

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020425\
 Data File : BF141427.D
 Acq On : 04 Feb 2025 23:30
 Operator : RC/JU
 Sample : Q1280-01
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 72-11984

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 02/05/2025
 Supervised By :mohammad ahmed 02/05/2025

Quant Time: Feb 05 00:36:22 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	6.787	152	79355	20.000	ng	-0.02
21) Naphthalene-d8	8.069	136	316900	20.000	ng	-0.02
39) Acenaphthene-d10	9.822	164	173126	20.000	ng	-0.02
64) Phenanthrene-d10	11.316	188	289374	20.000	ng	-0.01
76) Chrysene-d12	13.951	240	194232	20.000	ng	-0.02
86) Perylene-d12	15.404	264	191845	20.000	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.410	112	593478	114.814	ng	0.00
7) Phenol-d6	6.428	99	746878	113.582	ng	-0.01
23) Nitrobenzene-d5	7.351	82	494197	82.210	ng	-0.02
42) 2,4,6-Tribromophenol	10.616	330	199616	125.769	ng	-0.02
45) 2-Fluorobiphenyl	9.145	172	861971	76.634	ng	-0.02
79) Terphenyl-d14	12.904	244	862418	68.475	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.092	128	397774	23.761	ng	100
37) 2-Methylnaphthalene	8.781	142	304836	28.649	ng	100
38) 1-Methylnaphthalene	8.881	142	153551	14.691	ng	99
46) 1,1'-Biphenyl	9.245	154	74963	5.552	ng	96
52) Acenaphthene	9.857	154	301818	28.678	ng	99
55) Dibenzofuran	10.028	168	282182	20.031	ng	96
58) Fluorene	10.375	166	246353	22.545	ng	98
70) Pentachlorophenol	11.122	266	7041	3.499	ng	99
71) Phenanthrene	11.339	178	791080	50.857	ng	100
72) Anthracene	11.386	178	138241	9.070	ng	98
73) Carbazole	11.545	167	52169	3.860	ng	98
75) Fluoranthene	12.528	202	379953	24.738	ng	97
78) Pyrene	12.757	202	274867	14.743	ng	99
81) Benzo(a)anthracene	13.945	228	79494	5.931	ng	97
83) Chrysene	13.974	228	67044	5.458	ng	98
88) Benzo(b)fluoranthene	14.986	252	74886m	6.206	ng	
89) Benzo(k)fluoranthene	14.998	252	29474m	2.757	ng	
90) Benzo(a)pyrene	15.339	252	39340	3.858	ng	96

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

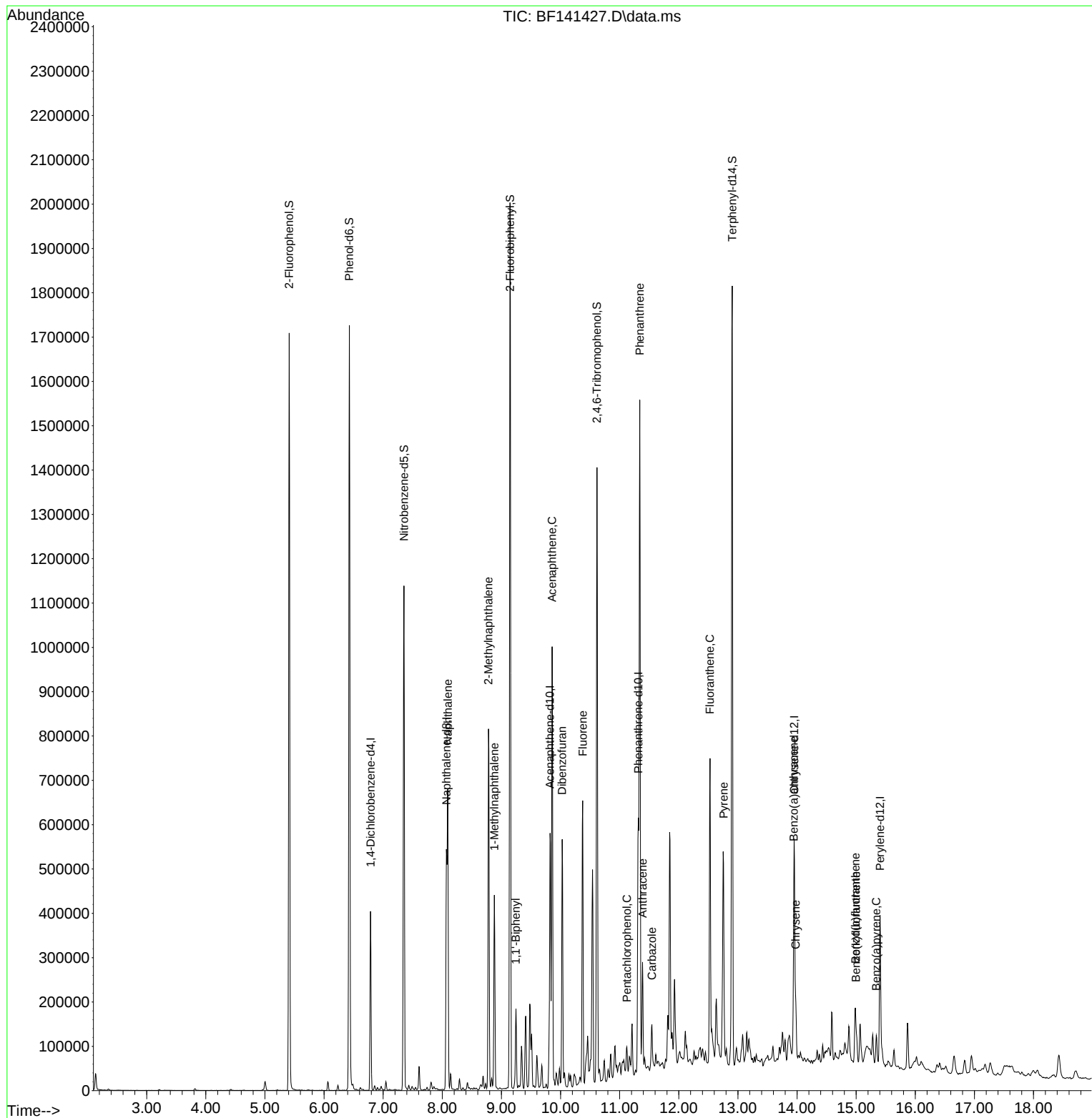
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020425\
Data File : BF141427.D
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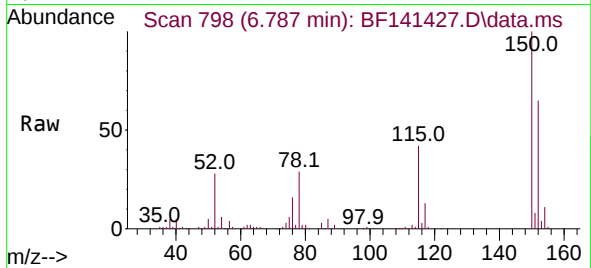
Quant Time: Feb 05 00:36:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 79
Delta R.T. -0.017 min
Lab File: BF141427.D
Acq: 04 Feb 2025 23:30

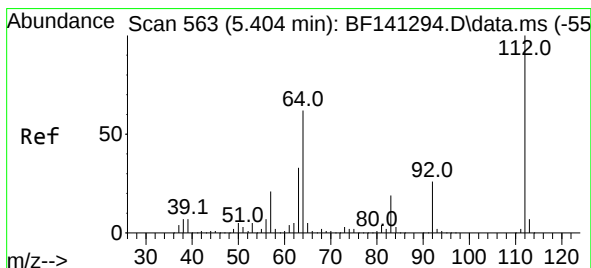
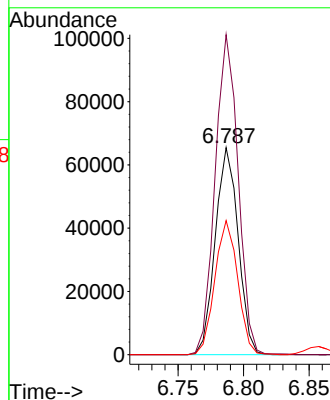
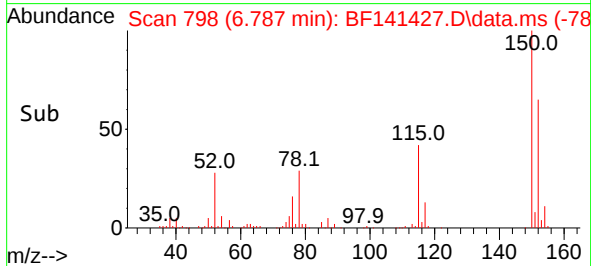
Instrument :
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Tgt Ion:152 Resp: 79358
Ion Ratio Lower Upper
152 100
150 154.6 125.9 188.9
115 64.8 49.7 74.5

