

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102425\
 Data File : BF144071.D
 Acq On : 24 Oct 2025 20:15
 Operator : RC/JU
 Sample : Q3412-01
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-6

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 10/27/2025
 Supervised By :Jagrut Upadhyay 10/27/2025

Quant Time: Oct 27 10:56:15 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF102425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 24 17:30:25 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	42114	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	147433	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	73123	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	125609	20.000	ng	0.00
76) Chrysene-d12	14.063	240	110481	20.000	ng	0.00
86) Perylene-d12	15.551	264	150663	20.000	ng	# 0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	126230	47.421	ng	0.00
7) Phenol-d6	6.498	99	140574	47.818	ng	0.00
23) Nitrobenzene-d5	7.434	82	81322	30.220	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	47758	51.273	ng	0.00
45) 2-Fluorobiphenyl	9.234	172	166277	31.999	ng	0.00
79) Terphenyl-d14	12.998	244	225045	35.610	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.181	128	18405	2.645	ng	99
37) 2-Methylnaphthalene	8.875	142	10221	2.228	ng	98
49) Acenaphthylene	9.781	152	13047	2.206	ng	100
52) Acenaphthene	9.951	154	52976	13.415	ng	92
55) Dibenzofuran	10.122	168	56685	10.340	ng	96
58) Fluorene	10.469	166	91550	21.917	ng	98
71) Phenanthrene	11.439	178	717117	114.928	ng	99
72) Anthracene	11.486	178	291921	45.289	ng	98
73) Carbazole	11.639	167	30599	5.577	ng	98
75) Fluoranthene	12.633	202	1322379	191.825	ng	99
78) Pyrene	12.863	202	1022994	128.795	ng	97
81) Benzo(a)anthracene	14.051	228	732736	98.138	ng	97
83) Chrysene	14.092	228	461545	65.875	ng	97
87) Indeno(1,2,3-cd)pyrene	17.057	276	340390	32.907	ng	97
88) Benzo(b)fluoranthene	15.121	252	733516m	86.119	ng	
89) Benzo(k)fluoranthene	15.133	252	259941m	33.078	ng	
90) Benzo(a)pyrene	15.492	252	517469	67.720	ng	95
91) Dibenzo(a,h)anthracene	17.057	278	86698m	10.589	ng	
92) Benzo(g,h,i)perylene	17.509	276	265599	32.264	ng	98

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

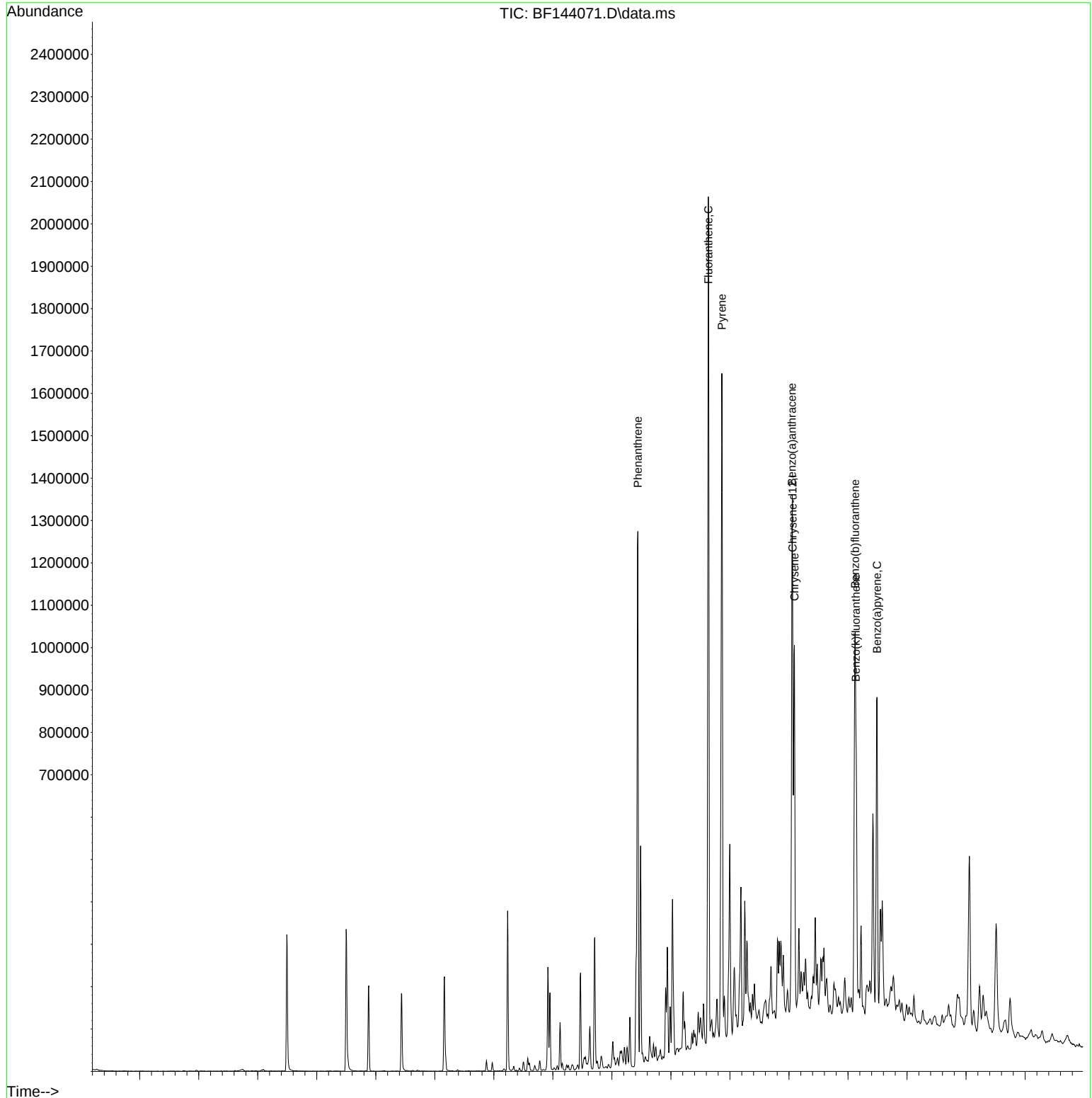
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102425\
Data File : BF144071.D
Acq On : 24 Oct 2025 20:15
Operator : RC/JU
Sample : Q3412-01
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ALS Vial : 17 Sample Multiplier: 1

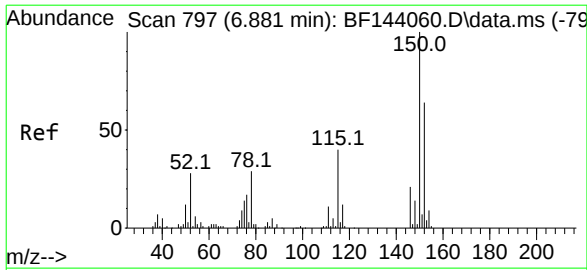
Instrument :
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Quant Time: Oct 27 10:56:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF102425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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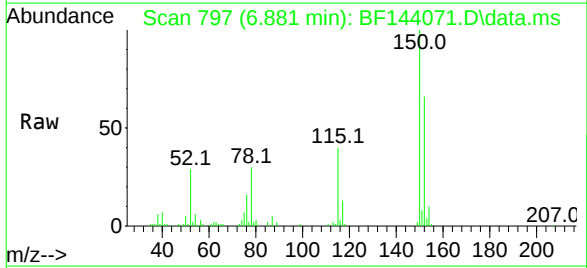
Reviewed By :Rahul Chavli 10/27/2025
Supervised By :Jagrut Upadhyay 10/27/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 797
Delta R.T. -0.000 min
Lab File: BF144071.D
Acq: 24 Oct 2025 20:15

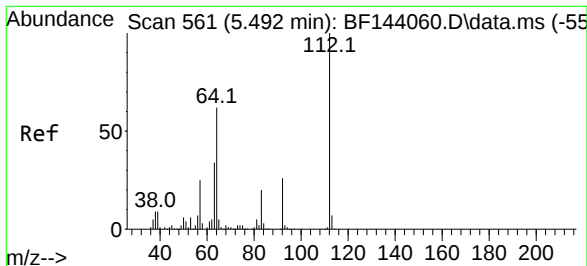
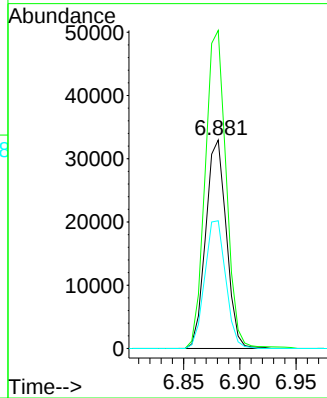
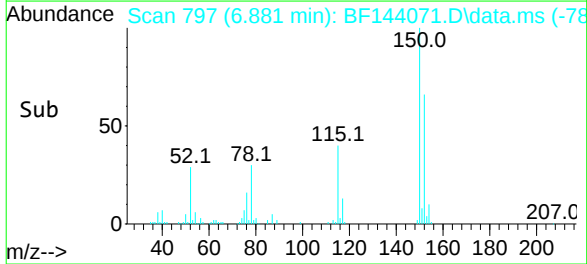
Instrument :
BNA_F
ClientSampleId :
TP-6



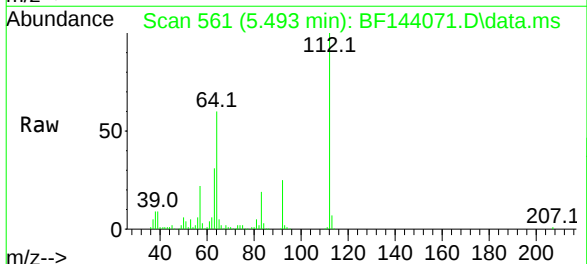
Tgt Ion:152 Resp: 42114
Ion Ratio Lower Upper
152 100
150 152.5 124.4 186.6
115 61.3 49.4 74.0

