

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020525\
 Data File : BF141470.D
 Acq On : 06 Feb 2025 01:26
 Operator : RC/JU
 Sample : Q1285-01 10X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 72-11977

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 02/06/2025
 Supervised By :mohammad ahmed 02/06/2025

Quant Time: Feb 06 03:56:46 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 29 17:41:25 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.793	152	58836	20.000	ng	-0.01
21) Naphthalene-d8	8.081	136	207277	20.000	ng	0.00
39) Acenaphthene-d10	9.828	164	107469	20.000	ng	-0.01
64) Phenanthrene-d10	11.322	188	178286	20.000	ng	0.00
76) Chrysene-d12	13.963	240	116305	20.000	ng	-0.01
86) Perylene-d12	15.415	264	99460	20.000	ng	#-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.410	112	35138	9.169	ng	0.00
7) Phenol-d6	6.434	99	41222	8.455	ng	0.00
23) Nitrobenzene-d5	7.351	82	24917	6.337	ng	-0.02
42) 2,4,6-Tribromophenol	10.622	330	8586	8.715	ng	-0.01
45) 2-Fluorobiphenyl	9.145	172	44734	6.407	ng	-0.02
79) Terphenyl-d14	12.904	244	51080	6.773	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.104	128	3708127	338.645	ng	98
37) 2-Methylnaphthalene	8.792	142	1621826	233.035	ng	100
38) 1-Methylnaphthalene	8.892	142	1371754	200.653	ng	99
46) 1,1'-Biphenyl	9.251	154	579707	69.167	ng	98
49) Acenaphthylene	9.692	152	462373	50.562	ng	# 96
52) Acenaphthene	9.869	154	1038872	159.020	ng	97
55) Dibenzofuran	10.033	168	49340	5.642	ng	# 76
58) Fluorene	10.381	166	585597	86.331	ng	97
71) Phenanthrene	11.357	178	3249013	339.018	ng	99
72) Anthracene	11.398	178	1041853	110.951	ng	99
75) Fluoranthene	12.539	202	1186209	125.356	ng	97
78) Pyrene	12.774	202	2211510	198.090	ng	99
81) Benzo(a)anthracene	13.951	228	596890m	74.372	ng	
83) Chrysene	13.986	228	397778	54.080	ng	96
87) Indeno(1,2,3-cd)pyrene	16.857	276	113677	17.708	ng	# 89
88) Benzo(b)fluoranthene	15.004	252	315401m	50.413	ng	
89) Benzo(k)fluoranthene	15.015	252	79757m	14.391	ng	
90) Benzo(a)pyrene	15.357	252	368358	69.674	ng	97
91) Dibenzo(a,h)anthracene	16.862	278	32139m	6.223	ng	
92) Benzo(g,h,i)perylene	17.292	276	130308	24.265	ng	95

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

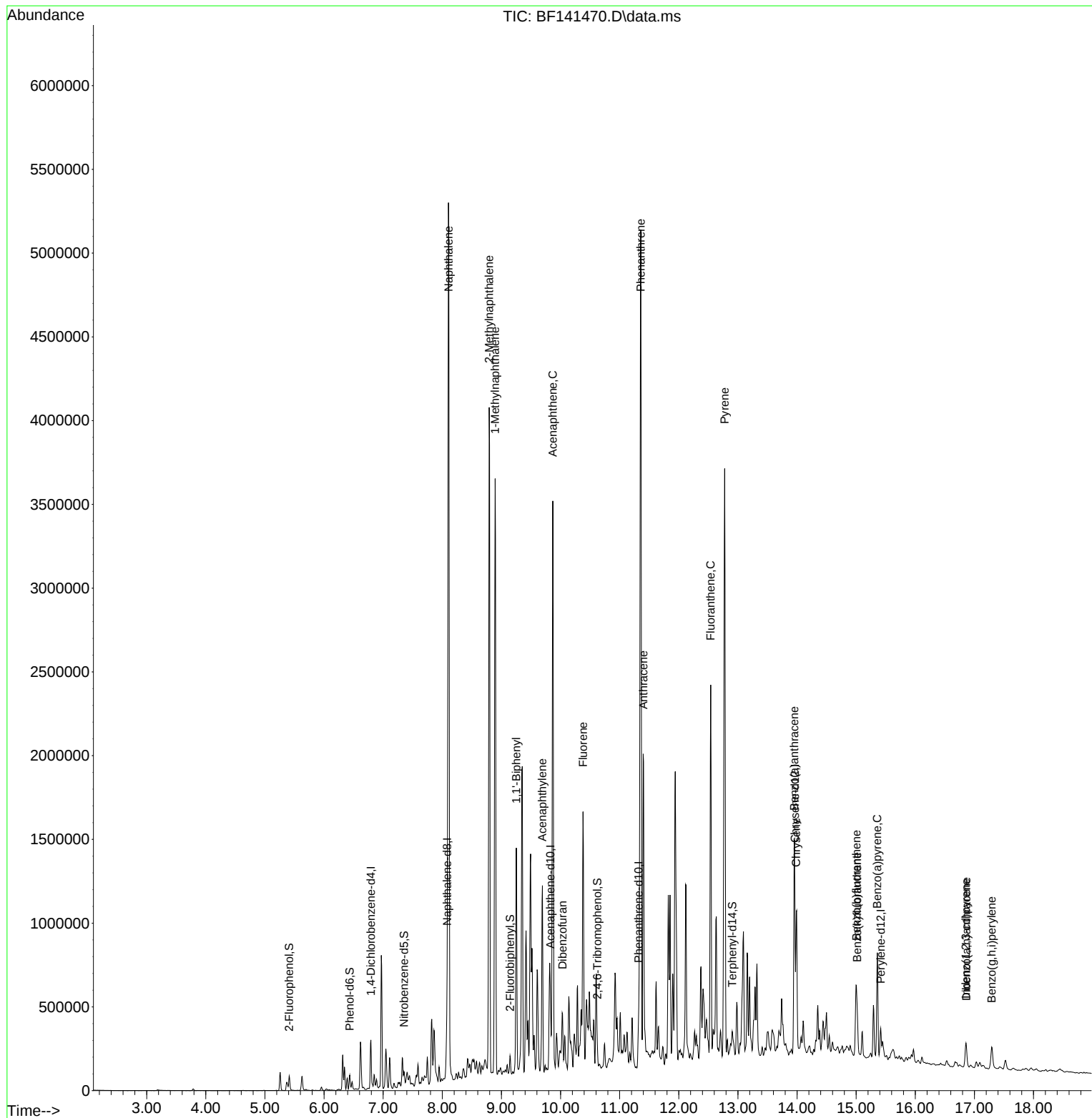
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020525\
Data File : BF141470.D
Acq On : 06 Feb 2025 01:26
Operator : RC/JU
Sample : Q1285-01 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

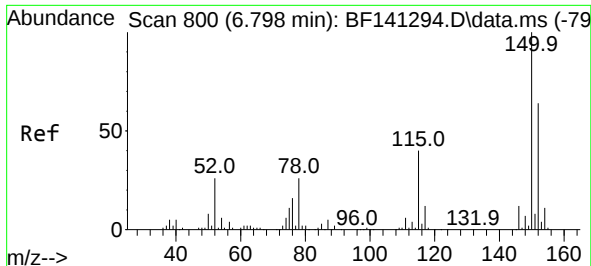
Instrument :
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ClientSampleId :
72-11977

Manual Integrations
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Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025

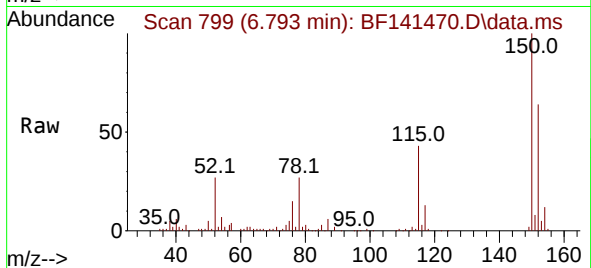
Quant Time: Feb 06 03:56:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.793 min Scan# 79
Delta R.T. -0.011 min
Lab File: BF141470.D
Acq: 06 Feb 2025 01:26

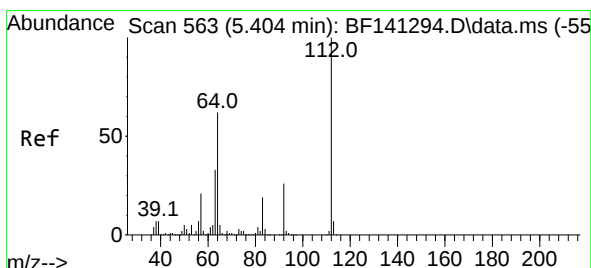
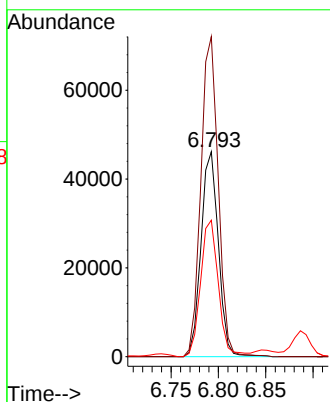
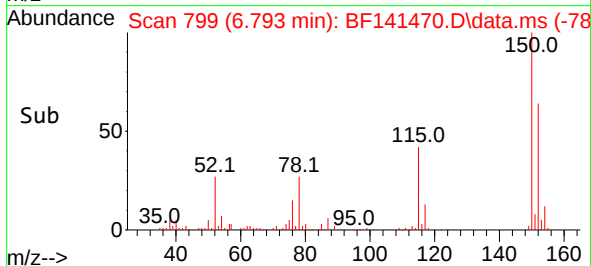
Instrument :
BNA_F
ClientSampleId :
72-11977



Tgt Ion:152 Resp: 58830
Ion Ratio Lower Upper
152 100
150 156.1 125.9 188.9
115 66.6 49.7 74.5