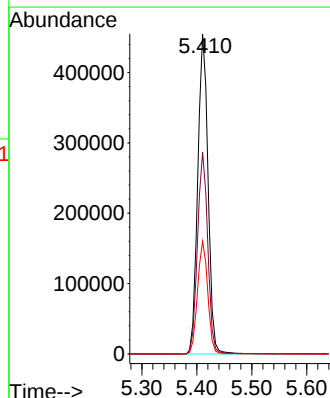
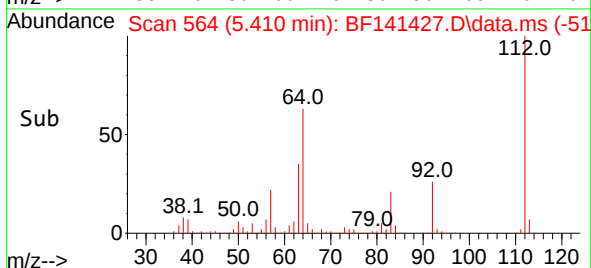
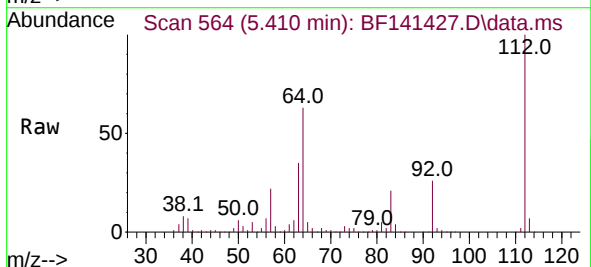
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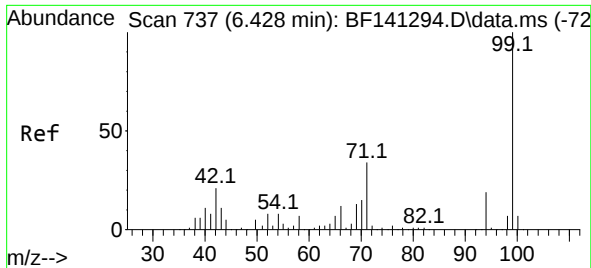
Reviewed By :Yogesh Patel 02/05/2025
Supervised By :mohammad ahmed 02/05/2025



#5
2-Fluorophenol
Concen: 114.814 ng
RT: 5.410 min Scan# 564
Delta R.T. 0.000 min
Lab File: BF141427.D
Acq: 04 Feb 2025 23:30

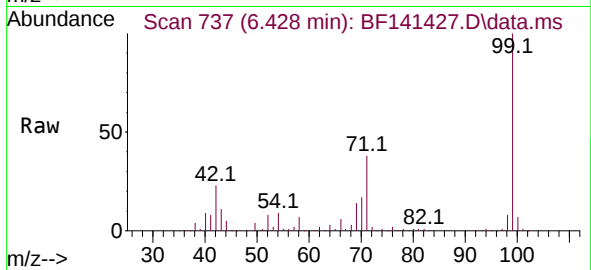
Tgt Ion:112 Resp: 593478
Ion Ratio Lower Upper
112 100
64 63.0 49.8 74.8
63 35.3 26.1 39.1





#7
Phenol-d6
Concen: 113.582 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF141427.D
Acq: 04 Feb 2025 23:30

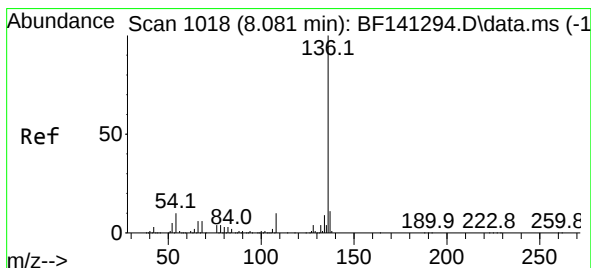
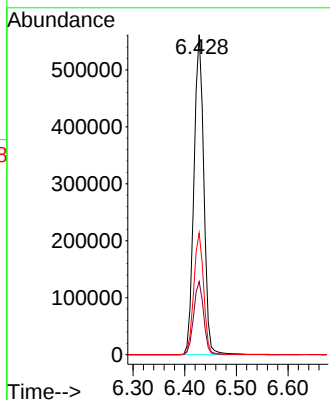
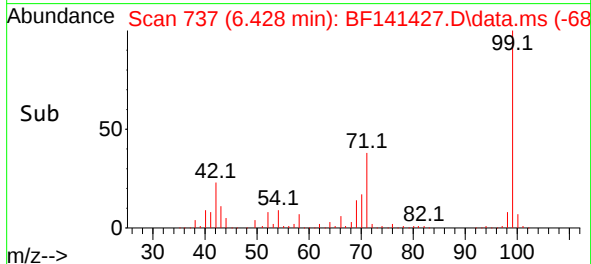
Instrument :
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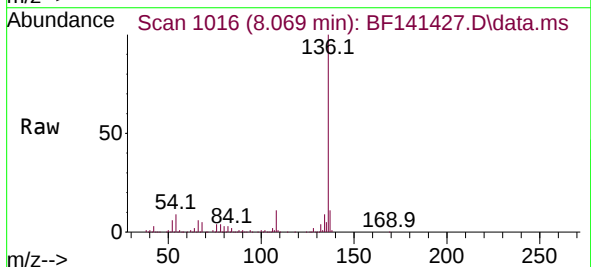
Tgt Ion: 99 Resp: 746878
Ion Ratio Lower Upper
99 100
42 22.9 17.1 25.7
71 38.0 26.9 40.3

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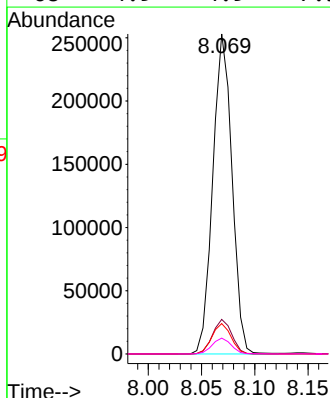
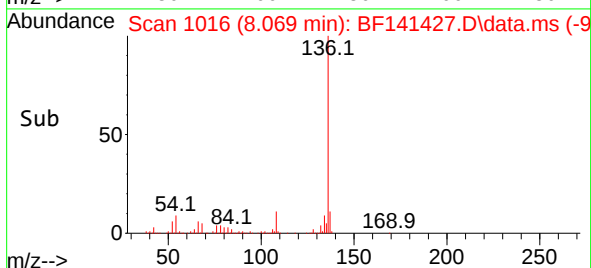
Reviewed By :Yogesh Patel 02/05/2025
Supervised By :mohammad ahmed 02/05/2025

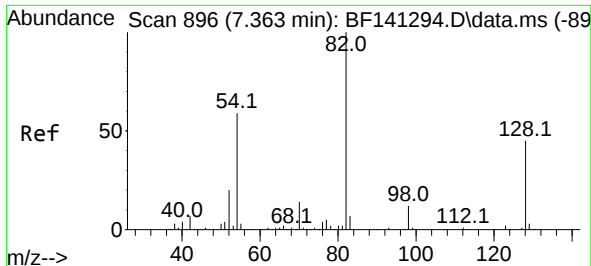


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1016
Delta R.T. -0.018 min
Lab File: BF141427.D
Acq: 04 Feb 2025 23:30



Tgt Ion:136 Resp: 316900
Ion Ratio Lower Upper
136 100
137 10.8 8.6 13.0
54 9.5 7.8 11.8
68 4.9 4.9 7.3





#23
 Nitrobenzene-d5
 Concen: 82.210 ng
 RT: 7.351 min Scan# 894
 Delta R.T. -0.018 min
 Lab File: BF141427.D
 Acq: 04 Feb 2025 23:30

Instrument :

BNA_F

ClientSampleId :

