

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102025\
 Data File : BF144003.D
 Acq On : 20 Oct 2025 17:25
 Operator : RC/JU
 Sample : Q3381-01
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 VNJ-222

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 10/21/2025
 Supervised By :Jagrut Upadhyay 10/21/2025

Quant Time: Oct 20 17:48:01 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	90421	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	344796	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	173323	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	276079	20.000	ng	0.00
76) Chrysene-d12	14.057	240	213673	20.000	ng	-0.01
86) Perylene-d12	15.545	264	276799	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	604528	106.168	ng	0.00
7) Phenol-d6	6.504	99	710356	104.663	ng	-0.01
23) Nitrobenzene-d5	7.440	82	429959	75.761	ng	-0.02
42) 2,4,6-Tribromophenol	10.710	330	162827	94.320	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	805133	73.708	ng	-0.01
79) Terphenyl-d14	12.998	244	758728	60.687	ng	-0.01
Target Compounds						Qvalue
71) Phenanthrene	11.433	178	181246	13.542	ng	98
72) Anthracene	11.486	178	46972	3.474	ng	97
75) Fluoranthene	12.627	202	267794	19.370	ng	99
78) Pyrene	12.857	202	220032	12.352	ng	99
81) Benzo(a)anthracene	14.045	228	123930	8.863	ng	98
83) Chrysene	14.080	228	121556	9.393	ng	98
87) Indeno(1,2,3-cd)pyrene	17.039	276	48301	2.848	ng	97
88) Benzo(b)fluoranthene	15.110	252	132660m	8.343	ng	
89) Benzo(k)fluoranthene	15.127	252	39895m	2.712	ng	
90) Benzo(a)pyrene	15.480	252	95488	6.926	ng	# 98
92) Benzo(g,h,i)perylene	17.492	276	47227m	3.462	ng	

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

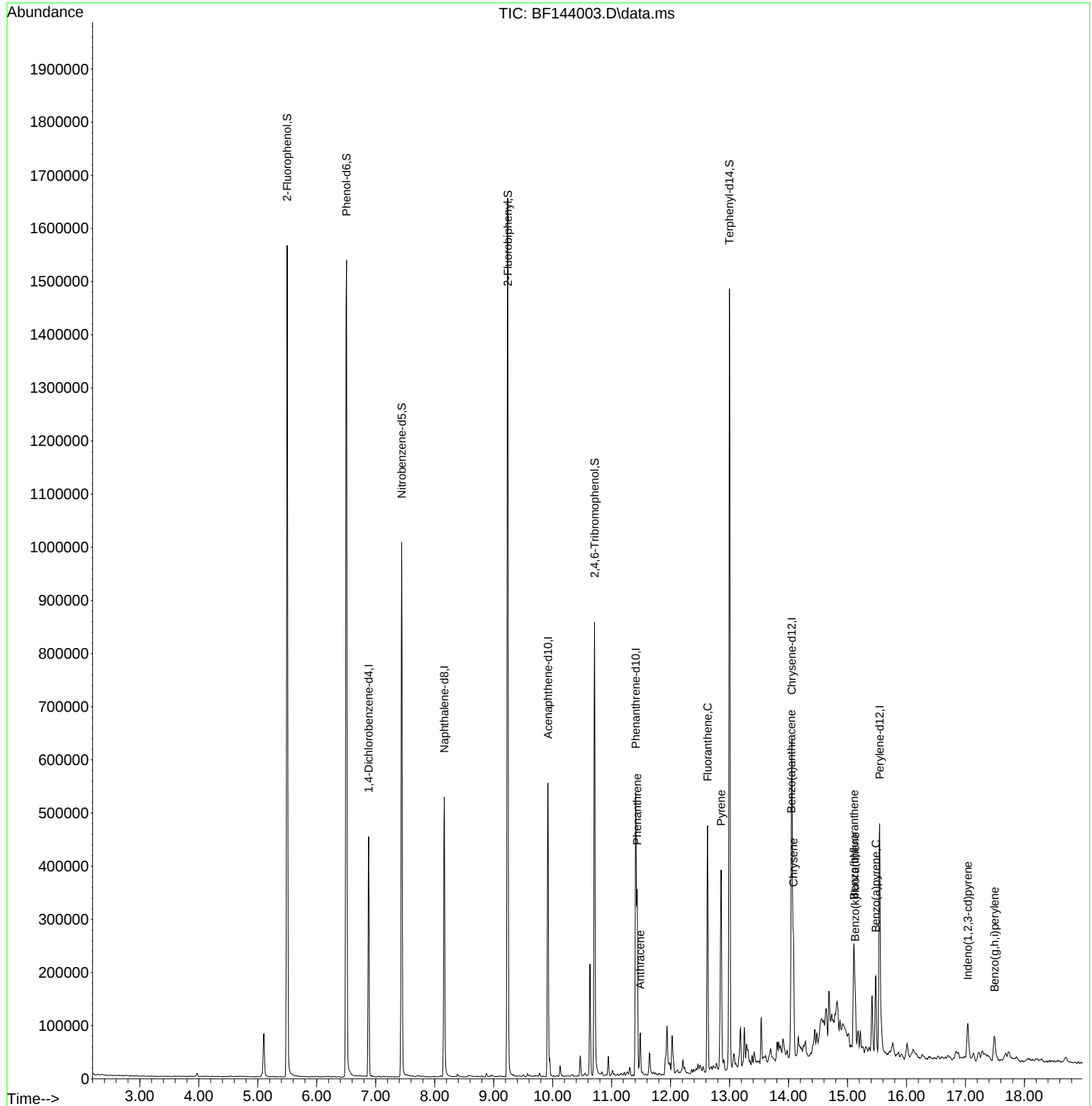
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102025\
Data File : BF144003.D
Acq On : 20 Oct 2025 17:25
Operator : RC/JU
Sample : Q3381-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

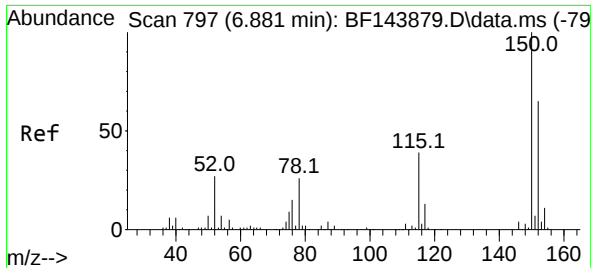
Instrument :
BNA_F
ClientSampleId :
VNJ-222

Quant Time: Oct 20 17:48:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100625.M
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QLast Update : Mon Oct 06 15:29:47 2025
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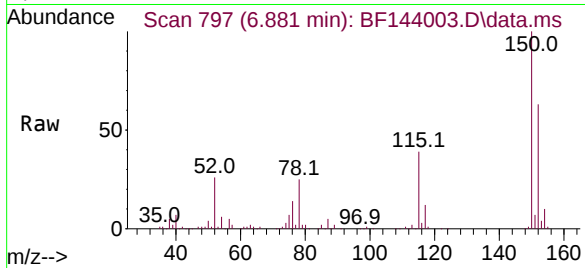
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 797
Delta R.T. -0.005 min
Lab File: BF144003.D
Acq: 20 Oct 2025 17:25

