

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102025\
 Data File : BF143999.D
 Acq On : 20 Oct 2025 15:29
 Operator : RC/JU
 Sample : Q3381-03
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 VNJ-245

Manual Integrations
 APPROVED

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

Quant Time: Oct 20 16:33:41 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	100756	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	386445	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	196400	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	326671	20.000	ng	0.00
76) Chrysene-d12	14.063	240	245890	20.000	ng	0.00
86) Perylene-d12	15.545	264	311094	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	632637	99.708	ng	0.00
7) Phenol-d6	6.504	99	764086	101.032	ng	-0.01
23) Nitrobenzene-d5	7.439	82	436870	68.682	ng	-0.02
42) 2,4,6-Tribromophenol	10.710	330	167262	85.504	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	676373	54.645	ng	-0.01
79) Terphenyl-d14	12.998	244	755633	52.521	ng	-0.01
Target Compounds						Qvalue
71) Phenanthrene	11.433	178	134056	8.465	ng	99
72) Anthracene	11.486	178	77948	4.872	ng	99
75) Fluoranthene	12.627	202	219249	13.403	ng	99
78) Pyrene	12.857	202	199692	9.741	ng	98
81) Benzo(a)anthracene	14.051	228	151903	9.440	ng	98
83) Chrysene	14.086	228	216830	14.559	ng	98
87) Indeno(1,2,3-cd)pyrene	17.039	276	95032	4.985	ng	100
88) Benzo(b)fluoranthene	15.110	252	309921m	17.343	ng	
89) Benzo(k)fluoranthene	15.127	252	89162m	5.392	ng	
90) Benzo(a)pyrene	15.480	252	159201	10.274	ng	# 98
91) Dibenzo(a,h)anthracene	17.051	278	31990m	2.087	ng	
92) Benzo(g,h,i)perylene	17.492	276	81596	5.322	ng	96

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

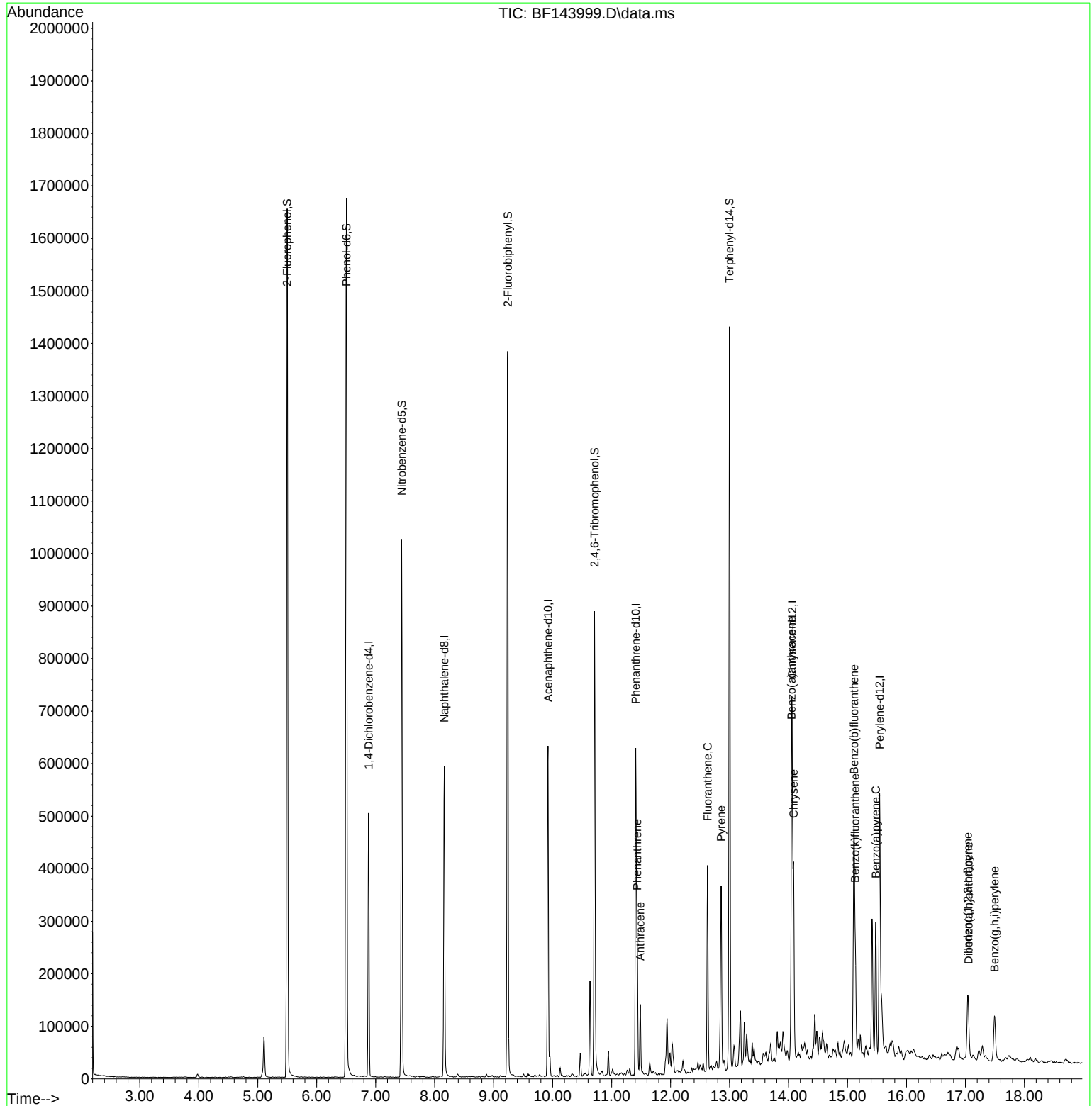
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102025\
Data File : BF143999.D
Acq On : 20 Oct 2025 15:29
Operator : RC/JU
Sample : Q3381-03
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ALS Vial : 4 Sample Multiplier: 1

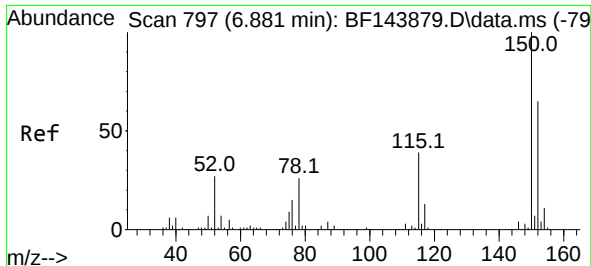
Instrument :
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Quant Time: Oct 20 16:33:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 06 15:29:47 2025
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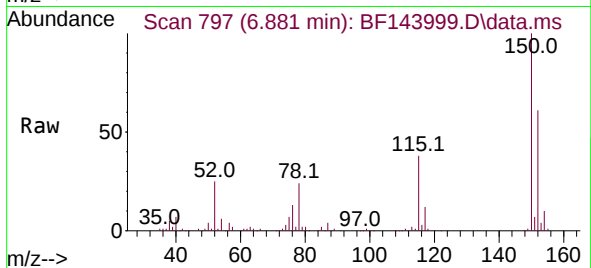
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 79
Delta R.T. -0.005 min
Lab File: BF143999.D
Acq: 20 Oct 2025 15:29