Manual Integrations
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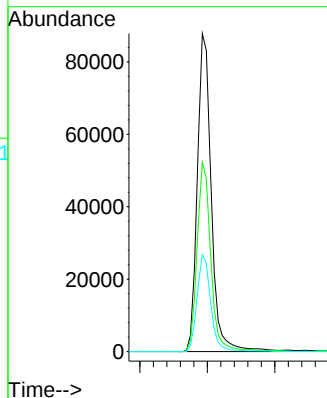
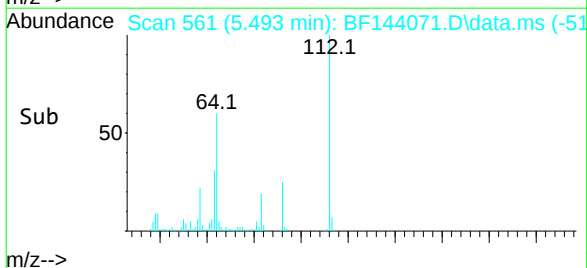
Reviewed By :Rahul Chavli 10/27/2025
Supervised By :Jagrut Upadhyay 10/27/2025

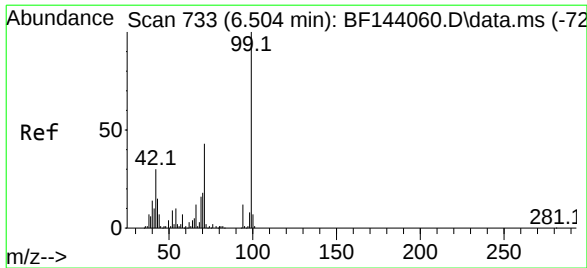


#5
2-Fluorophenol
Concen: 47.421 ng
RT: 5.493 min Scan# 561
Delta R.T. 0.000 min
Lab File: BF144071.D
Acq: 24 Oct 2025 20:15



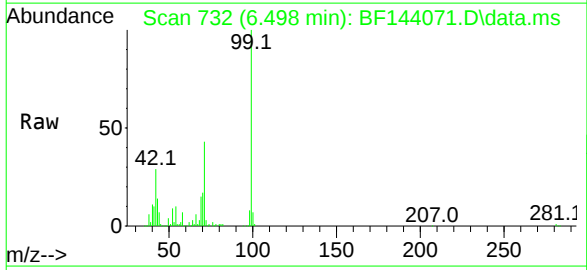
Tgt Ion:112 Resp: 126230
Ion Ratio Lower Upper
112 100
64 59.6 49.8 74.8
63 30.5 27.4 41.2





#7
Phenol-d6
Concen: 47.818 ng
RT: 6.498 min Scan# 733
Delta R.T. -0.006 min
Lab File: BF144071.D
Acq: 24 Oct 2025 20:15

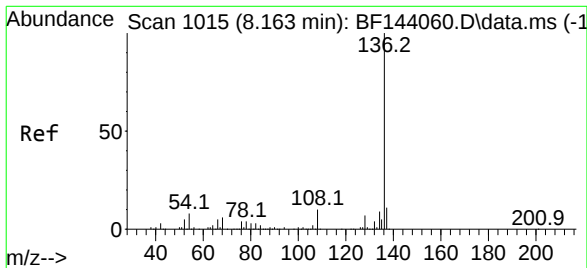
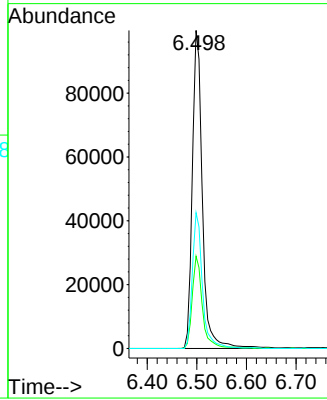
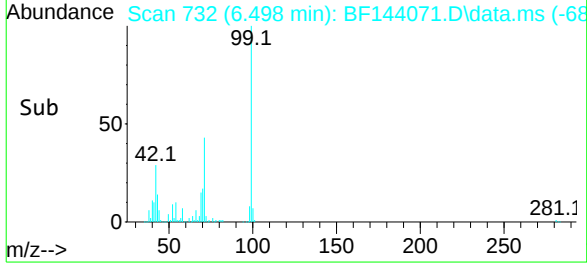
Instrument :
BNA_F
ClientSampleId :
TP-6



Tgt Ion: 99 Resp: 140574
Ion Ratio Lower Upper
99 100
42 29.0 23.9 35.9
71 42.7 34.4 51.6

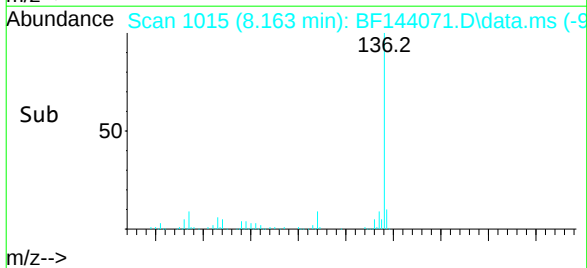
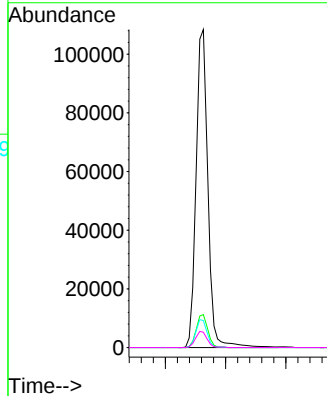
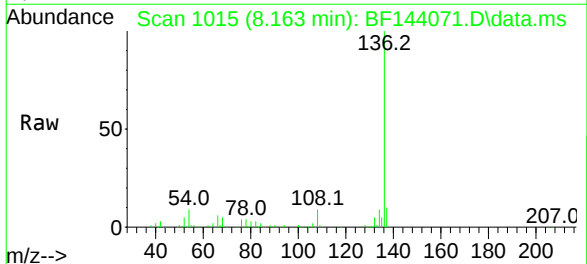
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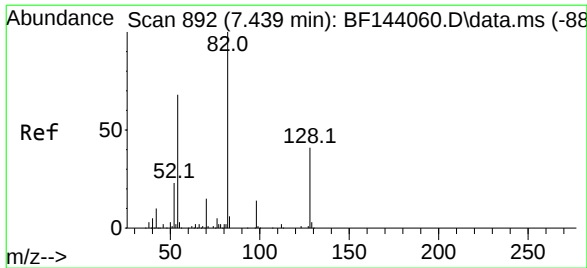
Reviewed By :Rahul Chavli 10/27/2025
Supervised By :Jagrut Upadhyay 10/27/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. 0.000 min
Lab File: BF144071.D
Acq: 24 Oct 2025 20:15

Tgt Ion:136 Resp: 147433
Ion Ratio Lower Upper
136 100
137 10.4 8.6 13.0
54 8.5 6.6 9.8
68 4.8 4.6 6.8





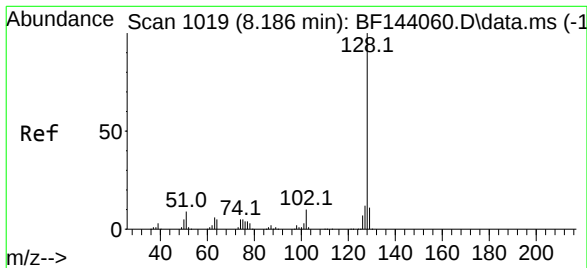
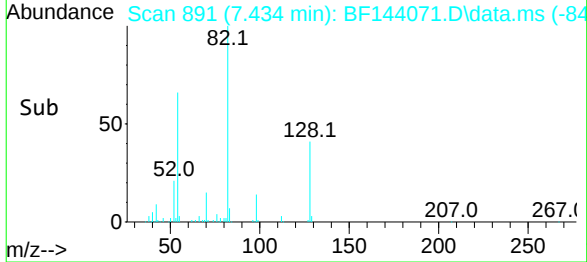
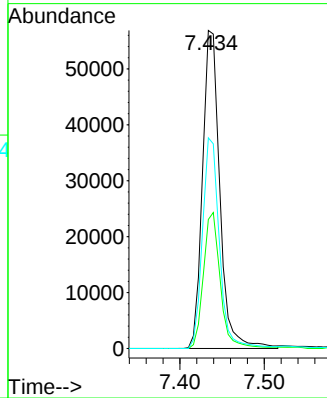
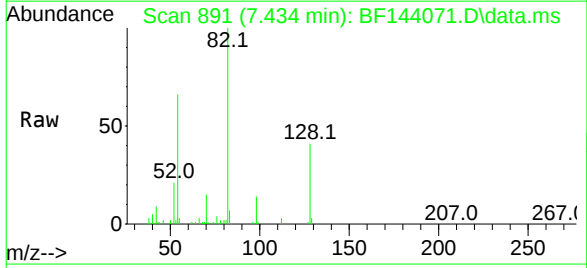
#23
Nitrobenzene-d5
Concen: 30.220 ng
RT: 7.434 min Scan# 891
Delta R.T. -0.006 min
Lab File: BF144071.D
Acq: 24 Oct 2025 20:15

Instrument :
BNA_F
ClientSampleId :
TP-6

Tgt Ion	Ratio	Lower	Upper
82	100		
128	40.6	32.4	48.6
54	66.2	54.0	81.0

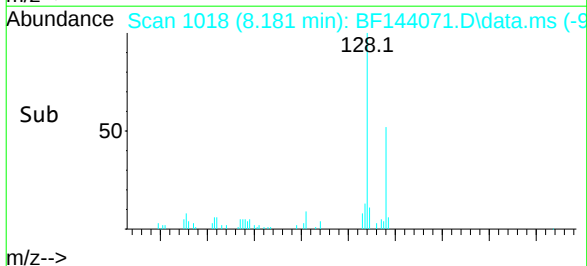
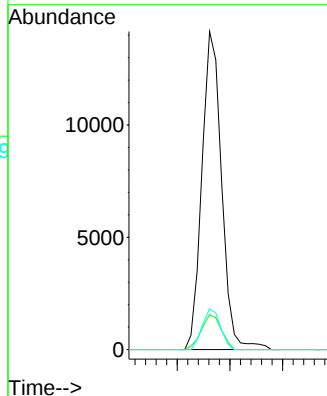
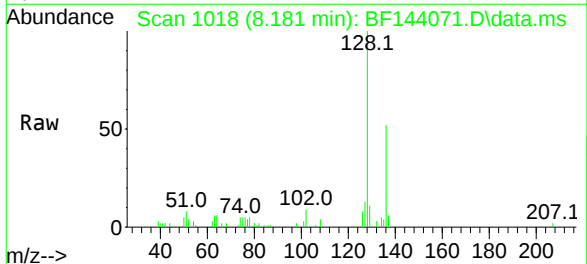
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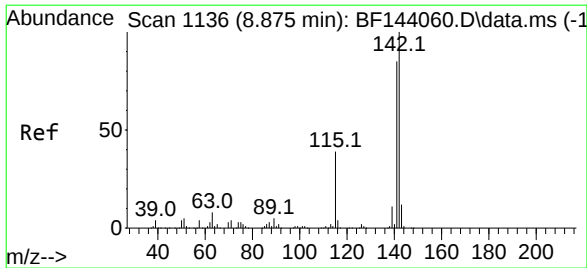
Reviewed By :Rahul Chavli 10/27/2025
Supervised By :Jagrut Upadhyay 10/27/2025



