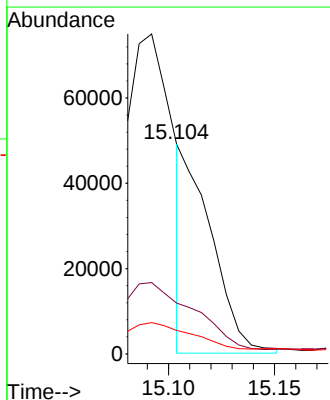
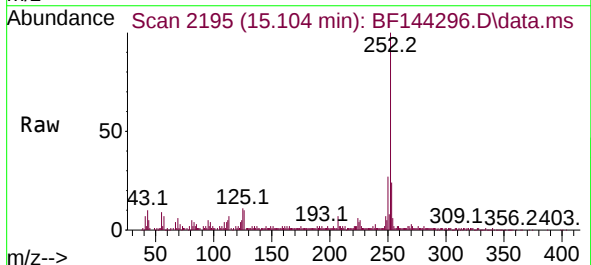
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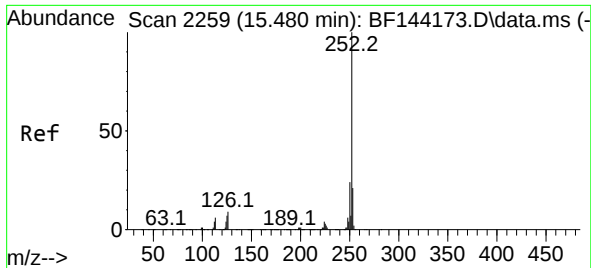
Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025



#89
Benzo(k)fluoranthene
Concen: 8.713 ng m
RT: 15.104 min Scan# 2195
Delta R.T. -0.024 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

Tgt Ion:252 Resp: 45623
Ion Ratio Lower Upper
252 100
253 24.3 18.0 27.0
125 11.2 5.4 8.2





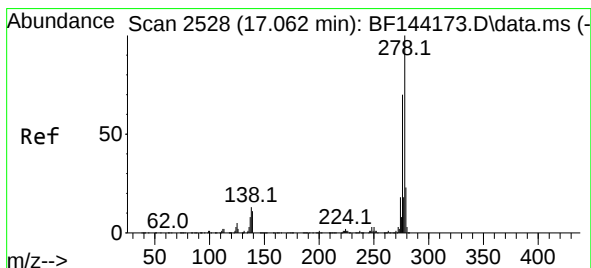
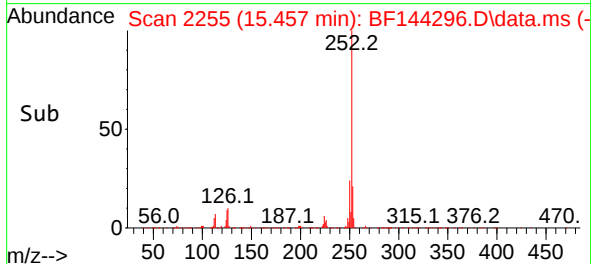
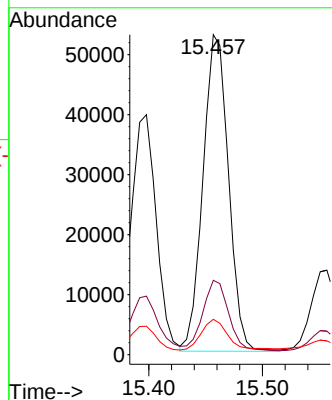
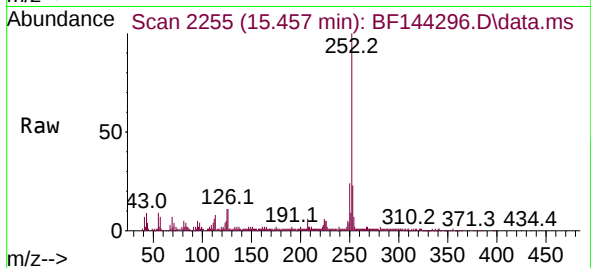
#90
Benzo(a)pyrene
Concen: 15.974 ng
RT: 15.457 min Scan# 2255
Delta R.T. -0.018 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