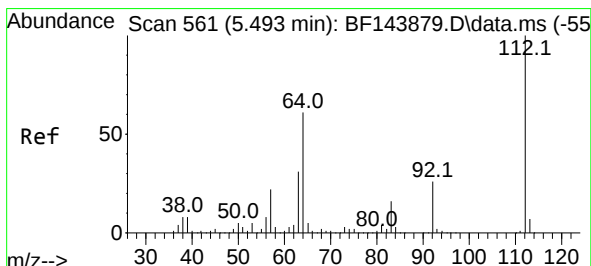
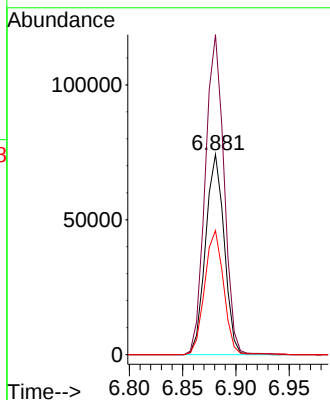
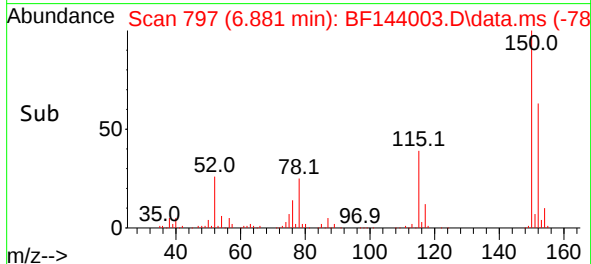
Instrument :
BNA_F
ClientSampleId :
VNJ-222



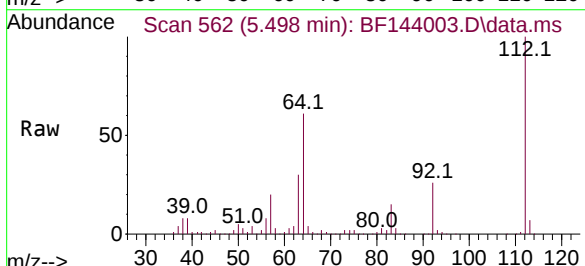
Tgt Ion:152 Resp: 90421
Ion Ratio Lower Upper
152 100
150 159.8 124.4 186.6
115 62.0 48.1 72.1

Manual Integrations
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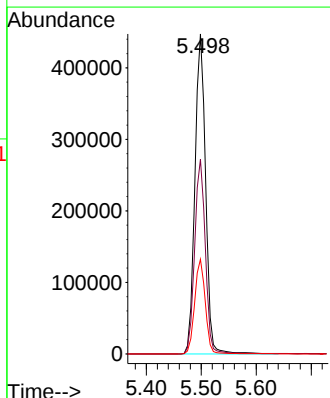
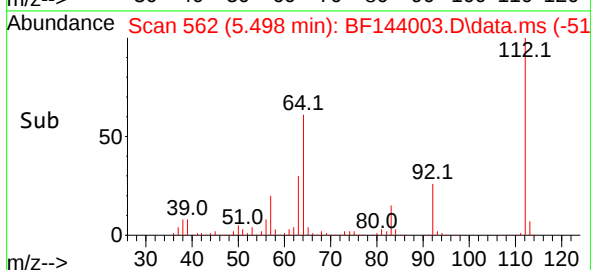
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025



#5
2-Fluorophenol
Concen: 106.168 ng
RT: 5.498 min Scan# 562
Delta R.T. 0.000 min
Lab File: BF144003.D
Acq: 20 Oct 2025 17:25



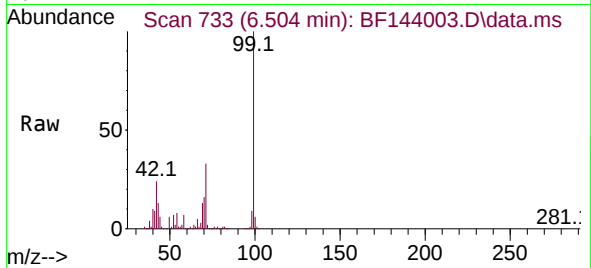
Tgt Ion:112 Resp: 604528
Ion Ratio Lower Upper
112 100
64 60.8 49.1 73.7
63 29.6 24.5 36.7





#7
Phenol-d6
Concen: 104.663 ng
RT: 6.504 min Scan# 733
Delta R.T. -0.012 min
Lab File: BF144003.D
Acq: 20 Oct 2025 17:25

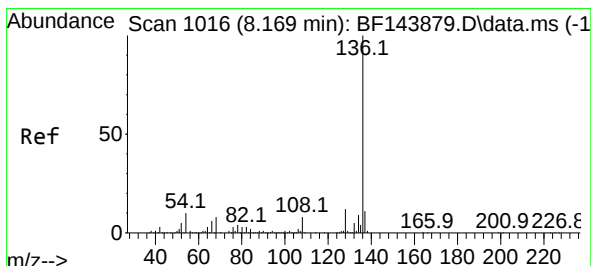
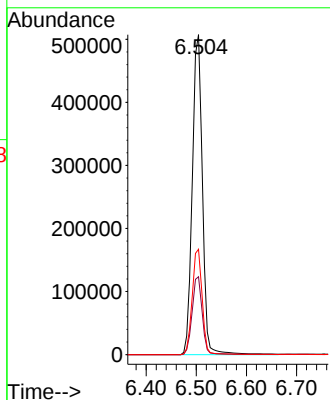
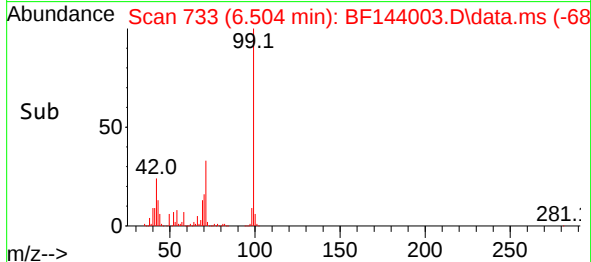
Instrument :
BNA_F
ClientSampleId :
VNJ-222



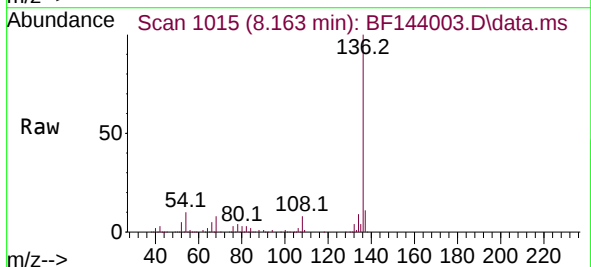
Tgt Ion: 99 Resp: 710356
Ion Ratio Lower Upper
99 100
42 24.3 21.0 31.4
71 32.9 27.8 41.8

Manual Integrations
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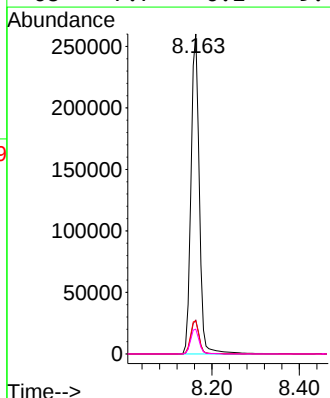
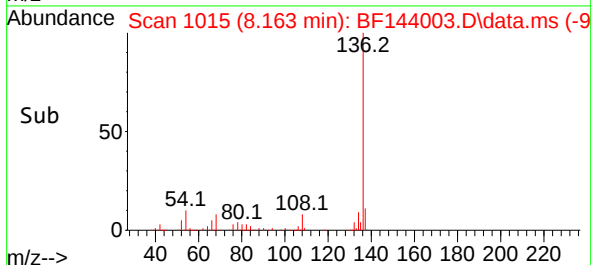
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025