#31
Naphthalene
Concen: 2.645 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF144071.D
Acq: 24 Oct 2025 20:15

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.4	12.6
127	12.9	9.9	14.9





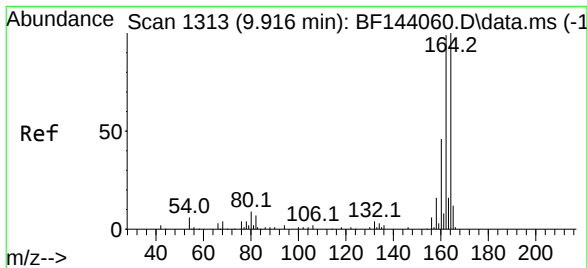
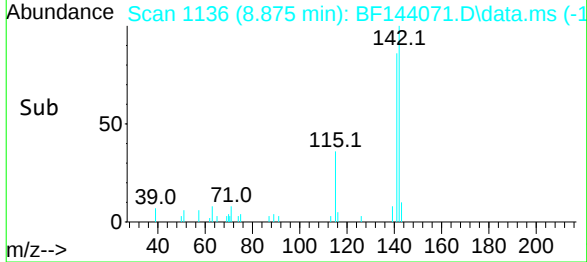
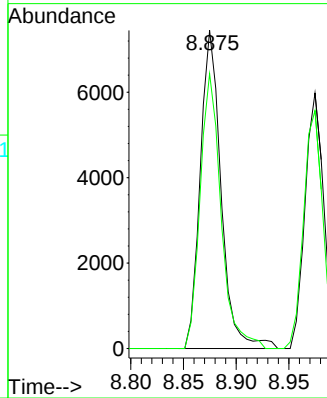
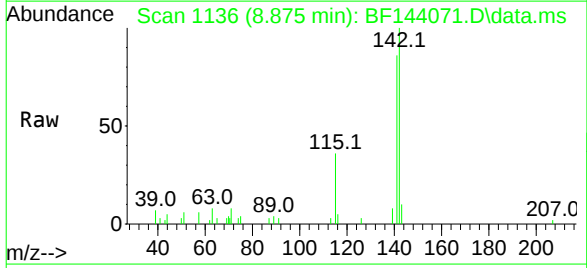
#37
2-Methylnaphthalene
Concen: 2.228 ng
RT: 8.875 min Scan# 1136
Delta R.T. 0.000 min
Lab File: BF144071.D
Acq: 24 Oct 2025 20:15

Instrument :
BNA_F
ClientSampleId :
TP-6

Tgt Ion:142 Resp: 10221
Ion Ratio Lower Upper
142 100
141 86.4 67.6 101.4

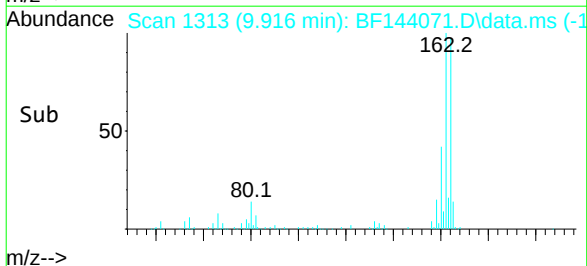
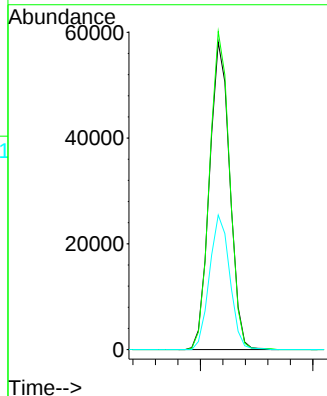
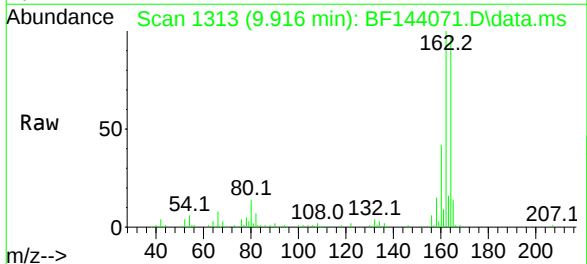
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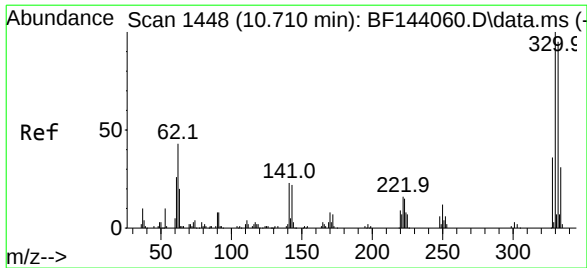
Reviewed By :Rahul Chavli 10/27/2025
Supervised By :Jagrut Upadhyay 10/27/2025



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1313
Delta R.T. 0.000 min
Lab File: BF144071.D
Acq: 24 Oct 2025 20:15

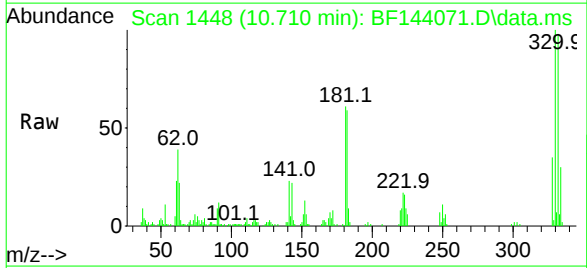
Tgt Ion:164 Resp: 73123
Ion Ratio Lower Upper
164 100
162 103.5 79.4 119.2
160 43.8 36.7 55.1





#42
2,4,6-Tribromophenol
Concen: 51.273 ng
RT: 10.710 min Scan# 1448
Delta R.T. 0.000 min
Lab File: BF144071.D
Acq: 24 Oct 2025 20:15

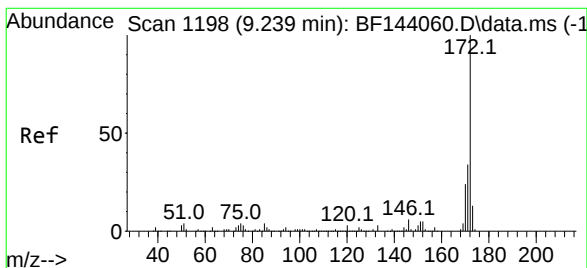
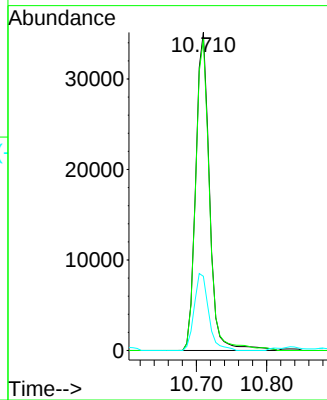
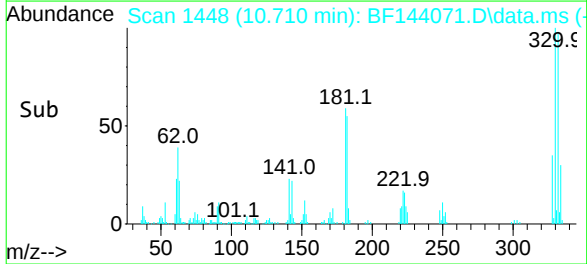
Instrument :
BNA_F
ClientSampleId :
TP-6



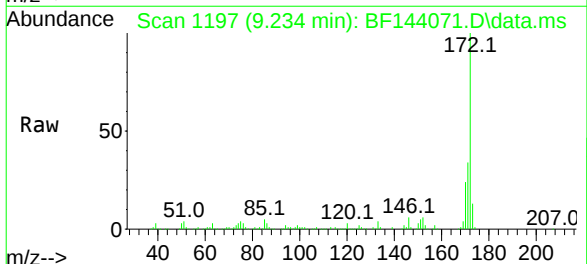
Tgt Ion: 330 Resp: 47758
Ion Ratio Lower Upper
330 100
332 98.7 77.0 115.6
141 25.4 19.4 29.0

Manual Integrations
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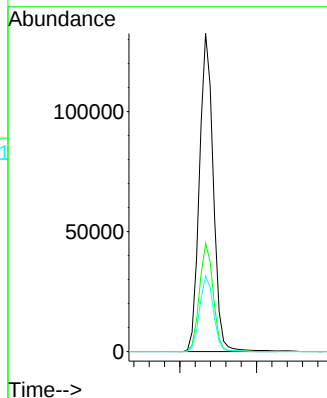
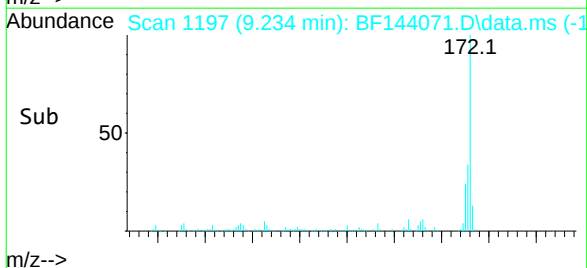
Reviewed By :Rahul Chavli 10/27/2025
Supervised By :Jagrut Upadhyay 10/27/2025

