

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020725\
 Data File : BF141512.D
 Acq On : 07 Feb 2025 17:16
 Operator : RC/JU
 Sample : Q1288-01
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HR-01-020425

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 02/10/2025
 Supervised By :mohammad ahmed 02/12/2025

Quant Time: Feb 07 22:22:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 16:58:59 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.787	152	86438	20.000	ng	0.00
21) Naphthalene-d8	8.069	136	316955	20.000	ng	# 0.00
39) Acenaphthene-d10	9.828	164	165877	20.000	ng	0.00
64) Phenanthrene-d10	11.316	188	245887	20.000	ng	# 0.00
76) Chrysene-d12	13.963	240	174332	20.000	ng	0.00
86) Perylene-d12	15.427	264	148388	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.410	112	628022	113.906	ng	0.00
7) Phenol-d6	6.428	99	793830	113.915	ng	-0.01
23) Nitrobenzene-d5	7.351	82	526176	86.588	ng	-0.01
42) 2,4,6-Tribromophenol	10.622	330	181175	108.728	ng	0.00
45) 2-Fluorobiphenyl	9.151	172	908402	84.371	ng	0.00
79) Terphenyl-d14	12.904	244	795940	77.076	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.092	128	82776	5.017	ng	# 85
37) 2-Methylnaphthalene	8.786	142	101828	9.484	ng	98
38) 1-Methylnaphthalene	8.886	142	72121	6.936	ng	92
46) 1,1'-Biphenyl	9.245	154	47966	3.730	ng	98
52) Acenaphthene	9.863	154	58652	6.168	ng	# 87
55) Dibenzofuran	10.033	168	47922	3.433	ng	# 70
58) Fluorene	10.375	166	69041	6.397	ng	# 86
71) Phenanthrene	11.345	178	902556	66.683	ng	99
72) Anthracene	11.392	178	175237	12.879	ng	97
73) Carbazole	11.545	167	60891	4.974	ng	# 81
75) Fluoranthene	12.539	202	1234152	86.005	ng	99
78) Pyrene	12.763	202	1123120	75.680	ng	98
81) Benzo(a)anthracene	13.951	228	558795	48.220	ng	98
83) Chrysene	13.986	228	479197	44.784	ng	97
84) Bis(2-ethylhexyl)phtha...	13.939	149	12305	2.122	ng	# 90
87) Indeno(1,2,3-cd)pyrene	16.868	276	159936	17.444	ng	97
88) Benzo(b)fluoranthene	15.010	252	464902m	46.660	ng	
89) Benzo(k)fluoranthene	15.021	252	192668m	22.646	ng	
90) Benzo(a)pyrene	15.368	252	328485	40.744	ng	96
91) Dibenzo(a,h)anthracene	16.874	278	44450	5.983	ng	# 86
92) Benzo(g,h,i)perylene	17.304	276	147632	18.989	ng	99

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

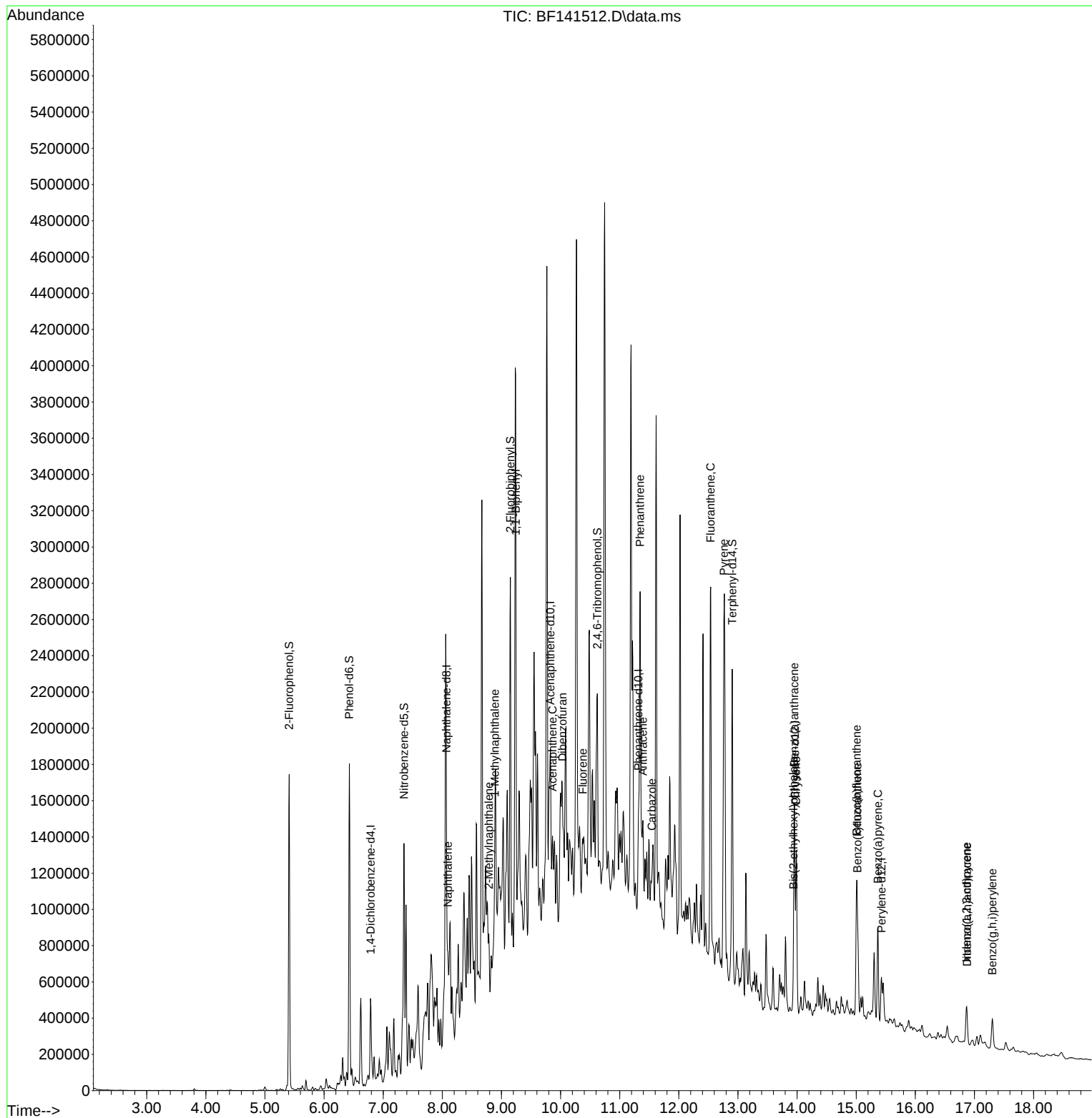
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020725\
Data File : BF141512.D
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
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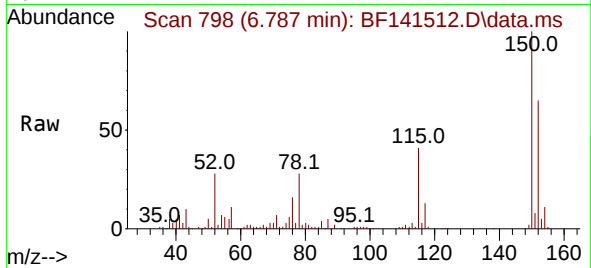
Reviewed By :Rahul Chavli 02/10/2025
Supervised By :mohammad ahmed 02/12/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 798
Delta R.T. -0.005 min
Lab File: BF141512.D
Acq: 07 Feb 2025 17:16

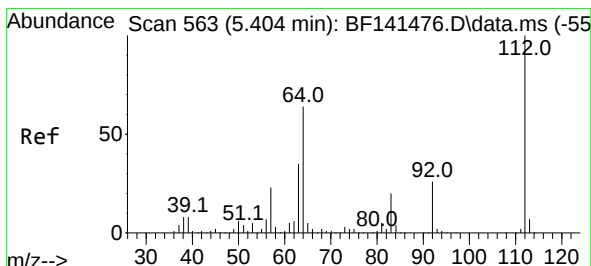
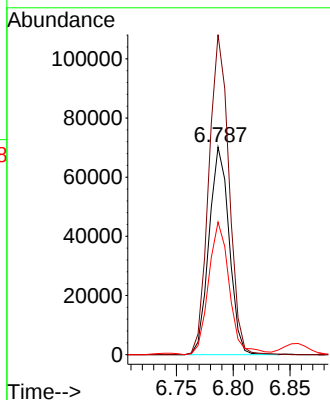
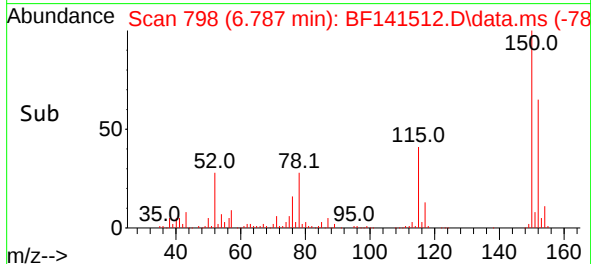
Instrument :
BNA_F
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HR-01-020425



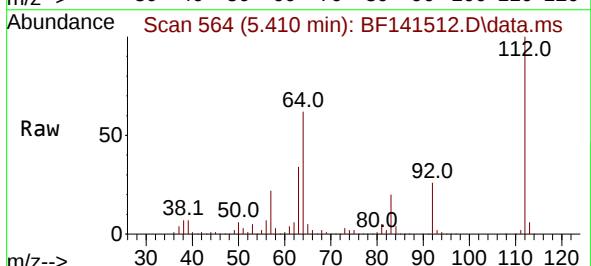
Tgt Ion:152 Resp: 86438
Ion Ratio Lower Upper
152 100
150 154.0 125.0 187.4
115 63.8 53.6 80.4

Manual Integrations
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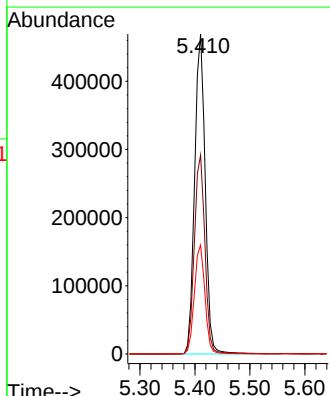
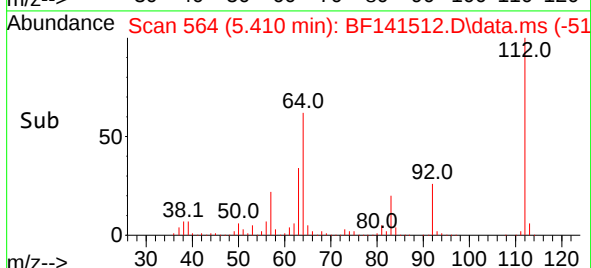
Reviewed By :Rahul Chavli 02/10/2025
Supervised By :mohammad ahmed 02/12/2025