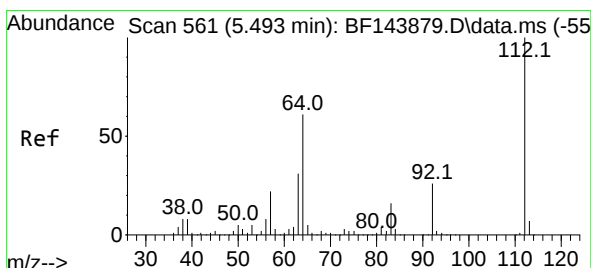
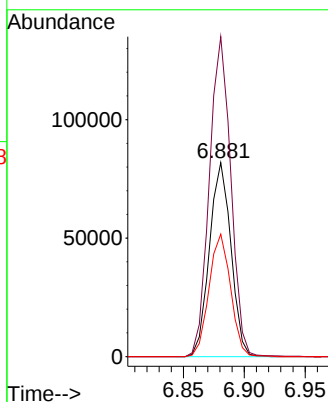
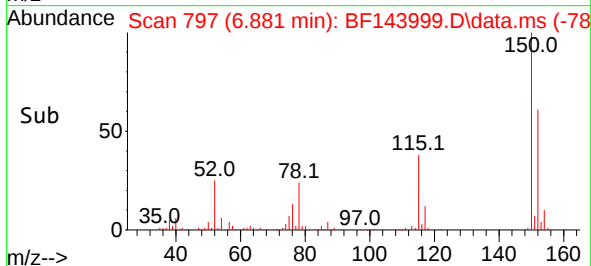
Instrument :
BNA_F
ClientSampleId :
VNJ-245



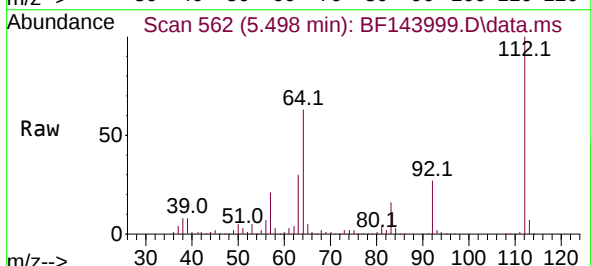
Tgt Ion:152 Resp: 100756
Ion Ratio Lower Upper
152 100
150 164.9 124.4 186.6
115 63.2 48.1 72.1

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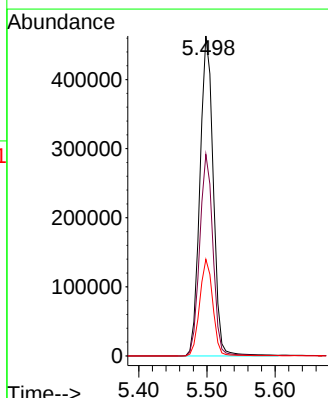
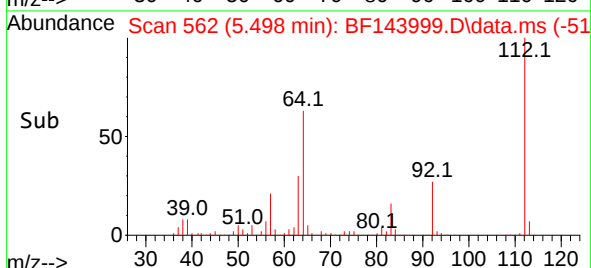
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025



#5
2-Fluorophenol
Concen: 99.708 ng
RT: 5.498 min Scan# 562
Delta R.T. 0.000 min
Lab File: BF143999.D
Acq: 20 Oct 2025 15:29



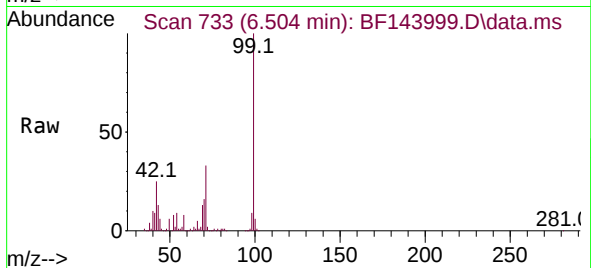
Tgt Ion:112 Resp: 632637
Ion Ratio Lower Upper
112 100
64 63.0 49.1 73.7
63 30.2 24.5 36.7





#7
Phenol-d6
Concen: 101.032 ng
RT: 6.504 min Scan# 733
Delta R.T. -0.012 min
Lab File: BF143999.D
Acq: 20 Oct 2025 15:29

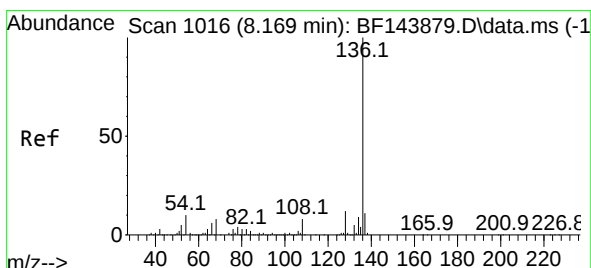
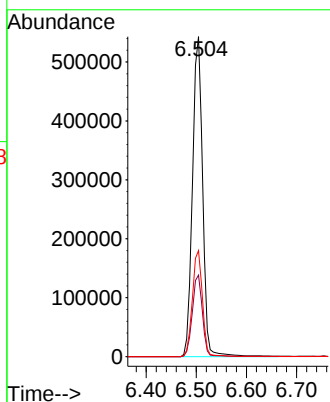
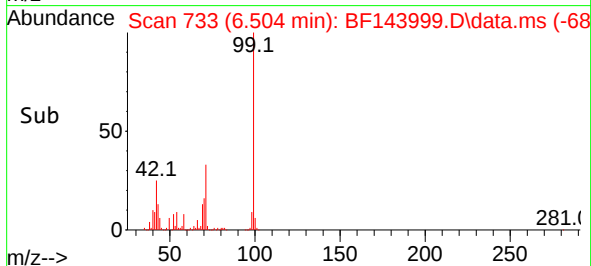
Instrument :
BNA_F
ClientSampleId :
VNJ-245



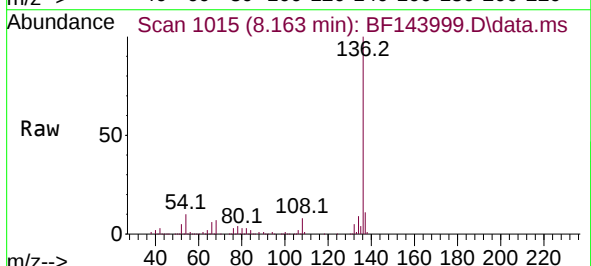
Tgt Ion: 99 Resp: 764086
Ion Ratio Lower Upper
99 100
42 25.5 21.0 31.4
71 33.1 27.8 41.8

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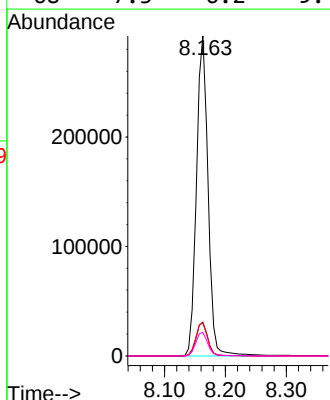
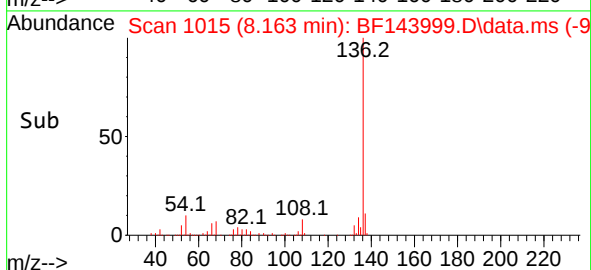
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025

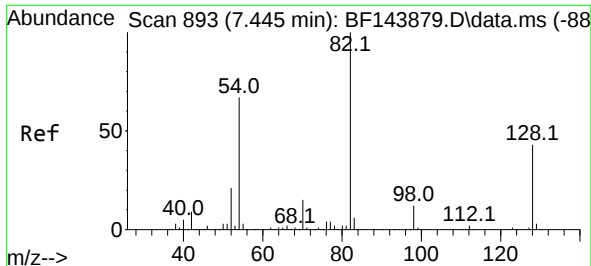


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF143999.D
Acq: 20 Oct 2025 15:29



Tgt Ion:136 Resp: 386445
Ion Ratio Lower Upper
136 100
137 10.6 8.5 12.7
54 10.3 8.2 12.4
68 7.3 6.2 9.4