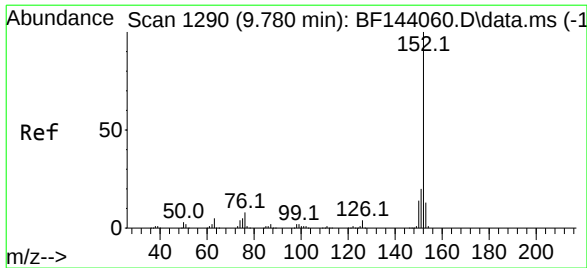


#45
2-Fluorobiphenyl
Concen: 31.999 ng
RT: 9.234 min Scan# 1197
Delta R.T. -0.006 min
Lab File: BF144071.D
Acq: 24 Oct 2025 20:15



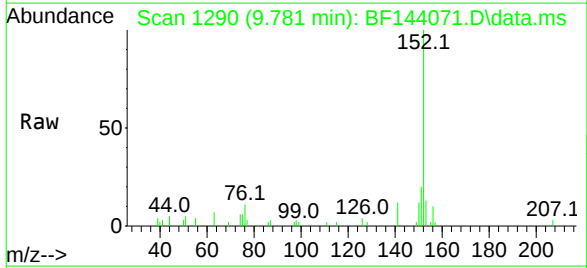
Tgt Ion: 172 Resp: 166277
Ion Ratio Lower Upper
172 100
171 34.0 27.5 41.3
170 23.8 19.0 28.6





#49
Acenaphthylene
Concen: 2.206 ng
RT: 9.781 min Scan# 1290
Delta R.T. 0.000 min
Lab File: BF144071.D
Acq: 24 Oct 2025 20:15

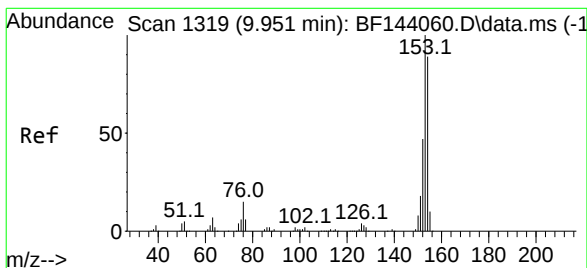
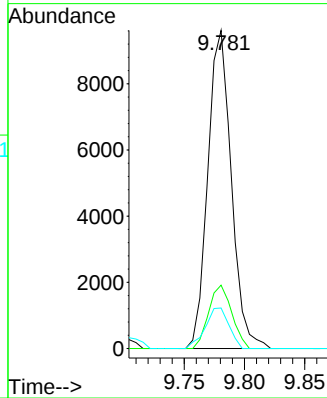
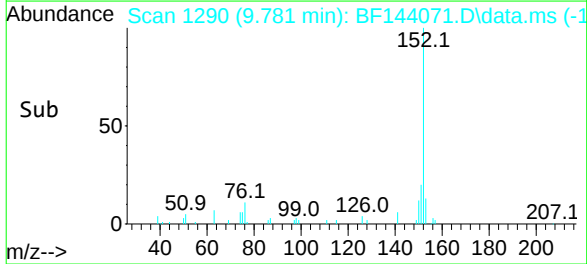
Instrument :
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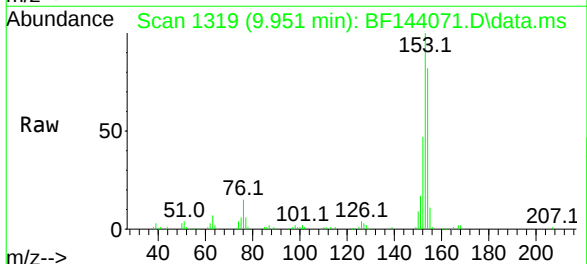
Tgt Ion:	152	Resp:	13047
Ion Ratio	Lower	Upper	
152	100		
151	19.9	15.9	23.9
153	12.7	10.4	15.6

Manual Integrations
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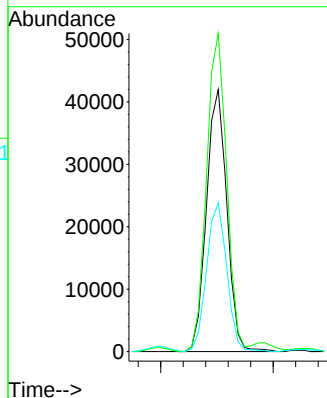
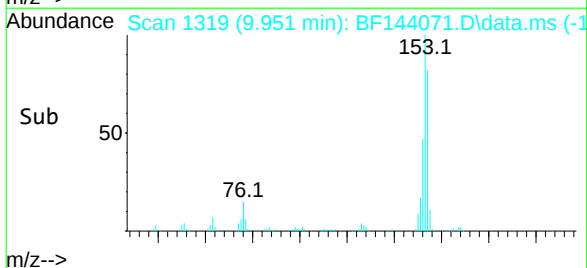
Reviewed By :Rahul Chavli 10/27/2025
Supervised By :Jagrut Upadhyay 10/27/2025

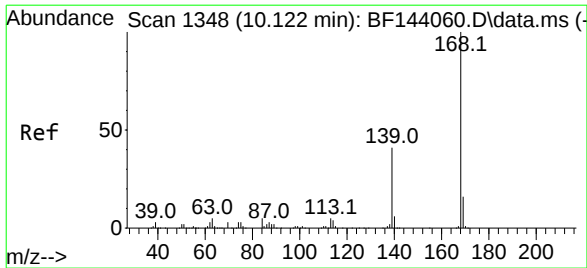


#52
Acenaphthene
Concen: 13.415 ng
RT: 9.951 min Scan# 1319
Delta R.T. 0.000 min
Lab File: BF144071.D
Acq: 24 Oct 2025 20:15



Tgt Ion:	154	Resp:	52976
Ion Ratio	Lower	Upper	
154	100		
153	121.4	89.9	134.9
152	56.6	42.0	63.0





#55

Dibenzenofuran

Concen: 10.340 ng

RT: 10.122 min Scan# 1348

Delta R.T. 0.000 min

Lab File: BF144071.D

Acq: 24 Oct 2025 20:15

Instrument :

BNA_F

ClientSampleId :

TP-6

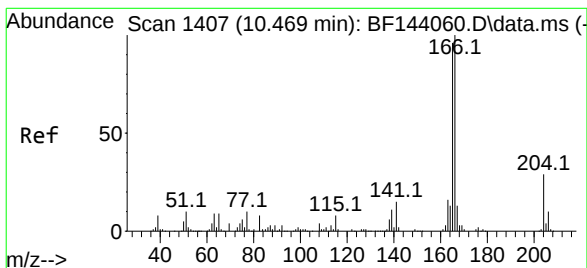
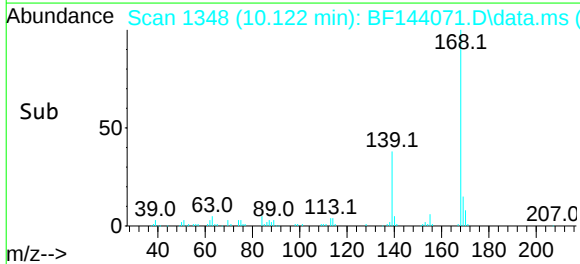
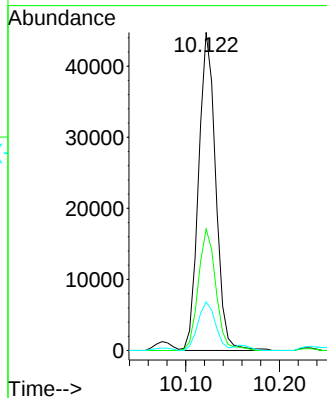
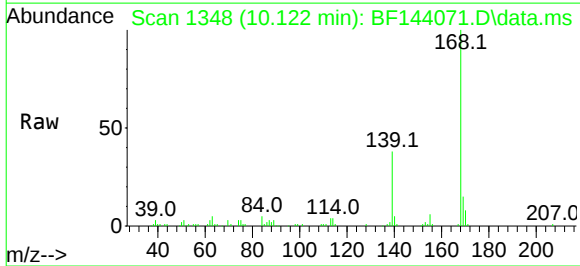
Tgt Ion:	168	Resp:	56685
Ion Ratio	Lower	Upper	
168	100		
139	38.2	33.2	49.8
169	15.3	12.6	19.0

Manual Integrations

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#58

Fluorene

Concen: 21.917 ng

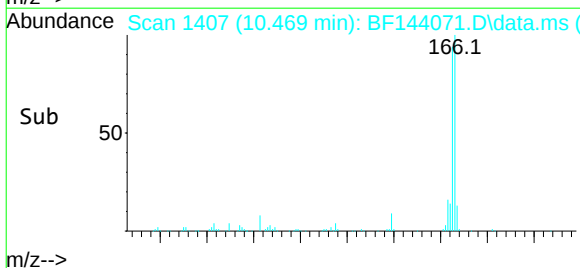
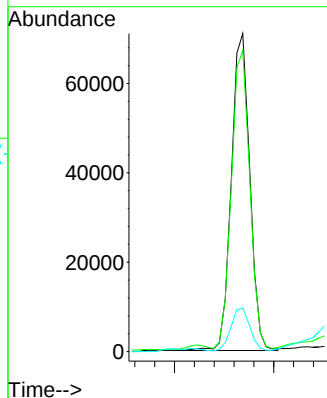
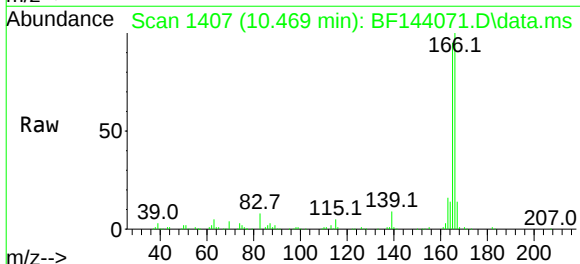
RT: 10.469 min Scan# 1407

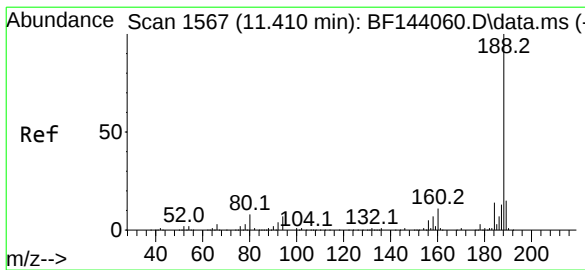
Delta R.T. 0.000 min

Lab File: BF144071.D

Acq: 24 Oct 2025 20:15

Tgt Ion:	166	Resp:	91550
Ion Ratio	Lower	Upper	
166	100		
165	94.7	77.0	115.4
167	13.7	10.2	15.4