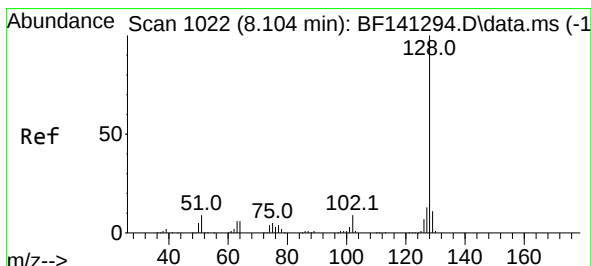
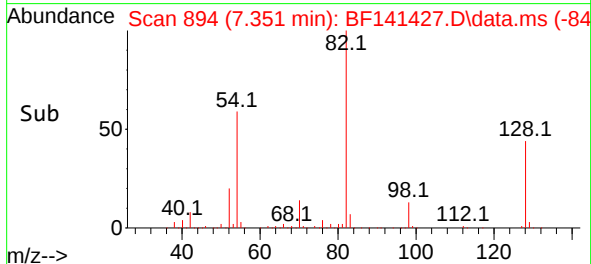
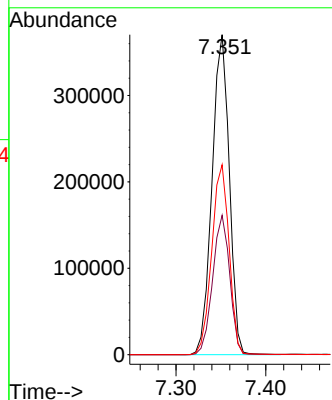
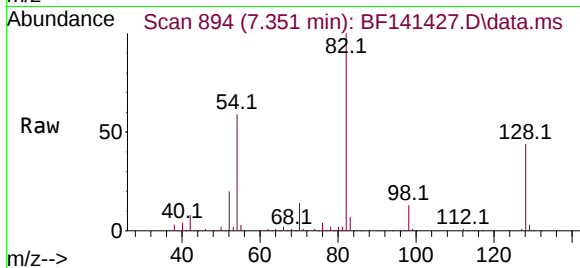
72-11984

Tgt Ion: 82 Resp: 49419
 Ion Ratio Lower Upper
 82 100
 128 43.5 35.7 53.5
 54 59.4 47.1 70.7

Manual Integrations

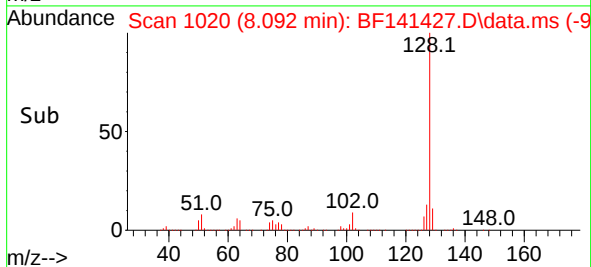
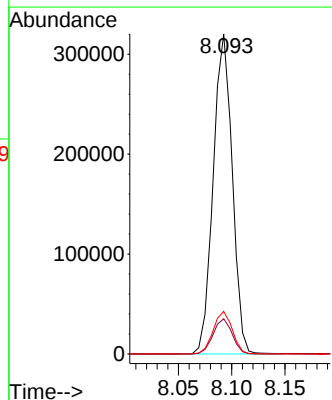
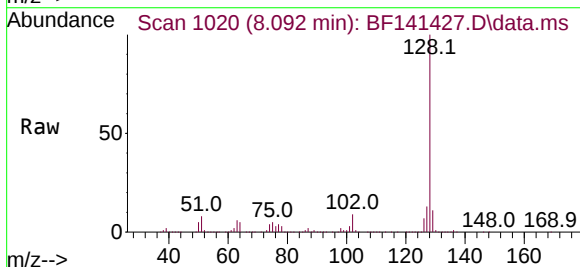
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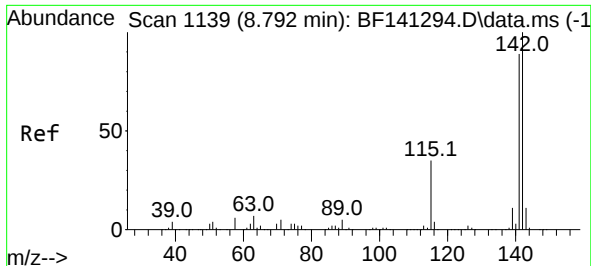
Reviewed By :Yogesh Patel 02/05/2025
 Supervised By :mohammad ahmed 02/05/2025



#31
 Naphthalene
 Concen: 23.761 ng
 RT: 8.092 min Scan# 1020
 Delta R.T. -0.018 min
 Lab File: BF141427.D
 Acq: 04 Feb 2025 23:30

Tgt Ion:128 Resp: 397774
 Ion Ratio Lower Upper
 128 100
 129 11.0 8.9 13.3
 127 13.3 10.6 15.8





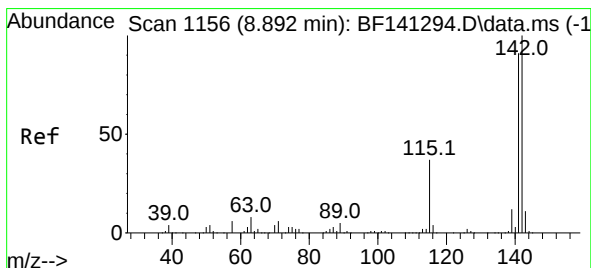
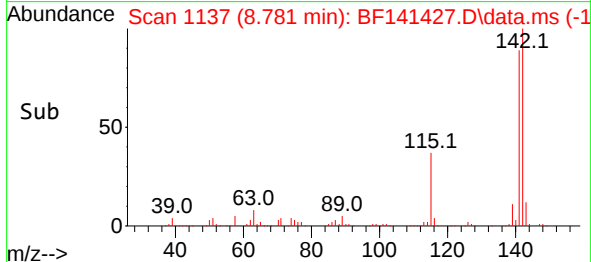
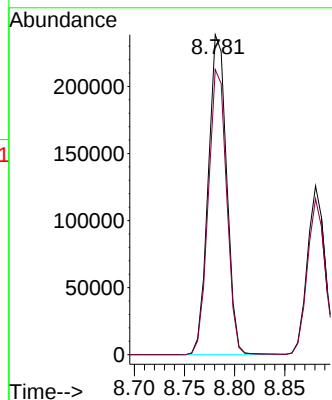
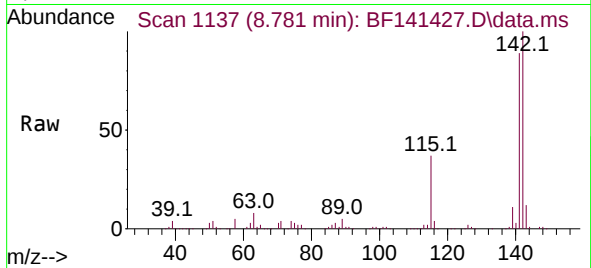
#37
2-Methylnaphthalene
Concen: 28.649 ng
RT: 8.781 min Scan# 1137
Delta R.T. -0.018 min
Lab File: BF141427.D
Acq: 04 Feb 2025 23:30

Instrument :
BNA_F
ClientSampleId :
72-11984

Tgt Ion:142 Resp: 304830
Ion Ratio Lower Upper
142 100
141 89.1 71.3 106.9

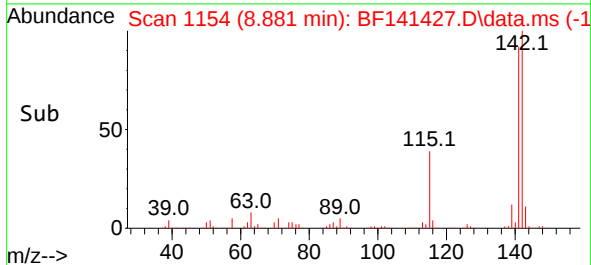
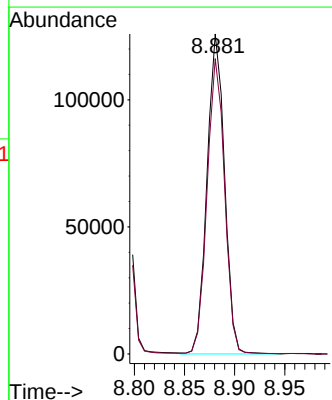
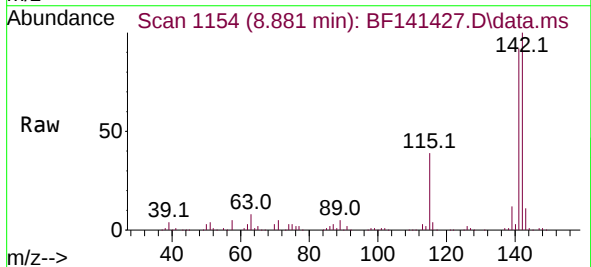
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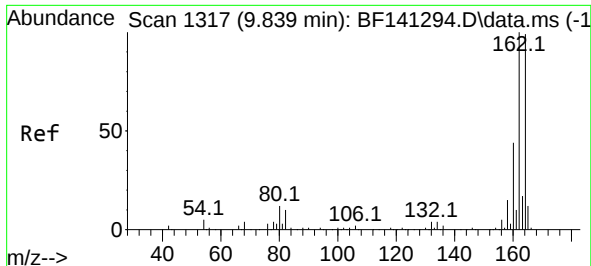
Reviewed By :Yogesh Patel 02/05/2025
Supervised By :mohammad ahmed 02/05/2025