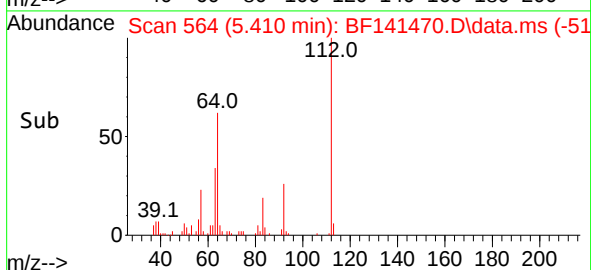
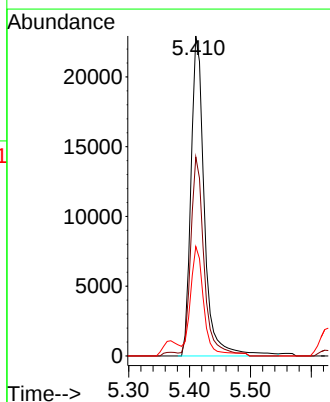
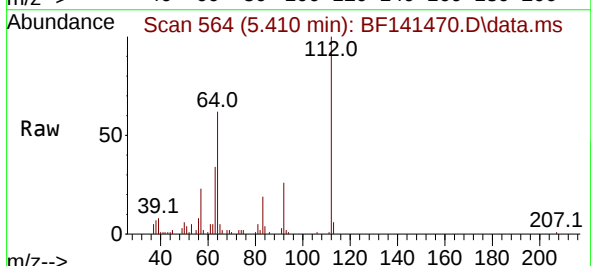
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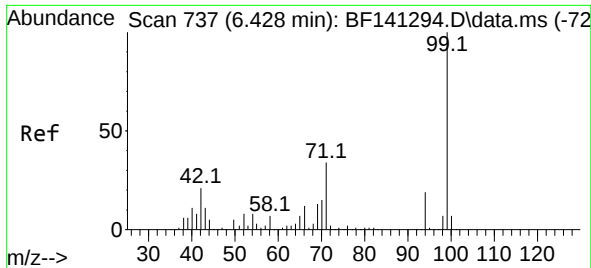
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#5
2-Fluorophenol
Concen: 9.169 ng
RT: 5.410 min Scan# 564
Delta R.T. -0.000 min
Lab File: BF141470.D
Acq: 06 Feb 2025 01:26

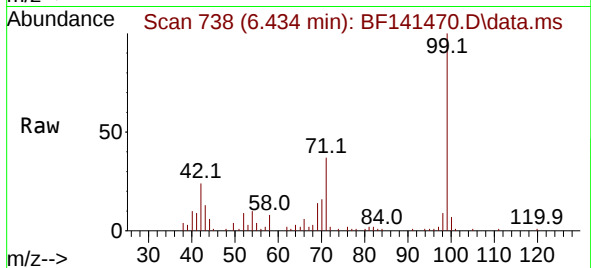
Tgt Ion:112 Resp: 35138
Ion Ratio Lower Upper
112 100
64 62.2 49.8 74.8
63 34.2 26.1 39.1





#7
Phenol-d6
Concen: 8.455 ng
RT: 6.434 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF141470.D
Acq: 06 Feb 2025 01:26

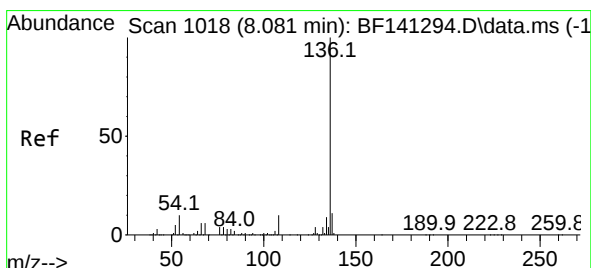
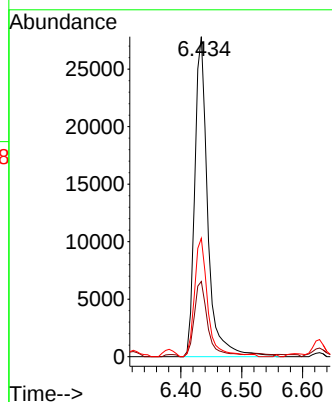
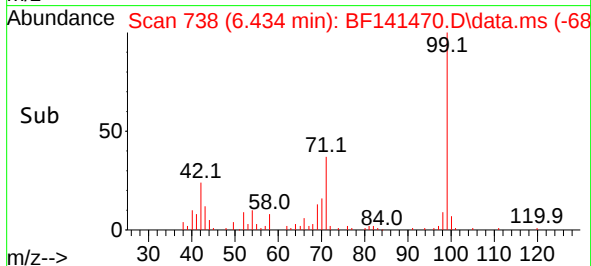
Instrument :
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ClientSampleId :
72-11977



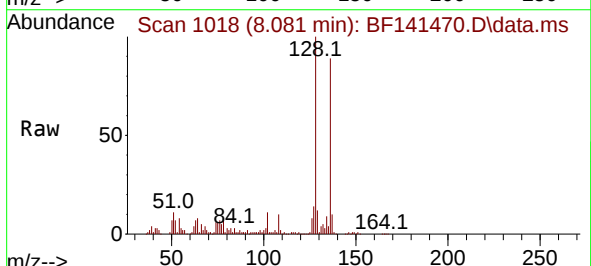
Tgt Ion: 99 Resp: 4122
Ion Ratio Lower Upper
99 100
42 23.5 17.1 25.7
71 37.0 26.9 40.3

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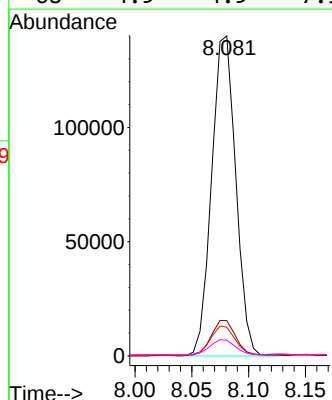
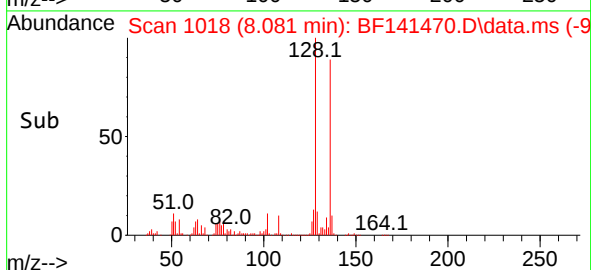
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025

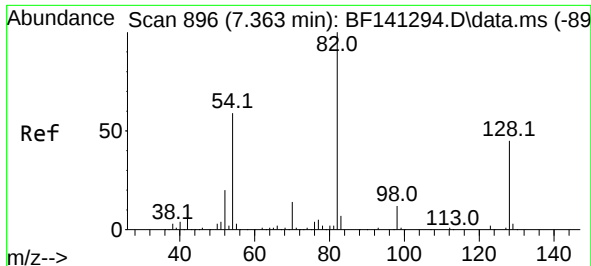


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.081 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF141470.D
Acq: 06 Feb 2025 01:26



Tgt Ion:136 Resp: 207277
Ion Ratio Lower Upper
136 100
137 11.1 8.6 13.0
54 9.0 7.8 11.8
68 4.9 4.9 7.3





#23

Nitrobenzene-d5

Concen: 6.337 ng

RT: 7.351 min Scan# 894

Delta R.T. -0.018 min

Lab File: BF141470.D

Acq: 06 Feb 2025 01:26

Instrument :

BNA_F

ClientSampleId :

72-11977

Tgt Ion: 82 Resp: 2491

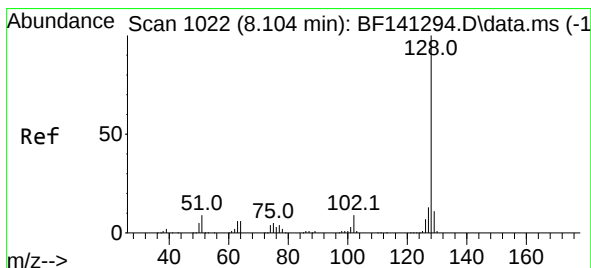
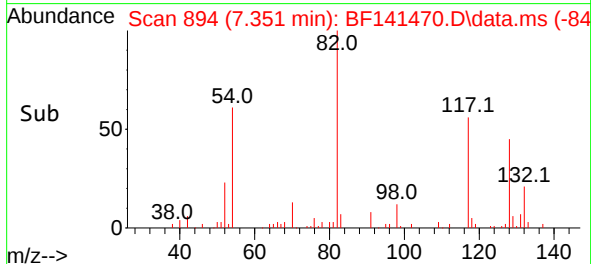
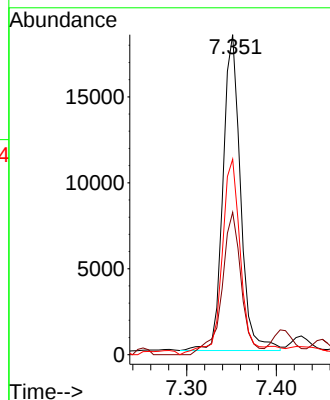
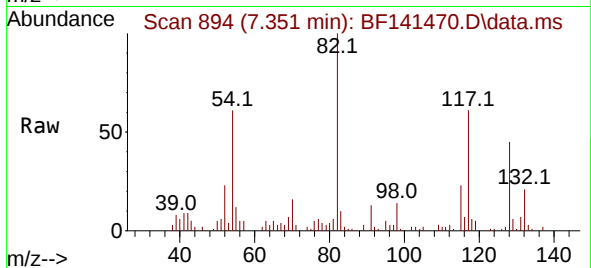
Ion	Ratio	Lower	Upper
82	100		
128	44.5	35.7	53.5
54	61.1	47.1	70.7

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#31

Naphthalene

Concen: 338.645 ng

RT: 8.104 min Scan# 1022

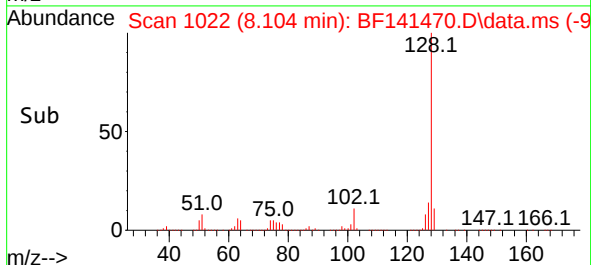
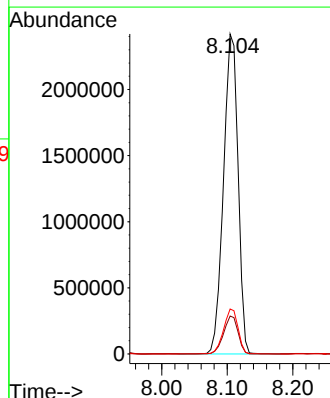
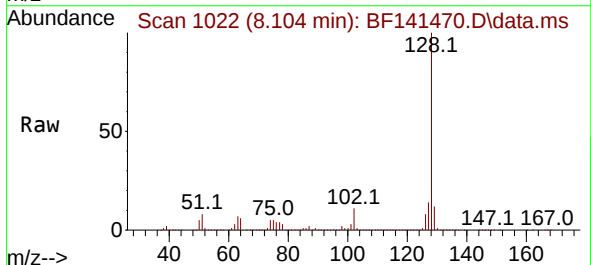
Delta R.T. -0.006 min