#5
2-Fluorophenol
Concen: 113.906 ng
RT: 5.410 min Scan# 564
Delta R.T. 0.000 min
Lab File: BF141512.D
Acq: 07 Feb 2025 17:16



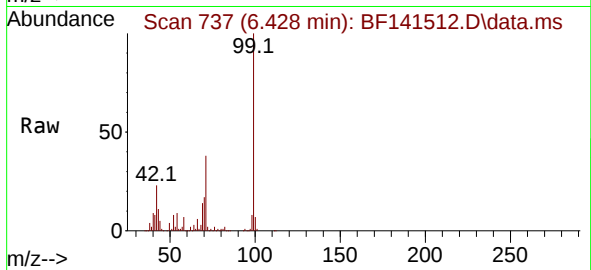
Tgt Ion:112 Resp: 628022
Ion Ratio Lower Upper
112 100
64 62.2 51.1 76.7
63 34.1 28.4 42.6





#7
Phenol-d6
Concen: 113.915 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF141512.D
Acq: 07 Feb 2025 17:16

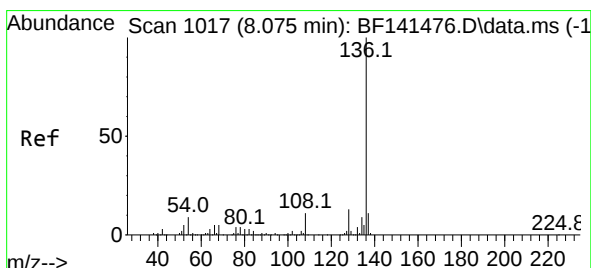
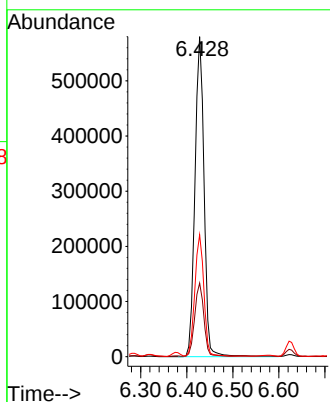
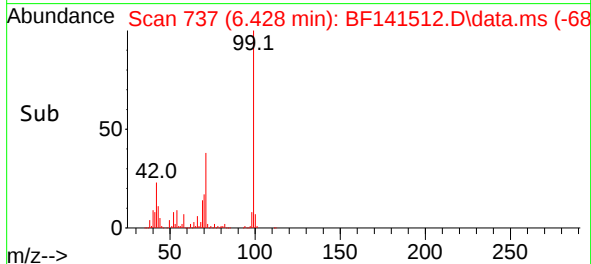
Instrument :
BNA_F
ClientSampleId :
HR-01-020425



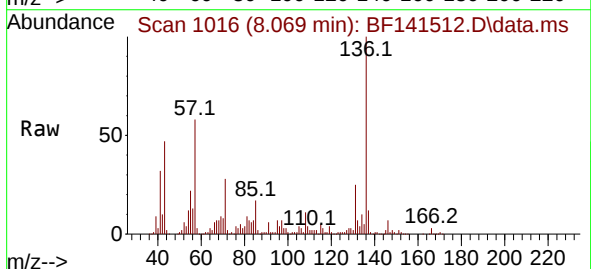
Tgt Ion: 99 Resp: 793830
Ion Ratio Lower Upper
99 100
42 23.0 19.1 28.7
71 38.1 31.1 46.7

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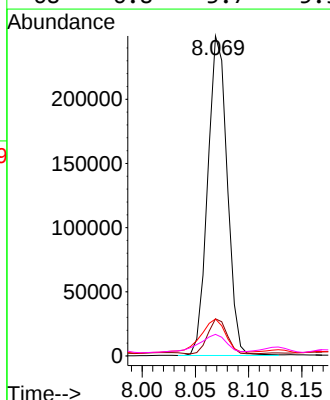
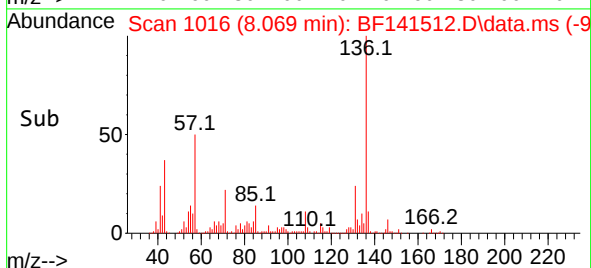
Reviewed By :Rahul Chavli 02/10/2025
Supervised By :mohammad ahmed 02/12/2025

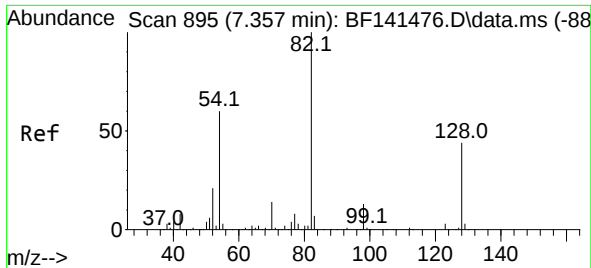


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1016
Delta R.T. -0.006 min
Lab File: BF141512.D
Acq: 07 Feb 2025 17:16



Tgt Ion:136 Resp: 316955
Ion Ratio Lower Upper
136 100
137 11.6 8.6 13.0
54 11.6 7.2 10.8#
68 6.8 3.7 5.5#





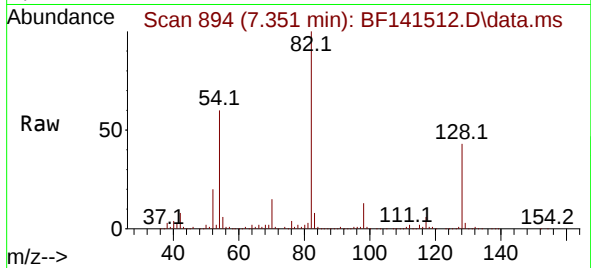
#23
Nitrobenzene-d5
Concen: 86.588 ng
RT: 7.351 min Scan# 894
Delta R.T. -0.012 min
Lab File: BF141512.D
Acq: 07 Feb 2025 17:16

Instrument :

BNA_F

ClientSampleId :

HR-01-020425

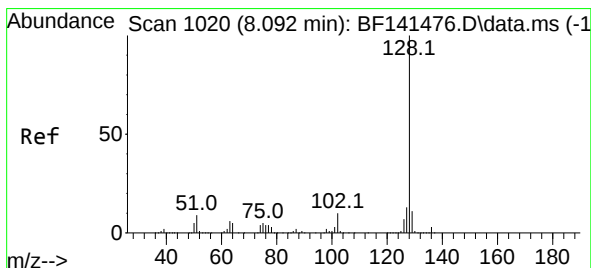
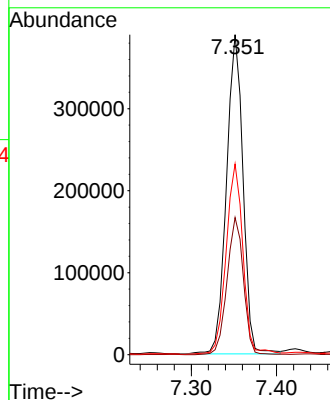
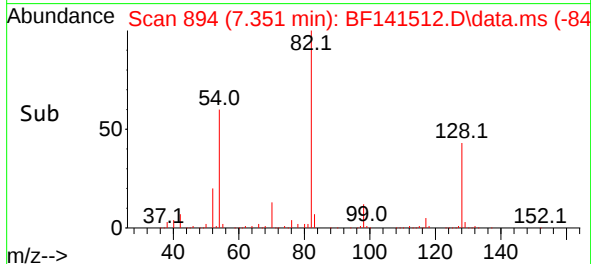


Tgt Ion: 82 Resp: 526170
Ion Ratio Lower Upper
82 100
128 42.9 34.8 52.2
54 59.6 48.2 72.4

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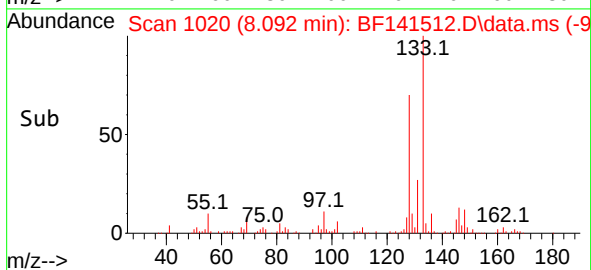
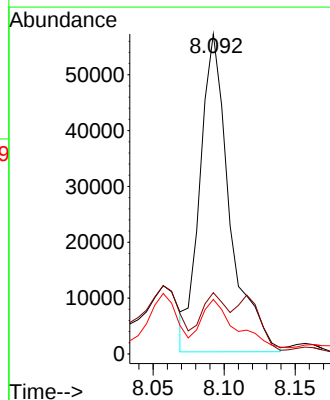
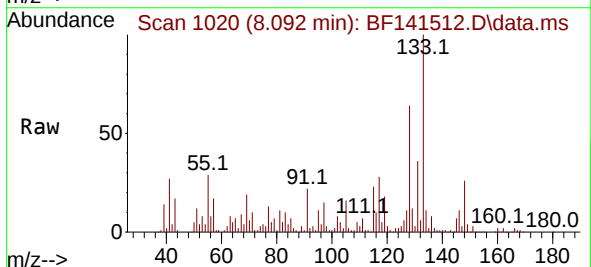
APPROVED

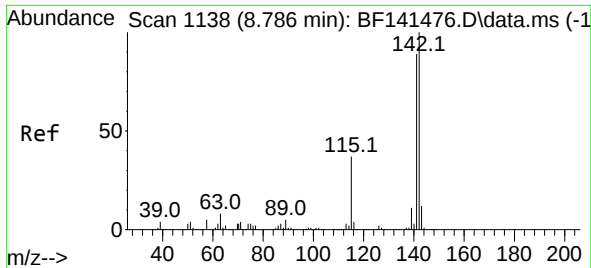
Reviewed By :Rahul Chavli 02/10/2025
Supervised By :mohammad ahmed 02/12/2025



#31
Naphthalene
Concen: 5.017 ng
RT: 8.092 min Scan# 1020
Delta R.T. -0.006 min
Lab File: BF141512.D
Acq: 07 Feb 2025 17:16

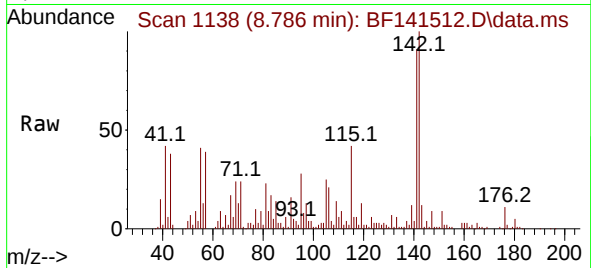
Tgt Ion:128 Resp: 82776
Ion Ratio Lower Upper
128 100
129 19.2 8.9 13.3#
127 17.0 10.7 16.1#