#23

Nitrobenzene-d5

Concen: 68.682 ng

RT: 7.439 min Scan# 89

Delta R.T. -0.018 min

Lab File: BF143999.D

Acq: 20 Oct 2025 15:29

Instrument :

BNA_F

ClientSampleId :

VNJ-245

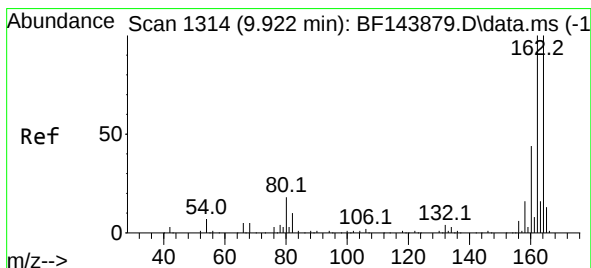
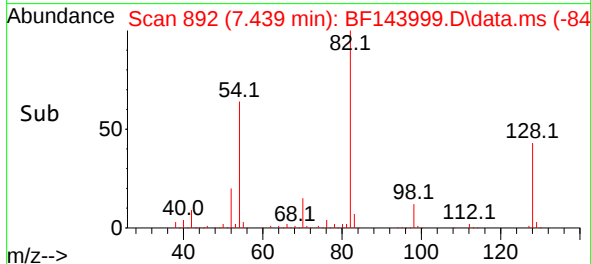
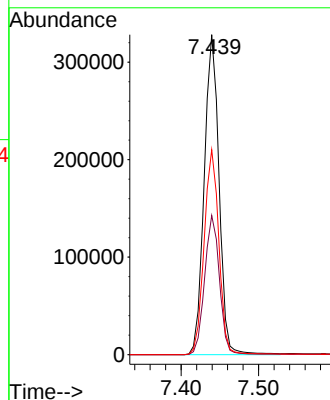
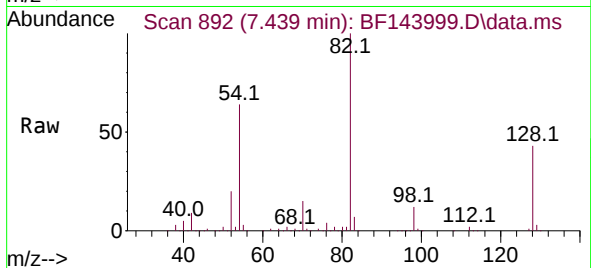
Tgt Ion: 82 Resp: 436876
 Ion Ratio Lower Upper
 82 100
 128 43.5 34.0 51.0
 54 64.0 53.2 79.8

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#39

Acenaphthene-d10

Concen: 20.000 ng

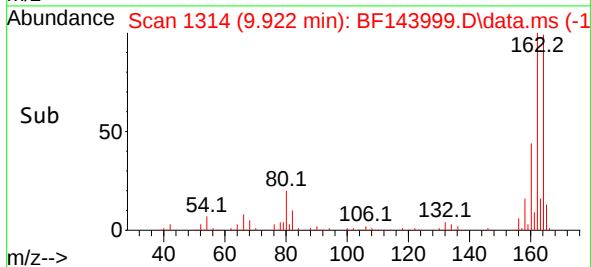
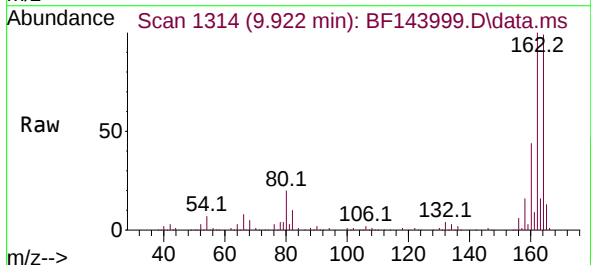
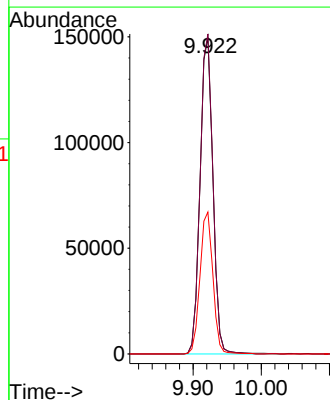
RT: 9.922 min Scan# 1314

Delta R.T. -0.005 min

Lab File: BF143999.D

Acq: 20 Oct 2025 15:29

Tgt Ion:164 Resp: 196400
 Ion Ratio Lower Upper
 164 100
 162 101.2 80.2 120.2
 160 44.8 35.4 53.0





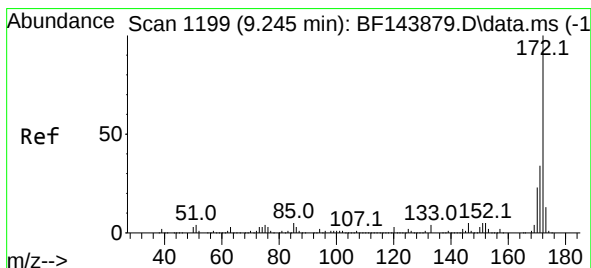
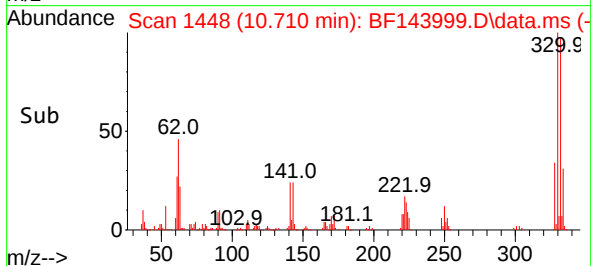
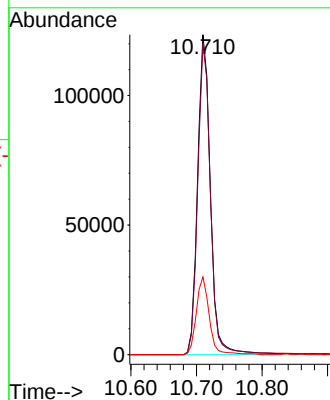
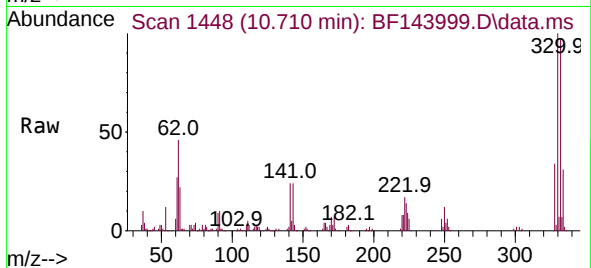
#42
2,4,6-Tribromophenol
Concen: 85.504 ng
RT: 10.710 min Scan# 1449
Delta R.T. -0.012 min
Lab File: BF143999.D
Acq: 20 Oct 2025 15:29

Instrument :
BNA_F
ClientSampleId :
VNJ-245

Tgt Ion: 330 Resp: 167262
Ion Ratio Lower Upper
330 100
332 96.9 76.9 115.3
141 24.5 20.2 30.4