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.410 min Scan# 1567

Delta R.T. 0.000 min

Lab File: BF144071.D

Acq: 24 Oct 2025 20:15

Instrument :

BNA_F

ClientSampleId :

TP-6

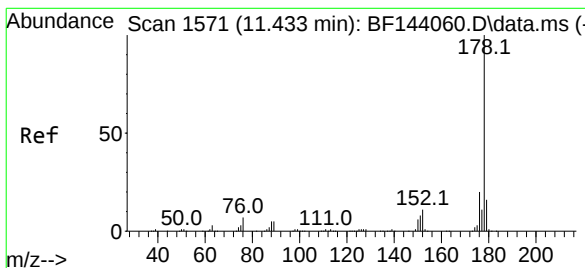
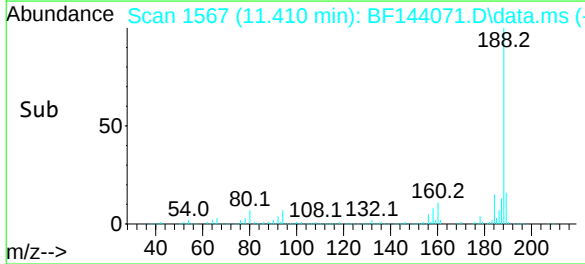
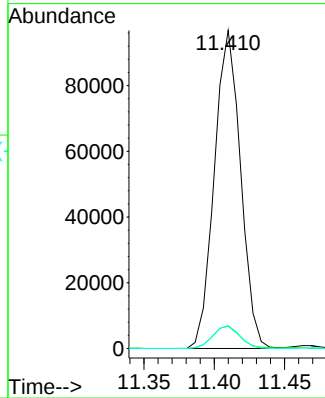
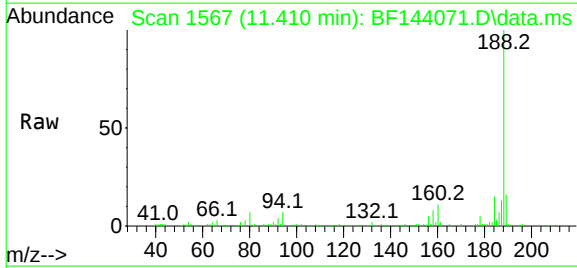
Tgt Ion:	188	Resp:	125609
Ion Ratio	Lower	Upper	
188	100		
94	7.0	5.4	8.0
80	7.2	6.0	9.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 10/27/2025

Supervised By :Jagrut Upadhyay 10/27/2025



#71

Phenanthrene

Concen: 114.928 ng

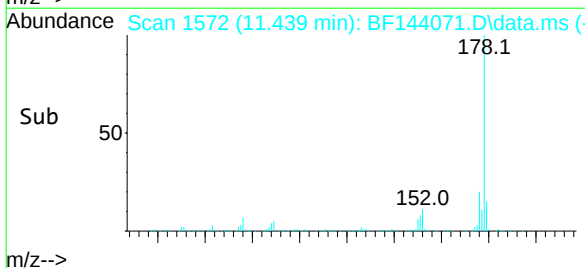
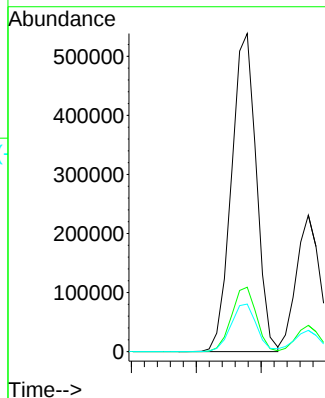
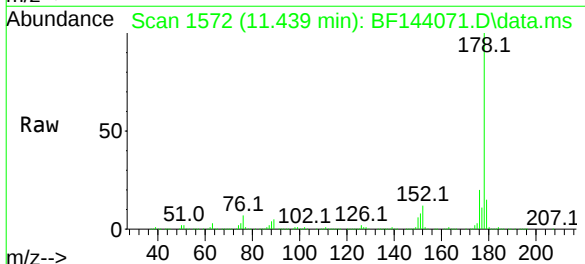
RT: 11.439 min Scan# 1572

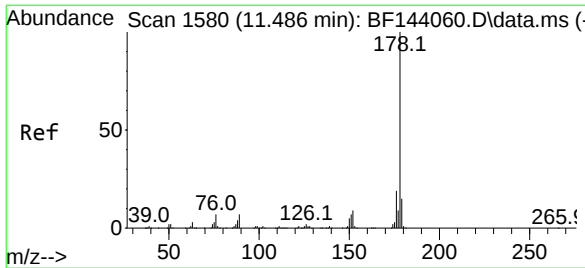
Delta R.T. 0.006 min

Lab File: BF144071.D

Acq: 24 Oct 2025 20:15

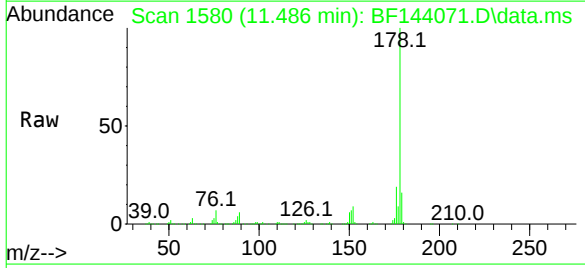
Tgt Ion:	178	Resp:	717117
Ion Ratio	Lower	Upper	
178	100		
176	20.2	16.3	24.5
179	15.0	12.6	18.8





#72
 Anthracene
 Concen: 45.289 ng
 RT: 11.486 min Scan# 1580
 Delta R.T. 0.000 min
 Lab File: BF144071.D
 Acq: 24 Oct 2025 20:15

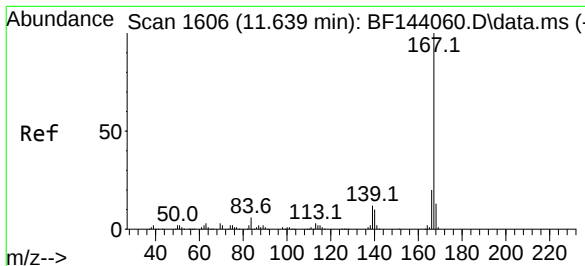
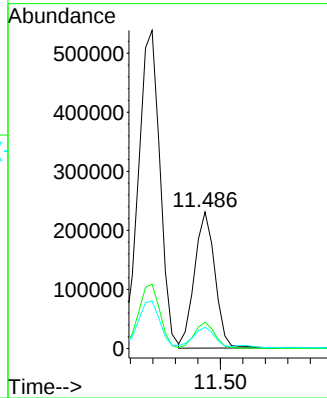
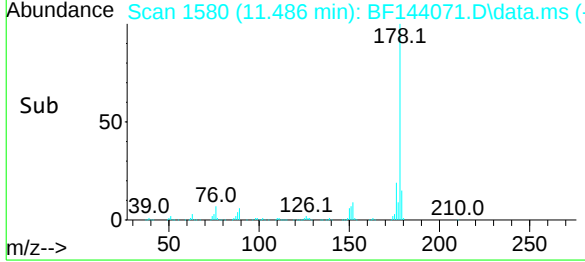
Instrument :
 BNA_F
 ClientSampleId :
 TP-6



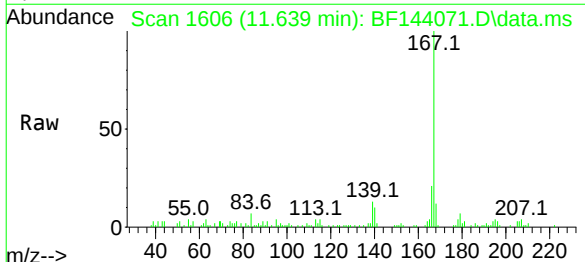
Tgt Ion:	178	Resp:	291921
Ion Ratio	Lower	Upper	
178	100		
176	19.2	15.0	22.4
179	15.6	11.8	17.6

Manual Integrations
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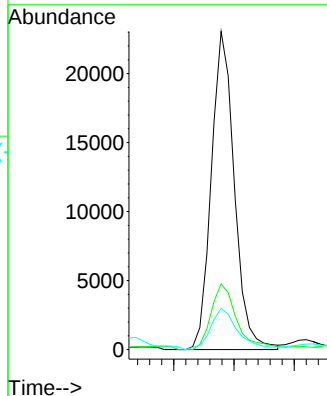
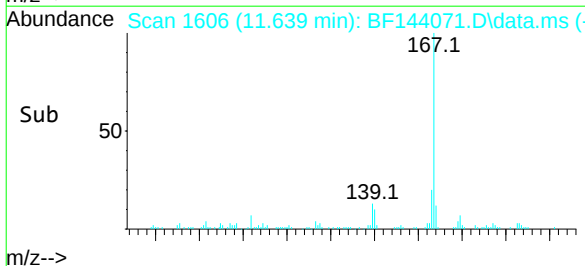
Reviewed By :Rahul Chavli 10/27/2025
 Supervised By :Jagrut Upadhyay 10/27/2025

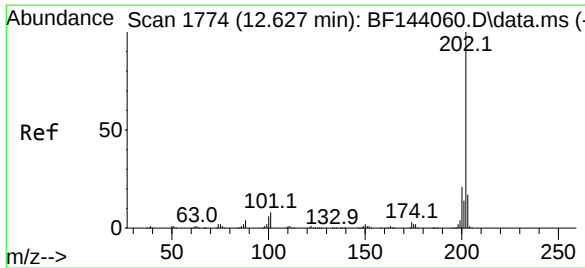


#73
 Carbazole
 Concen: 5.577 ng
 RT: 11.639 min Scan# 1606
 Delta R.T. 0.000 min
 Lab File: BF144071.D
 Acq: 24 Oct 2025 20:15