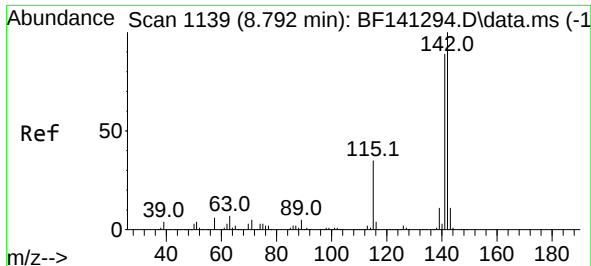
Lab File: BF141470.D

Acq: 06 Feb 2025 01:26

Tgt Ion:128 Resp: 3708127

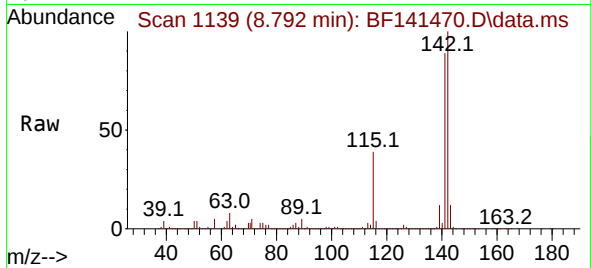
Ion	Ratio	Lower	Upper
128	100		
129	11.9	8.9	13.3
127	14.0	10.6	15.8





#37
2-Methylnaphthalene
Concen: 233.035 ng
RT: 8.792 min Scan# 1139
Delta R.T. -0.006 min
Lab File: BF141470.D
Acq: 06 Feb 2025 01:26

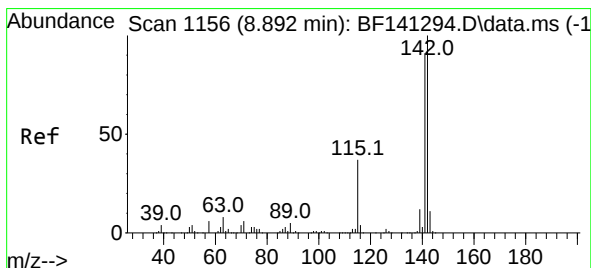
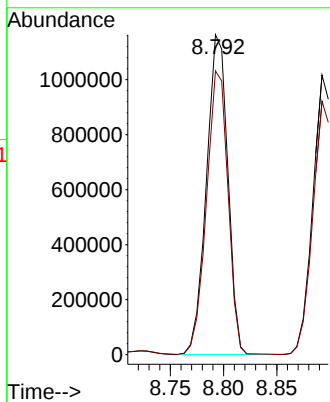
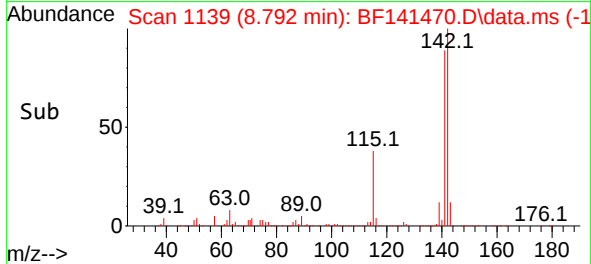
Instrument :
BNA_F
ClientSampleId :
72-11977



Tgt Ion:142 Resp: 1621820
Ion Ratio Lower Upper
142 100
141 88.7 71.3 106.9

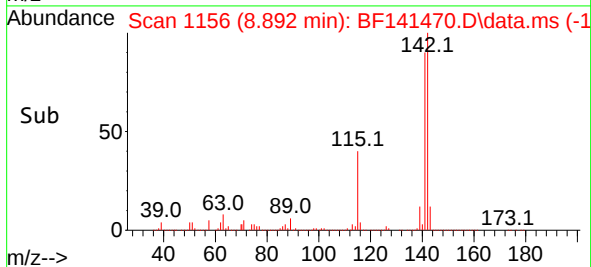
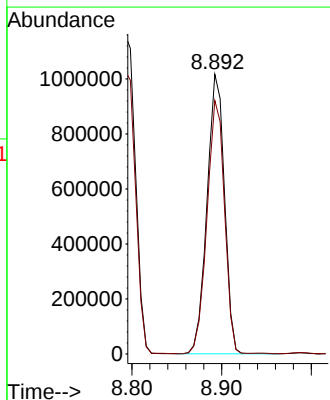
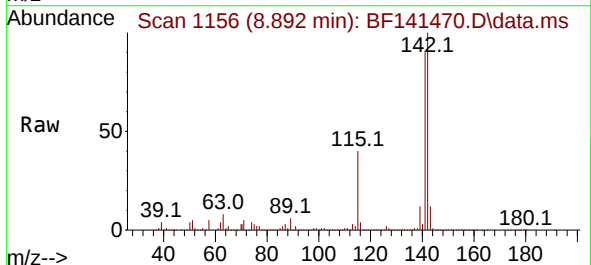
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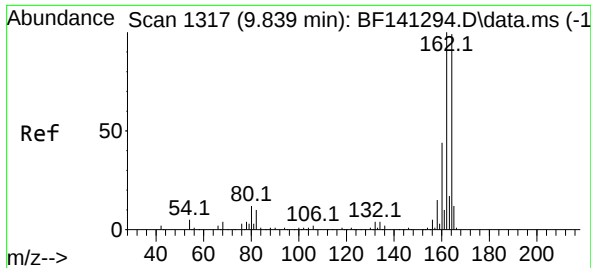
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#38
1-Methylnaphthalene
Concen: 200.653 ng
RT: 8.892 min Scan# 1156
Delta R.T. -0.006 min
Lab File: BF141470.D
Acq: 06 Feb 2025 01:26

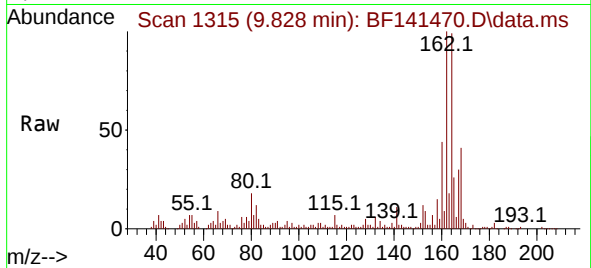
Tgt Ion:142 Resp: 1371754
Ion Ratio Lower Upper
142 100
141 90.6 73.2 109.8





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.828 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141470.D
Acq: 06 Feb 2025 01:26

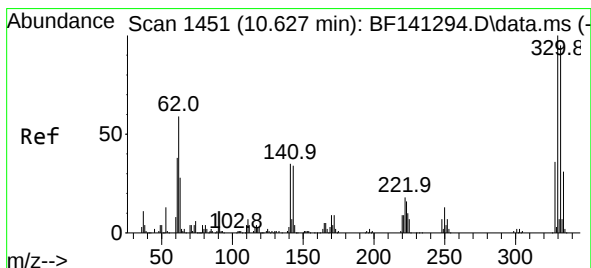
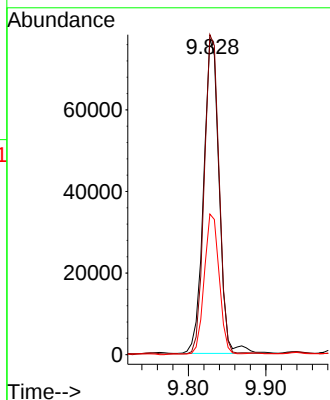
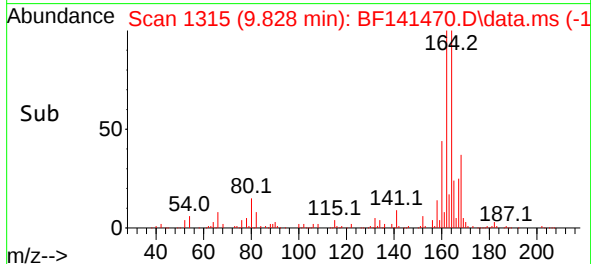
Instrument :
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ClientSampleId :
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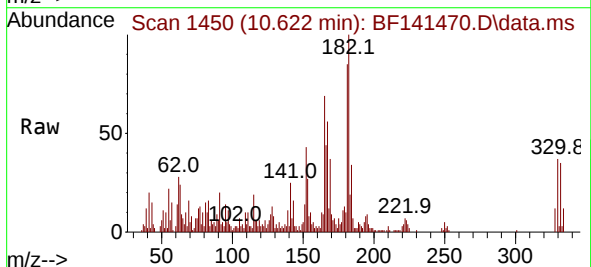
Tgt Ion:164 Resp: 107469
Ion Ratio Lower Upper
164 100
162 101.3 80.6 121.0
160 44.5 35.8 53.6

Manual Integrations
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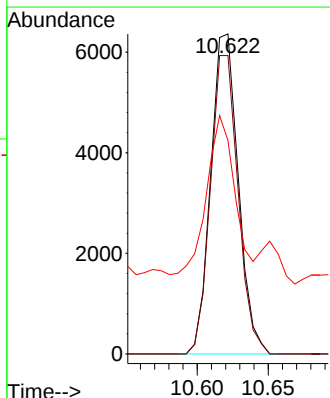
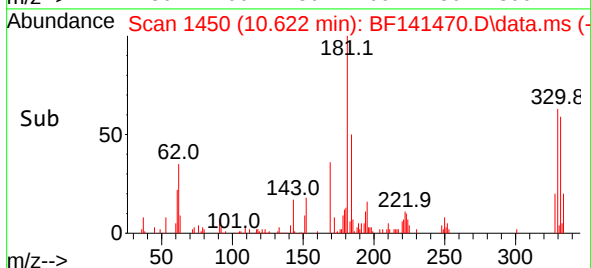
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025

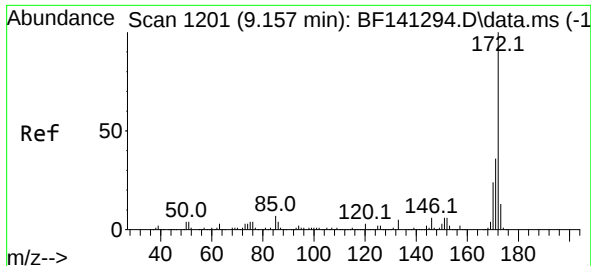


#42
2,4,6-Tribromophenol
Concen: 8.715 ng
RT: 10.622 min Scan# 1450
Delta R.T. -0.012 min
Lab File: BF141470.D
Acq: 06 Feb 2025 01:26