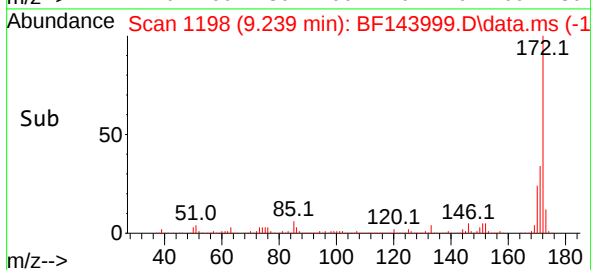
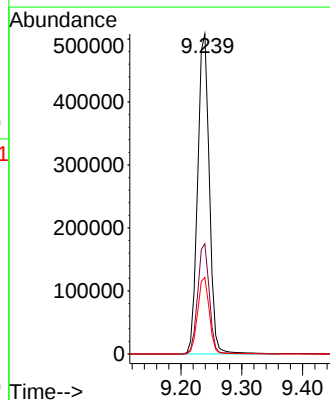
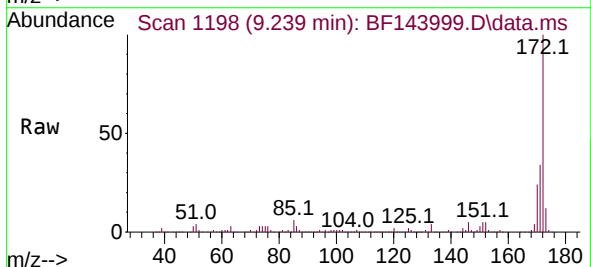
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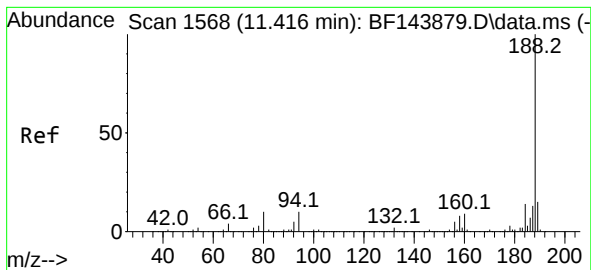
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025



#45
2-Fluorobiphenyl
Concen: 54.645 ng
RT: 9.239 min Scan# 1198
Delta R.T. -0.012 min
Lab File: BF143999.D
Acq: 20 Oct 2025 15:29

Tgt Ion: 172 Resp: 676373
Ion Ratio Lower Upper
172 100
171 34.4 27.4 41.0
170 23.9 18.6 28.0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.410 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF143999.D

Acq: 20 Oct 2025 15:29

Instrument :

BNA_F

ClientSampleId :

VNJ-245

Tgt Ion:188 Resp: 32667

Ion Ratio Lower Upper

188 100

94 10.3 7.8 11.6

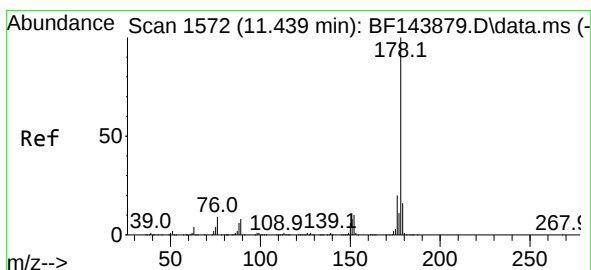
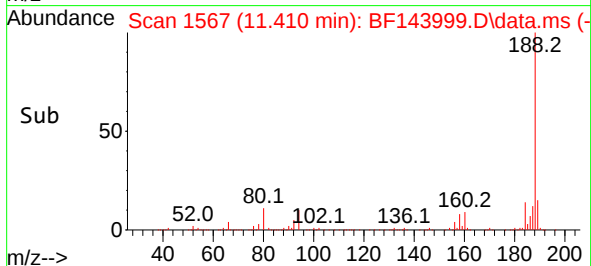
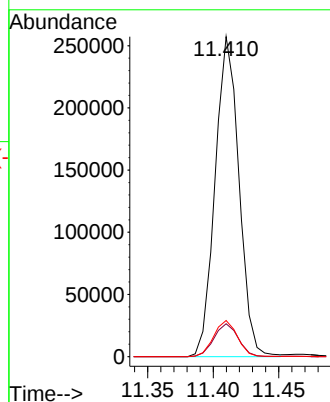
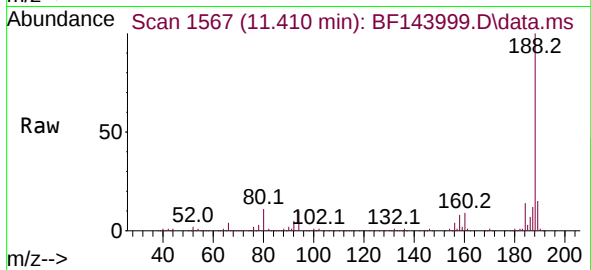
80 11.3 7.9 11.9

Manual Integrations

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Reviewed By :Rahul Chavli 10/21/2025

Supervised By :Jagrut Upadhyay 10/21/2025



#71

Phenanthrene

Concen: 8.465 ng

RT: 11.433 min Scan# 1571

Delta R.T. -0.012 min

Lab File: BF143999.D

Acq: 20 Oct 2025 15:29

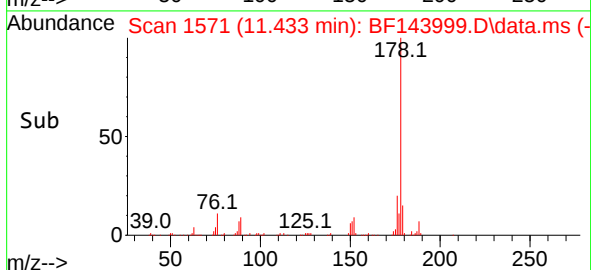
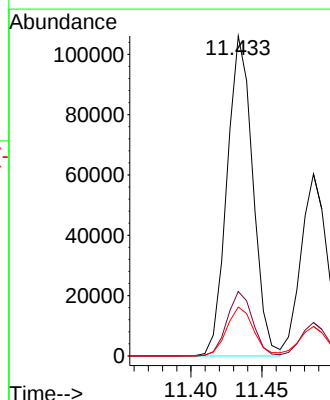
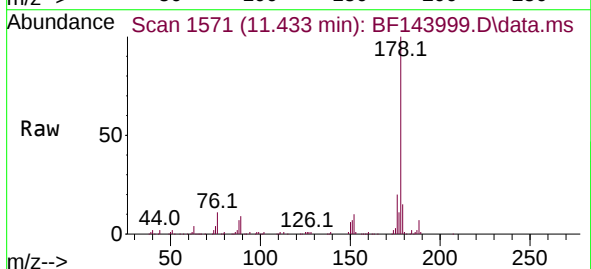
Tgt Ion:178 Resp: 134056

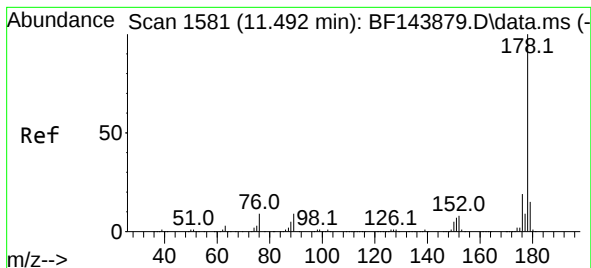
Ion Ratio Lower Upper

178 100

176 20.1 15.9 23.9

179 15.3 12.4 18.6





#72

Anthracene

Concen: 4.872 ng

RT: 11.486 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF143999.D

Acq: 20 Oct 2025 15:29

Instrument :

BNA_F

ClientSampleId :

VNJ-245

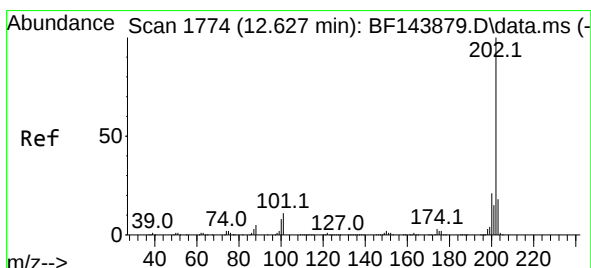
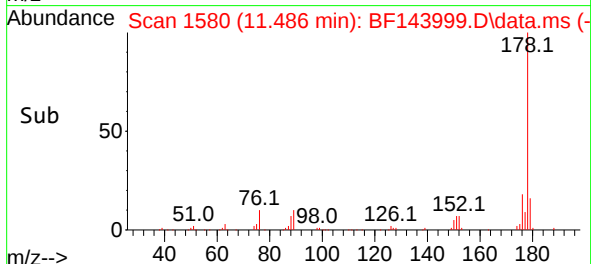
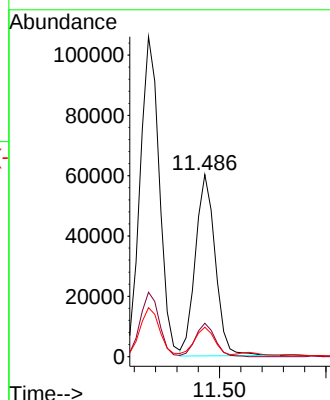
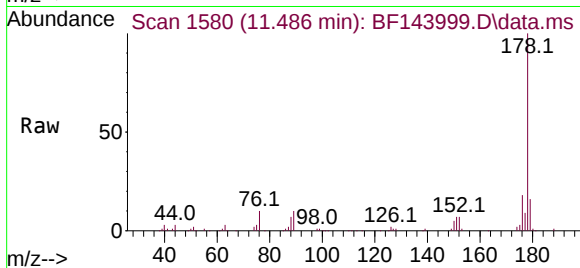
Tgt Ion:178 Resp: 77948
 Ion Ratio Lower Upper
 178 100
 176 18.3 14.9 22.3
 179 16.1 12.2 18.2