#37
2-Methylnaphthalene
Concen: 9.484 ng
RT: 8.786 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BF141512.D
Acq: 07 Feb 2025 17:16

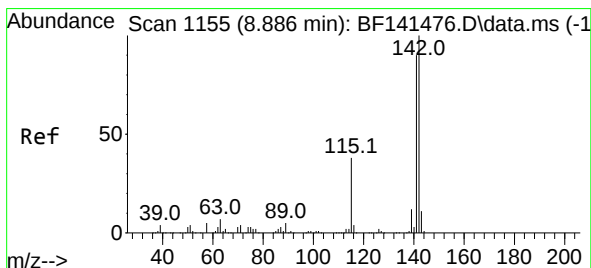
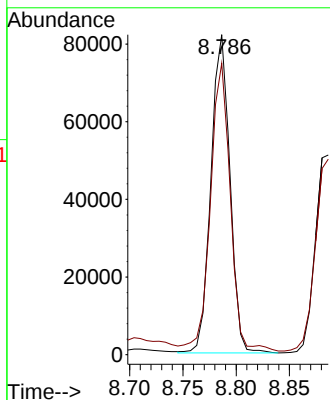
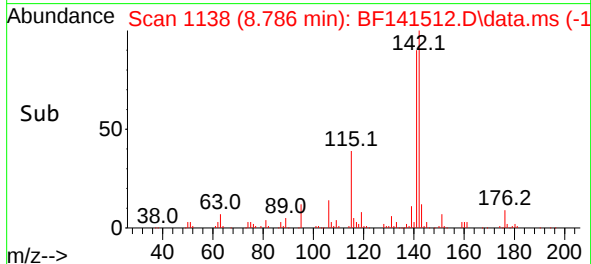
Instrument :
BNA_F
ClientSampleId :
HR-01-020425



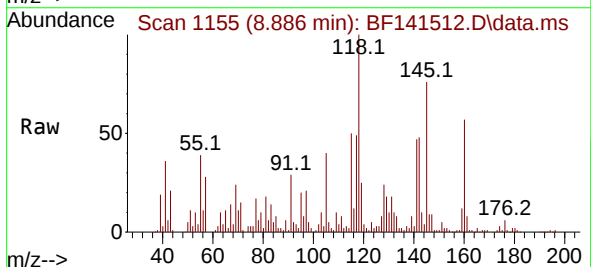
Tgt Ion:142 Resp: 101828
Ion Ratio Lower Upper
142 100
141 91.0 71.2 106.8

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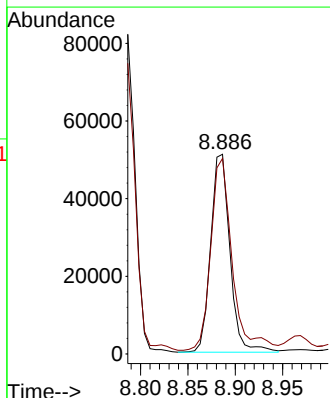
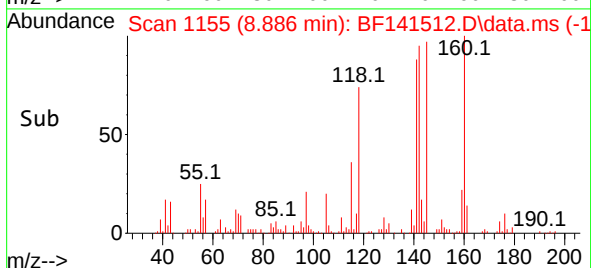
Reviewed By :Rahul Chavli 02/10/2025
Supervised By :mohammad ahmed 02/12/2025

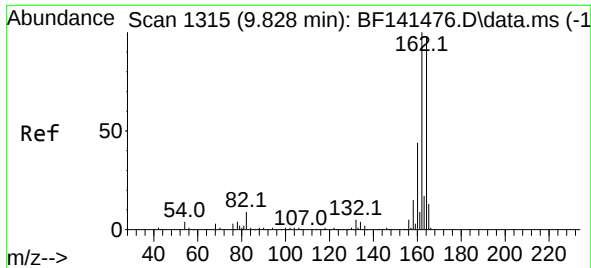


#38
1-Methylnaphthalene
Concen: 6.936 ng
RT: 8.886 min Scan# 1155
Delta R.T. 0.000 min
Lab File: BF141512.D
Acq: 07 Feb 2025 17:16



Tgt Ion:142 Resp: 72121
Ion Ratio Lower Upper
142 100
141 97.9 72.1 108.1





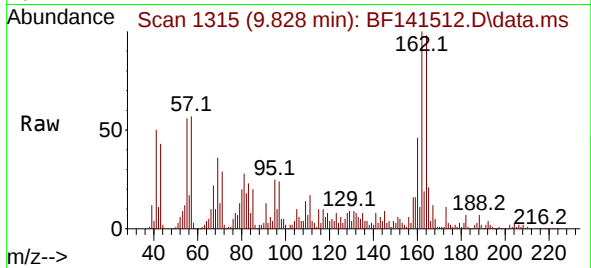
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.828 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141512.D
Acq: 07 Feb 2025 17:16

Instrument :

BNA_F

ClientSampleId :

HR-01-020425

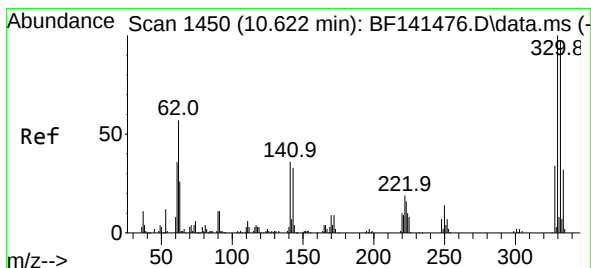
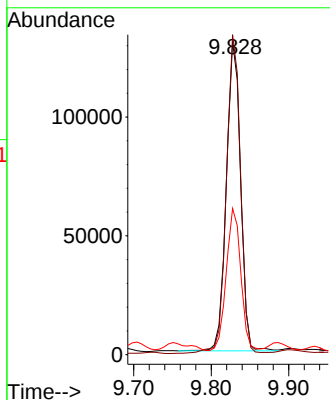
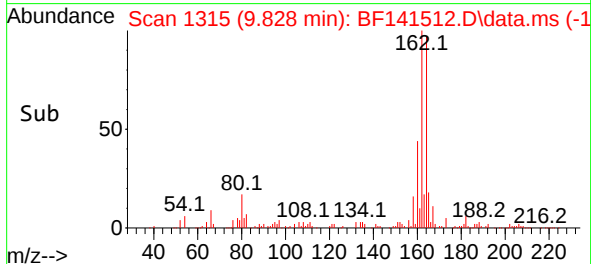


Tgt Ion:164 Resp: 16587
Ion Ratio Lower Upper
164 100
162 102.2 81.3 121.9
160 46.7 35.9 53.9

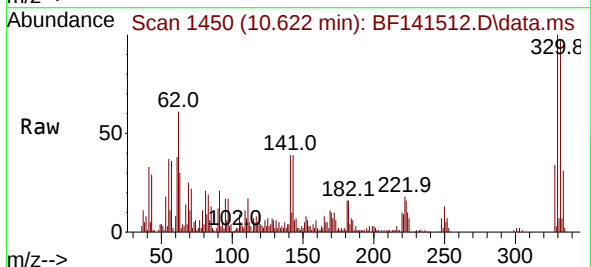
Manual Integrations

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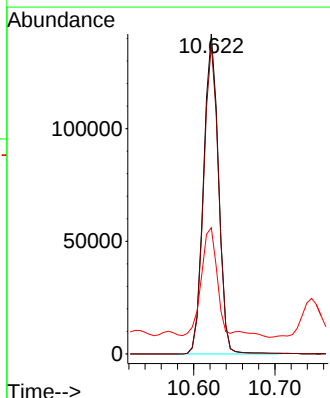
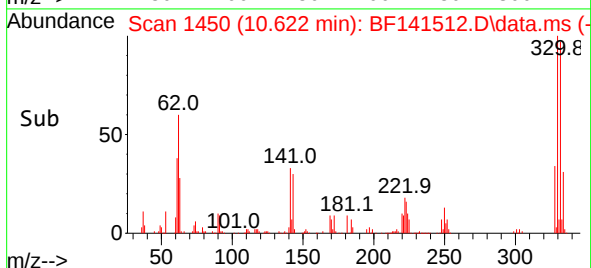
Reviewed By :Rahul Chavli 02/10/2025
Supervised By :mohammad ahmed 02/12/2025

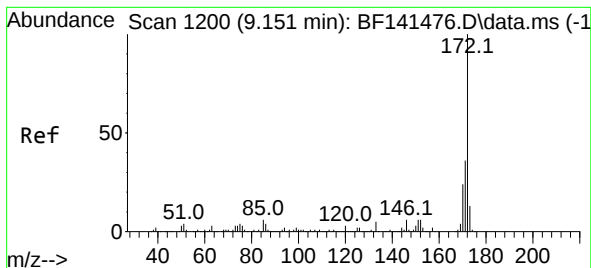


#42
2,4,6-Tribromophenol
Concen: 108.728 ng
RT: 10.622 min Scan# 1450
Delta R.T. -0.006 min
Lab File: BF141512.D
Acq: 07 Feb 2025 17:16



Tgt Ion:330 Resp: 181175
Ion Ratio Lower Upper
330 100
332 96.4 78.5 117.7
141 35.1 31.0 46.4





#45

2-Fluorobiphenyl

Concen: 84.371 ng

RT: 9.151 min Scan# 1200

Delta R.T. 0.000 min

Lab File: BF141512.D

Acq: 07 Feb 2025 17:16

Instrument :

BNA_F

ClientSampleId :

HR-01-020425

Tgt Ion:172 Resp: 90840

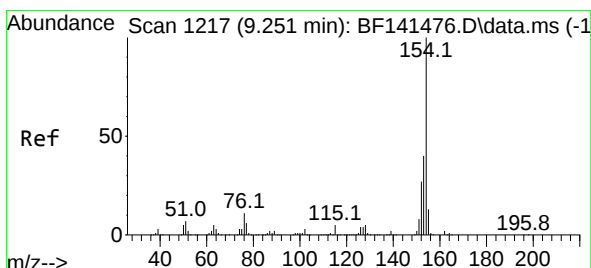
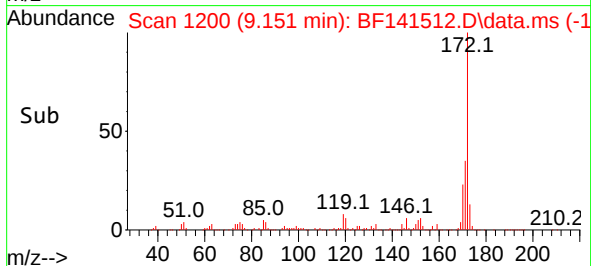
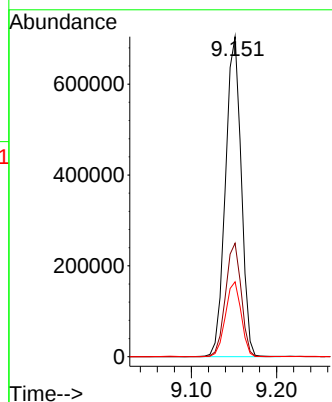
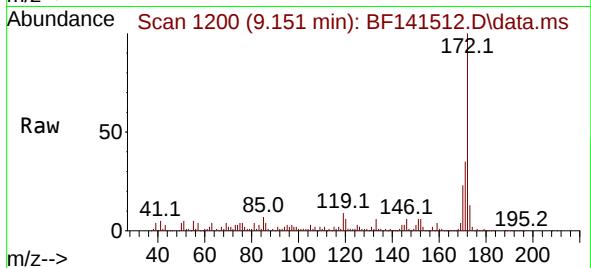
Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.7	43.1
170	23.4	18.9	28.3