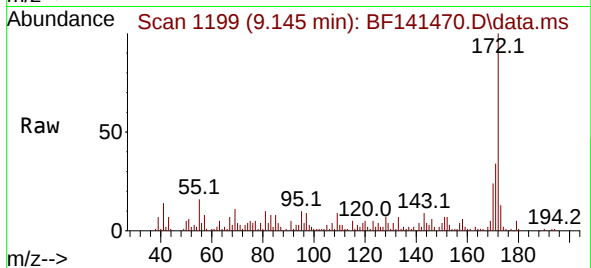
Tgt Ion:330 Resp: 8586
Ion Ratio Lower Upper
330 100
332 93.4 76.1 114.1
141 49.5 28.8 43.2#





#45
2-Fluorobiphenyl
Concen: 6.407 ng
RT: 9.145 min Scan# 1199
Delta R.T. -0.018 min
Lab File: BF141470.D
Acq: 06 Feb 2025 01:26

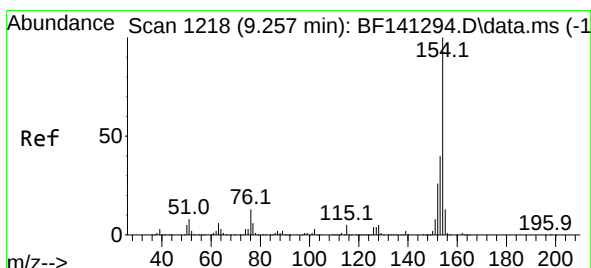
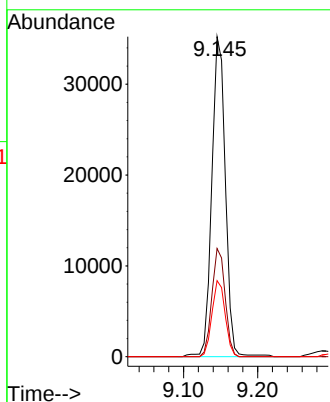
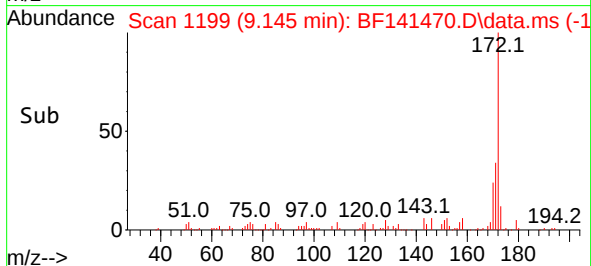
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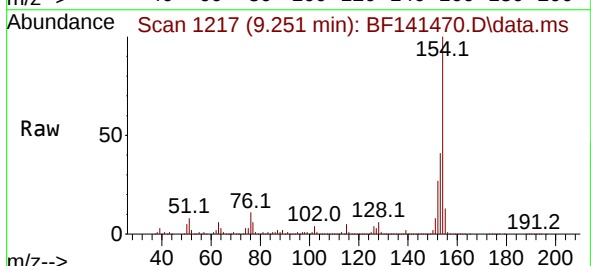
Tgt Ion:172 Resp: 44734
Ion Ratio Lower Upper
172 100
171 33.8 28.8 43.2
170 23.7 19.0 28.6

Manual Integrations
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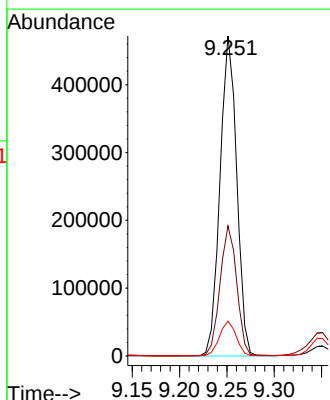
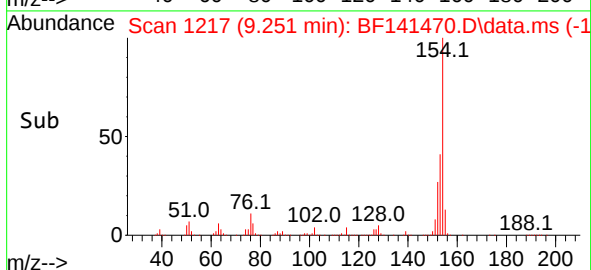
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025

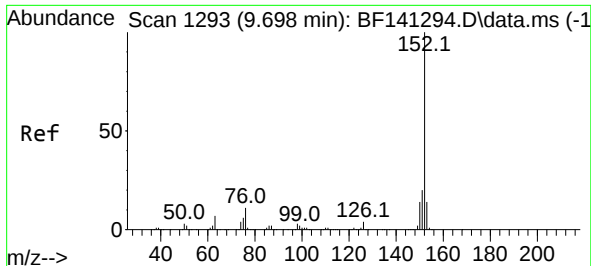


#46
1,1'-Biphenyl
Concen: 69.167 ng
RT: 9.251 min Scan# 1217
Delta R.T. -0.012 min
Lab File: BF141470.D
Acq: 06 Feb 2025 01:26



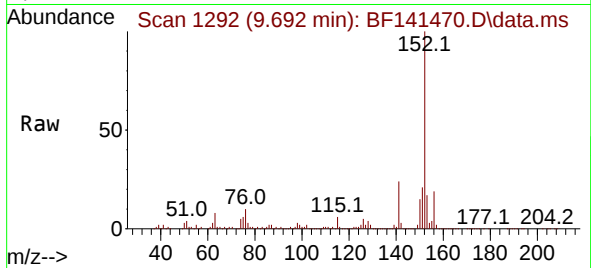
Tgt Ion:154 Resp: 579707
Ion Ratio Lower Upper
154 100
153 40.6 20.0 60.0
76 10.9 0.0 32.8





#49
Acenaphthylene
Concen: 50.562 ng
RT: 9.692 min Scan# 1292
Delta R.T. -0.012 min
Lab File: BF141470.D
Acq: 06 Feb 2025 01:26

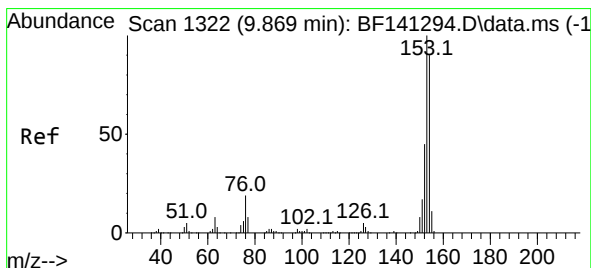
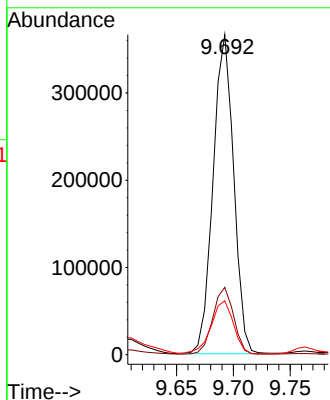
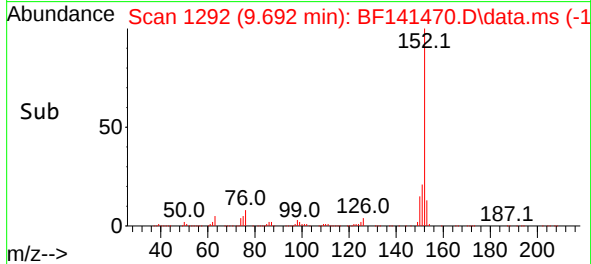
Instrument :
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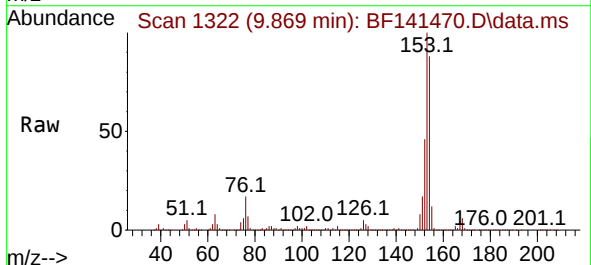
Tgt Ion:152 Resp: 46237
Ion Ratio Lower Upper
152 100
151 21.0 16.2 24.2
153 16.9 11.0 16.6

Manual Integrations
APPROVED

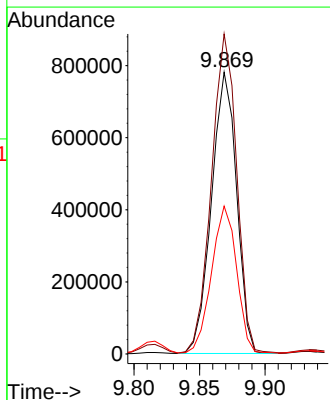
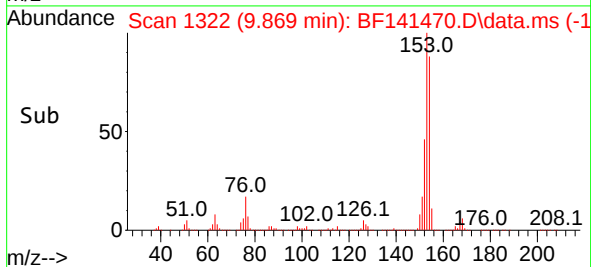
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025

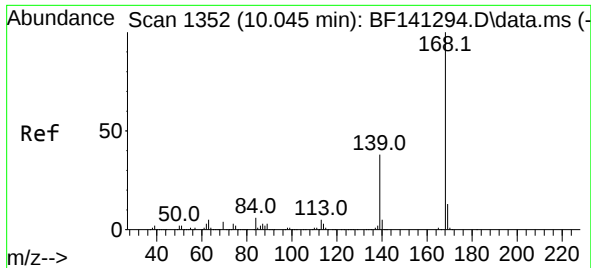


#52
Acenaphthene
Concen: 159.020 ng
RT: 9.869 min Scan# 1322
Delta R.T. -0.006 min
Lab File: BF141470.D
Acq: 06 Feb 2025 01:26



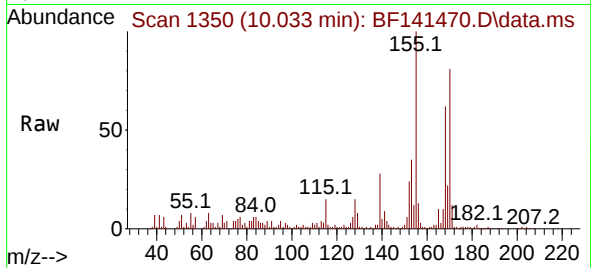
Tgt Ion:154 Resp: 1038872
Ion Ratio Lower Upper
154 100
153 113.6 89.0 133.4
152 52.5 40.2 60.4