#38
1-Methylnaphthalene
Concen: 14.691 ng
RT: 8.881 min Scan# 1154
Delta R.T. -0.018 min
Lab File: BF141427.D
Acq: 04 Feb 2025 23:30

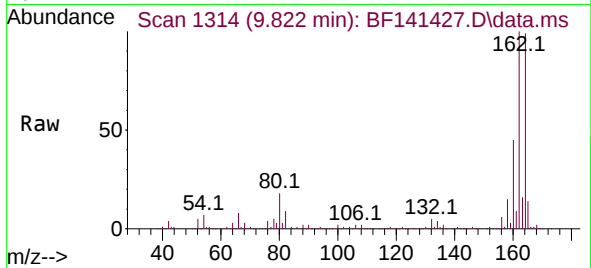
Tgt Ion:142 Resp: 153551
Ion Ratio Lower Upper
142 100
141 92.3 73.2 109.8





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.822 min Scan# 11
Delta R.T. -0.018 min
Lab File: BF141427.D
Acq: 04 Feb 2025 23:30

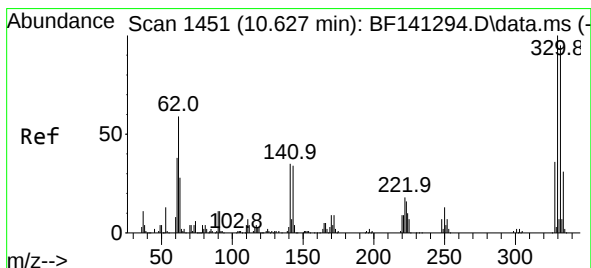
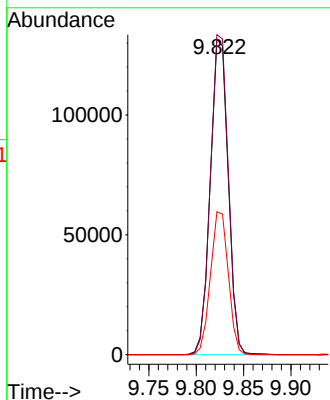
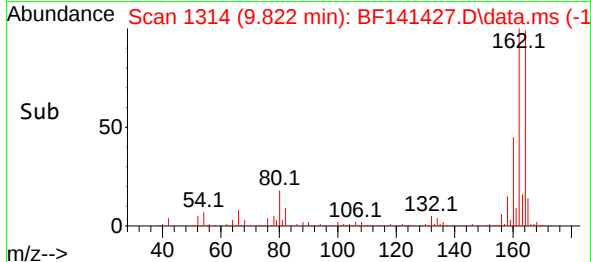
Instrument :
BNA_F
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72-11984



Tgt Ion:164 Resp: 173120
Ion Ratio Lower Upper
164 100
162 101.4 80.6 121.0
160 45.3 35.8 53.6

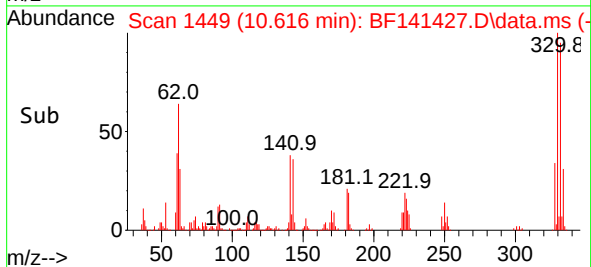
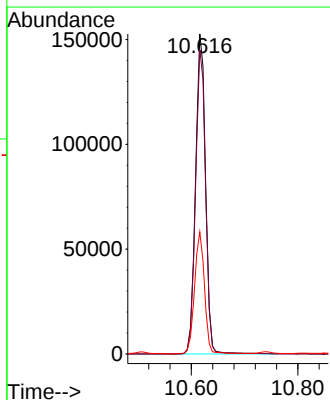
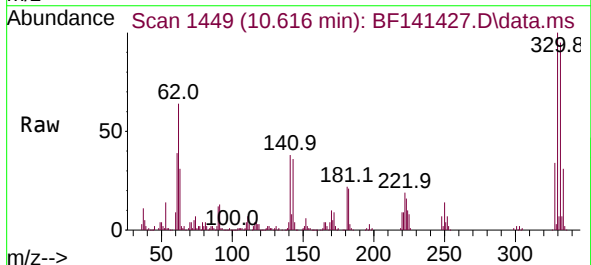
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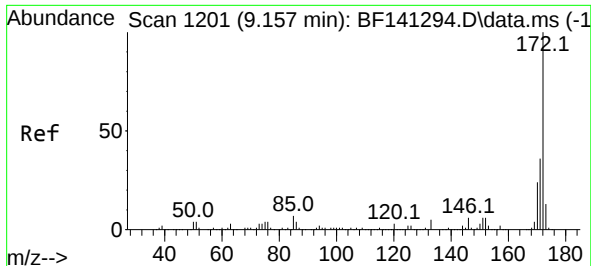
Reviewed By :Yogesh Patel 02/05/2025
Supervised By :mohammad ahmed 02/05/2025



#42
2,4,6-Tribromophenol
Concen: 125.769 ng
RT: 10.616 min Scan# 1449
Delta R.T. -0.018 min
Lab File: BF141427.D
Acq: 04 Feb 2025 23:30

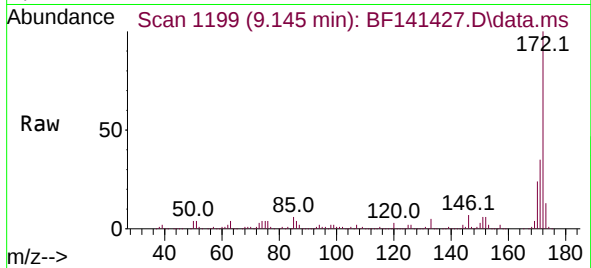
Tgt Ion:330 Resp: 199616
Ion Ratio Lower Upper
330 100
332 95.2 76.1 114.1
141 38.3 28.8 43.2





#45
2-Fluorobiphenyl
Concen: 76.634 ng
RT: 9.145 min Scan# 1199
Delta R.T. -0.018 min
Lab File: BF141427.D
Acq: 04 Feb 2025 23:30

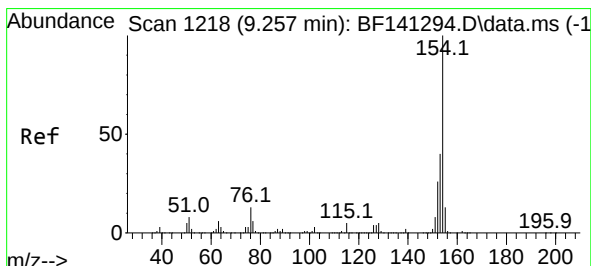
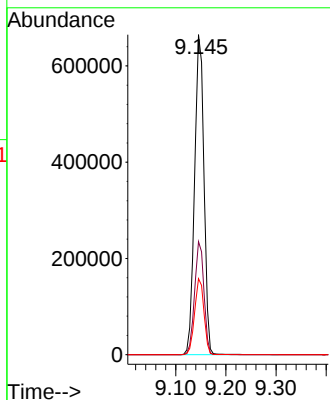
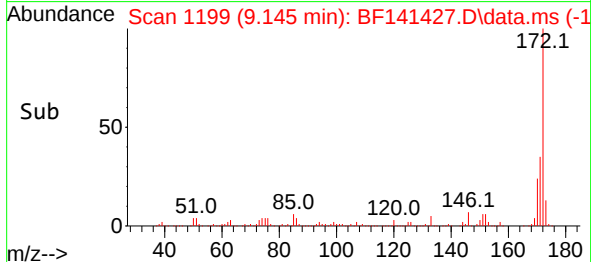
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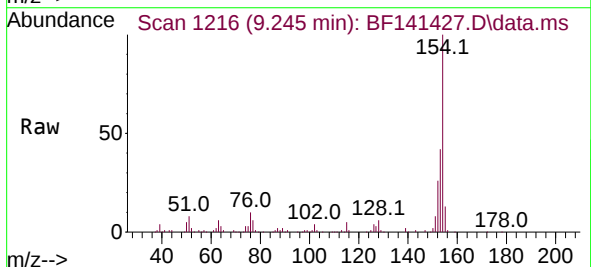
Tgt Ion:172 Resp: 86197
Ion Ratio Lower Upper
172 100
171 35.3 28.8 43.2
170 23.8 19.0 28.6