Manual Integrations

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Reviewed By :Rahul Chavli 10/21/2025

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#75

Fluoranthene

Concen: 13.403 ng

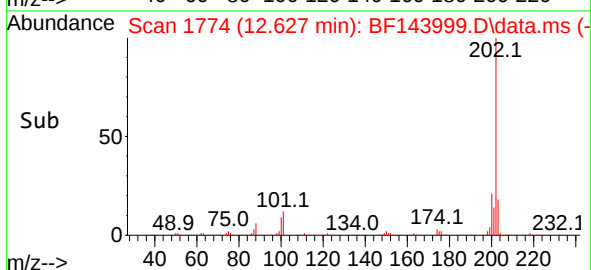
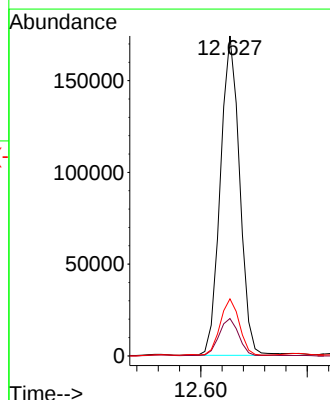
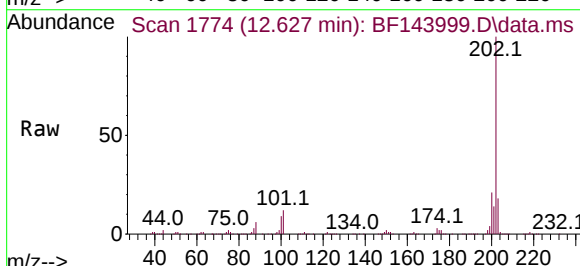
RT: 12.627 min Scan# 1774

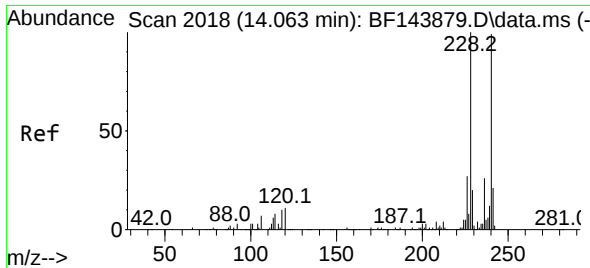
Delta R.T. -0.006 min

Lab File: BF143999.D

Acq: 20 Oct 2025 15:29

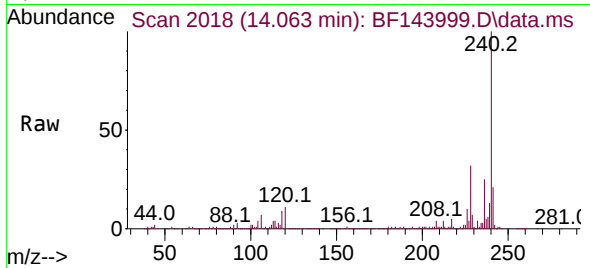
Tgt Ion:202 Resp: 219249
 Ion Ratio Lower Upper
 202 100
 101 11.7 0.0 30.7
 203 17.8 0.0 37.8





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.005 min
Lab File: BF143999.D
Acq: 20 Oct 2025 15:29

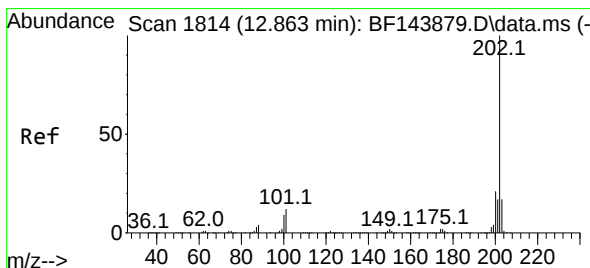
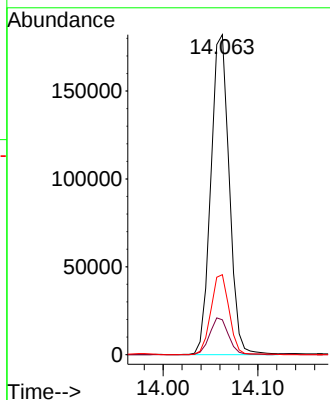
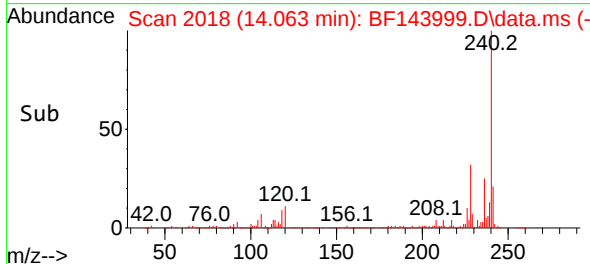
Instrument :
BNA_F
ClientSampleId :
VNJ-245



Tgt Ion:240 Resp: 245890
Ion Ratio Lower Upper
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120 10.9 8.6 13.0
236 25.0 21.1 31.7

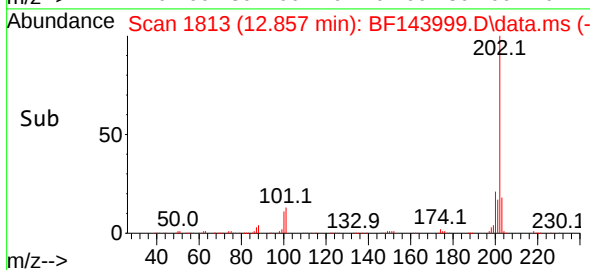
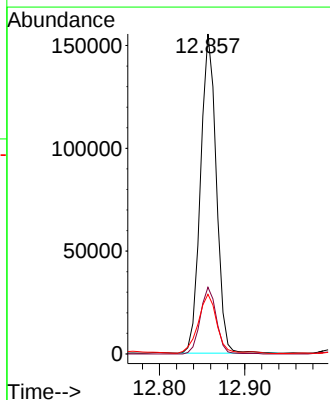
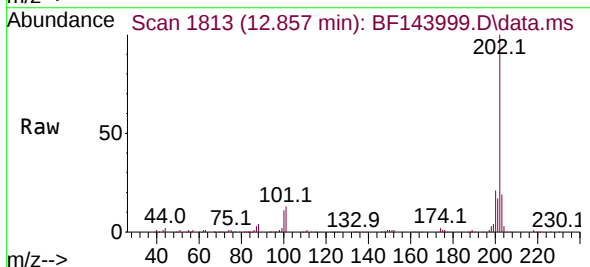
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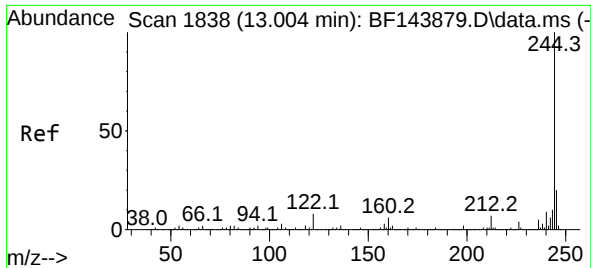
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025