Manual Integrations

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Supervised By :mohammad ahmed 02/12/2025



#46

1,1'-Biphenyl

Concen: 3.730 ng

RT: 9.245 min Scan# 1216

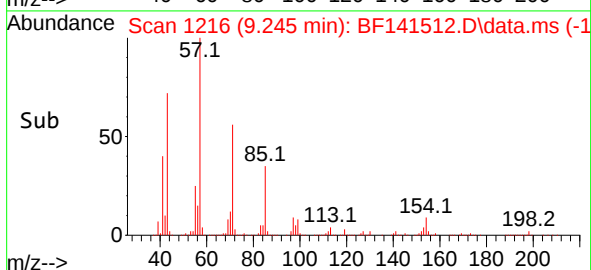
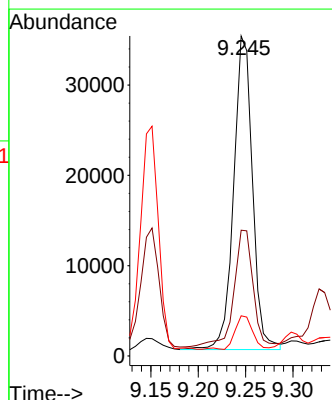
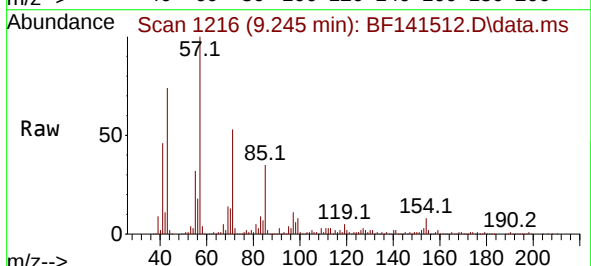
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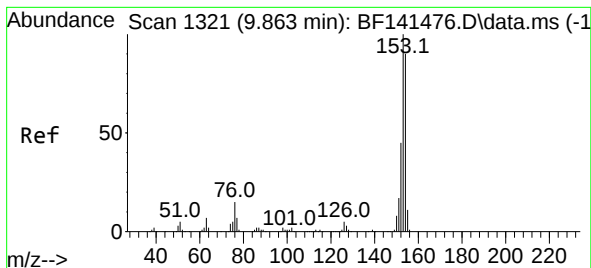
Lab File: BF141512.D

Acq: 07 Feb 2025 17:16

Tgt Ion:154 Resp: 47966

Ion	Ratio	Lower	Upper
154	100		
153	39.3	20.4	60.4
76	12.5	0.0	30.8





#52

Acenaphthene

Concen: 6.168 ng

RT: 9.863 min Scan# 1321

Delta R.T. -0.006 min

Lab File: BF141512.D

Acq: 07 Feb 2025 17:16

Instrument :

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ClientSampleId :

HR-01-020425

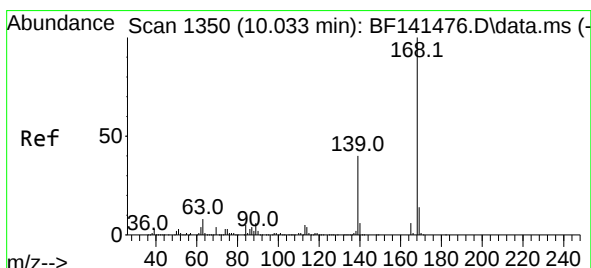
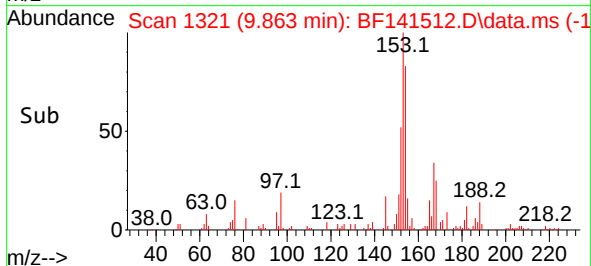
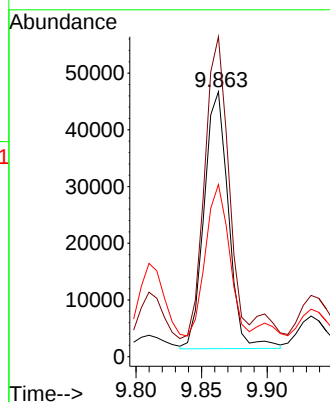
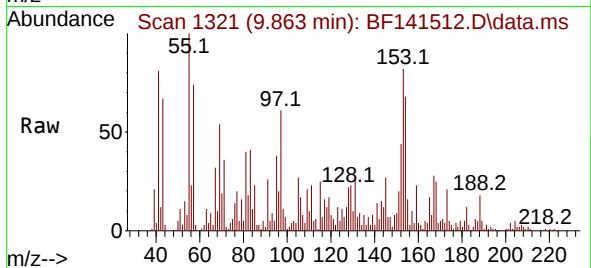
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Ion Ratio	Lower Upper
154	100
153	120.8 89.2 133.8
152	65.0 39.8 59.8

Manual Integrations

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#55

Dibenzofuran

Concen: 3.433 ng

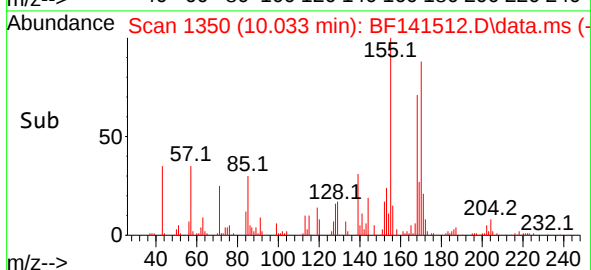
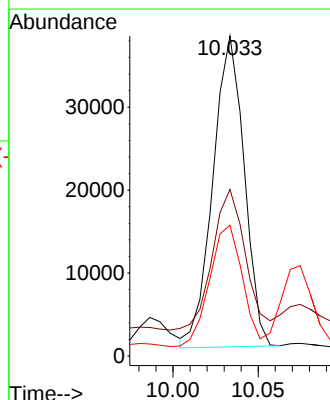
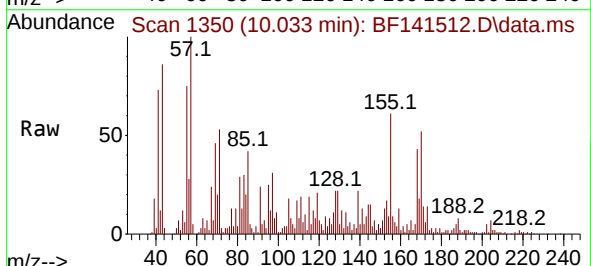
RT: 10.033 min Scan# 1350

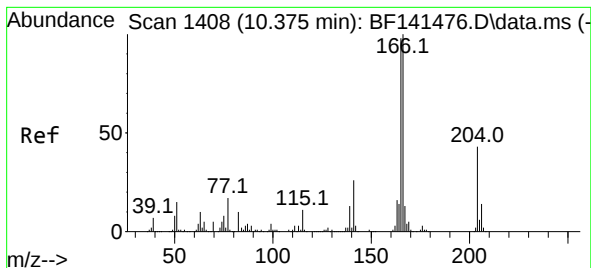
Delta R.T. -0.006 min

Lab File: BF141512.D

Acq: 07 Feb 2025 17:16

Tgt Ion:168	Resp: 47922
Ion Ratio	Lower Upper
168	100
139	52.1 32.7 49.1#
169	40.9 10.8 16.2#





#58

Fluorene

Concen: 6.397 ng

RT: 10.375 min Scan# 1408

Delta R.T. -0.006 min

Lab File: BF141512.D

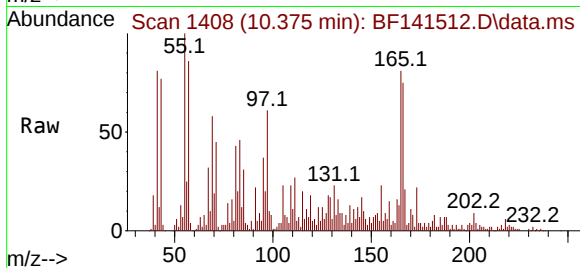
Acq: 07 Feb 2025 17:16

Instrument :

BNA_F

ClientSampleId :

HR-01-020425



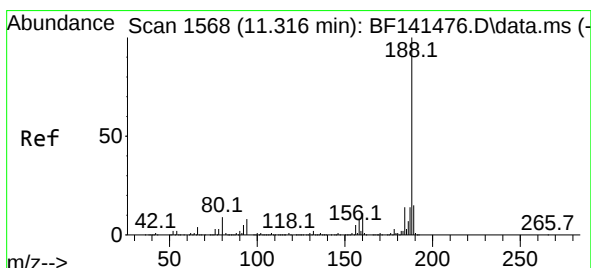
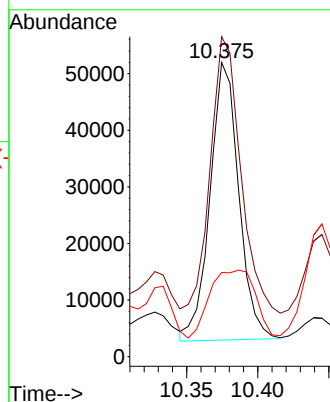
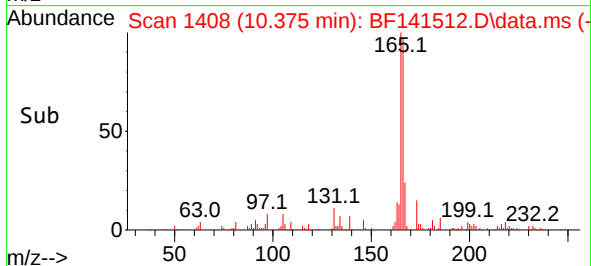
Tgt Ion:	166	Resp:	6904
Ion Ratio	Lower	Upper	
166	100		
165	108.8	78.2	117.2
167	28.6	10.7	16.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 02/10/2025