#55
Dibenzenofuran
Concen: 5.642 ng
RT: 10.033 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141470.D
Acq: 06 Feb 2025 01:26

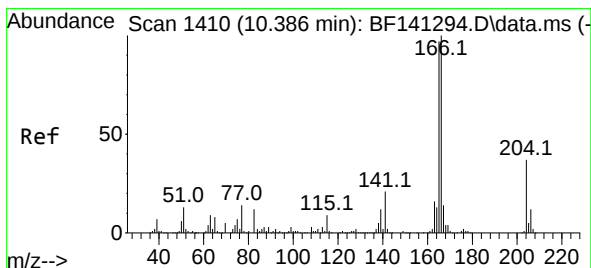
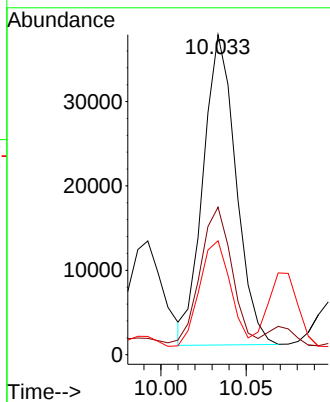
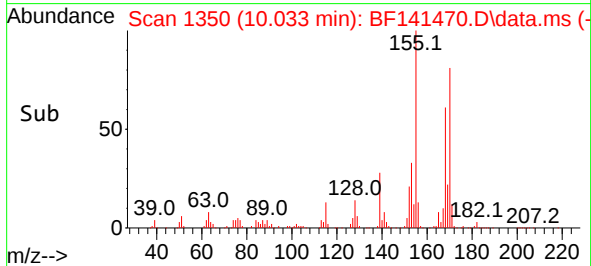
Instrument :
BNA_F
ClientSampleId :
72-11977



Tgt Ion:168 Resp: 49340
Ion Ratio Lower Upper
168 100
139 46.1 30.6 46.0
169 35.6 10.8 16.2

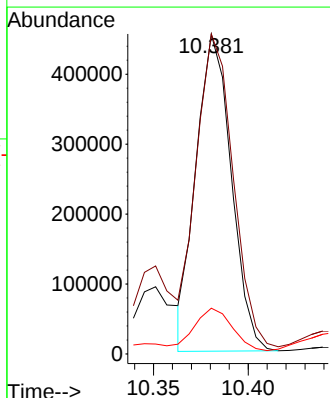
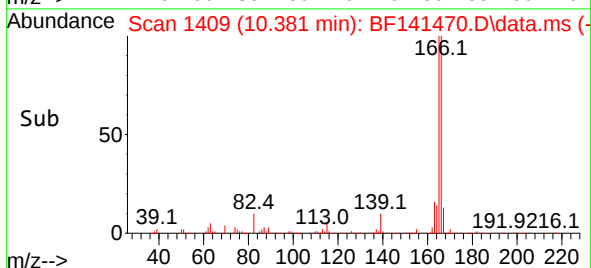
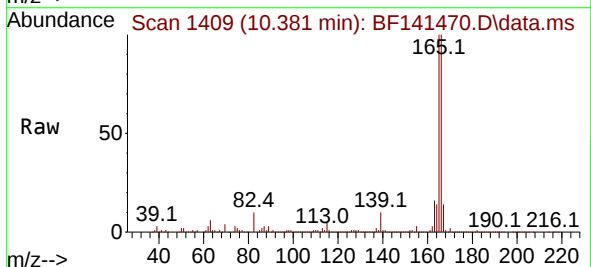
Manual Integrations
APPROVED

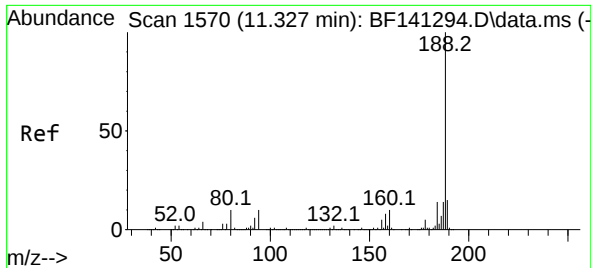
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#58
Fluorene
Concen: 86.331 ng
RT: 10.381 min Scan# 1409
Delta R.T. -0.012 min
Lab File: BF141470.D
Acq: 06 Feb 2025 01:26

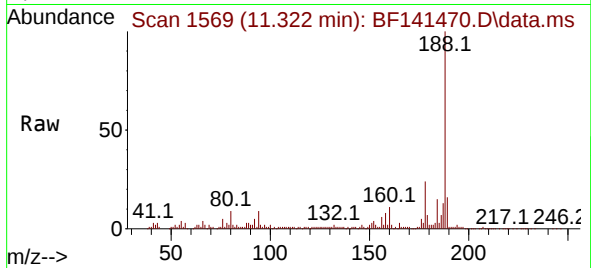
Tgt Ion:166 Resp: 585597
Ion Ratio Lower Upper
166 100
165 100.1 77.5 116.3
167 14.3 10.9 16.3





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.322 min Scan# 1569
Delta R.T. -0.006 min
Lab File: BF141470.D
Acq: 06 Feb 2025 01:26

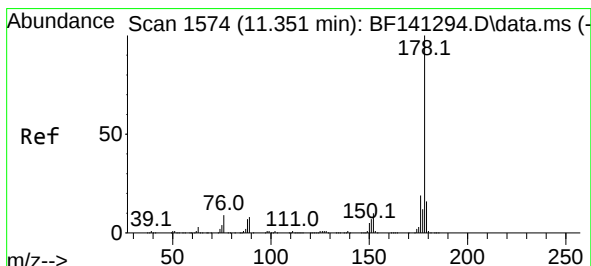
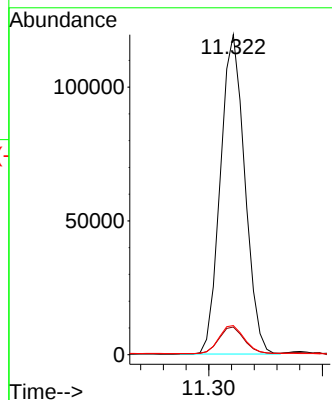
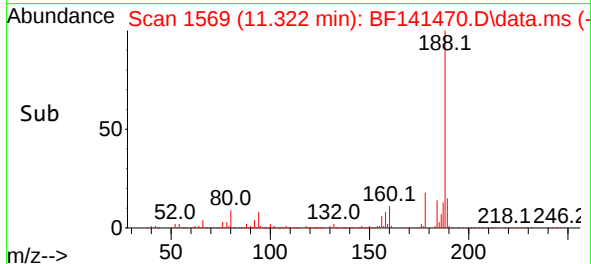
Instrument :
BNA_F
ClientSampleId :
72-11977



Tgt Ion:188 Resp: 178280
Ion Ratio Lower Upper
188 100
94 8.6 7.8 11.6
80 9.1 8.2 12.4

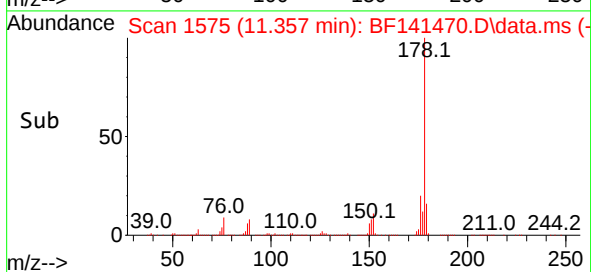
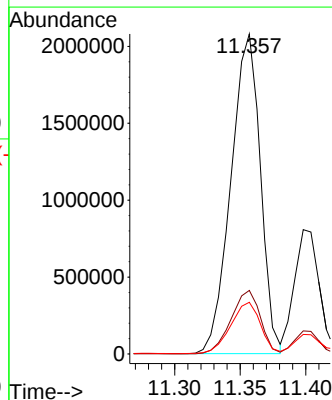
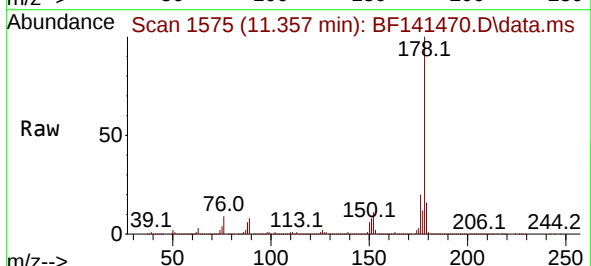
Manual Integrations
APPROVED

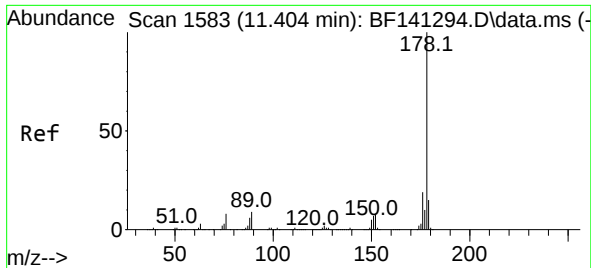
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#71
Phenanthrene
Concen: 339.018 ng
RT: 11.357 min Scan# 1575
Delta R.T. 0.006 min
Lab File: BF141470.D
Acq: 06 Feb 2025 01:26

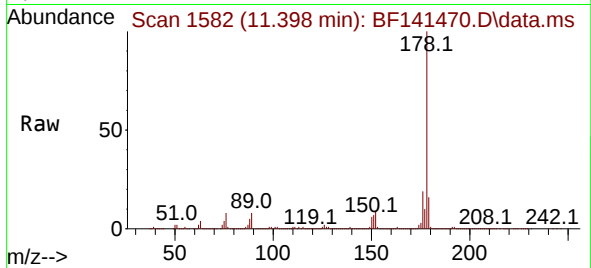
Tgt Ion:178 Resp: 3249013
Ion Ratio Lower Upper
178 100
176 19.8 15.3 22.9
179 16.2 12.5 18.7





#72
 Anthracene
 Concen: 110.951 ng
 RT: 11.398 min Scan# 1583
 Delta R.T. -0.006 min
 Lab File: BF141470.D
 Acq: 06 Feb 2025 01:26