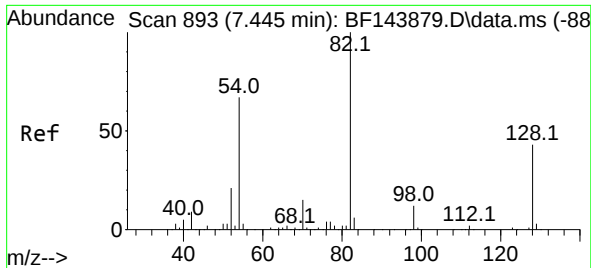


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF144003.D
Acq: 20 Oct 2025 17:25



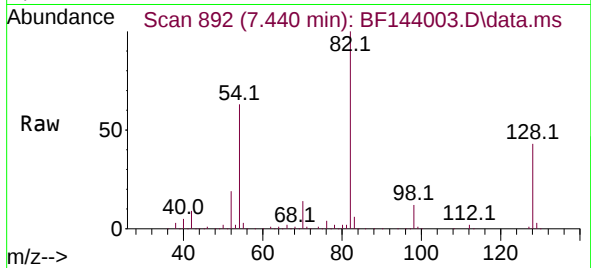
Tgt Ion:136 Resp: 344796
Ion Ratio Lower Upper
136 100
137 10.5 8.5 12.7
54 10.3 8.2 12.4
68 7.7 6.2 9.4





#23
 Nitrobenzene-d5
 Concen: 75.761 ng
 RT: 7.440 min Scan# 893
 Delta R.T. -0.017 min
 Lab File: BF144003.D
 Acq: 20 Oct 2025 17:25

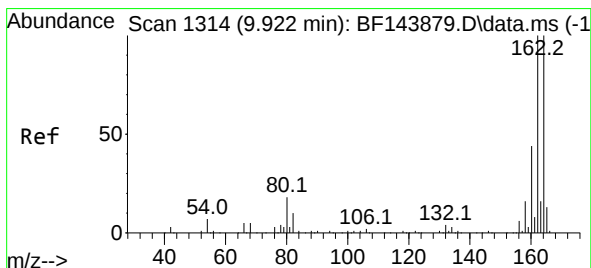
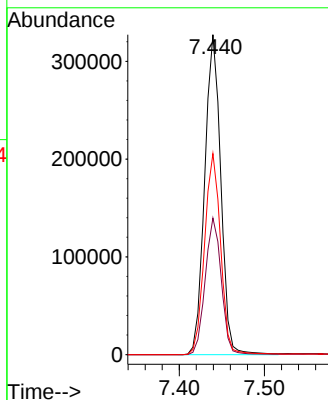
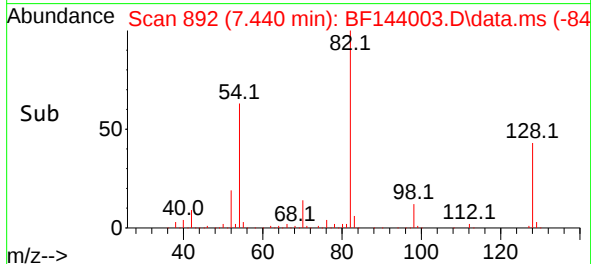
Instrument :
 BNA_F
 ClientSampleId :
 VNJ-222



Tgt Ion: 82 Resp: 429959
 Ion Ratio Lower Upper
 82 100
 128 42.7 34.0 51.0
 54 62.8 53.2 79.8

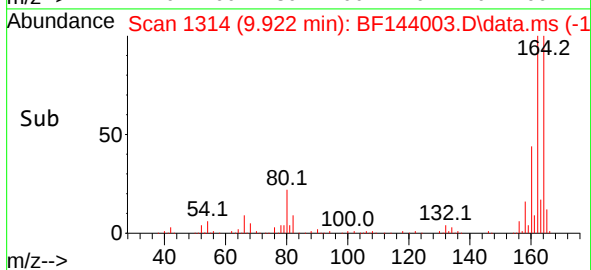
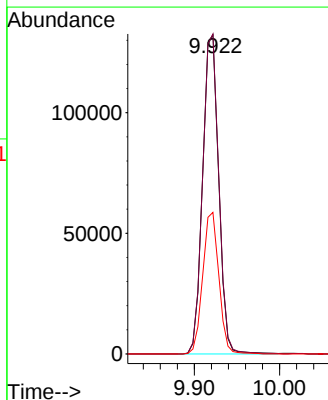
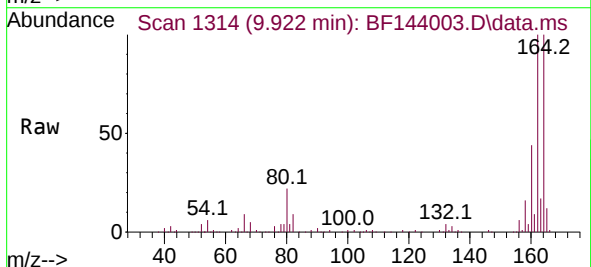
Manual Integrations
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Reviewed By :Rahul Chavli 10/21/2025
 Supervised By :Jagrut Upadhyay 10/21/2025



#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.922 min Scan# 1314
 Delta R.T. -0.005 min
 Lab File: BF144003.D
 Acq: 20 Oct 2025 17:25

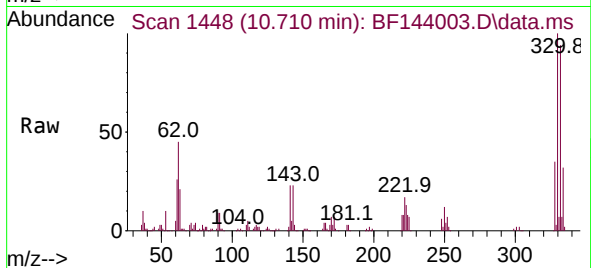
Tgt Ion:164 Resp: 173323
 Ion Ratio Lower Upper
 164 100
 162 100.3 80.2 120.2
 160 44.3 35.4 53.0





#42
2,4,6-Tribromophenol
Concen: 94.320 ng
RT: 10.710 min Scan# 1449
Delta R.T. -0.012 min
Lab File: BF144003.D
Acq: 20 Oct 2025 17:25

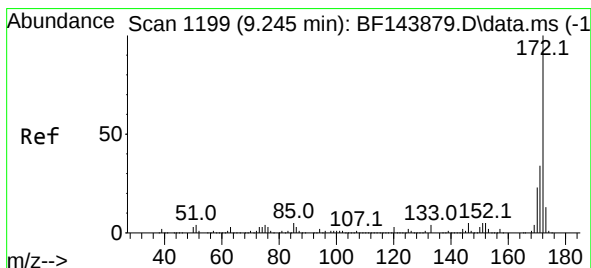
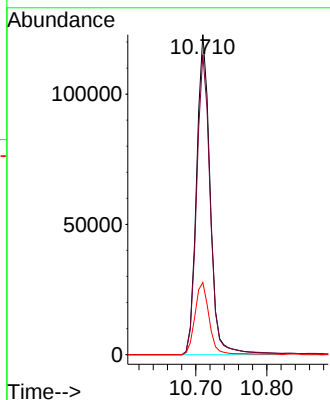
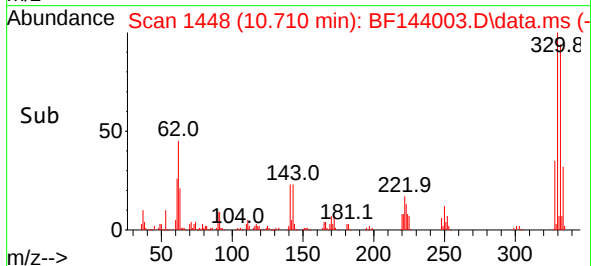
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ClientSampleId :
VNJ-222