Supervised By :mohammad ahmed 02/12/2025



#64

Phenanthrene-d10

Concen: 20.000 ng

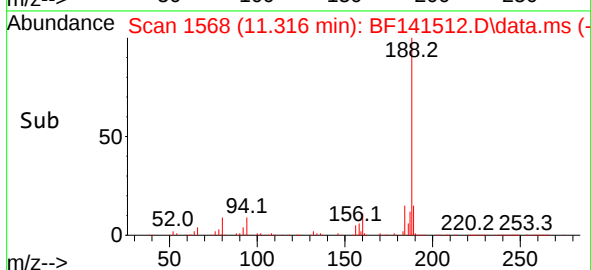
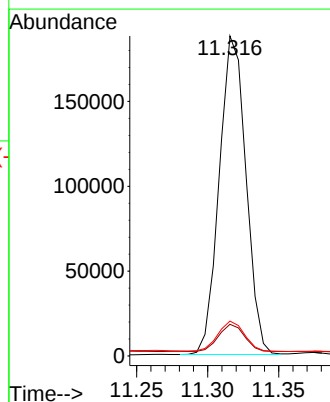
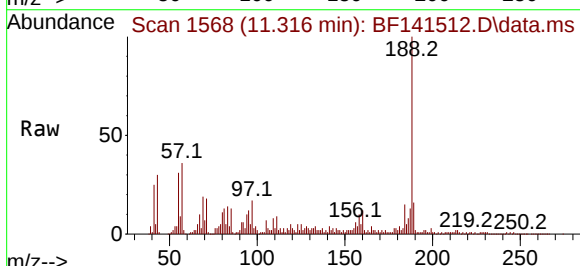
RT: 11.316 min Scan# 1568

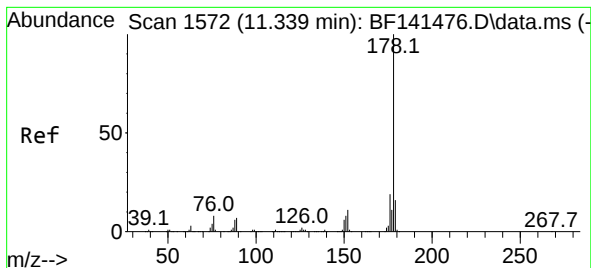
Delta R.T. 0.000 min

Lab File: BF141512.D

Acq: 07 Feb 2025 17:16

Tgt Ion:	188	Resp:	245887
Ion Ratio	Lower	Upper	
188	100		
94	9.9	6.6	10.0
80	10.9	7.3	10.9





#71

Phenanthrene

Concen: 66.683 ng

RT: 11.345 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF141512.D

Acq: 07 Feb 2025 17:16

Instrument :

BNA_F

ClientSampleId :

HR-01-020425

Tgt Ion:178 Resp: 902550

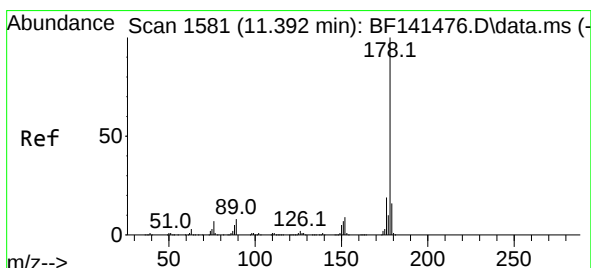
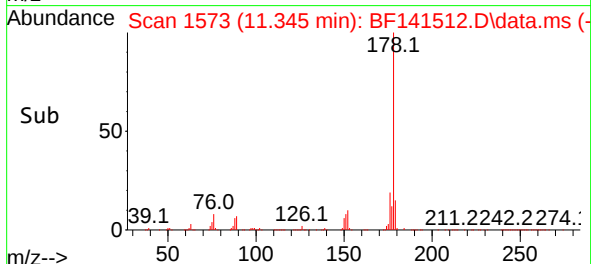
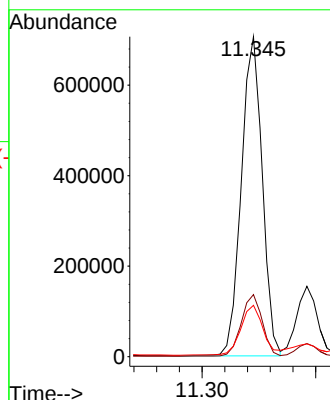
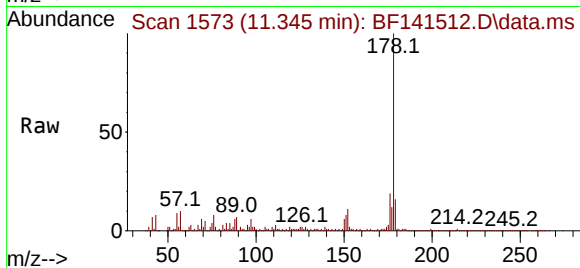
Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.0
179	16.1	12.4	18.6

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 02/10/2025

Supervised By :mohammad ahmed 02/12/2025



#72

Anthracene

Concen: 12.879 ng

RT: 11.392 min Scan# 1581

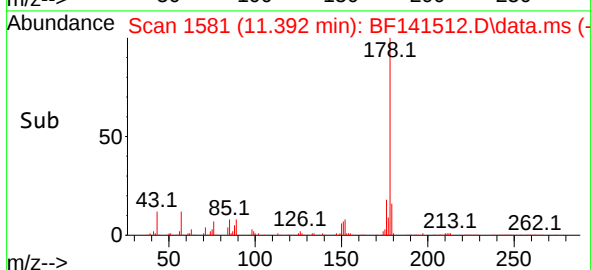
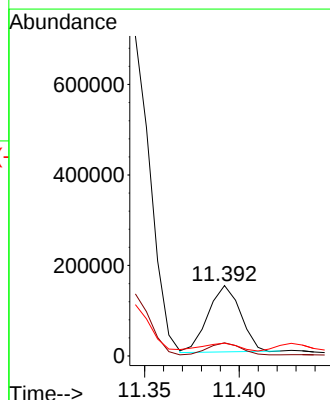
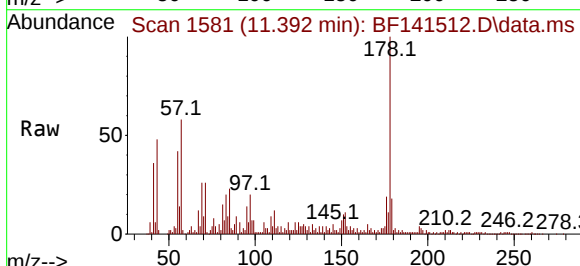
Delta R.T. -0.006 min

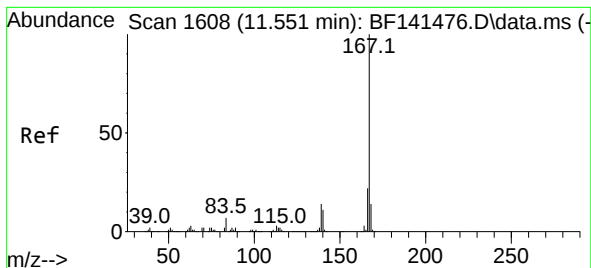
Lab File: BF141512.D

Acq: 07 Feb 2025 17:16

Tgt Ion:178 Resp: 175237

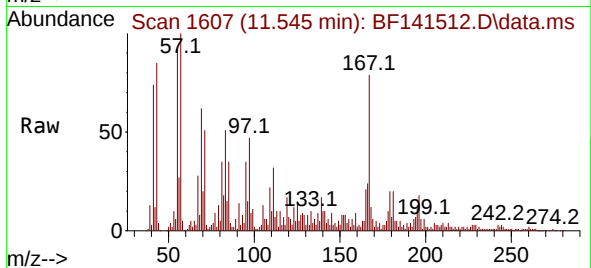
Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.8	22.2
179	18.1	12.4	18.6





#73
 Carbazole
 Concen: 4.974 ng
 RT: 11.545 min Scan# 1607
 Delta R.T. -0.006 min
 Lab File: BF141512.D
 Acq: 07 Feb 2025 17:16

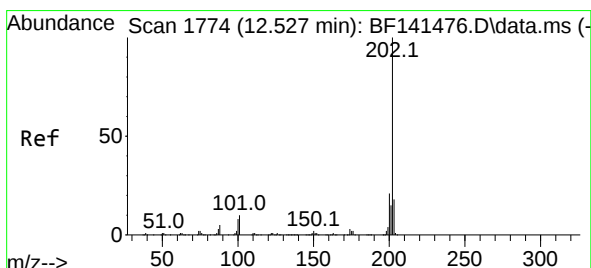
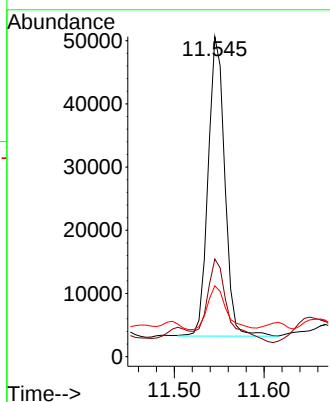
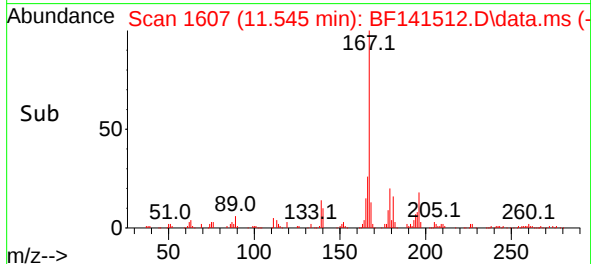
Instrument :
 BNA_F
 ClientSampleId :
 HR-01-020425



Tgt Ion:167 Resp: 6089
 Ion Ratio Lower Upper
 167 100
 166 30.5 17.4 26.2
 139 22.1 10.9 16.3

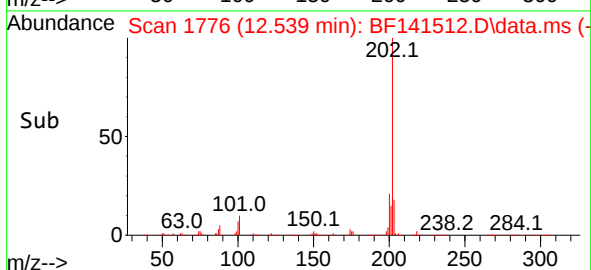
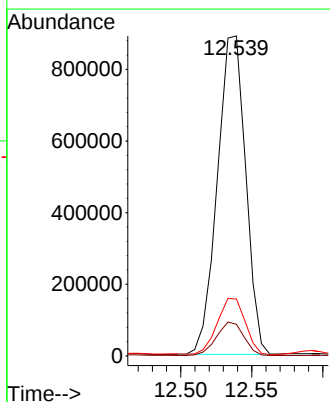
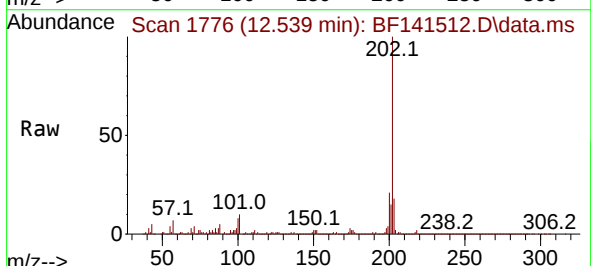
Manual Integrations
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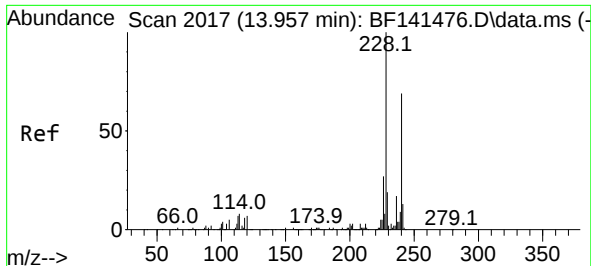
Reviewed By :Rahul Chavli 02/10/2025
 Supervised By :mohammad ahmed 02/12/2025