#78
Pyrene
Concen: 9.741 ng
RT: 12.857 min Scan# 1813
Delta R.T. -0.006 min
Lab File: BF143999.D
Acq: 20 Oct 2025 15:29

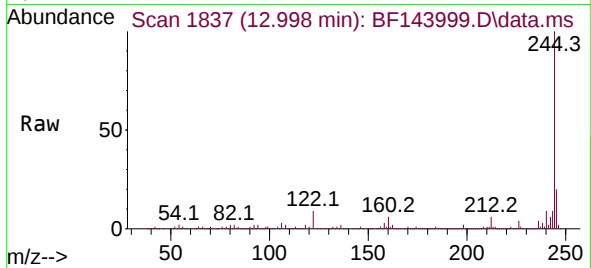
Tgt Ion:202 Resp: 199692
Ion Ratio Lower Upper
202 100
200 20.8 17.0 25.6
203 18.6 13.8 20.6





#79
 Terphenyl-d14
 Concen: 52.521 ng
 RT: 12.998 min Scan# 1838
 Delta R.T. -0.012 min
 Lab File: BF143999.D
 Acq: 20 Oct 2025 15:29

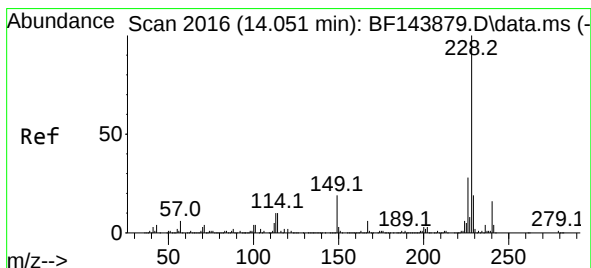
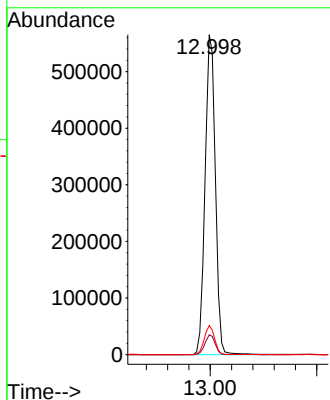
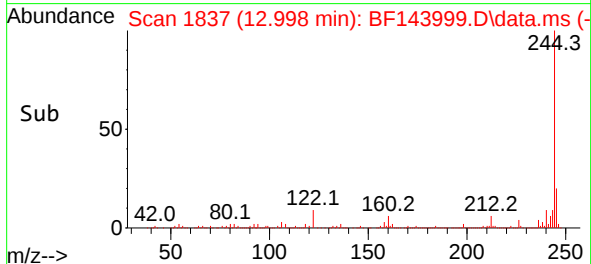
Instrument :
 BNA_F
 ClientSampleId :
 VNJ-245



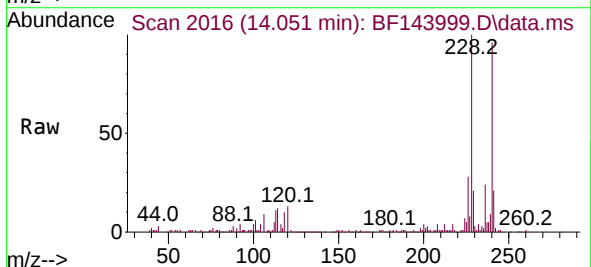
Tgt Ion:244 Resp: 755633
 Ion Ratio Lower Upper
 244 100
 212 6.2 5.4 8.0
 122 9.1 6.4 9.6

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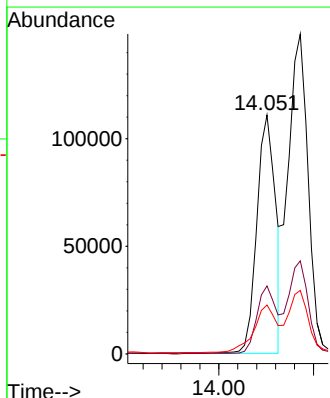
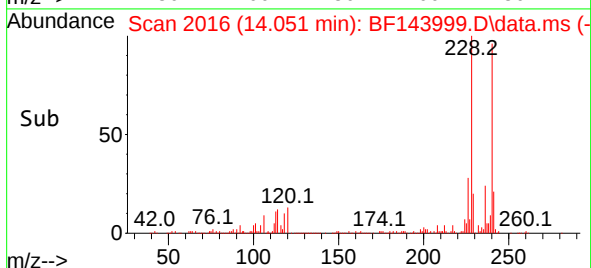
Reviewed By :Rahul Chavli 10/21/2025
 Supervised By :Jagrut Upadhyay 10/21/2025

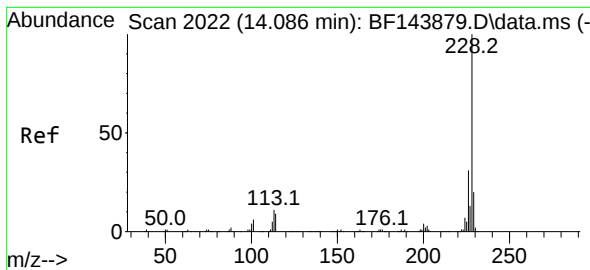


#81
 Benzo(a)anthracene
 Concen: 9.440 ng
 RT: 14.051 min Scan# 2016
 Delta R.T. -0.006 min
 Lab File: BF143999.D
 Acq: 20 Oct 2025 15:29



Tgt Ion:228 Resp: 151903
 Ion Ratio Lower Upper
 228 100
 226 28.5 22.2 33.2
 229 20.5 15.6 23.4





#83

Chrysene

Concen: 14.559 ng

RT: 14.086 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF143999.D

Acq: 20 Oct 2025 15:29

Instrument :

BNA_F

ClientSampleId :

VNJ-245

Tgt Ion:228 Resp: 216830

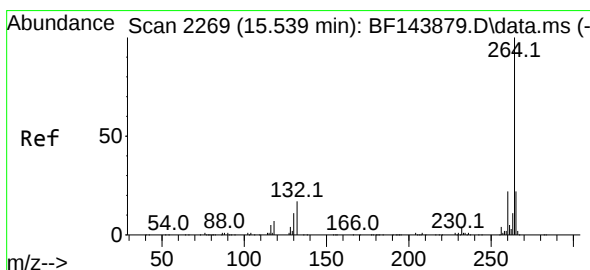
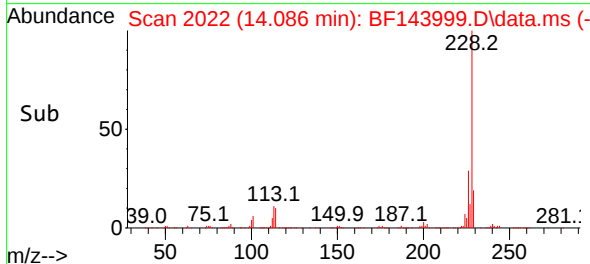
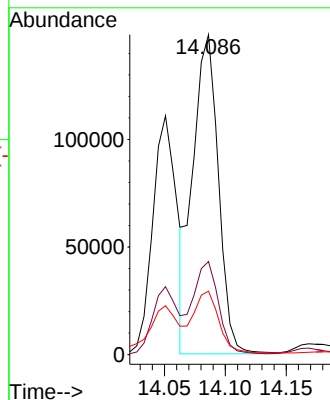
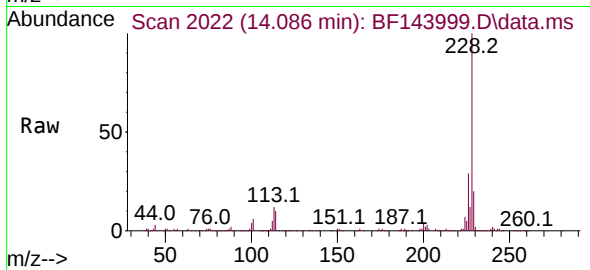
Ion	Ratio	Lower	Upper
228	100		
226	29.1	24.4	36.6
229	19.8	15.9	23.9