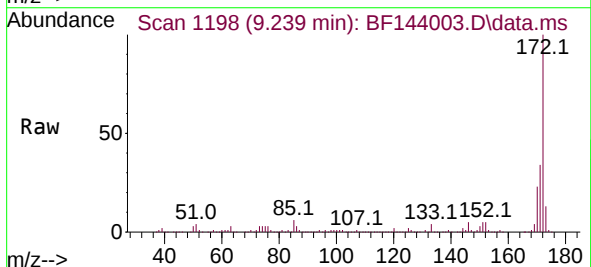
Tgt Ion: 330 Resp: 162827
Ion Ratio Lower Upper
330 100
332 94.6 76.9 115.3
141 23.5 20.2 30.4

Manual Integrations
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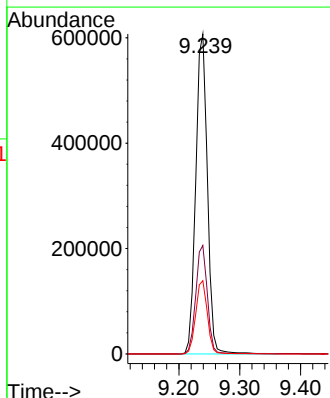
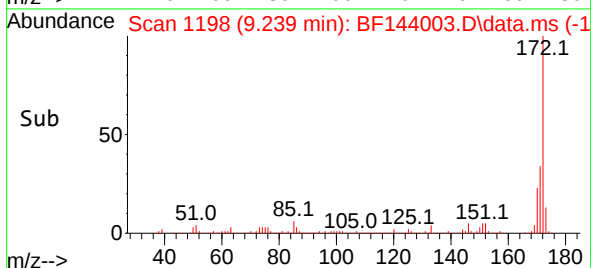
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025

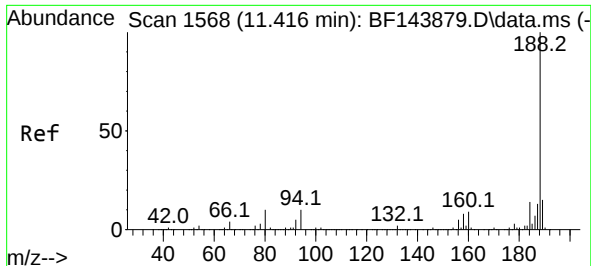


#45
2-Fluorobiphenyl
Concen: 73.708 ng
RT: 9.239 min Scan# 1198
Delta R.T. -0.012 min
Lab File: BF144003.D
Acq: 20 Oct 2025 17:25



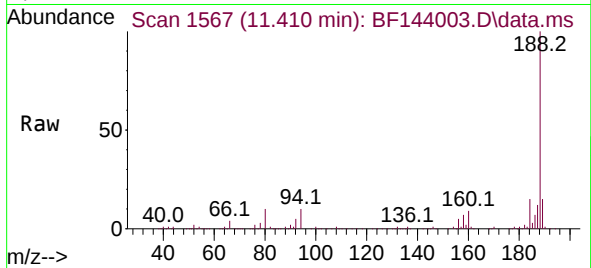
Tgt Ion: 172 Resp: 805133
Ion Ratio Lower Upper
172 100
171 33.9 27.4 41.0
170 22.9 18.6 28.0





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1568
Delta R.T. -0.006 min
Lab File: BF144003.D
Acq: 20 Oct 2025 17:25

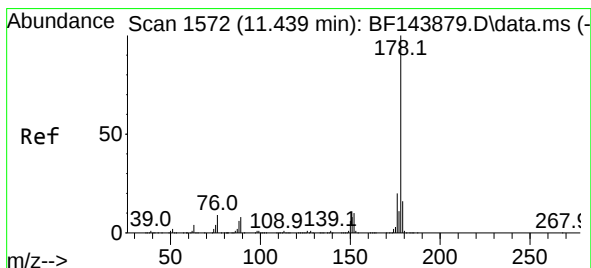
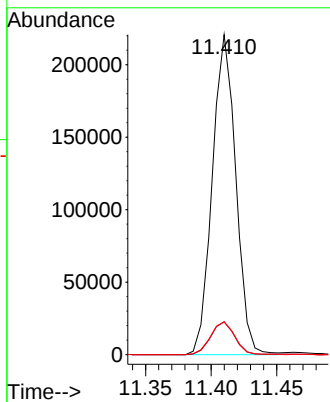
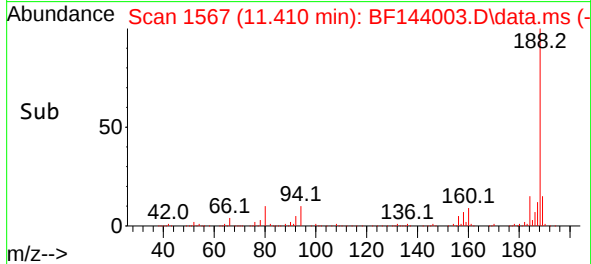
Instrument :
BNA_F
ClientSampleId :
VNJ-222



Tgt Ion:188 Resp: 276079
Ion Ratio Lower Upper
188 100
94 10.2 7.8 11.6
80 10.3 7.9 11.9

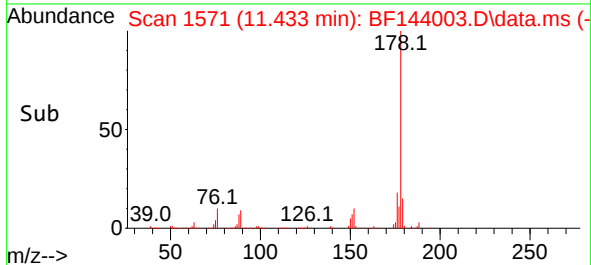
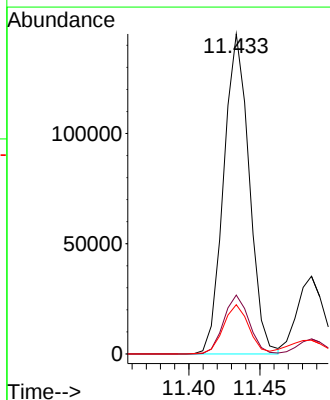
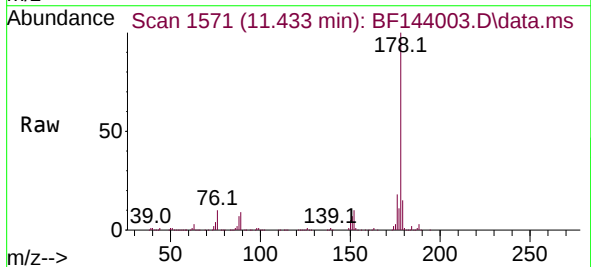
Manual Integrations
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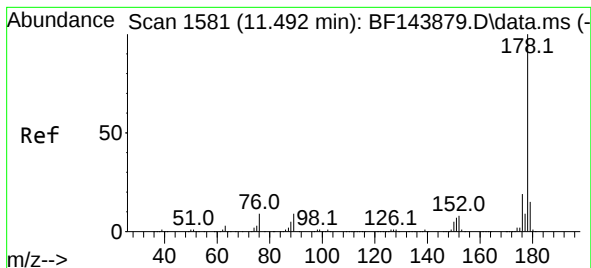
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025



#71
Phenanthrene
Concen: 13.542 ng
RT: 11.433 min Scan# 1571
Delta R.T. -0.012 min
Lab File: BF144003.D
Acq: 20 Oct 2025 17:25

Tgt Ion:178 Resp: 181246
Ion Ratio Lower Upper
178 100
176 18.4 15.9 23.9
179 15.4 12.4 18.6





#72

Anthracene

Concen: 3.474 ng

RT: 11.486 min Scan# 1581

Delta R.T. -0.012 min

Lab File: BF144003.D

Acq: 20 Oct 2025 17:25

Instrument :