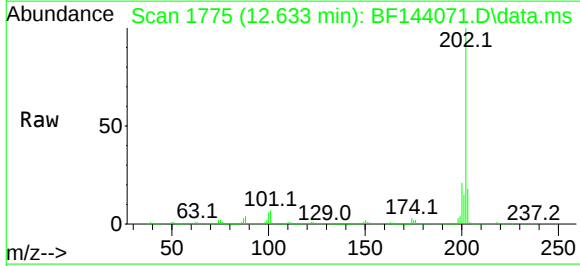
Tgt Ion:	167	Resp:	30599
Ion Ratio	Lower	Upper	
167	100		
166	20.7	16.1	24.1
139	12.9	9.8	14.6





#75
Fluoranthene
Concen: 191.825 ng
RT: 12.633 min Scan# 1775
Delta R.T. 0.006 min
Lab File: BF144071.D
Acq: 24 Oct 2025 20:15

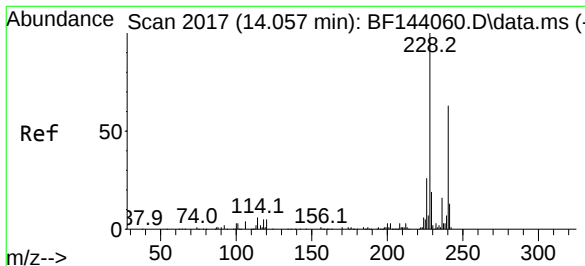
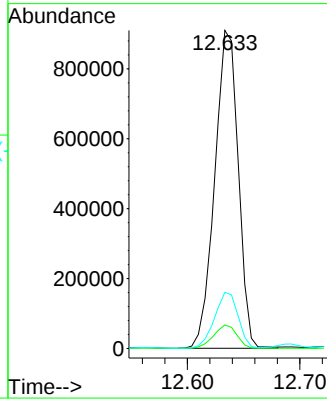
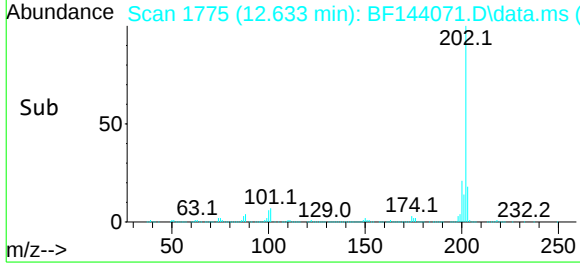
Instrument :
BNA_F
ClientSampleId :
TP-6



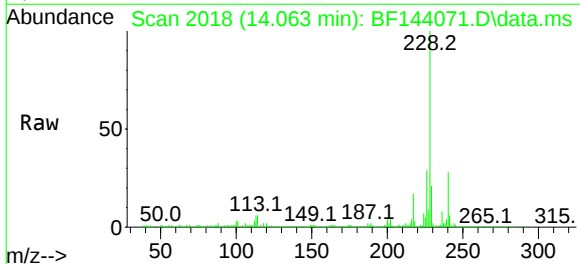
Tgt Ion:202 Resp: 1322379
Ion Ratio Lower Upper
202 100
101 7.4 0.0 27.7
203 17.7 0.0 37.3

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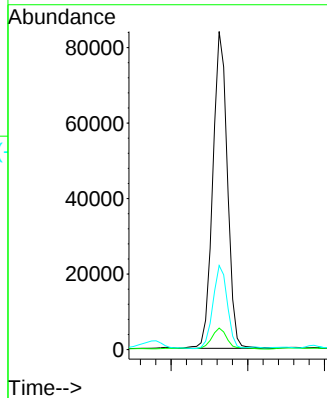
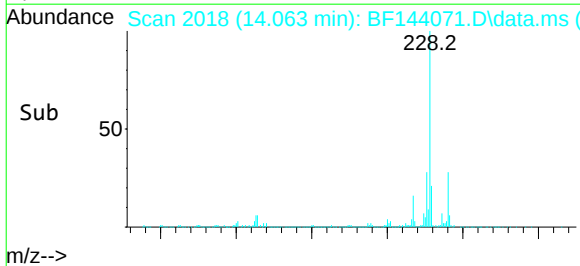
Reviewed By :Rahul Chavli 10/27/2025
Supervised By :Jagrut Upadhyay 10/27/2025

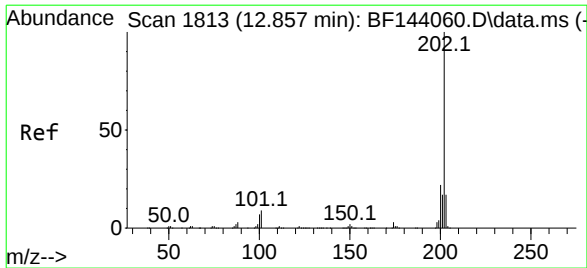


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. 0.006 min
Lab File: BF144071.D
Acq: 24 Oct 2025 20:15



Tgt Ion:240 Resp: 110481
Ion Ratio Lower Upper
240 100
120 6.8 6.5 9.7
236 26.4 20.1 30.1





#78

Pyrene

Concen: 128.795 ng

RT: 12.863 min Scan# 1813

Delta R.T. 0.006 min

Lab File: BF144071.D

Acq: 24 Oct 2025 20:15

Instrument :

BNA_F

ClientSampleId :

TP-6

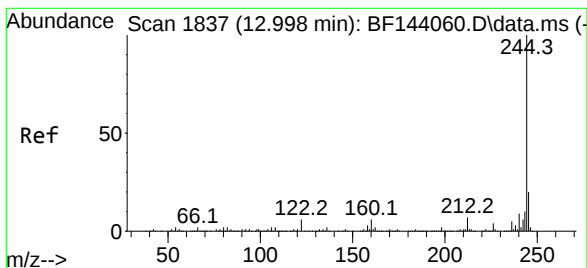
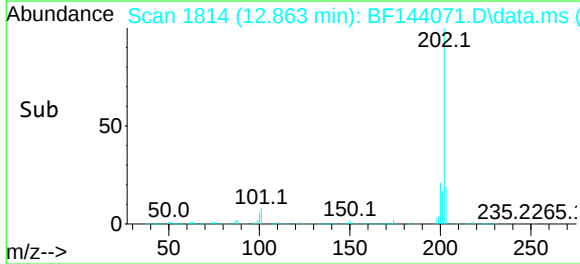
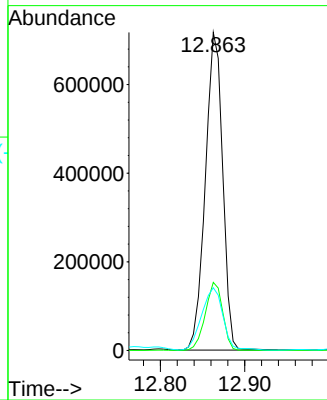
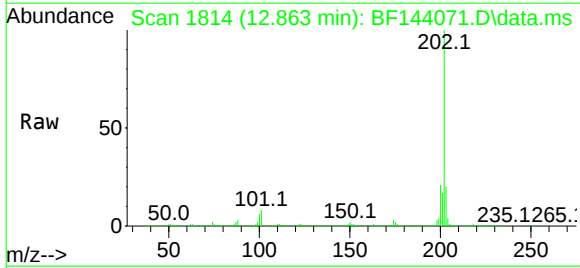
Tgt Ion:	202	Resp:	1022994
Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.2	25.8
203	19.7	13.5	20.3

Manual Integrations

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Reviewed By :Rahul Chavli 10/27/2025

Supervised By :Jagrut Upadhyay 10/27/2025



#79

Terphenyl-d14

Concen: 35.610 ng

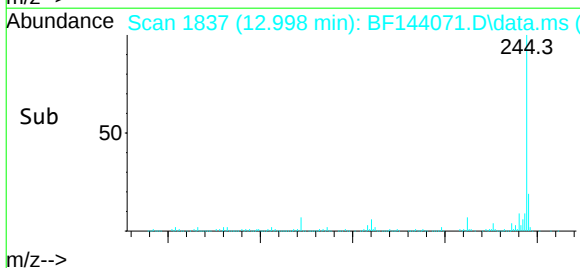
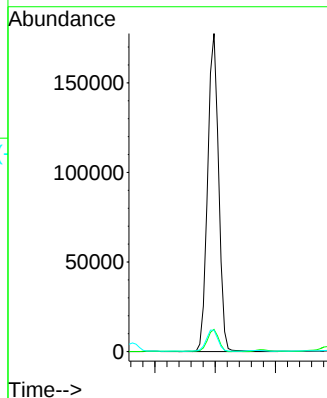
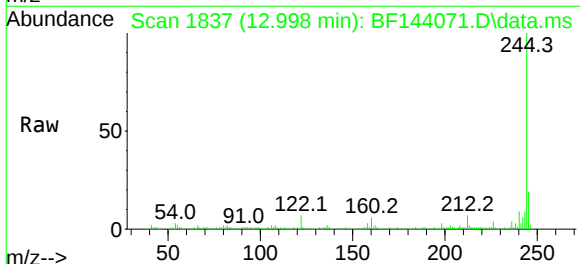
RT: 12.998 min Scan# 1837

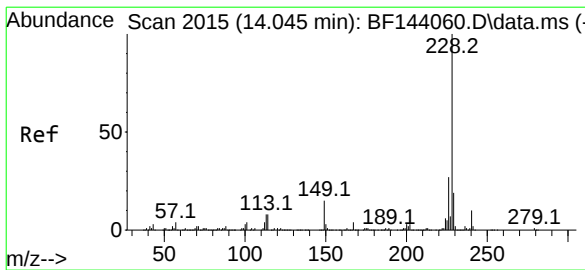
Delta R.T. 0.000 min

Lab File: BF144071.D

Acq: 24 Oct 2025 20:15

Tgt Ion:	244	Resp:	225045
Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.8	8.6
122	6.7	4.9	7.3





#81

Benzo(a)anthracene

Concen: 98.138 ng

RT: 14.051 min Scan# 20

Delta R.T. 0.006 min

Lab File: BF144071.D

Acq: 24 Oct 2025 20:15

Instrument :

BNA_F

ClientSampleId :