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

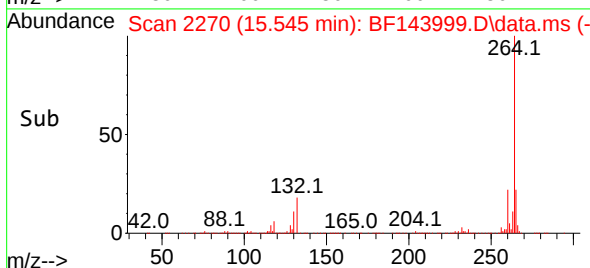
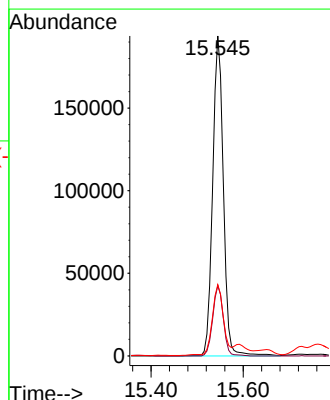
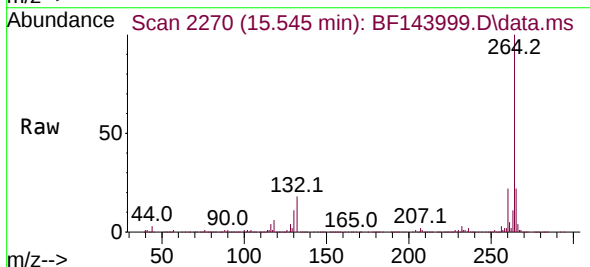
Delta R.T. 0.000 min

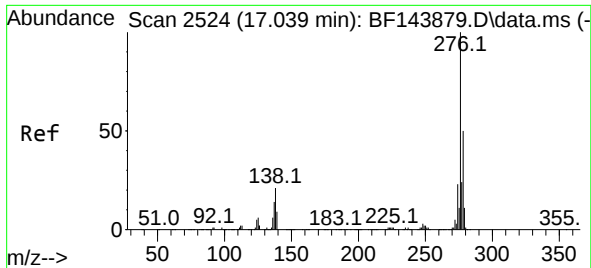
Lab File: BF143999.D

Acq: 20 Oct 2025 15:29

Tgt Ion:264 Resp: 311094

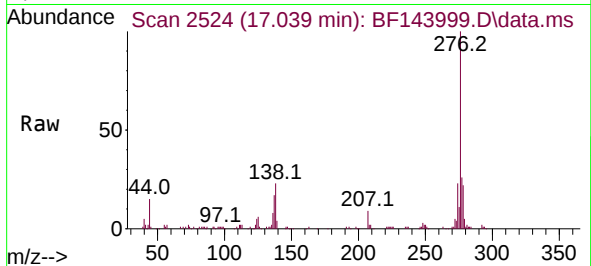
Ion	Ratio	Lower	Upper
264	100		
260	21.9	17.8	26.8
265	22.3	17.5	26.3





#87
Indeno(1,2,3-cd)pyrene
Concen: 4.985 ng
RT: 17.039 min Scan# 2193
Delta R.T. -0.018 min
Lab File: BF143999.D
Acq: 20 Oct 2025 15:29

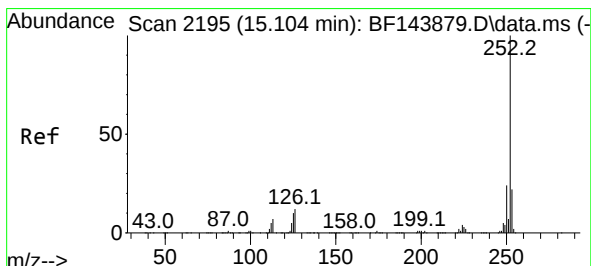
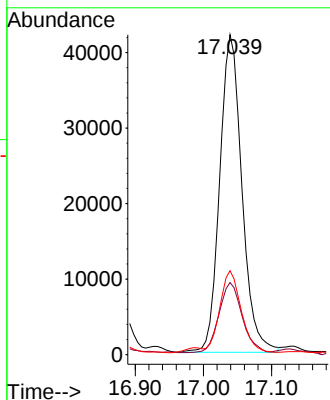
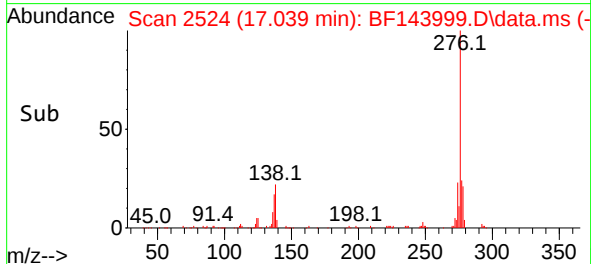
Instrument :
BNA_F
ClientSampleId :
VNJ-245



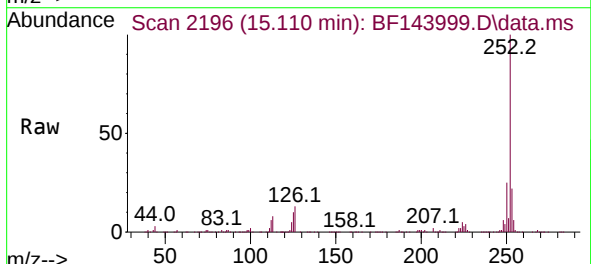
Tgt Ion:276 Resp: 95032
Ion Ratio Lower Upper
276 100
138 22.8 18.2 27.2
277 24.7 19.8 29.6

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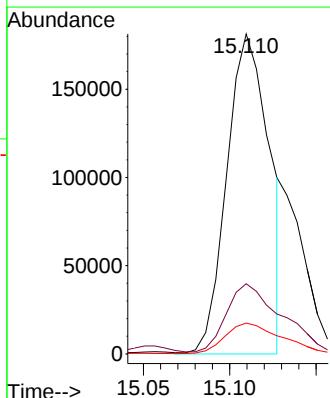
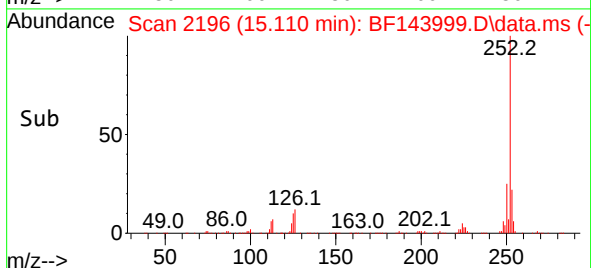
Reviewed By :Rahul Chavli 10/21/2025
Supervised By :Jagrut Upadhyay 10/21/2025

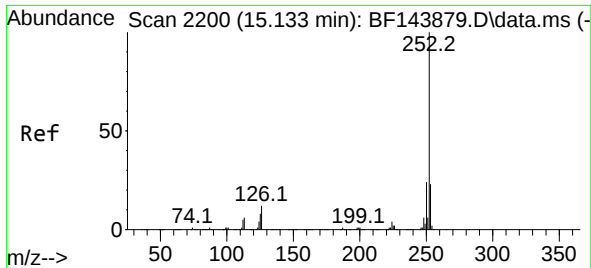


#88
Benzo(b)fluoranthene
Concen: 17.343 ng m
RT: 15.110 min Scan# 2196
Delta R.T. -0.006 min
Lab File: BF143999.D
Acq: 20 Oct 2025 15:29



Tgt Ion:252 Resp: 309921
Ion Ratio Lower Upper
252 100
253 21.9 17.4 26.2
125 9.7 7.8 11.6





#89

Benzo(k)fluoranthene

Concen: 5.392 ng m

RT: 15.127 min Scan# 21

Delta R.T. -0.018 min

Lab File: BF143999.D

Acq: 20 Oct 2025 15:29

Instrument :