Instrument :
BNA_F
ClientSampleId :
B1-0.0-1.0-20251117

Tgt Ion:252 Resp: 82438
Ion Ratio Lower Upper
252 100
253 23.2 16.7 25.1
125 11.0 5.7 8.5

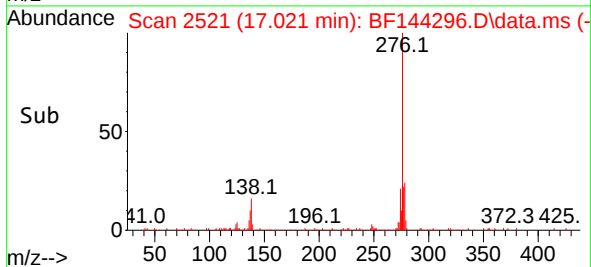
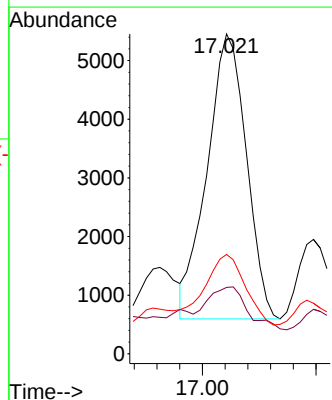
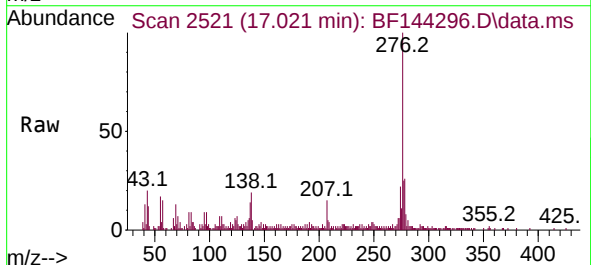
Manual Integrations
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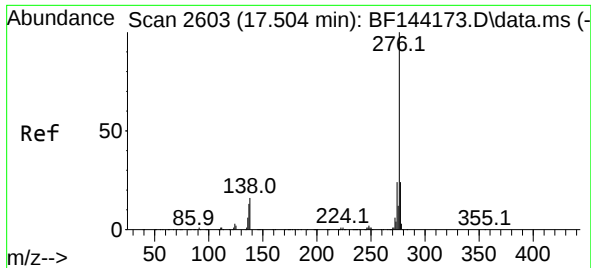
Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025



#91
Dibenzo(a,h)anthracene
Concen: 2.057 ng
RT: 17.021 min Scan# 2521
Delta R.T. -0.029 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

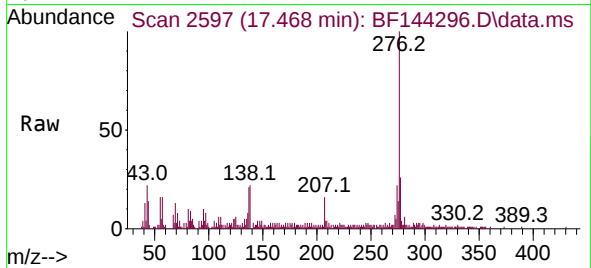
Tgt Ion:278 Resp: 11667
Ion Ratio Lower Upper
278 100
139 20.8 9.1 13.7#
279 31.1 18.2 27.4#





#92
Benzo(g,h,i)perylene
Concen: 8.160 ng
RT: 17.468 min Scan# 2597
Delta R.T. -0.024 min
Lab File: BF144296.D
Acq: 20 Nov 2025 15:59

Instrument :
BNA_F
ClientSampleId :
B1-0.0-1.0-20251117



Tgt Ion:	276	Resp:	45713
Ion Ratio	Lower	Upper	
276	100		
277	26.4	19.0	28.4
138	21.8	12.9	19.3

Manual Integrations
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Reviewed By :Jagrut Upadhyay 11/21/2025
Supervised By :mohammad ahmed 11/22/2025