BNA_F

ClientSampleId :

VNJ-222

Tgt Ion:178 Resp: 46972

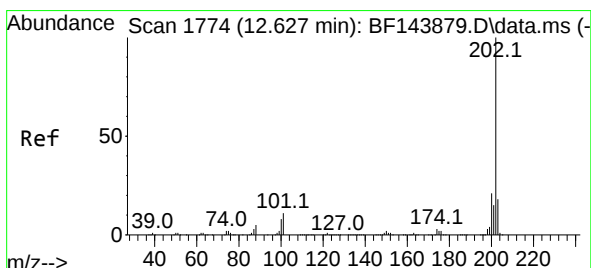
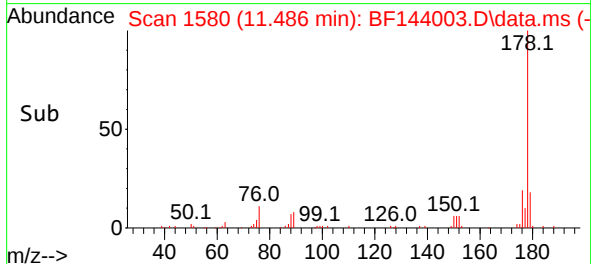
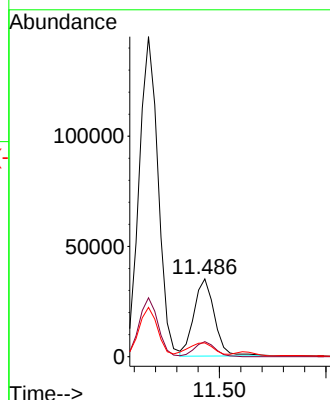
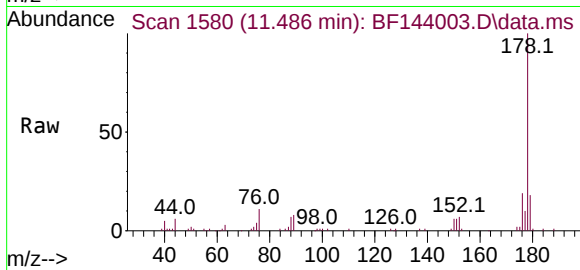
Ion	Ratio	Lower	Upper
178	100		
176	19.3	14.9	22.3
179	17.6	12.2	18.2

Manual Integrations

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Reviewed By :Rahul Chavli 10/21/2025

Supervised By :Jagrut Upadhyay 10/21/2025



#75

Fluoranthene

Concen: 19.370 ng

RT: 12.627 min Scan# 1774

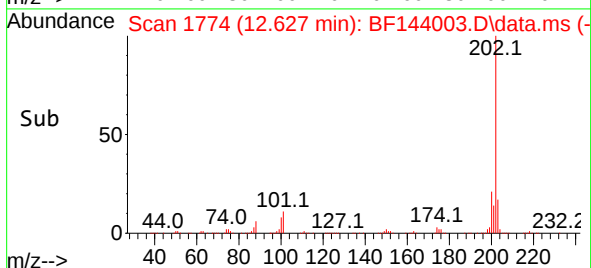
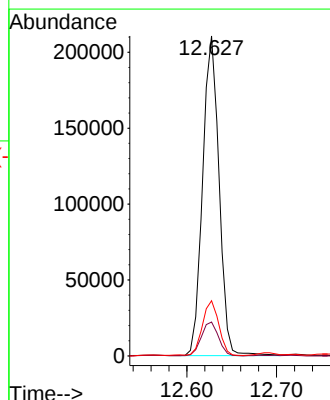
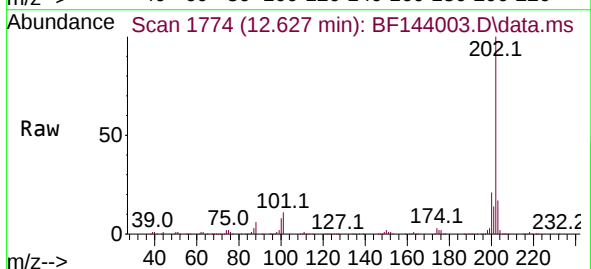
Delta R.T. -0.006 min

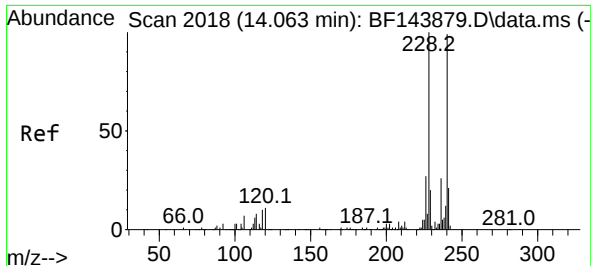
Lab File: BF144003.D

Acq: 20 Oct 2025 17:25

Tgt Ion:202 Resp: 267794

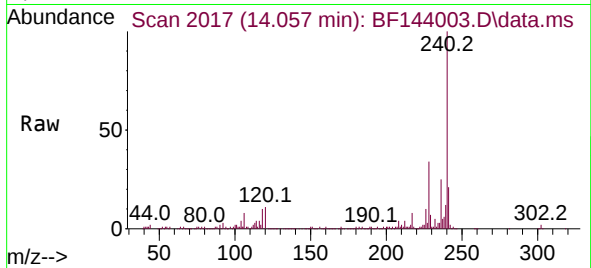
Ion	Ratio	Lower	Upper
202	100		
101	10.6	0.0	30.7
203	17.2	0.0	37.8





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2018
Delta R.T. -0.011 min
Lab File: BF144003.D
Acq: 20 Oct 2025 17:25

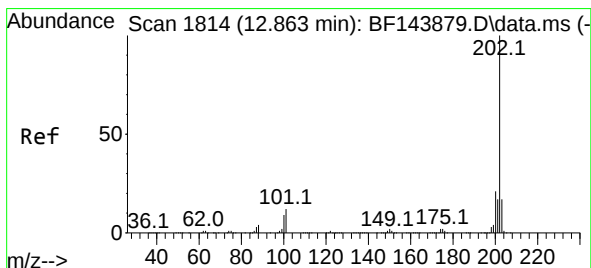
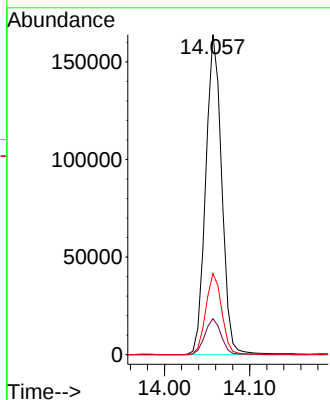
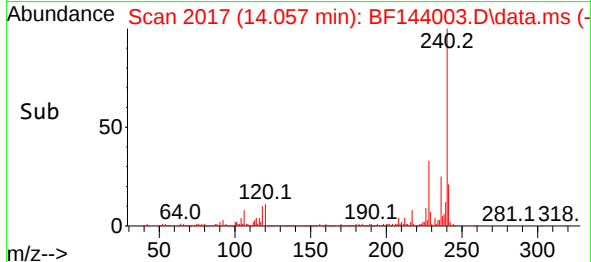
Instrument :
BNA_F
ClientSampleId :
VNJ-222



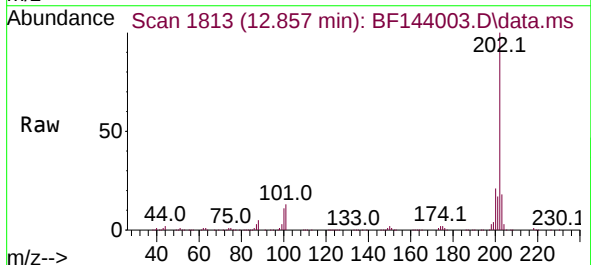
Tgt Ion:240 Resp: 213673
Ion Ratio Lower Upper
240 100
120 11.2 8.6 13.0
236 25.3 21.1 31.7