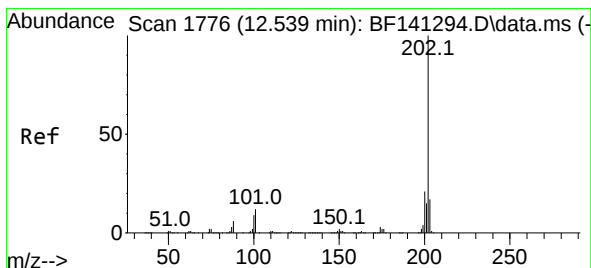
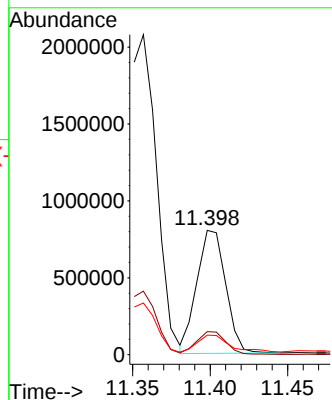
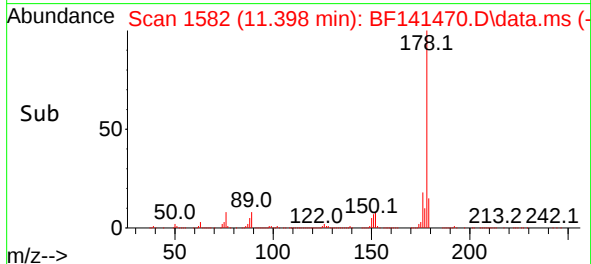
Instrument :
 BNA_F
 ClientSampleId :
 72-11977



Tgt Ion:178 Resp: 104185
 Ion Ratio Lower Upper
 178 100
 176 18.6 15.0 22.6
 179 15.7 12.3 18.5

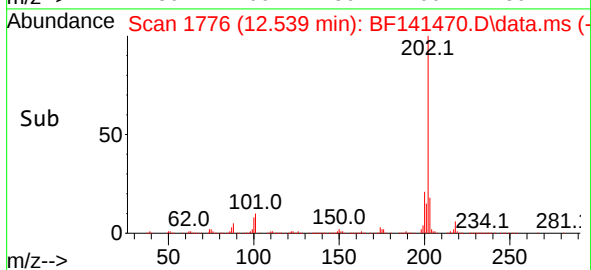
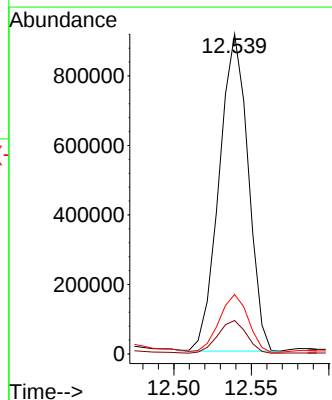
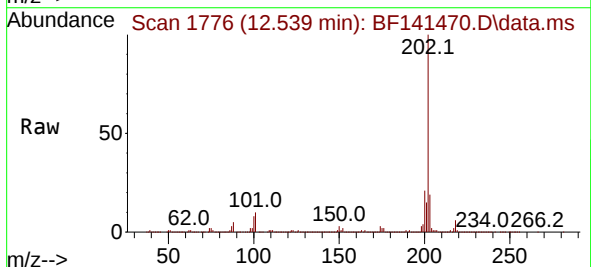
Manual Integrations
 APPROVED

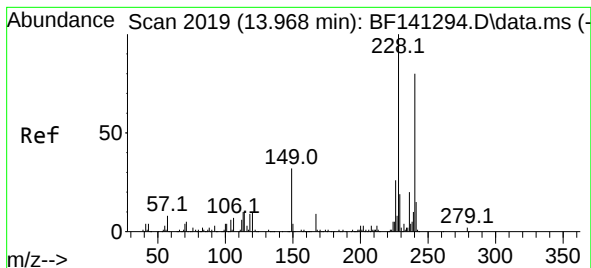
Reviewed By :Yogesh Patel 02/06/2025
 Supervised By :mohammad ahmed 02/06/2025



#75
 Fluoranthene
 Concen: 125.356 ng
 RT: 12.539 min Scan# 1776
 Delta R.T. -0.000 min
 Lab File: BF141470.D
 Acq: 06 Feb 2025 01:26

Tgt Ion:202 Resp: 1186209
 Ion Ratio Lower Upper
 202 100
 101 10.5 0.0 31.7
 203 18.6 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.963 min Scan# 2019

Delta R.T. -0.012 min

Lab File: BF141470.D

Acq: 06 Feb 2025 01:26

Instrument :

BNA_F

ClientSampleId :

72-11977

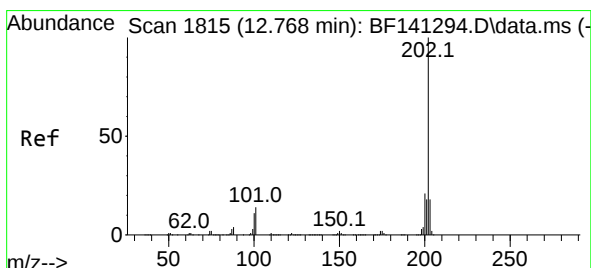
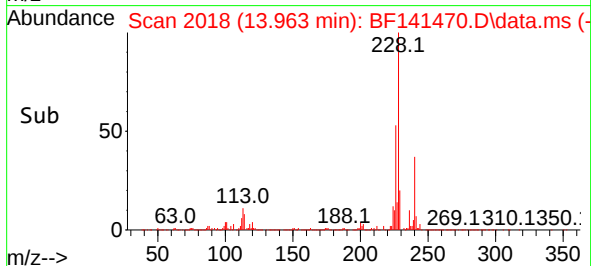
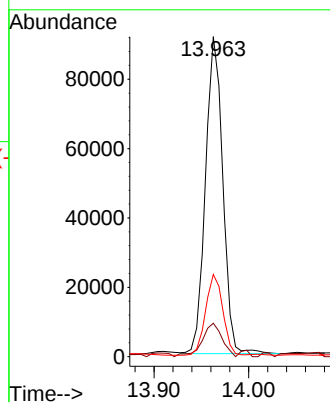
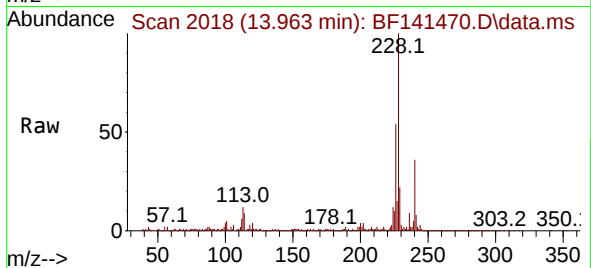
Tgt Ion:240 Resp: 11630
 Ion Ratio Lower Upper
 240 100
 120 10.4 10.0 15.0
 236 25.7 19.7 29.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#78

Pyrene

Concen: 198.090 ng

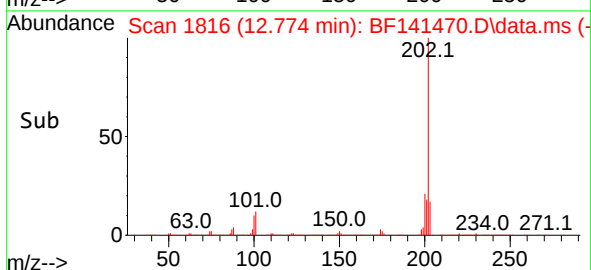
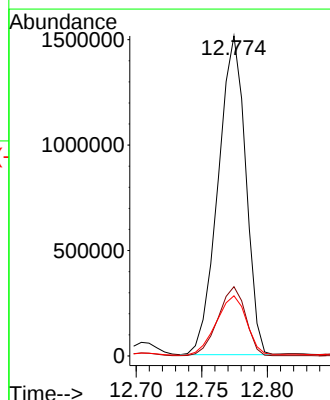
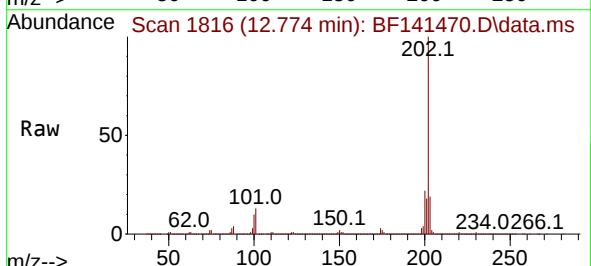
RT: 12.774 min Scan# 1816

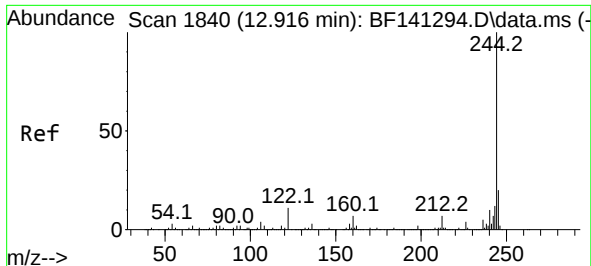
Delta R.T. 0.006 min

Lab File: BF141470.D

Acq: 06 Feb 2025 01:26

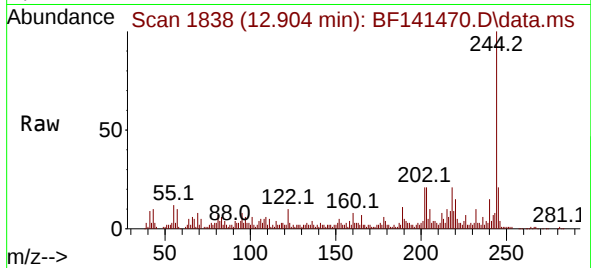
Tgt Ion:202 Resp: 2211510
 Ion Ratio Lower Upper
 202 100
 200 21.6 17.0 25.4
 203 18.8 14.3 21.5





#79
Terphenyl-d14
Concen: 6.773 ng
RT: 12.904 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141470.D
Acq: 06 Feb 2025 01:26

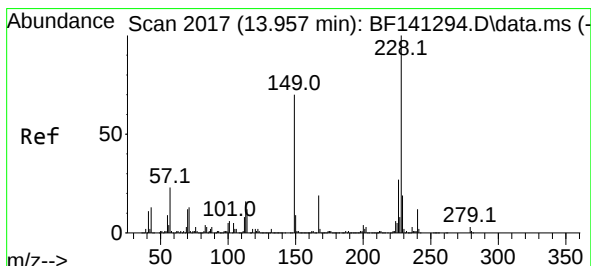
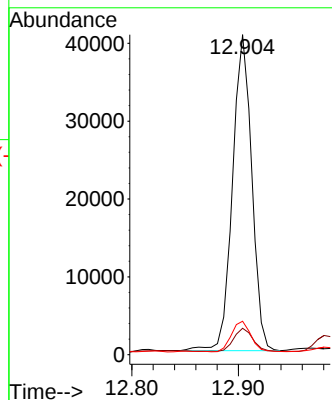
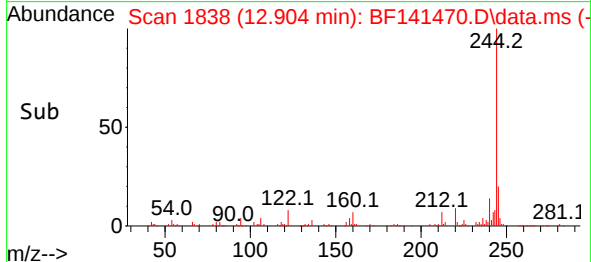
Instrument :
BNA_F
ClientSampleId :
72-11977