#75
 Fluoranthene
 Concen: 86.005 ng
 RT: 12.539 min Scan# 1776
 Delta R.T. 0.006 min
 Lab File: BF141512.D
 Acq: 07 Feb 2025 17:16

Tgt Ion:202 Resp: 1234152
 Ion Ratio Lower Upper
 202 100
 101 9.9 0.0 30.2
 203 17.8 0.0 37.6





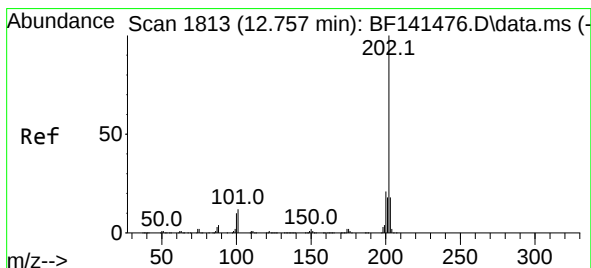
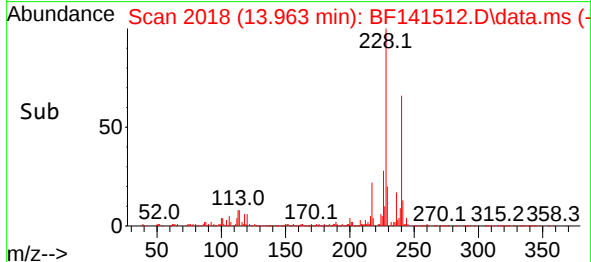
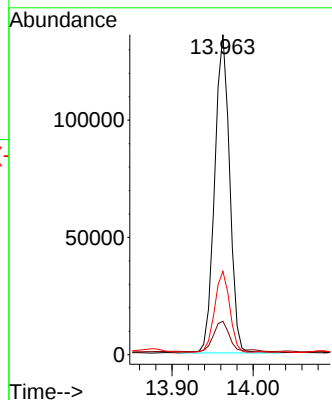
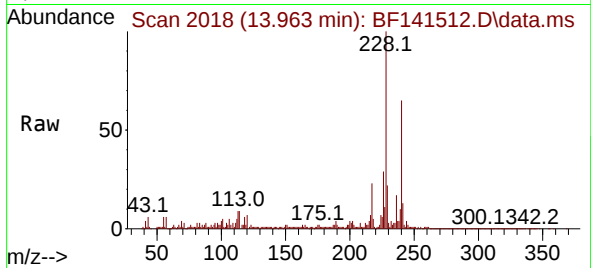
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.963 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BF141512.D
Acq: 07 Feb 2025 17:16

Instrument :
BNA_F
ClientSampleId :
HR-01-020425

Tgt Ion:240 Resp: 17433
Ion Ratio Lower Upper
240 100
120 10.4 8.0 12.0
236 26.1 19.8 29.8

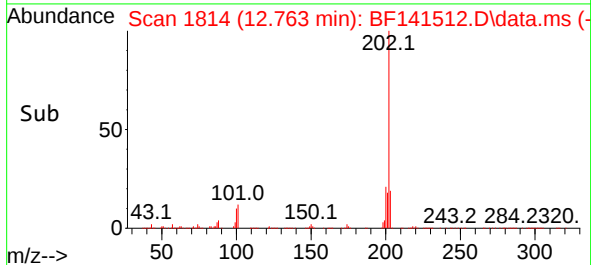
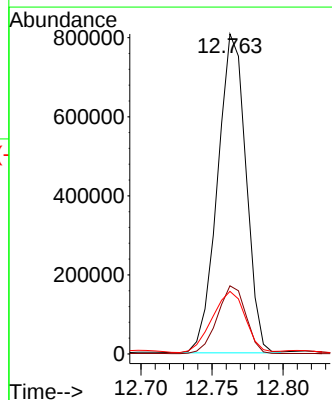
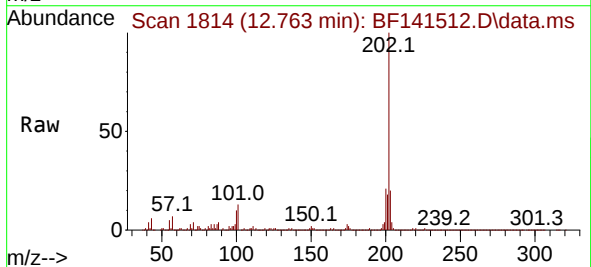
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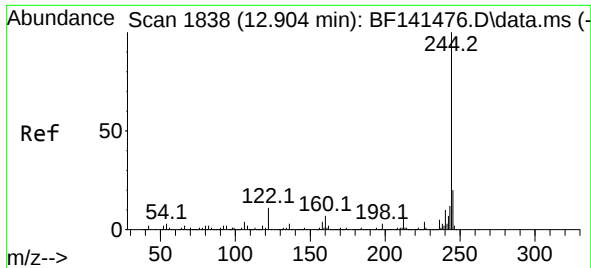
Reviewed By :Rahul Chavli 02/10/2025
Supervised By :mohammad ahmed 02/12/2025



#78
Pyrene
Concen: 75.680 ng
RT: 12.763 min Scan# 1814
Delta R.T. 0.000 min
Lab File: BF141512.D
Acq: 07 Feb 2025 17:16

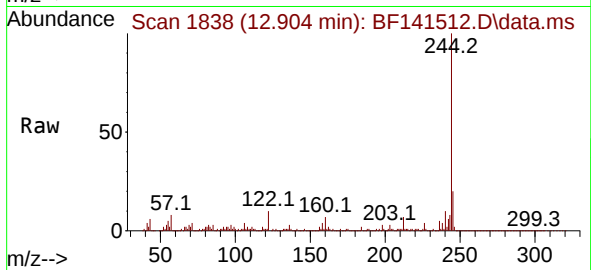
Tgt Ion:202 Resp: 1123120
Ion Ratio Lower Upper
202 100
200 21.3 17.0 25.4
203 19.6 14.3 21.5





#79
 Terphenyl-d14
 Concen: 77.076 ng
 RT: 12.904 min Scan# 1838
 Delta R.T. 0.000 min
 Lab File: BF141512.D
 Acq: 07 Feb 2025 17:16

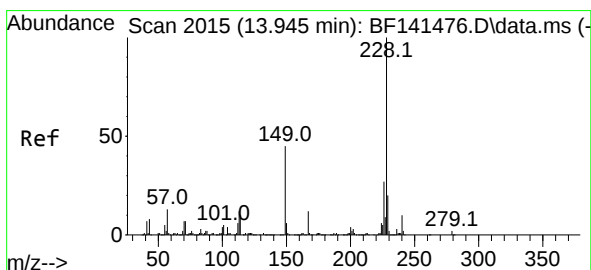
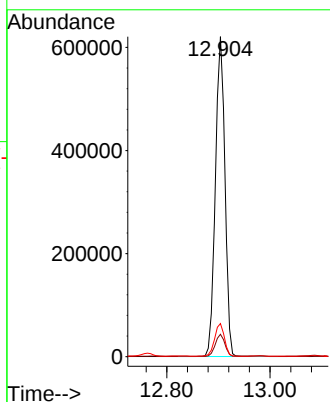
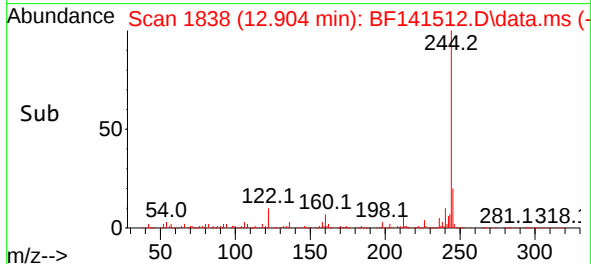
Instrument :
 BNA_F
 ClientSampleId :
 HR-01-020425



Tgt Ion:244 Resp: 795940
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.6 8.4
 122 10.3 8.4 12.6

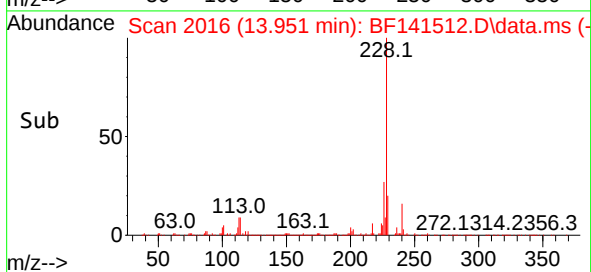
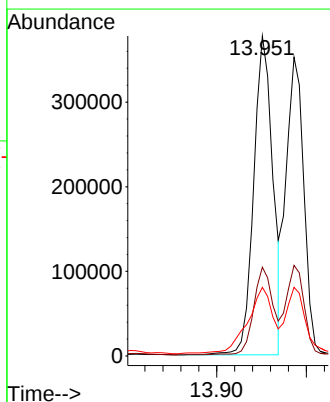
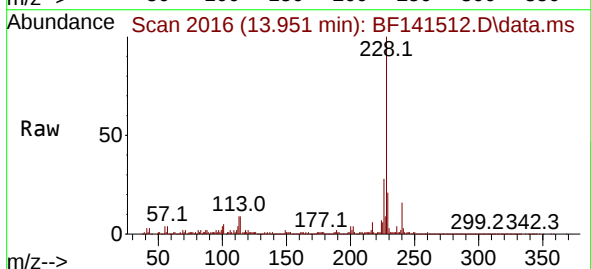
Manual Integrations
 APPROVED

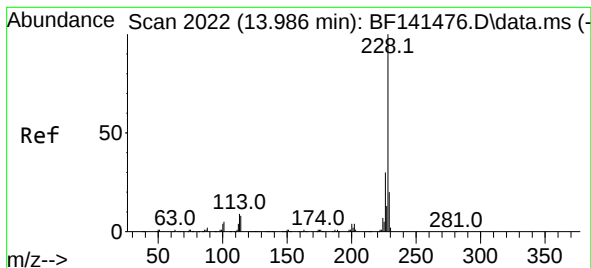
Reviewed By :Rahul Chavli 02/10/2025
 Supervised By :mohammad ahmed 02/12/2025