TP-6

Tgt Ion:228 Resp: 732736

Ion Ratio Lower Upper

228 100

226 27.8 21.4 32.2

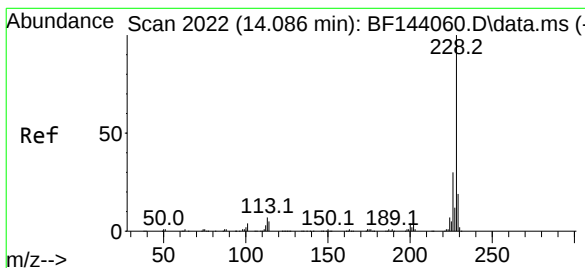
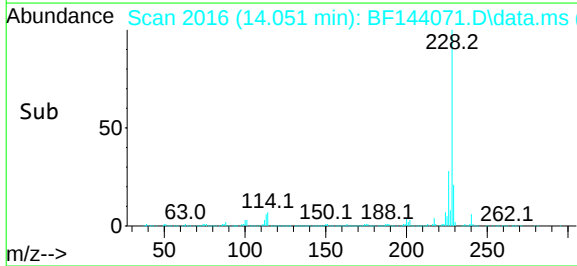
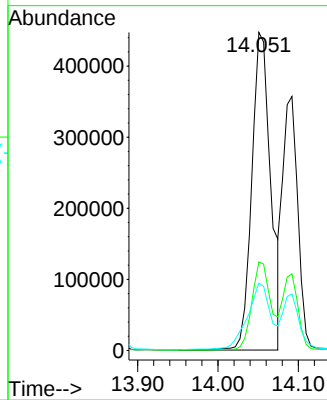
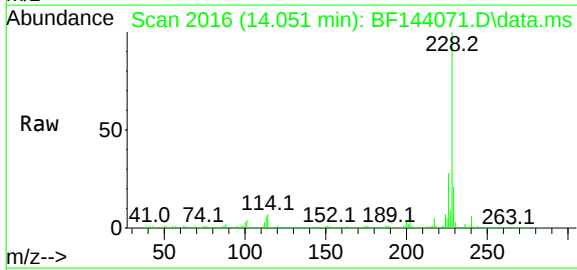
229 21.2 15.3 22.9

Manual Integrations

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Reviewed By :Rahul Chavli 10/27/2025

Supervised By :Jagrut Upadhyay 10/27/2025



#83

Chrysene

Concen: 65.875 ng

RT: 14.092 min Scan# 2023

Delta R.T. 0.006 min

Lab File: BF144071.D

Acq: 24 Oct 2025 20:15

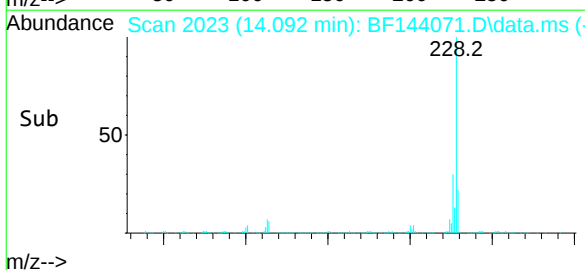
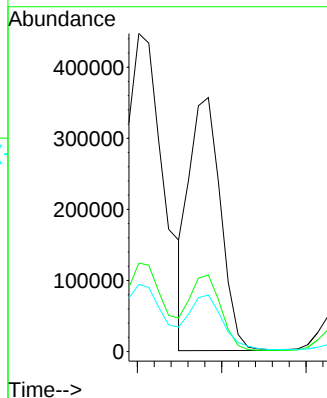
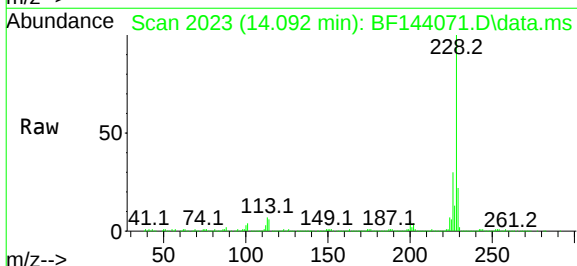
Tgt Ion:228 Resp: 461545

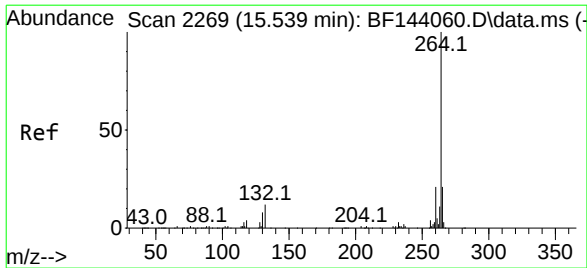
Ion Ratio Lower Upper

228 100

226 30.2 23.8 35.6

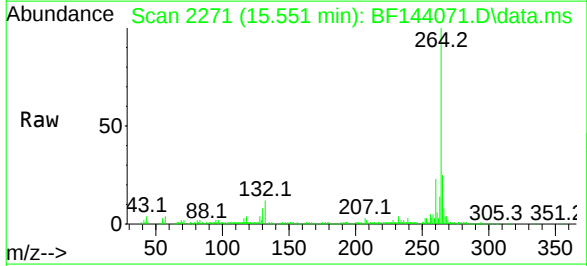
229 22.3 15.6 23.4





#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.551 min Scan# 2269
 Delta R.T. 0.012 min
 Lab File: BF144071.D
 Acq: 24 Oct 2025 20:15

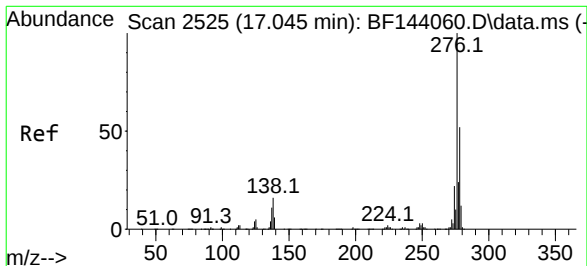
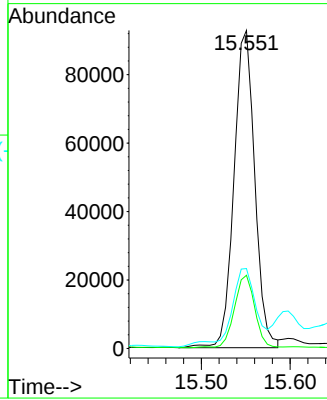
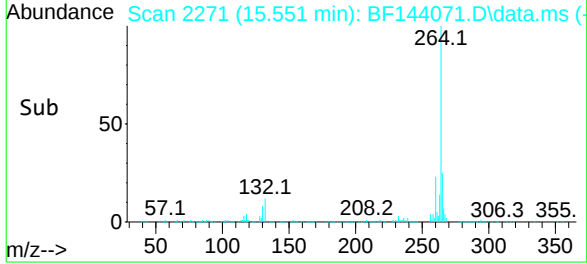
Instrument :
 BNA_F
 ClientSampleId :
 TP-6



Tgt Ion:264 Resp: 150663
 Ion Ratio Lower Upper
 264 100
 260 23.0 17.0 25.4
 265 25.1 16.6 24.8#

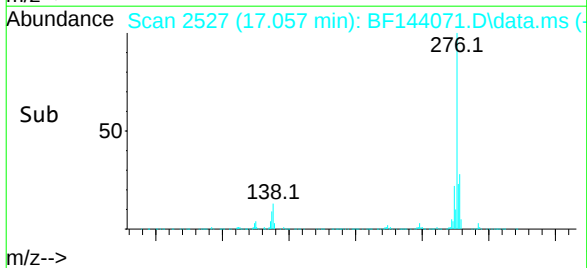
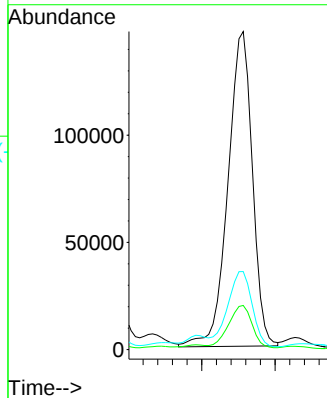
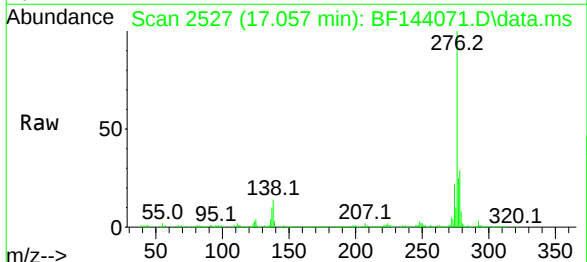
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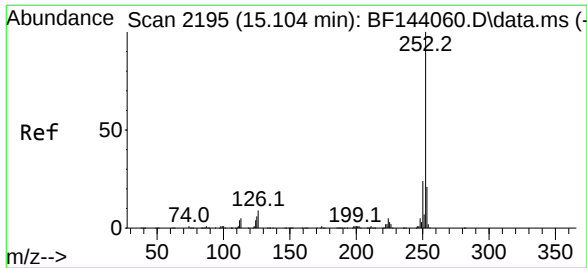
Reviewed By :Rahul Chavli 10/27/2025
 Supervised By :Jagrut Upadhyay 10/27/2025



#87
 Indeno(1,2,3-cd)pyrene
 Concen: 32.907 ng
 RT: 17.057 min Scan# 2527
 Delta R.T. 0.012 min
 Lab File: BF144071.D
 Acq: 24 Oct 2025 20:15

Tgt Ion:276 Resp: 340390
 Ion Ratio Lower Upper
 276 100
 138 13.1 13.0 19.6
 277 23.9 19.4 29.0





#88

Benzo(b)fluoranthene

Concen: 86.119 ng m

RT: 15.121 min Scan# 2198

Delta R.T. 0.018 min

Lab File: BF144071.D

Acq: 24 Oct 2025 20:15

Instrument :

BNA_F

ClientSampleId :