Tgt Ion:244 Resp: 51080
Ion Ratio Lower Upper
244 100
212 8.3 5.4 8.0
122 10.4 8.8 13.2

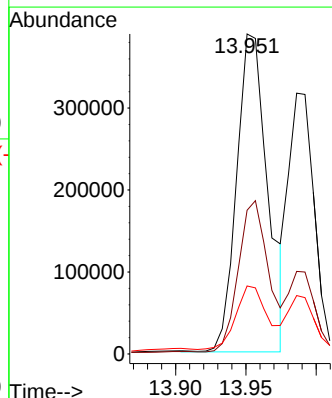
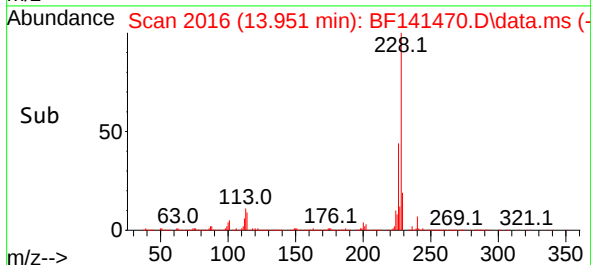
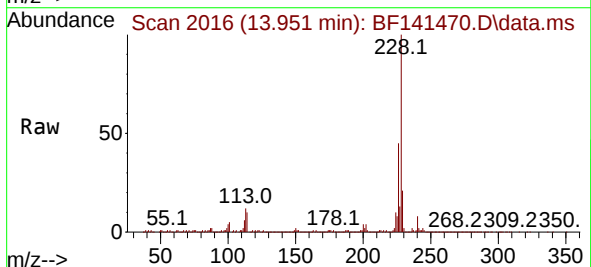
Manual Integrations
APPROVED

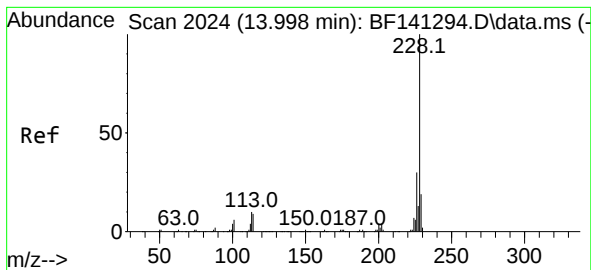
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#81
Benzo(a)anthracene
Concen: 74.372 ng m
RT: 13.951 min Scan# 2016
Delta R.T. -0.012 min
Lab File: BF141470.D
Acq: 06 Feb 2025 01:26

Tgt Ion:228 Resp: 596890
Ion Ratio Lower Upper
228 100
226 44.9 21.4 32.2#
229 21.2 15.5 23.3





#83

Chrysene

Concen: 54.080 ng

RT: 13.986 min Scan# 20

Delta R.T. -0.012 min

Lab File: BF141470.D

Acq: 06 Feb 2025 01:26

Instrument :

BNA_F

ClientSampleId :

72-11977

Tgt Ion:228 Resp: 397778

Ion Ratio Lower Upper

228 100

226 31.7 24.1 36.1

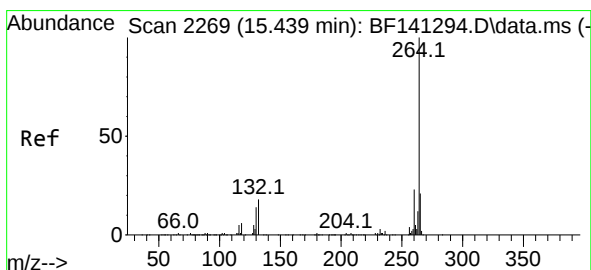
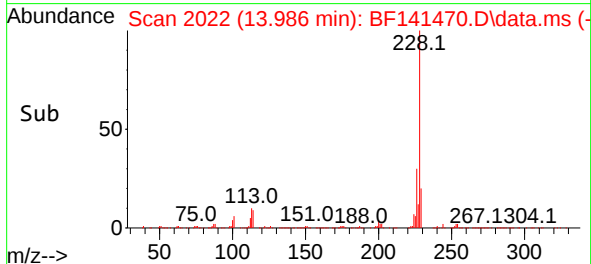
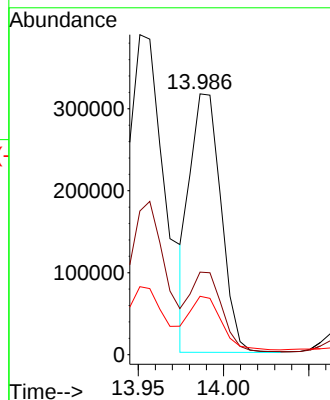
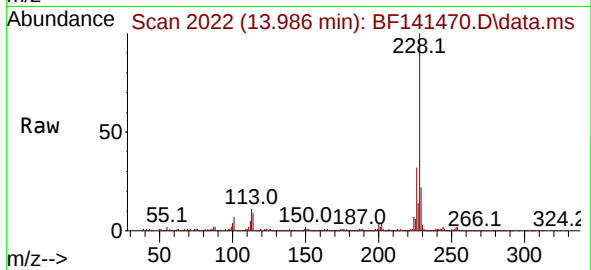
229 22.4 15.6 23.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.415 min Scan# 2265

Delta R.T. -0.024 min

Lab File: BF141470.D

Acq: 06 Feb 2025 01:26

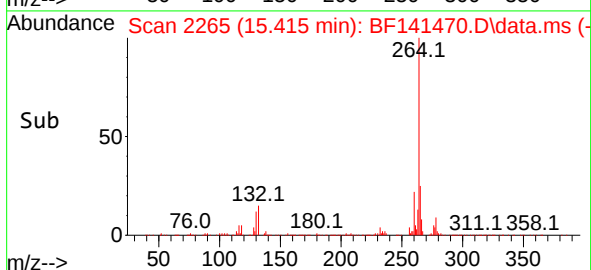
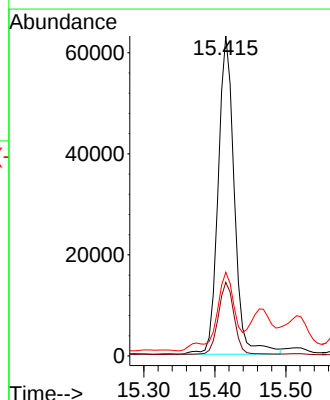
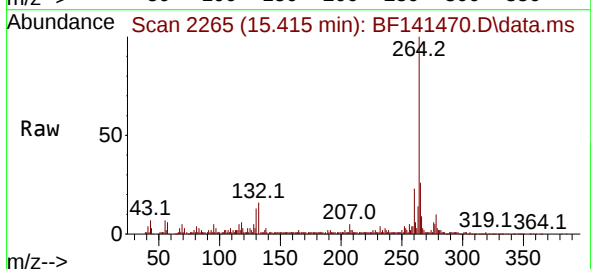
Tgt Ion:264 Resp: 99460

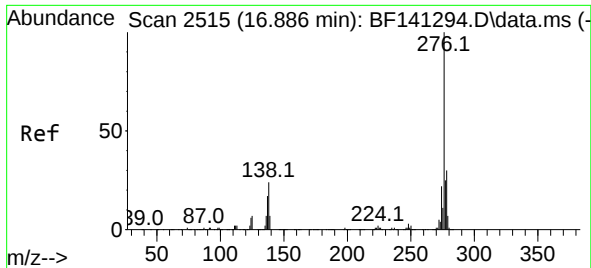
Ion Ratio Lower Upper

264 100

260 23.0 18.6 27.8

265 26.1 16.7 25.1#





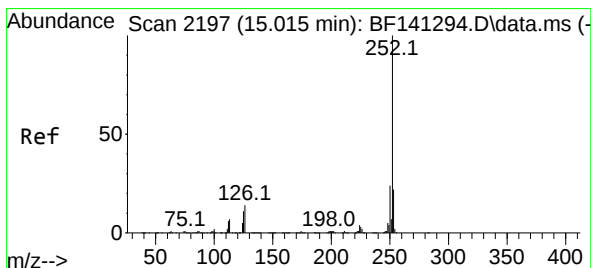
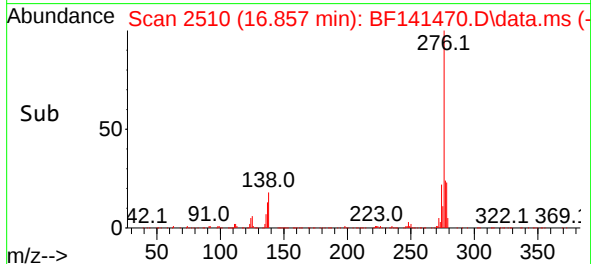
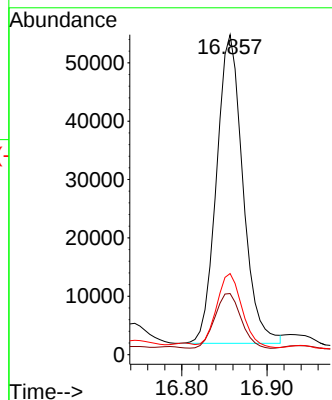
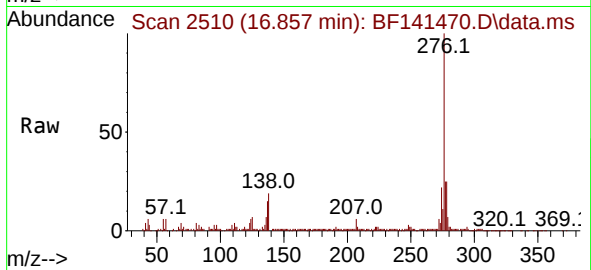
#87
Indeno(1,2,3-cd)pyrene
Concen: 17.708 ng
RT: 16.857 min Scan# 2110
Delta R.T. -0.041 min
Lab File: BF141470.D
Acq: 06 Feb 2025 01:26