Manual Integrations
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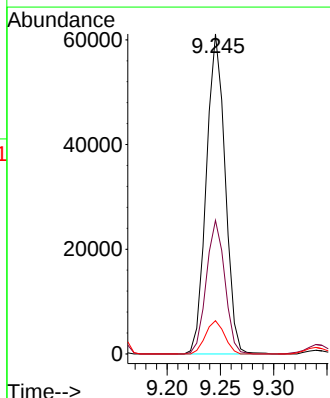
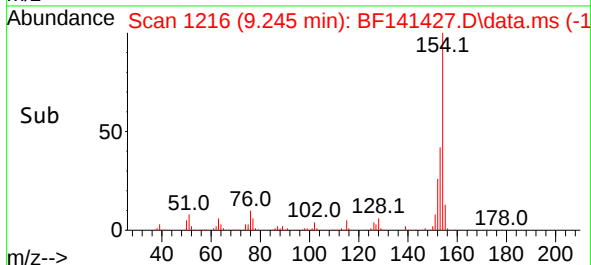
Reviewed By :Yogesh Patel 02/05/2025
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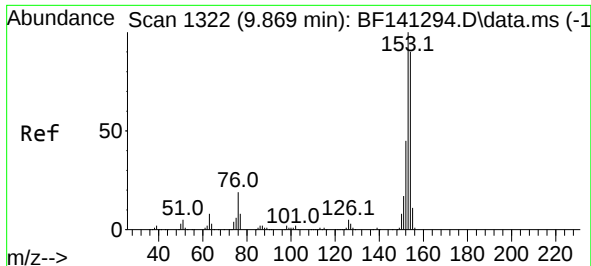


#46
1,1'-Biphenyl
Concen: 5.552 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.018 min
Lab File: BF141427.D
Acq: 04 Feb 2025 23:30



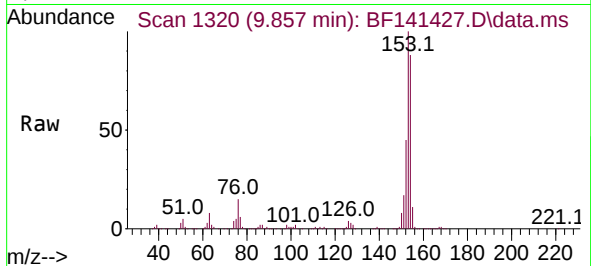
Tgt Ion:154 Resp: 74963
Ion Ratio Lower Upper
154 100
153 41.8 20.0 60.0
76 10.4 0.0 32.8





#52
Acenaphthene
Concen: 28.678 ng
RT: 9.857 min Scan# 11
Delta R.T. -0.018 min
Lab File: BF141427.D
Acq: 04 Feb 2025 23:30

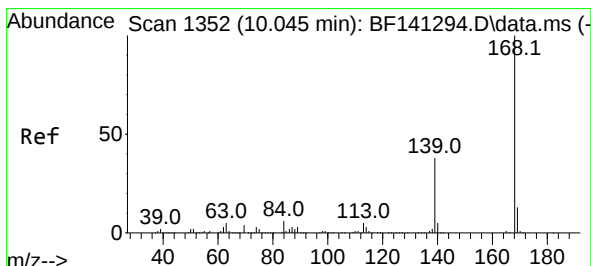
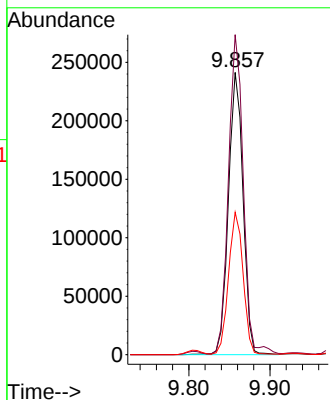
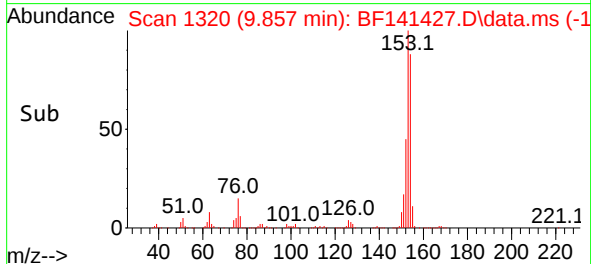
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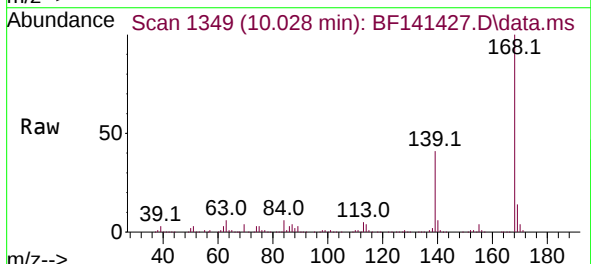
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Ion Ratio Lower Upper
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Manual Integrations
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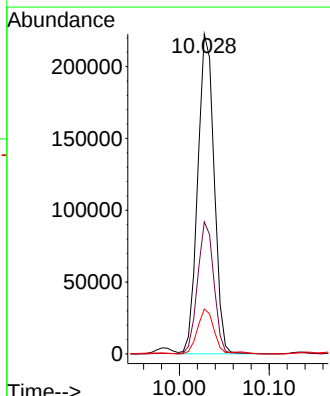
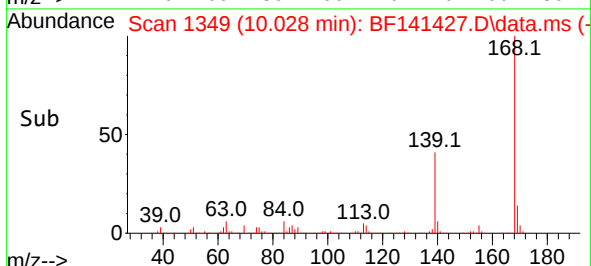
Reviewed By :Yogesh Patel 02/05/2025
Supervised By :mohammad ahmed 02/05/2025

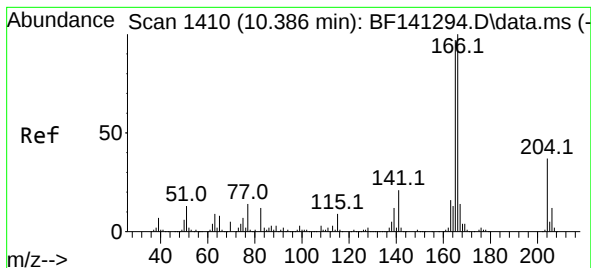


#55
Dibenzofuran
Concen: 20.031 ng
RT: 10.028 min Scan# 1349
Delta R.T. -0.018 min
Lab File: BF141427.D
Acq: 04 Feb 2025 23:30



Tgt Ion:168 Resp: 282182
Ion Ratio Lower Upper
168 100
139 41.3 30.6 46.0
169 14.0 10.8 16.2





#58

Fluorene

Concen: 22.545 ng

RT: 10.375 min Scan# 1410

Delta R.T. -0.018 min

Lab File: BF141427.D

Acq: 04 Feb 2025 23:30

Instrument :

BNA_F

ClientSampleId :