Manual Integrations
APPROVED

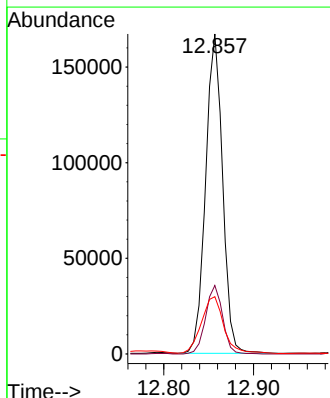
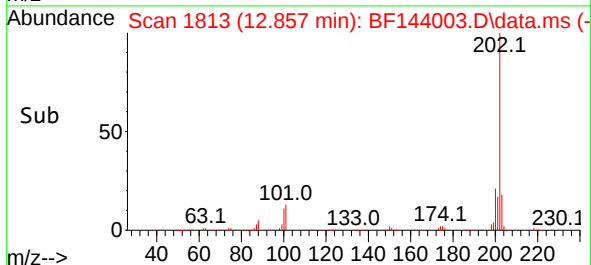
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025

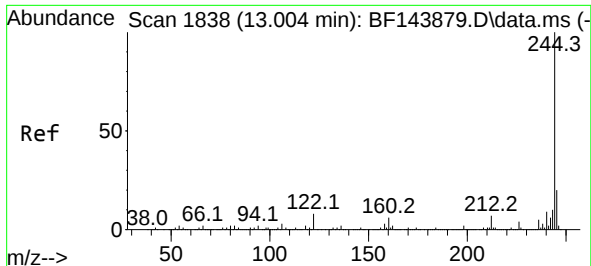


#78
Pyrene
Concen: 12.352 ng
RT: 12.857 min Scan# 1813
Delta R.T. -0.006 min
Lab File: BF144003.D
Acq: 20 Oct 2025 17:25



Tgt Ion:202 Resp: 220032
Ion Ratio Lower Upper
202 100
200 21.4 17.0 25.6
203 17.9 13.8 20.6





#79

Terphenyl-d14

Concen: 60.687 ng

RT: 12.998 min Scan# 1838

Delta R.T. -0.012 min

Lab File: BF144003.D

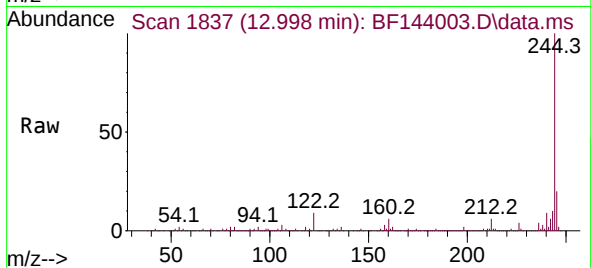
Acq: 20 Oct 2025 17:25

Instrument :

BNA_F

ClientSampleId :

VNJ-222



Tgt Ion:244 Resp: 758728

Ion Ratio Lower Upper

244 100

212 6.2 5.4 8.0

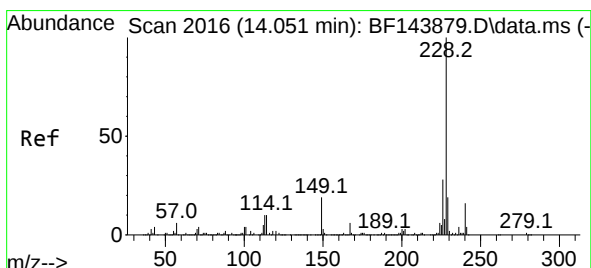
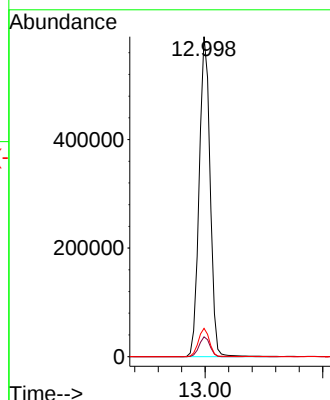
122 8.8 6.4 9.6

Manual Integrations

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Reviewed By :Rahul Chavli 10/21/2025

Supervised By :Jagrut Upadhyay 10/21/2025



#81

Benzo(a)anthracene

Concen: 8.863 ng

RT: 14.045 min Scan# 2015

Delta R.T. -0.012 min

Lab File: BF144003.D

Acq: 20 Oct 2025 17:25

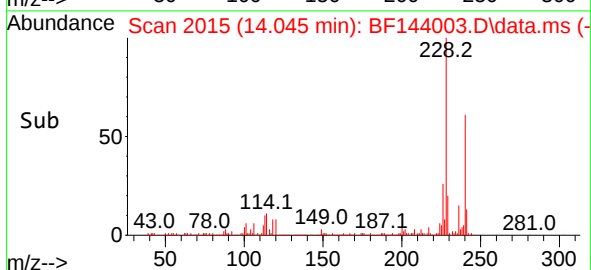
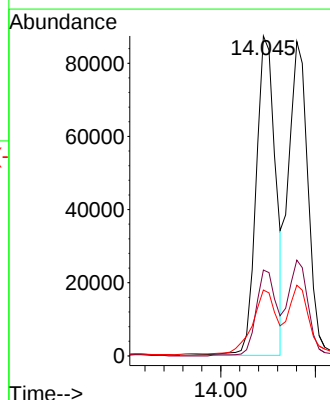
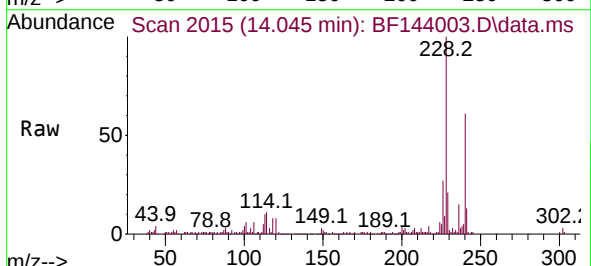
Tgt Ion:228 Resp: 123930