#81
 Benzo(a)anthracene
 Concen: 48.220 ng
 RT: 13.951 min Scan# 2016
 Delta R.T. 0.000 min
 Lab File: BF141512.D
 Acq: 07 Feb 2025 17:16

Tgt Ion:228 Resp: 558795
 Ion Ratio Lower Upper
 228 100
 226 27.8 21.8 32.8
 229 21.5 15.8 23.6





#83

Chrysene

Concen: 44.784 ng

RT: 13.986 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF141512.D

Acq: 07 Feb 2025 17:16

Instrument :

BNA_F

ClientSampleId :

HR-01-020425

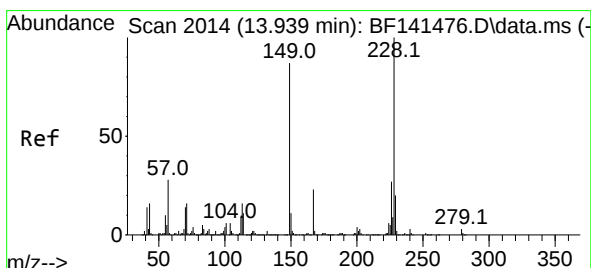
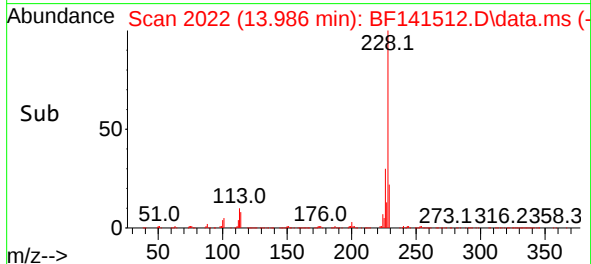
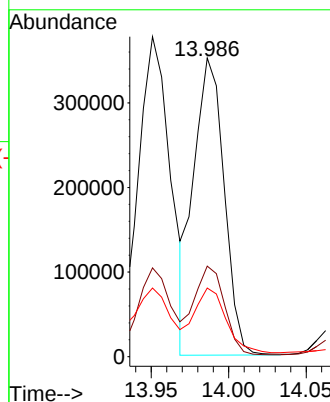
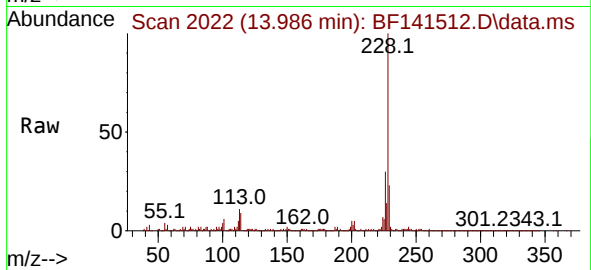
Tgt Ion:228	Resp: 47919
Ion Ratio	Lower Upper
228 100	
226 30.3	24.0 36.0
229 23.0	15.7 23.5

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 02/10/2025

Supervised By :mohammad ahmed 02/12/2025



#84

Bis(2-ethylhexyl)phthalate

Concen: 2.122 ng

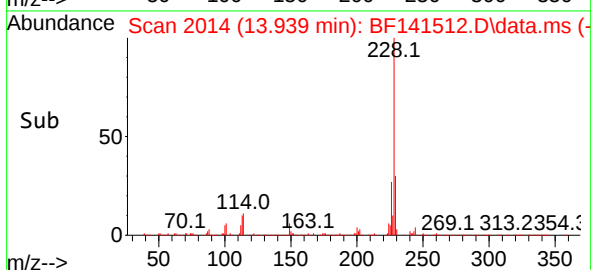
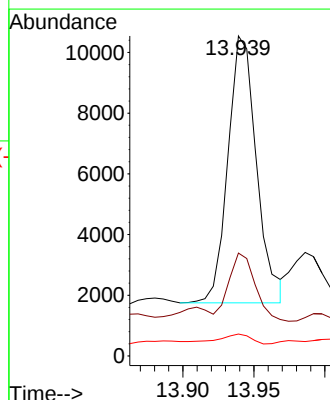
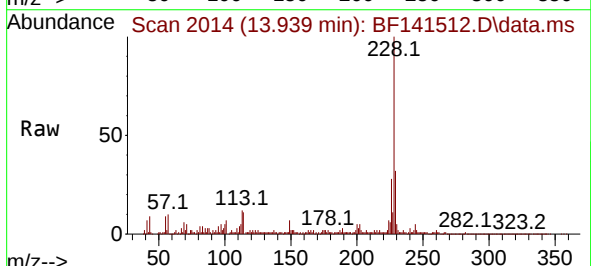
RT: 13.939 min Scan# 2014

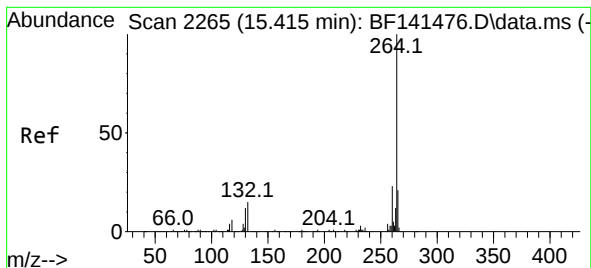
Delta R.T. 0.000 min

Lab File: BF141512.D

Acq: 07 Feb 2025 17:16

Tgt Ion:149	Resp: 12305
Ion Ratio	Lower Upper
149 100	
167 32.1	21.4 32.0#
279 6.9	3.1 4.7#





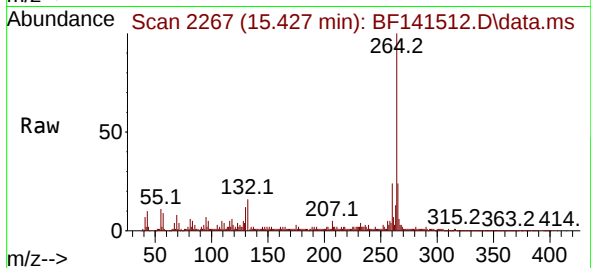
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.427 min Scan# 21
Delta R.T. 0.012 min
Lab File: BF141512.D
Acq: 07 Feb 2025 17:16

Instrument :

BNA_F

ClientSampleId :

HR-01-020425

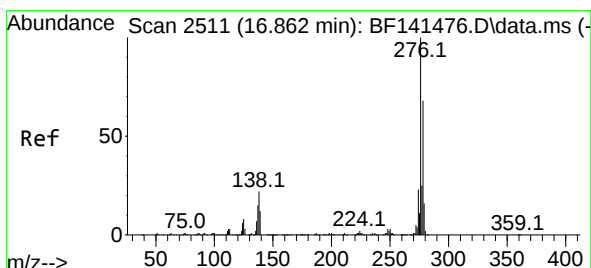
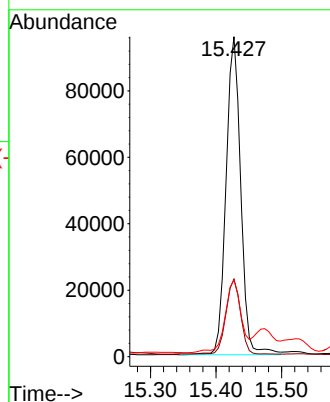
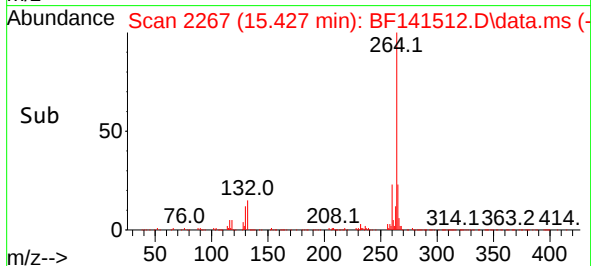


Tgt Ion:264 Resp: 148388
Ion Ratio Lower Upper
264 100
260 24.2 18.6 28.0
265 24.0 17.0 25.4

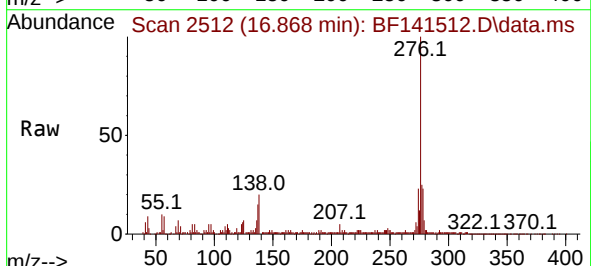
Manual Integrations

APPROVED

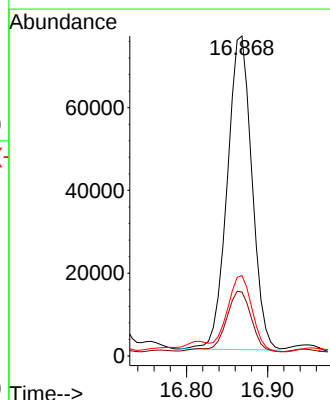
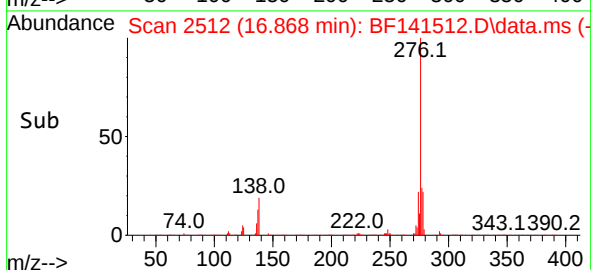
Reviewed By :Rahul Chavli 02/10/2025
Supervised By :mohammad ahmed 02/12/2025

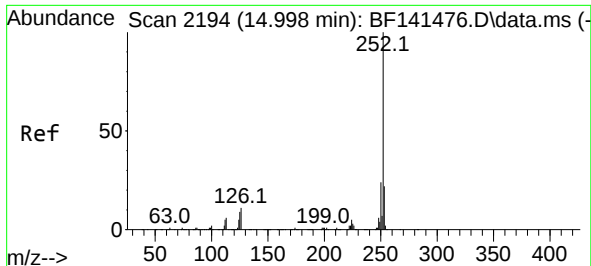


#87
Indeno(1,2,3-cd)pyrene
Concen: 17.444 ng
RT: 16.868 min Scan# 2512
Delta R.T. -0.006 min
Lab File: BF141512.D
Acq: 07 Feb 2025 17:16



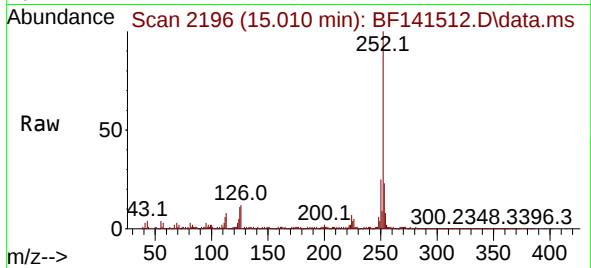
Tgt Ion:276 Resp: 159936
Ion Ratio Lower Upper
276 100
138 20.9 18.0 27.0
277 24.6 20.4 30.6