BNA_F

ClientSampleId :

VNJ-245

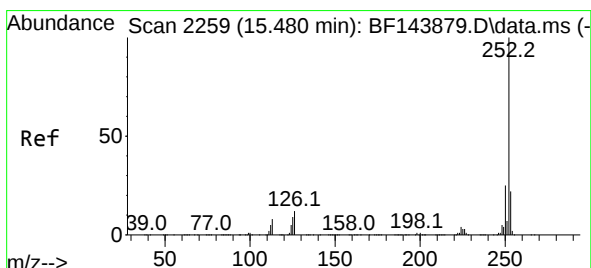
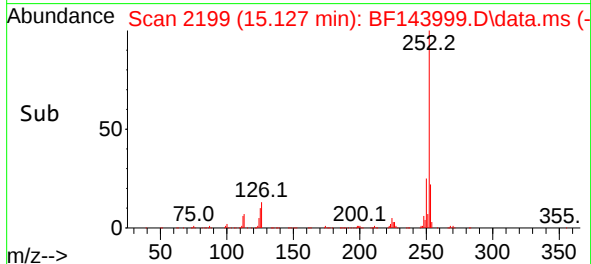
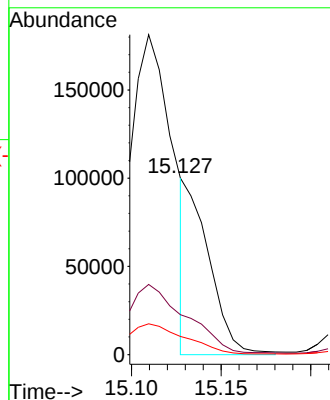
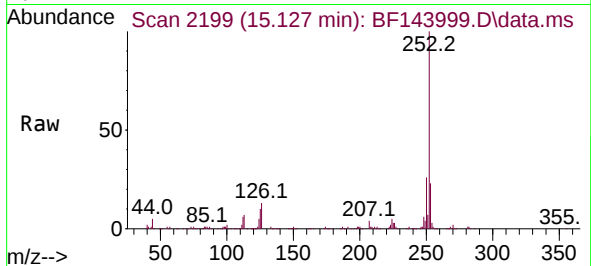
Tgt Ion:252 Resp: 89162
 Ion Ratio Lower Upper
 252 100
 253 22.6 17.8 26.8
 125 10.3 7.4 11.2

Manual Integrations

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Reviewed By :Rahul Chavli 10/21/2025

Supervised By :Jagrut Upadhyay 10/21/2025



#90

Benzo(a)pyrene

Concen: 10.274 ng

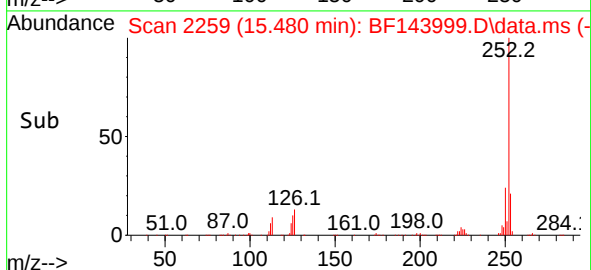
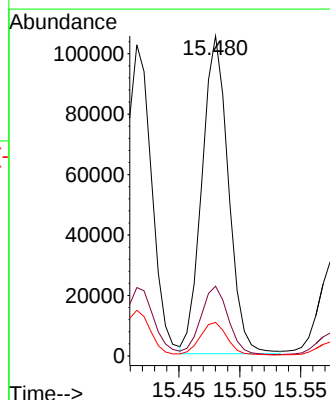
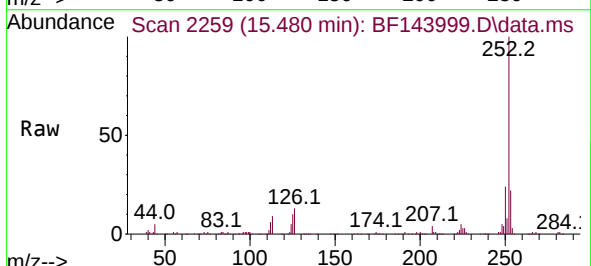
RT: 15.480 min Scan# 2259

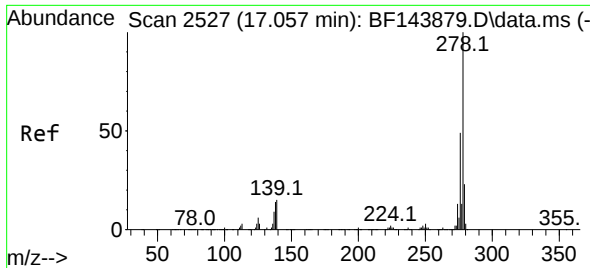
Delta R.T. -0.006 min

Lab File: BF143999.D

Acq: 20 Oct 2025 15:29

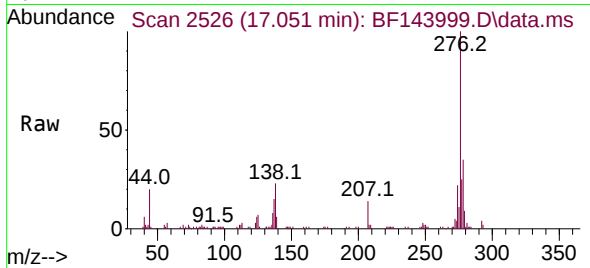
Tgt Ion:252 Resp: 159201
 Ion Ratio Lower Upper
 252 100
 253 21.8 17.3 25.9
 125 10.5 7.0 10.4#





#91
Dibenzo(a,h)anthracene
Concen: 2.087 ng m
RT: 17.051 min Scan# 2527
Delta R.T. -0.029 min
Lab File: BF143999.D
Acq: 20 Oct 2025 15:29

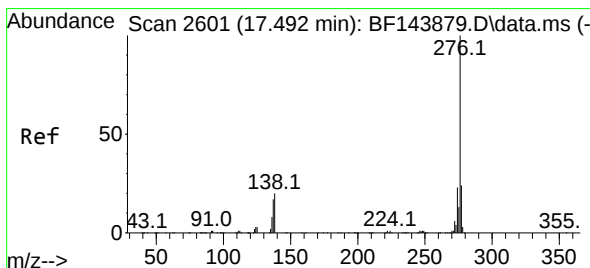
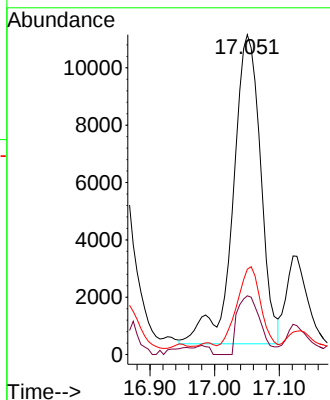
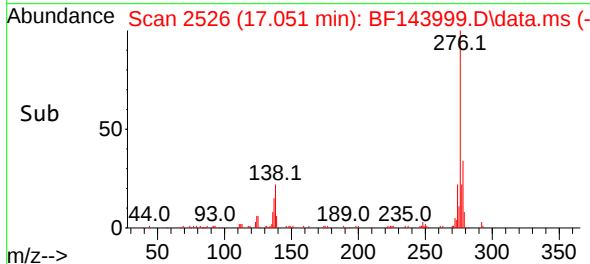
Instrument :
BNA_F
ClientSampleId :
VNJ-245



Tgt Ion:278 Resp: 31990
Ion Ratio Lower Upper
278 100
139 18.4 11.7 17.5
279 26.7 18.4 27.6

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



#92
Benzo(g,h,i)perylene
Concen: 5.322 ng
RT: 17.492 min Scan# 2601
Delta R.T. -0.023 min
Lab File: BF143999.D
Acq: 20 Oct 2025 15:29

Tgt Ion:276 Resp: 81596
Ion Ratio Lower Upper
276 100
277 24.2 19.0 28.6
138 23.2 16.1 24.1