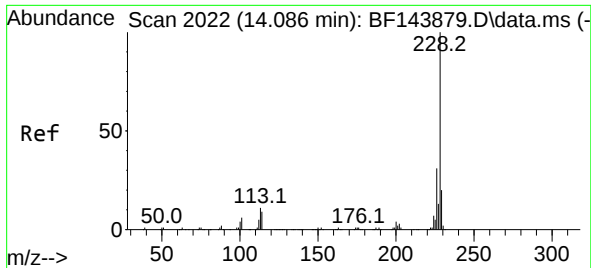
Ion Ratio Lower Upper

228 100

226 26.8 22.2 33.2

229 20.6 15.6 23.4





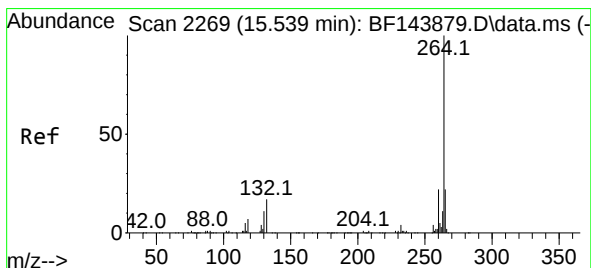
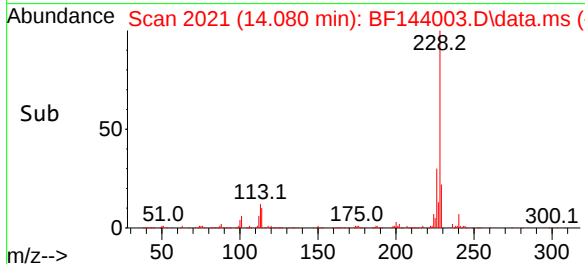
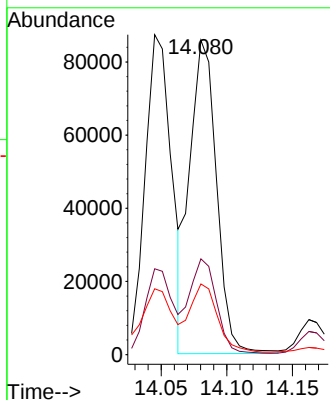
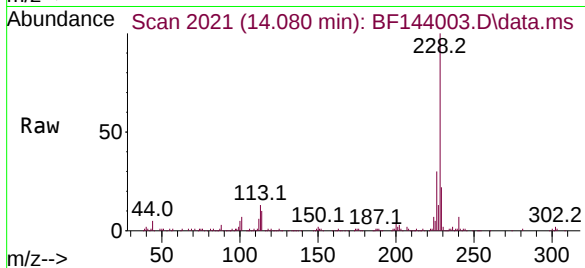
#83
Chrysene
Concen: 9.393 ng
RT: 14.080 min Scan# 20
Delta R.T. -0.012 min
Lab File: BF144003.D
Acq: 20 Oct 2025 17:25

Instrument :
BNA_F
ClientSampleId :
VNJ-222

Tgt Ion:228 Resp: 121556
Ion Ratio Lower Upper
228 100
226 30.4 24.4 36.6
229 22.5 15.9 23.9

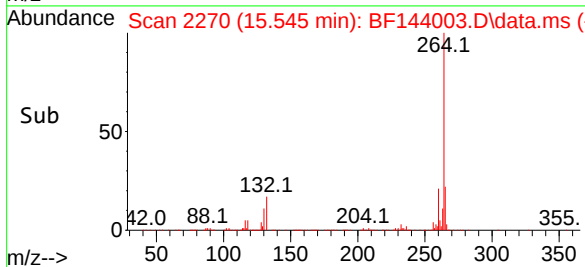
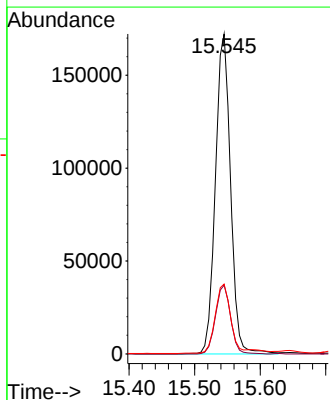
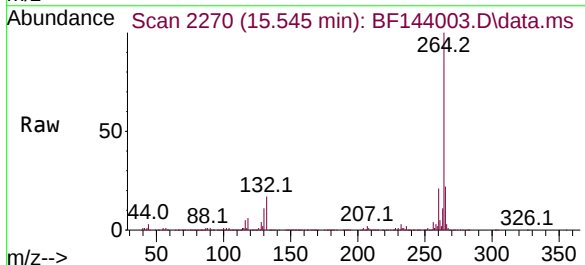
Manual Integrations
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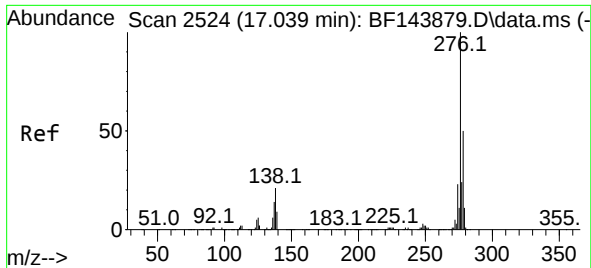
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.545 min Scan# 2270
Delta R.T. 0.000 min
Lab File: BF144003.D
Acq: 20 Oct 2025 17:25

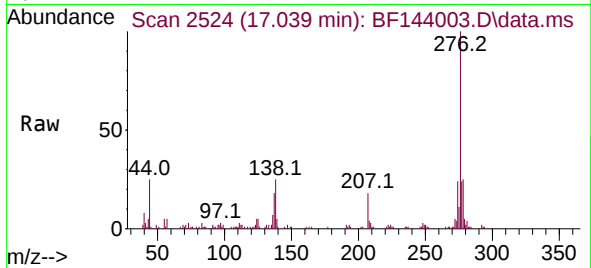
Tgt Ion:264 Resp: 276799
Ion Ratio Lower Upper
264 100
260 21.5 17.8 26.8
265 21.8 17.5 26.3





#87
Indeno(1,2,3-cd)pyrene
Concen: 2.848 ng
RT: 17.039 min Scan# 2196
Delta R.T. -0.017 min
Lab File: BF144003.D
Acq: 20 Oct 2025 17:25

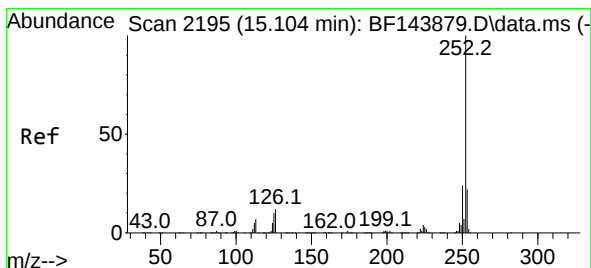
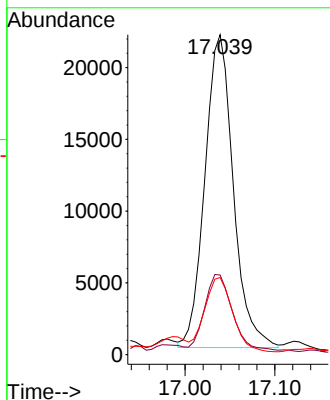
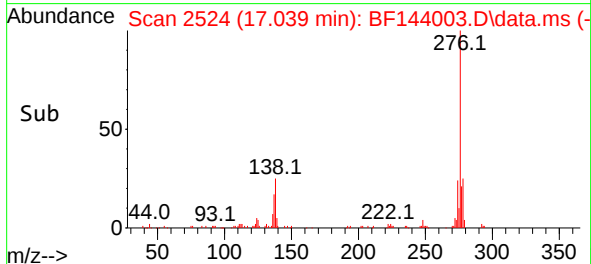
Instrument :
BNA_F
ClientSampleId :
VNJ-222



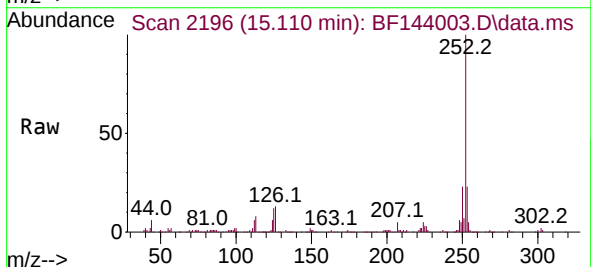
Tgt Ion: 276 Resp: 4830
Ion Ratio Lower Upper
276 100
138 24.4 18.2 27.2
277 23.6 19.8 29.6