72-11984

Tgt Ion:166 Resp: 24635

Ion Ratio Lower Upper

166 100

165 98.9 77.5 116.3

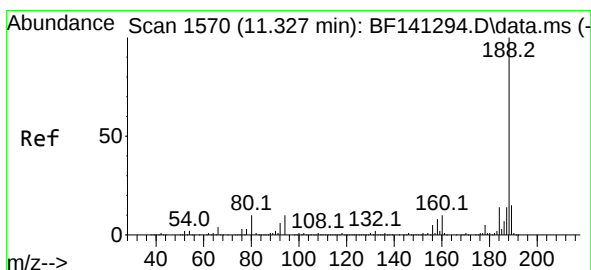
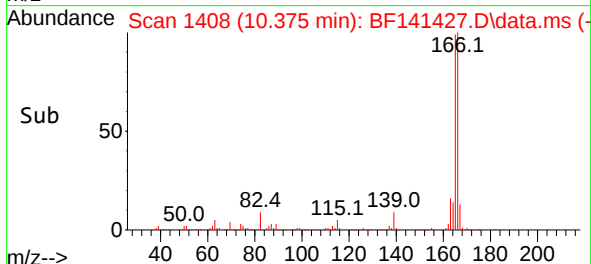
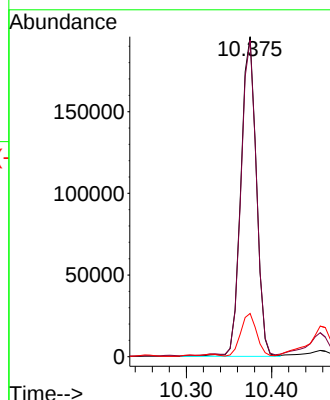
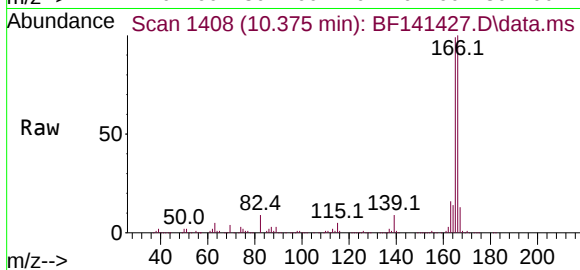
167 13.5 10.9 16.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/05/2025

Supervised By :mohammad ahmed 02/05/2025



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.316 min Scan# 1568

Delta R.T. -0.012 min

Lab File: BF141427.D

Acq: 04 Feb 2025 23:30

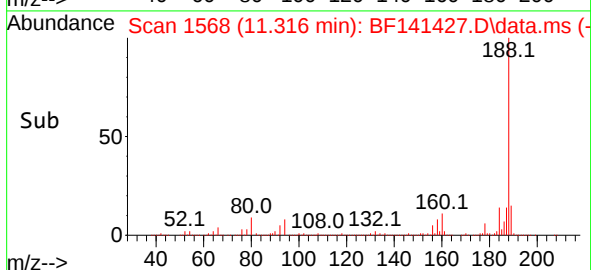
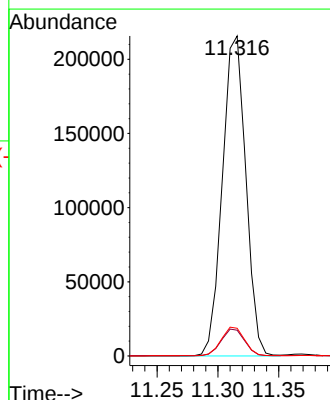
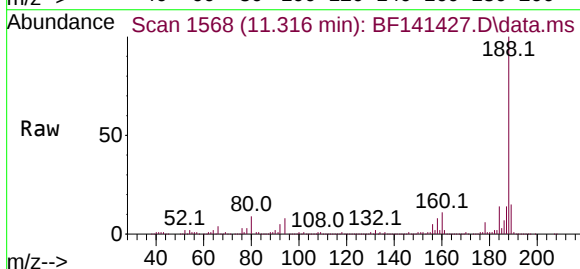
Tgt Ion:188 Resp: 289374

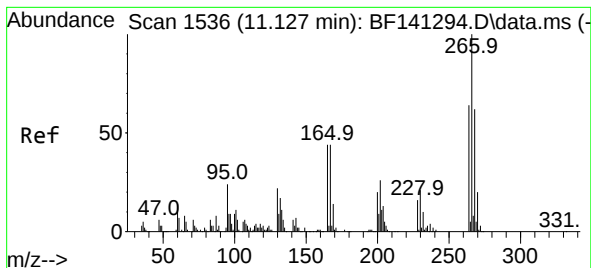
Ion Ratio Lower Upper

188 100

94 8.1 7.8 11.6

80 8.7 8.2 12.4





#70

Pentachlorophenol

Concen: 3.499 ng

RT: 11.122 min Scan# 1536

Delta R.T. -0.012 min

Lab File: BF141427.D

Acq: 04 Feb 2025 23:30

Instrument :

BNA_F

ClientSampleId :

72-11984

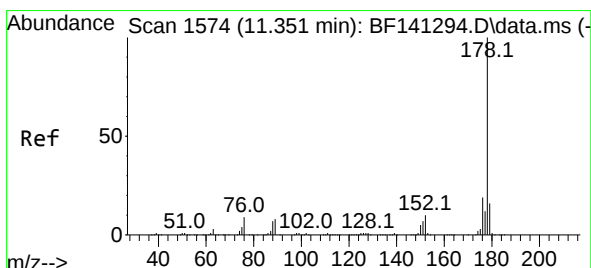
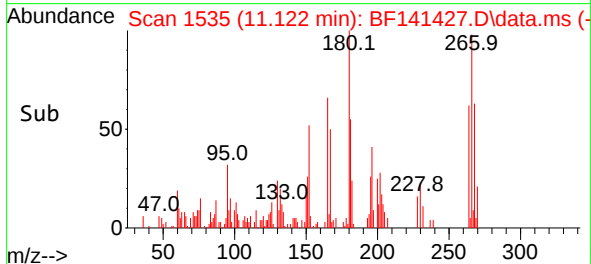
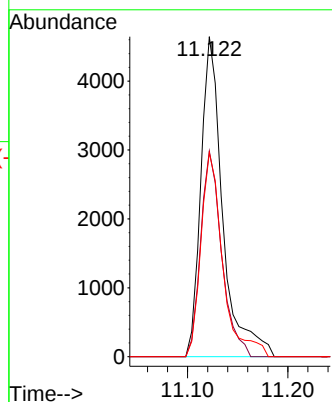
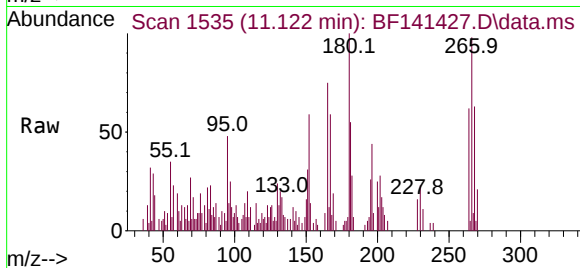
Tgt Ion:	266	Resp:	704
Ion Ratio	Lower	Upper	
266	100		
268	64.3	49.9	74.9
264	63.8	51.0	76.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/05/2025

Supervised By :mohammad ahmed 02/05/2025



#71

Phenanthrene

Concen: 50.857 ng

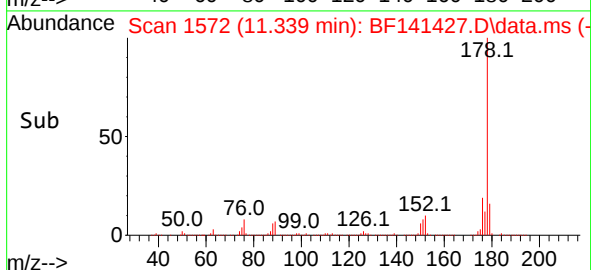
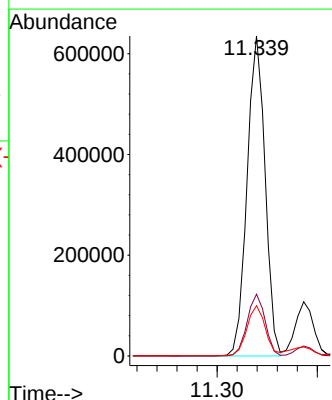
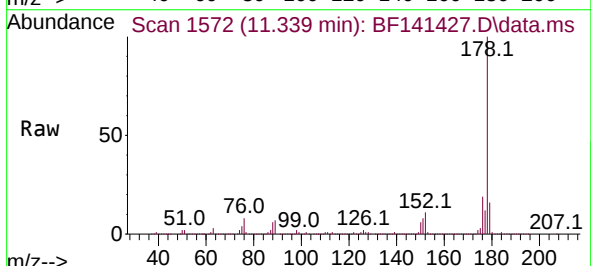
RT: 11.339 min Scan# 1572