#88
Benzo(b)fluoranthene
Concen: 46.660 ng m
RT: 15.010 min Scan# 2196
Delta R.T. 0.006 min
Lab File: BF141512.D
Acq: 07 Feb 2025 17:16

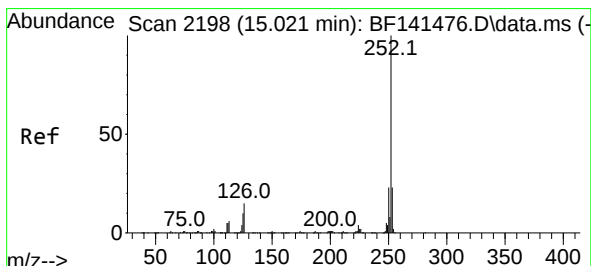
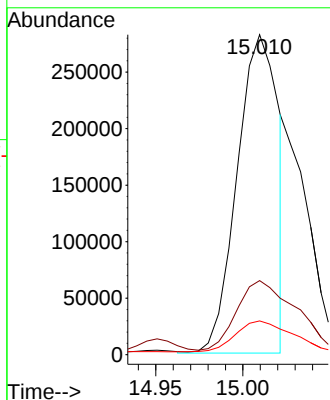
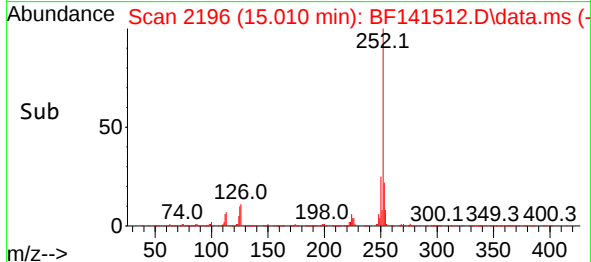
Instrument :
BNA_F
ClientSampleId :
HR-01-020425



Tgt Ion:252 Resp: 464902
Ion Ratio Lower Upper
252 100
253 23.2 17.5 26.3
125 10.6 7.0 10.6

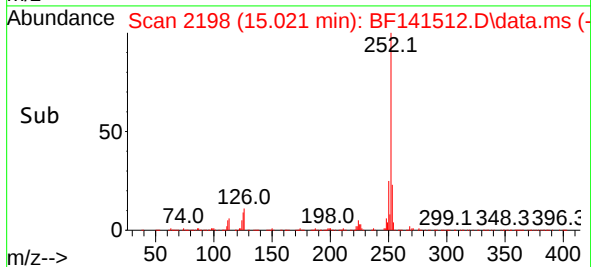
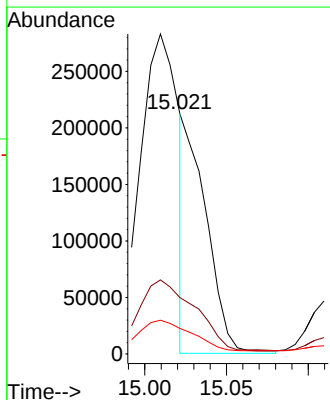
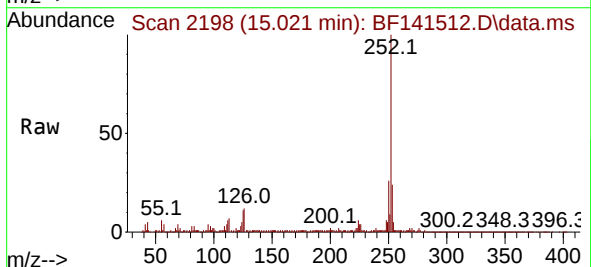
Manual Integrations
APPROVED

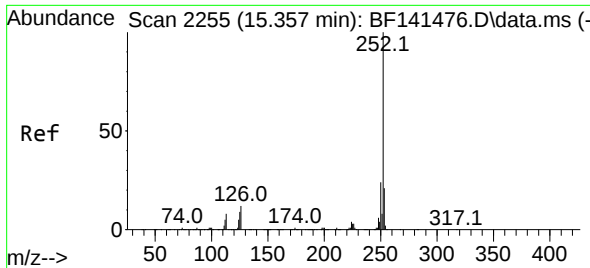
Reviewed By :Rahul Chavli 02/10/2025
Supervised By :mohammad ahmed 02/12/2025



#89
Benzo(k)fluoranthene
Concen: 22.646 ng m
RT: 15.021 min Scan# 2198
Delta R.T. -0.012 min
Lab File: BF141512.D
Acq: 07 Feb 2025 17:16

Tgt Ion:252 Resp: 192668
Ion Ratio Lower Upper
252 100
253 23.5 18.0 27.0
125 10.6 7.4 11.0





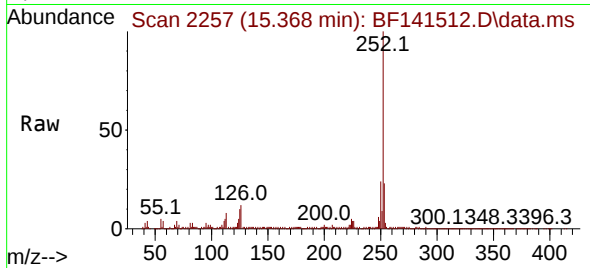
#90
Benzo(a)pyrene
Concen: 40.744 ng
RT: 15.368 min Scan# 2255
Delta R.T. 0.006 min
Lab File: BF141512.D
Acq: 07 Feb 2025 17:16

Instrument :

BNA_F

ClientSampleId :

HR-01-020425

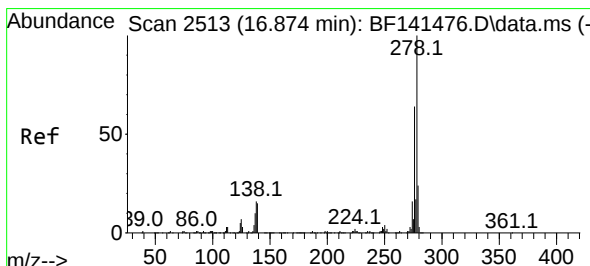
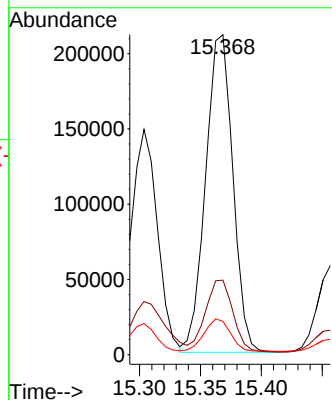
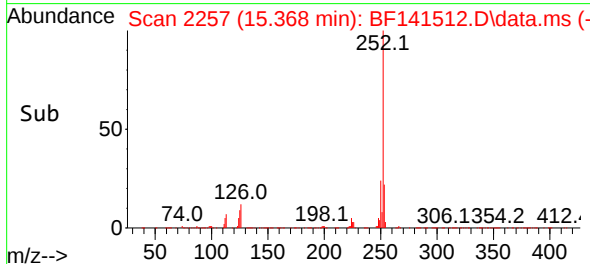


Tgt Ion:252 Resp: 32848
Ion Ratio Lower Upper
252 100
253 23.3 17.1 25.7
125 10.4 7.4 11.2

Manual Integrations

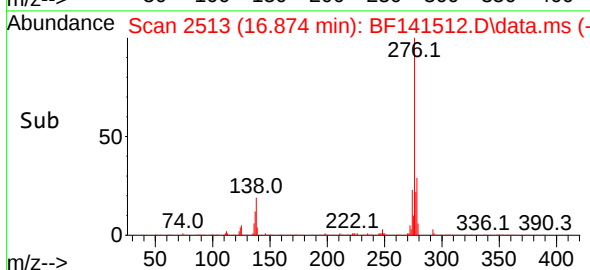
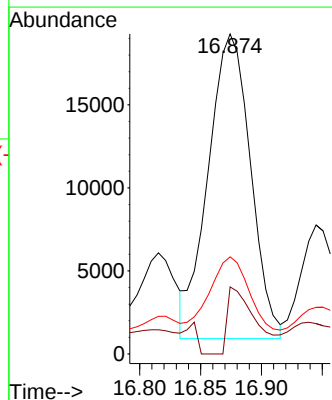
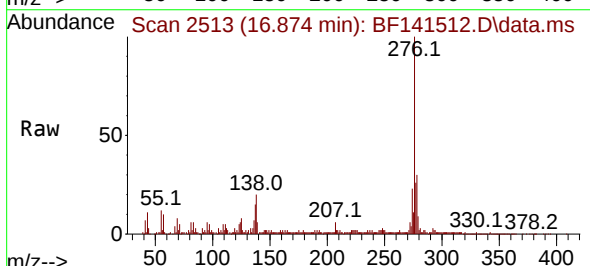
APPROVED

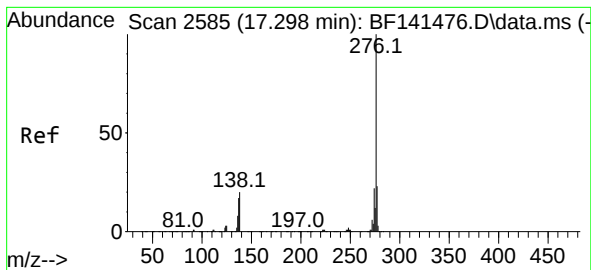
Reviewed By :Rahul Chavli 02/10/2025
Supervised By :mohammad ahmed 02/12/2025



#91
Dibenzo(a,h)anthracene
Concen: 5.983 ng
RT: 16.874 min Scan# 2513
Delta R.T. -0.018 min
Lab File: BF141512.D
Acq: 07 Feb 2025 17:16

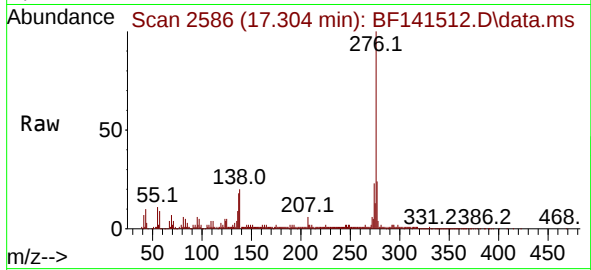
Tgt Ion:278 Resp: 44450
Ion Ratio Lower Upper
278 100
139 20.9 11.8 17.6#
279 30.3 19.1 28.7#





#92
 Benzo(g,h,i)perylene
 Concen: 18.989 ng
 RT: 17.304 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: BF141512.D
 Acq: 07 Feb 2025 17:16

Instrument :
 BNA_F
 ClientSampleId :
 HR-01-020425



Tgt Ion:	276	Resp:	14763
Ion Ratio	Lower	Upper	
276	100		
277	24.3	18.6	28.0
138	20.1	15.9	23.9

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 02/10/2025
 Supervised By :mohammad ahmed 02/12/2025