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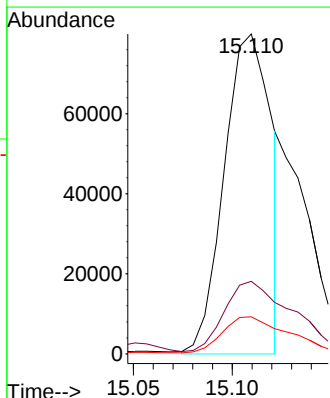
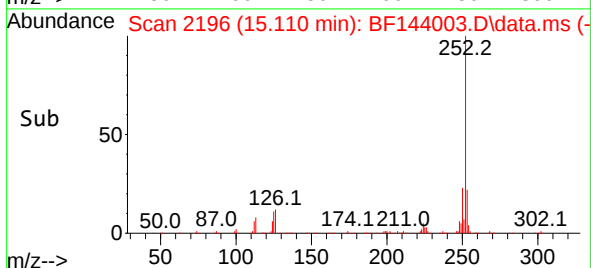
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025

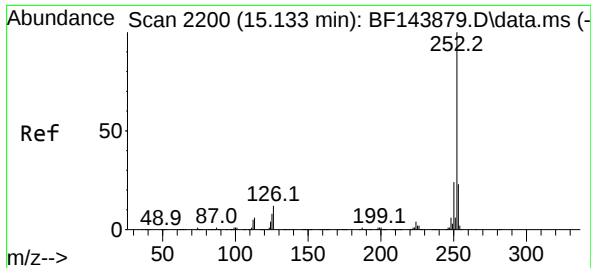


#88
Benzo(b)fluoranthene
Concen: 8.343 ng m
RT: 15.110 min Scan# 2196
Delta R.T. -0.006 min
Lab File: BF144003.D
Acq: 20 Oct 2025 17:25



Tgt Ion: 252 Resp: 132660
Ion Ratio Lower Upper
252 100
253 22.7 17.4 26.2
125 11.6 7.8 11.6





#89

Benzo(k)fluoranthene

Concen: 2.712 ng m

RT: 15.127 min Scan# 21

Delta R.T. -0.018 min

Lab File: BF144003.D

Acq: 20 Oct 2025 17:25

Instrument :

BNA_F

ClientSampleId :

VNJ-222

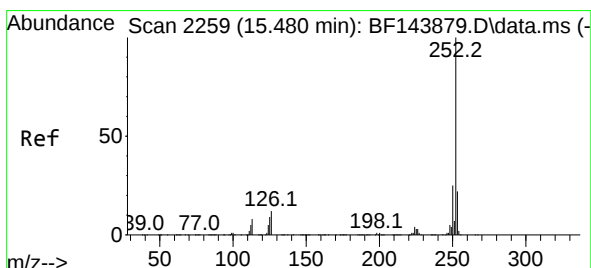
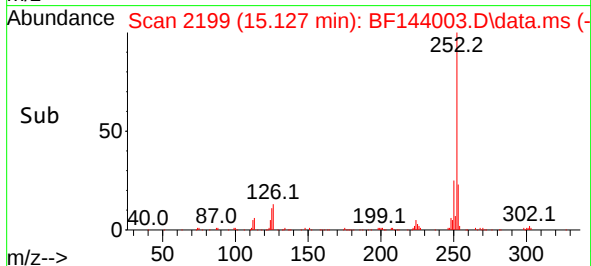
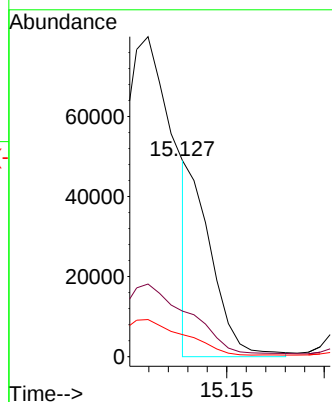
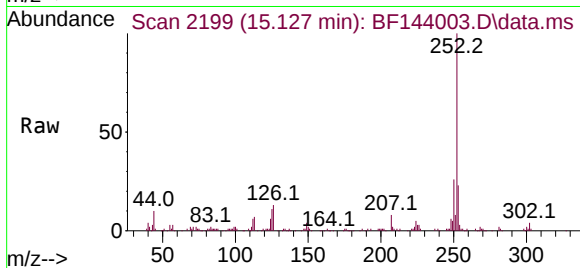
Tgt Ion:252 Resp: 39895
 Ion Ratio Lower Upper
 252 100
 253 23.2 17.8 26.8
 125 11.2 7.4 11.2

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 10/21/2025

Supervised By :Jagrut Upadhyay 10/21/2025



#90

Benzo(a)pyrene

Concen: 6.926 ng

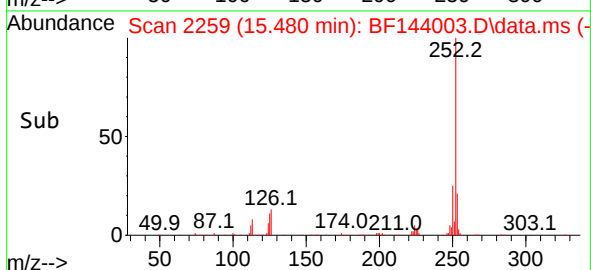
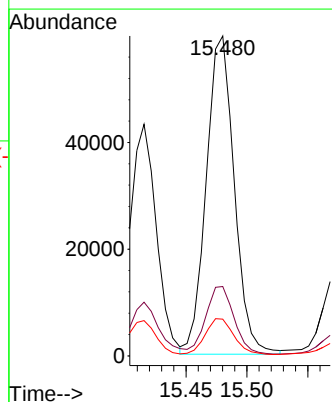
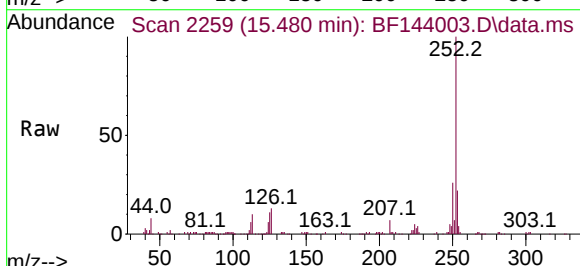
RT: 15.480 min Scan# 2259

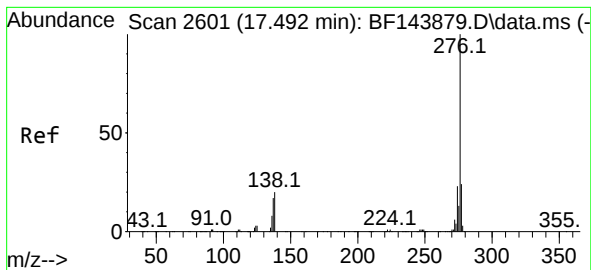
Delta R.T. -0.006 min

Lab File: BF144003.D

Acq: 20 Oct 2025 17:25

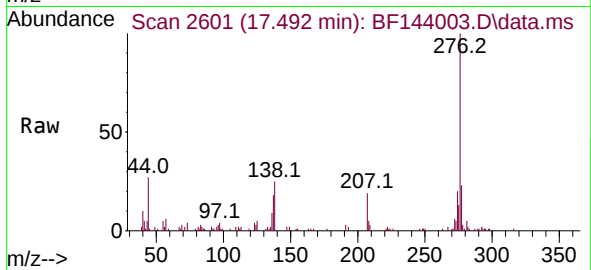
Tgt Ion:252 Resp: 95488
 Ion Ratio Lower Upper
 252 100
 253 21.7 17.3 25.9
 125 11.5 7.0 10.4





#92
 Benzo(g,h,i)perylene
 Concen: 3.462 ng m
 RT: 17.492 min Scan# 20
 Delta R.T. -0.023 min
 Lab File: BF144003.D
 Acq: 20 Oct 2025 17:25

Instrument :
 BNA_F
 ClientSampleId :
 VNJ-222



Tgt Ion:276 Resp: 4722
 Ion Ratio Lower Upper
 276 100
 277 22.8 19.0 28.6
 138 24.6 16.1 24.1

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 10/21/2025
 Supervised By :Jagrut Upadhyay 10/21/2025