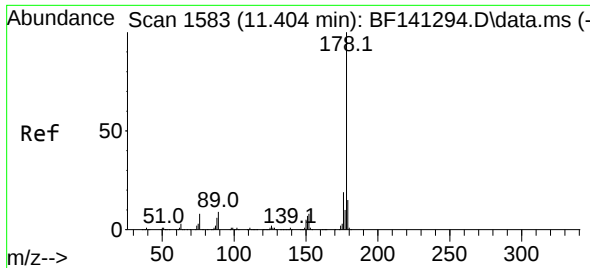
Delta R.T. -0.012 min

Lab File: BF141427.D

Acq: 04 Feb 2025 23:30

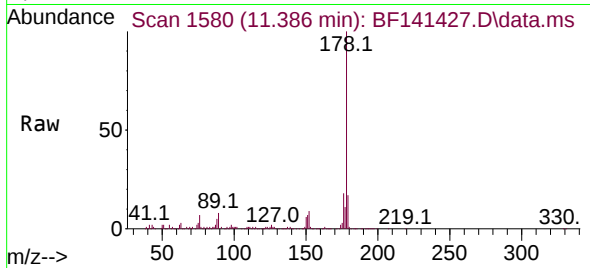
Tgt Ion:	178	Resp:	791080
Ion Ratio	Lower	Upper	
178	100		
176	19.3	15.3	22.9
179	15.7	12.5	18.7





#72
 Anthracene
 Concen: 9.070 ng
 RT: 11.386 min Scan# 11
 Delta R.T. -0.018 min
 Lab File: BF141427.D
 Acq: 04 Feb 2025 23:30

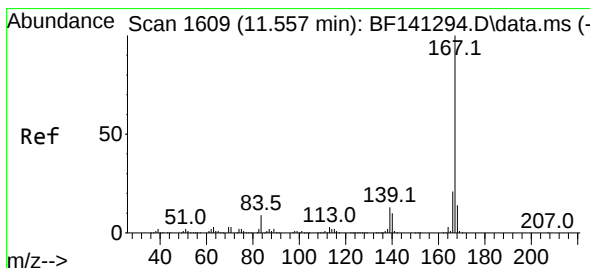
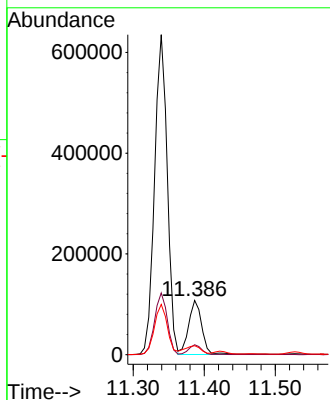
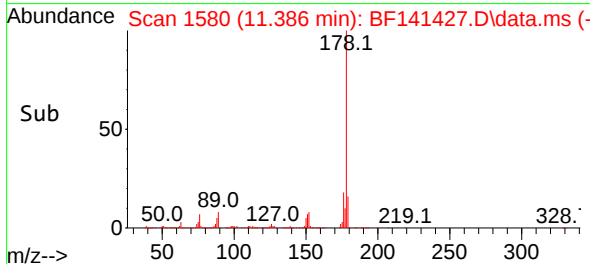
Instrument :
 BNA_F
 ClientSampleId :
 72-11984



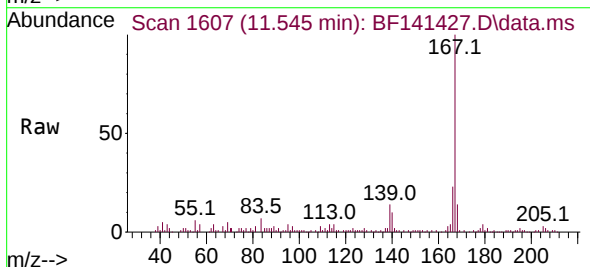
Tgt Ion:178 Resp: 13824
 Ion Ratio Lower Upper
 178 100
 176 18.4 15.0 22.6
 179 16.5 12.3 18.5

Manual Integrations
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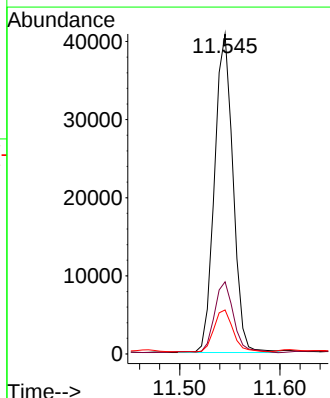
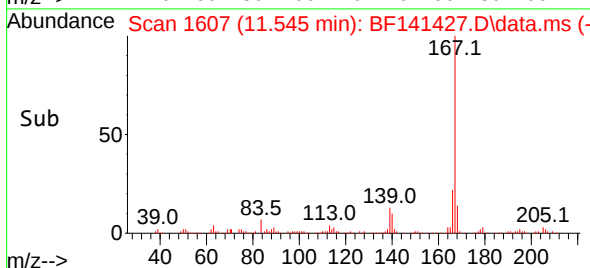
Reviewed By :Yogesh Patel 02/05/2025
 Supervised By :mohammad ahmed 02/05/2025

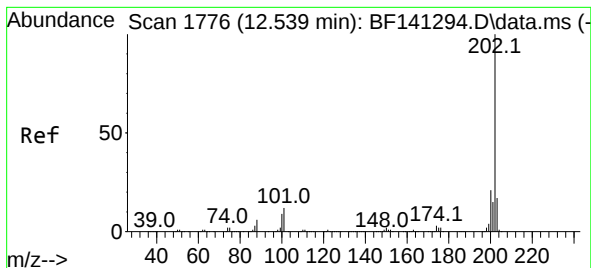


#73
 Carbazole
 Concen: 3.860 ng
 RT: 11.545 min Scan# 1607
 Delta R.T. -0.012 min
 Lab File: BF141427.D
 Acq: 04 Feb 2025 23:30



Tgt Ion:167 Resp: 52169
 Ion Ratio Lower Upper
 167 100
 166 22.6 17.0 25.6
 139 13.8 10.6 16.0





#75

Fluoranthene

Concen: 24.738 ng

RT: 12.528 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF141427.D

Acq: 04 Feb 2025 23:30

Instrument :

BNA_F

ClientSampleId :

72-11984

Tgt Ion:202 Resp: 37995

Ion Ratio Lower Upper

202 100

101 9.5 0.0 31.7

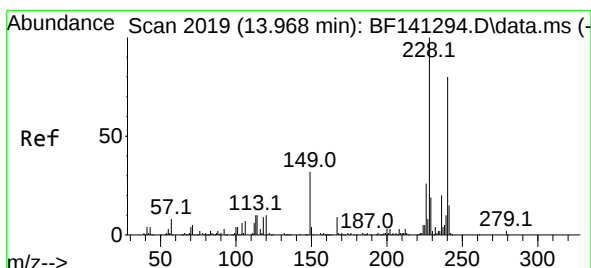
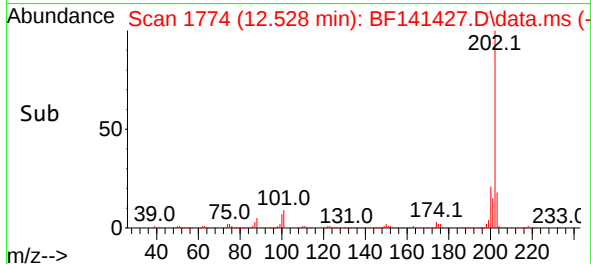
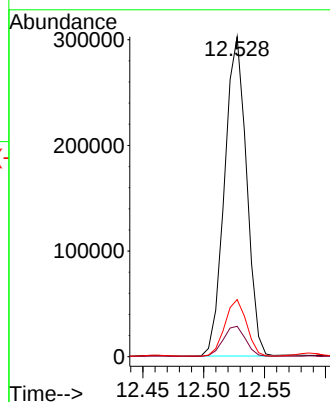
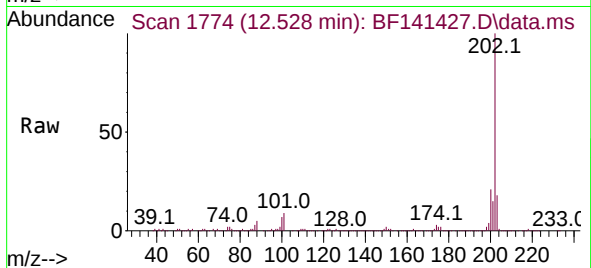
203 17.9 0.0 37.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/05/2025