Instrument :
BNA_F
ClientSampleId :
72-11977

Tgt Ion:276 Resp: 11367
Ion Ratio Lower Upper
276 100
138 17.9 21.7 32.5
277 23.1 20.3 30.5

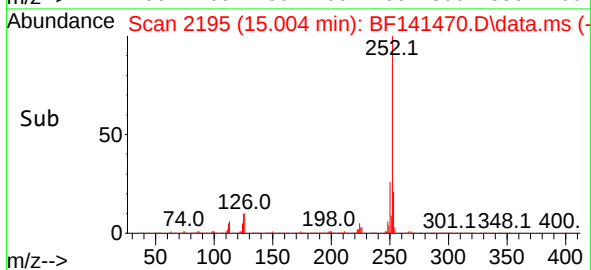
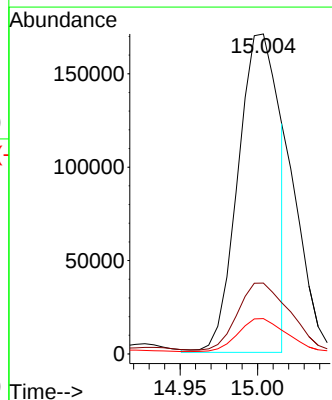
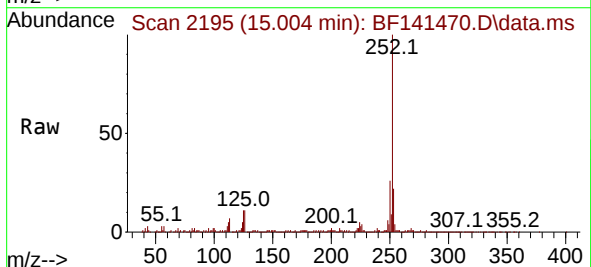
Manual Integrations
APPROVED

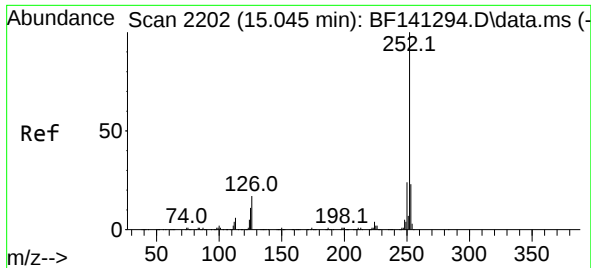
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#88
Benzo(b)fluoranthene
Concen: 50.413 ng m
RT: 15.004 min Scan# 2195
Delta R.T. -0.018 min
Lab File: BF141470.D
Acq: 06 Feb 2025 01:26

Tgt Ion:252 Resp: 315401
Ion Ratio Lower Upper
252 100
253 22.2 17.4 26.2
125 11.1 8.6 12.8





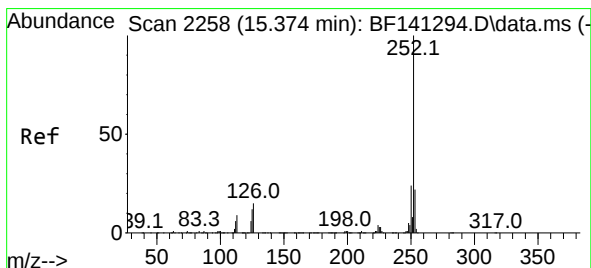
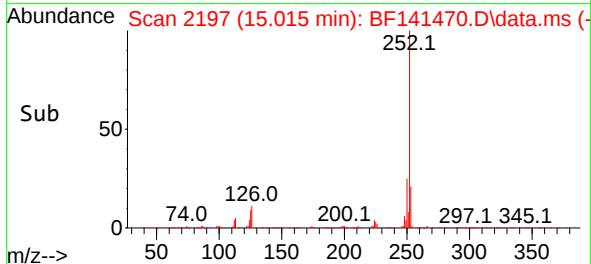
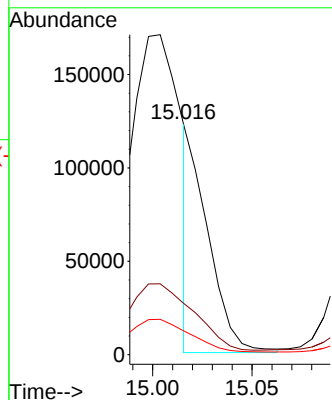
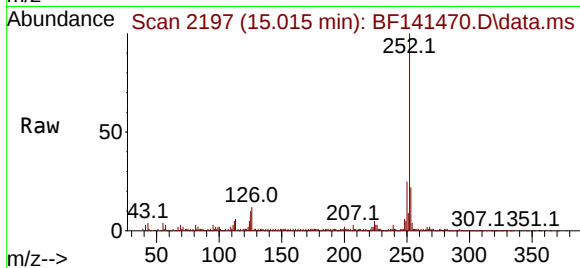
#89
Benzo(k)fluoranthene
Concen: 14.391 ng m
RT: 15.015 min Scan# 2197
Delta R.T. -0.035 min
Lab File: BF141470.D
Acq: 06 Feb 2025 01:26

Instrument :
BNA_F
ClientSampleId :
72-11977

Tgt Ion:252 Resp: 7975
Ion Ratio Lower Upper
252 100
253 22.3 17.6 26.4
125 10.4 8.4 12.6

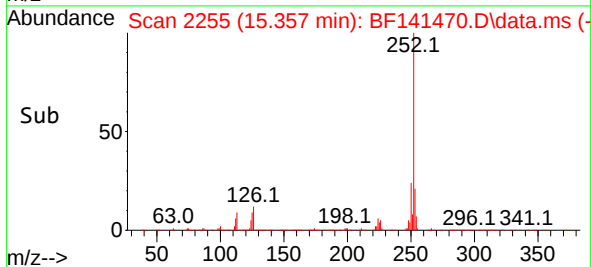
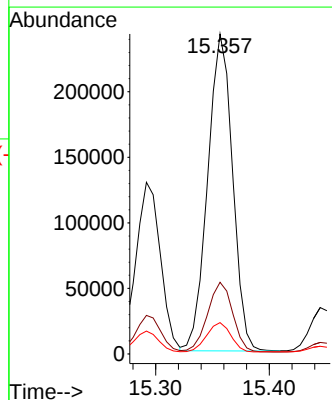
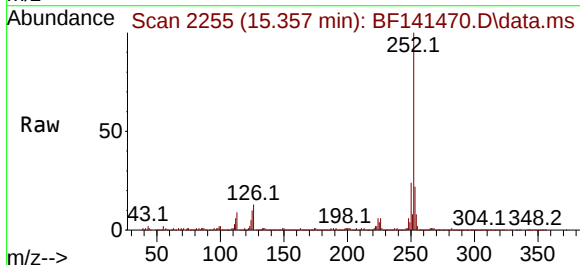
Manual Integrations
APPROVED

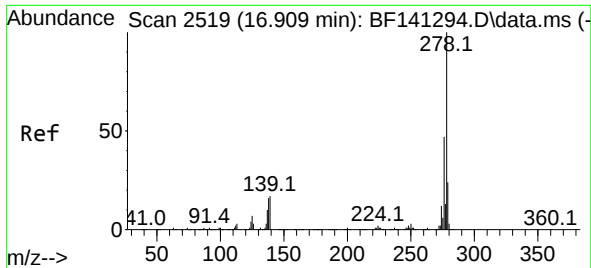
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#90
Benzo(a)pyrene
Concen: 69.674 ng
RT: 15.357 min Scan# 2255
Delta R.T. -0.024 min
Lab File: BF141470.D
Acq: 06 Feb 2025 01:26

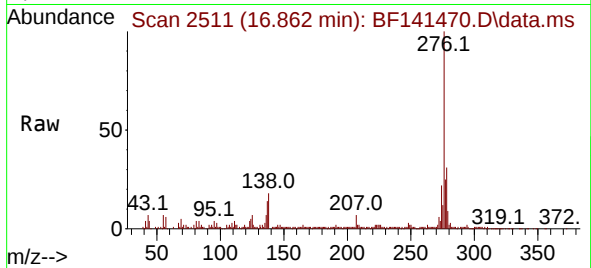
Tgt Ion:252 Resp: 368358
Ion Ratio Lower Upper
252 100
253 22.4 17.2 25.8
125 9.8 9.4 14.2





#91
Dibenzo(a,h)anthracene
Concen: 6.223 ng m
RT: 16.862 min Scan# 2139
Delta R.T. -0.059 min
Lab File: BF141470.D
Acq: 06 Feb 2025 01:26

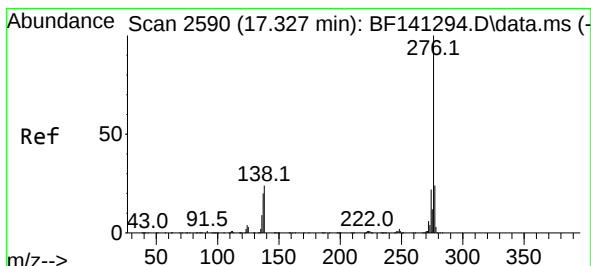
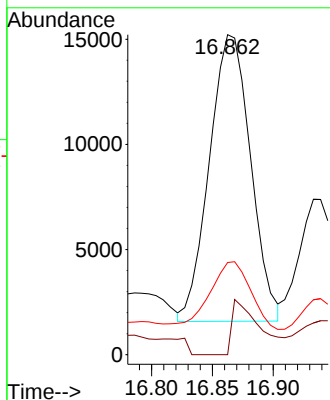
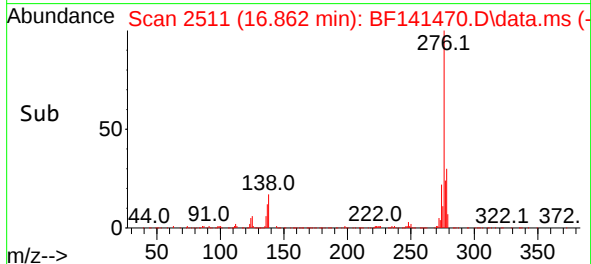
Instrument :
BNA_F
ClientSampleId :
72-11977



Tgt Ion:278 Resp: 32139
Ion Ratio Lower Upper
278 100
139 0.0 13.9 20.9
279 28.8 18.8 28.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#92
Benzo(g,h,i)perylene
Concen: 24.265 ng
RT: 17.292 min Scan# 2584
Delta R.T. -0.053 min
Lab File: BF141470.D
Acq: 06 Feb 2025 01:26

Tgt Ion:276 Resp: 130308
Ion Ratio Lower Upper
276 100
277 24.6 19.2 28.8
138 19.5 19.0 28.4