TP-6

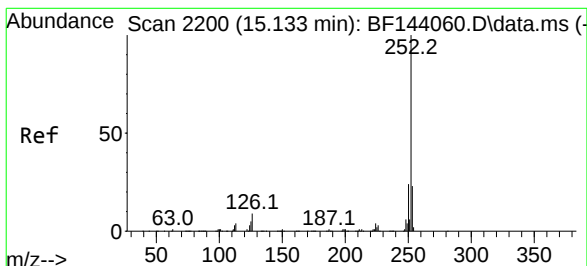
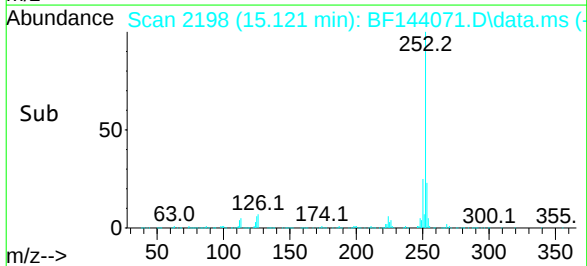
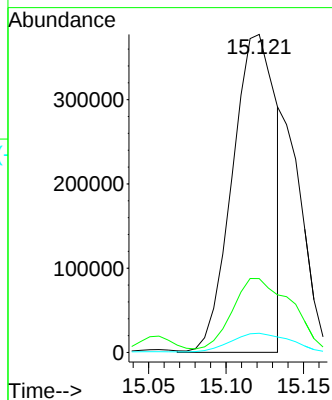
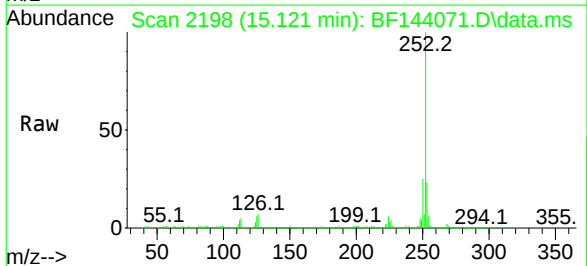
Tgt Ion:252 Resp: 733516
 Ion Ratio Lower Upper
 252 100
 253 23.2 17.2 25.8
 125 6.0 5.0 7.6

Manual Integrations

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Reviewed By :Rahul Chavli 10/27/2025

Supervised By :Jagrut Upadhyay 10/27/2025



#89

Benzo(k)fluoranthene

Concen: 33.078 ng m

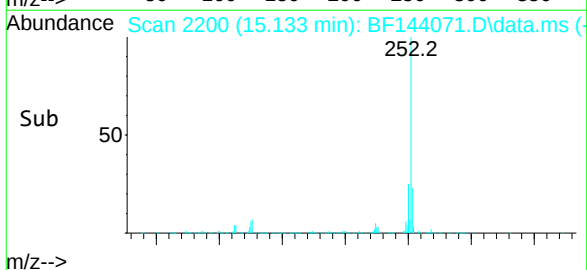
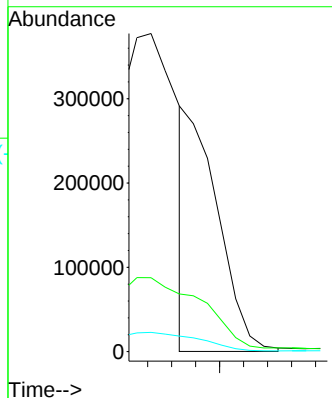
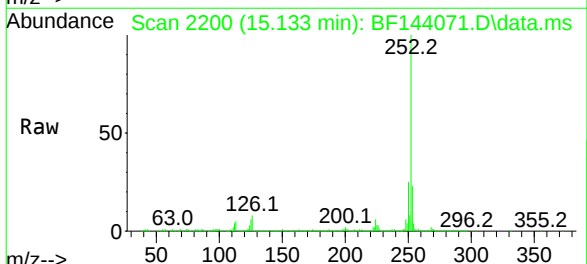
RT: 15.133 min Scan# 2200

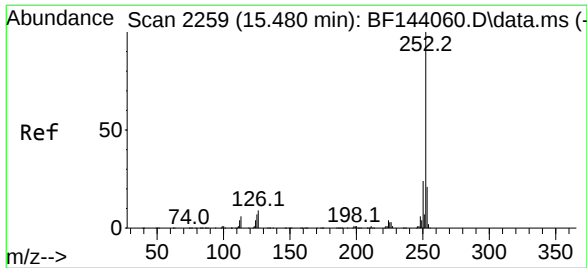
Delta R.T. 0.000 min

Lab File: BF144071.D

Acq: 24 Oct 2025 20:15

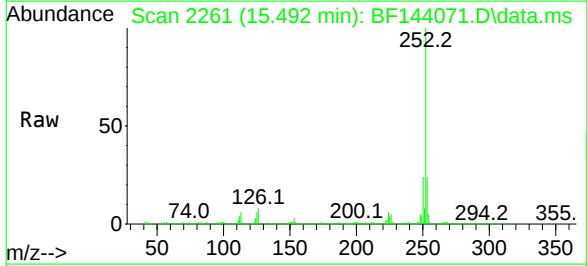
Tgt Ion:252 Resp: 259941
 Ion Ratio Lower Upper
 252 100
 253 23.5 17.4 26.2
 125 6.3 4.9 7.3





#90
Benzo(a)pyrene
Concen: 67.720 ng
RT: 15.492 min Scan# 2259
Delta R.T. 0.012 min
Lab File: BF144071.D
Acq: 24 Oct 2025 20:15

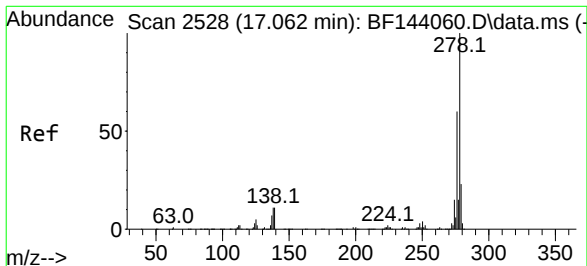
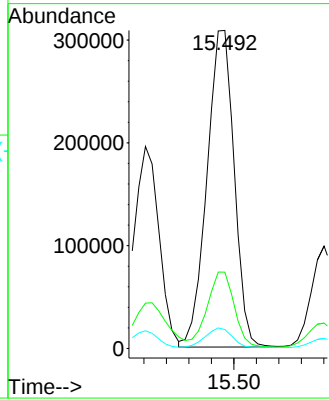
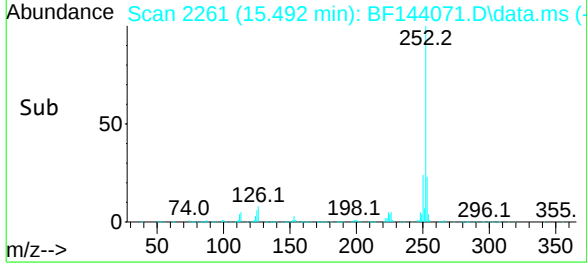
Instrument :
BNA_F
ClientSampleId :
TP-6



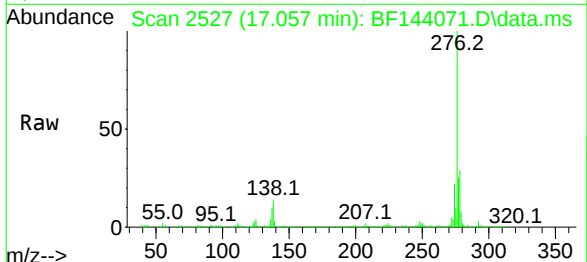
Tgt Ion:252 Resp: 517469
Ion Ratio Lower Upper
252 100
253 24.0 17.1 25.7
125 6.0 5.4 8.2

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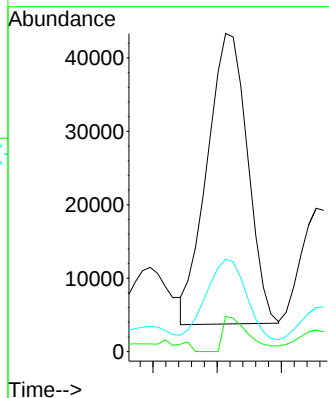
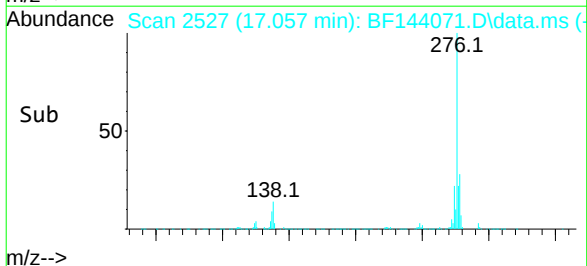
Reviewed By :Rahul Chavli 10/27/2025
Supervised By :Jagrut Upadhyay 10/27/2025

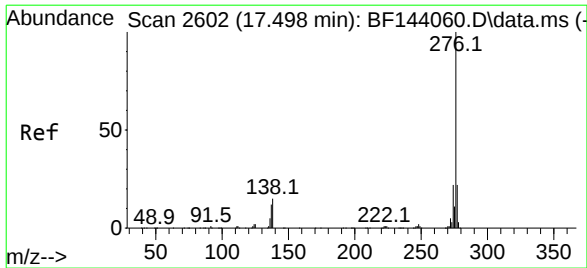


#91
Dibenzo(a,h)anthracene
Concen: 10.589 ng m
RT: 17.057 min Scan# 2527
Delta R.T. -0.006 min
Lab File: BF144071.D
Acq: 24 Oct 2025 20:15



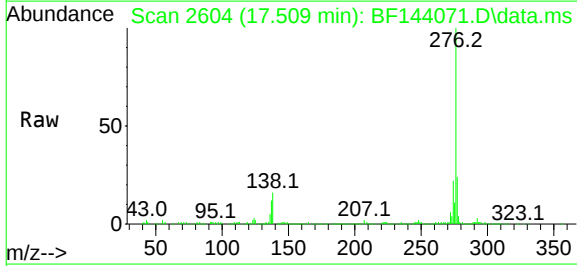
Tgt Ion:278 Resp: 86698
Ion Ratio Lower Upper
278 100
139 11.1 8.5 12.7
279 29.0 18.6 28.0#





#92
 Benzo(g,h,i)perylene
 Concen: 32.264 ng
 RT: 17.509 min Scan# 2604
 Delta R.T. 0.012 min
 Lab File: BF144071.D
 Acq: 24 Oct 2025 20:15

Instrument :
 BNA_F
 ClientSampleId :
 TP-6



Tgt Ion:	276	Resp:	265599
Ion Ratio	Lower	Upper	
276	100		
277	23.6	17.9	26.9
138	15.7	12.0	18.0

Manual Integrations
 APPROVED

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