Supervised By :mohammad ahmed 02/05/2025



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.951 min Scan# 2016

Delta R.T. -0.024 min

Lab File: BF141427.D

Acq: 04 Feb 2025 23:30

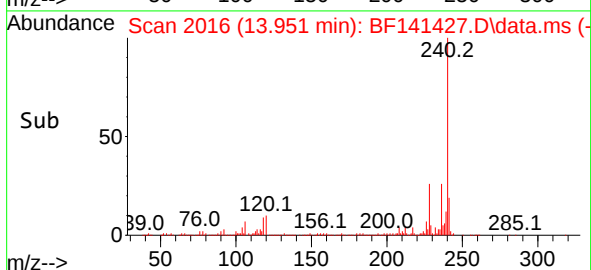
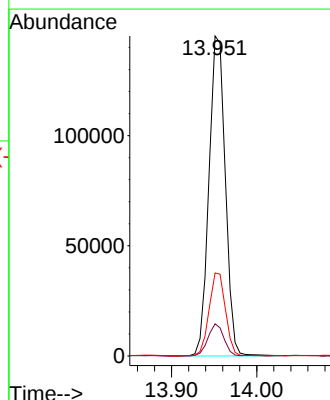
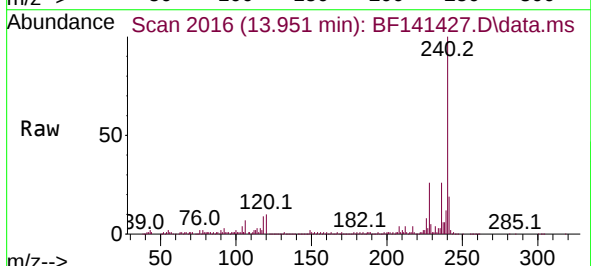
Tgt Ion:240 Resp: 194232

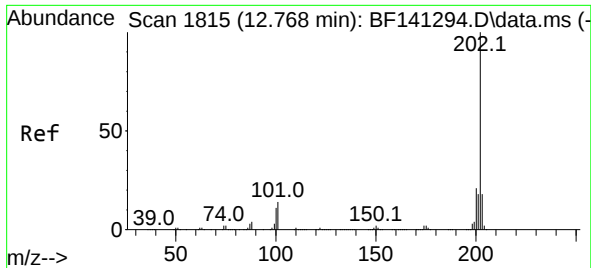
Ion Ratio Lower Upper

240 100

120 10.0 10.0 15.0

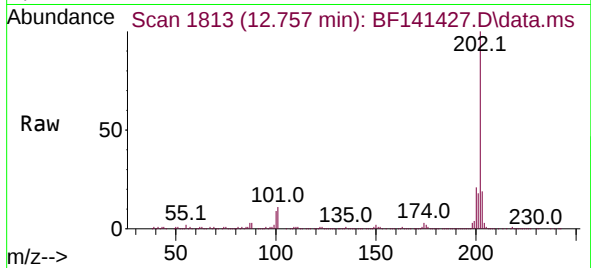
236 25.9 19.7 29.5





#78
Pyrene
Concen: 14.743 ng
RT: 12.757 min Scan# 1813
Delta R.T. -0.012 min
Lab File: BF141427.D
Acq: 04 Feb 2025 23:30

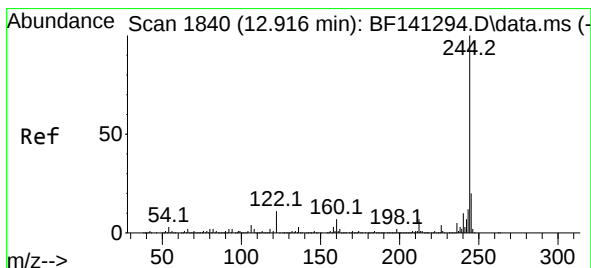
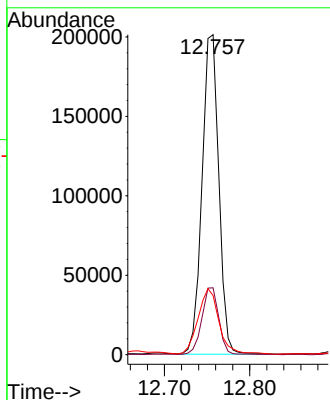
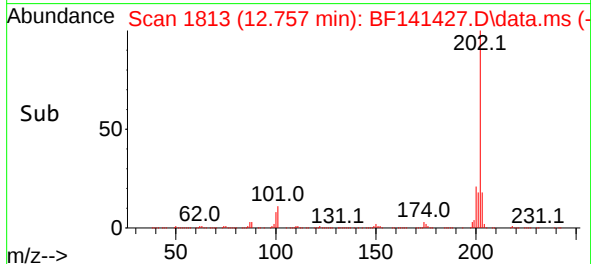
Instrument :
BNA_F
ClientSampleId :
72-11984



Tgt Ion:202 Resp: 27486
Ion Ratio Lower Upper
202 100
200 20.9 17.0 25.4
203 18.5 14.3 21.5

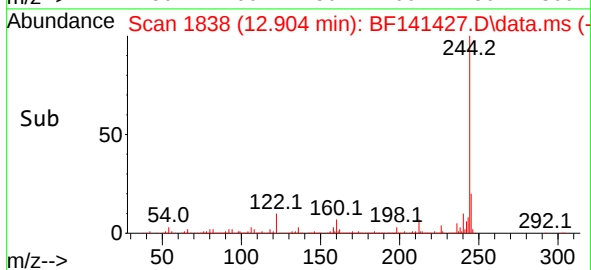
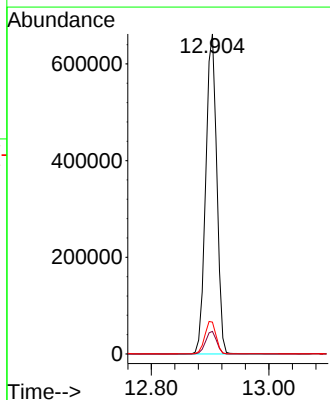
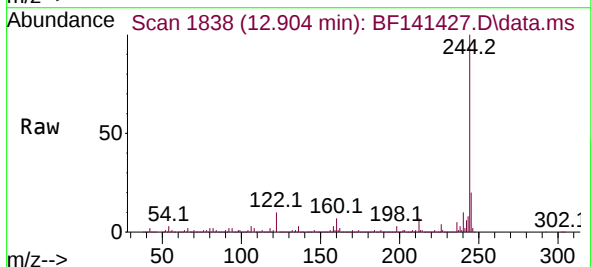
Manual Integrations
APPROVED

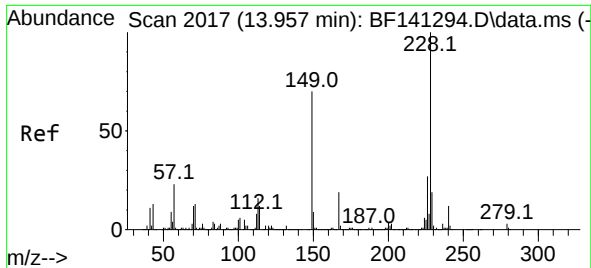
Reviewed By :Yogesh Patel 02/05/2025
Supervised By :mohammad ahmed 02/05/2025



#79
Terphenyl-d14
Concen: 68.475 ng
RT: 12.904 min Scan# 1838
Delta R.T. -0.012 min
Lab File: BF141427.D
Acq: 04 Feb 2025 23:30

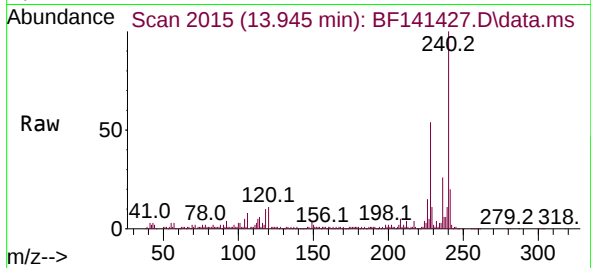
Tgt Ion:244 Resp: 862418
Ion Ratio Lower Upper
244 100
212 7.0 5.4 8.0
122 9.9 8.8 13.2





#81
Benzo(a)anthracene
Concen: 5.931 ng
RT: 13.945 min Scan# 2015
Delta R.T. -0.018 min
Lab File: BF141427.D
Acq: 04 Feb 2025 23:30

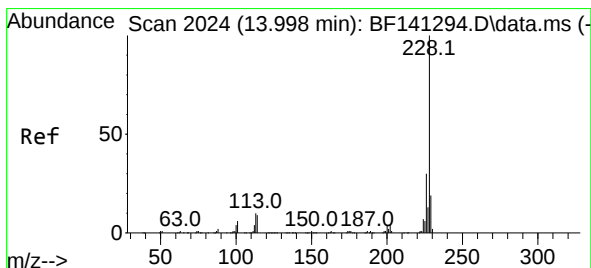
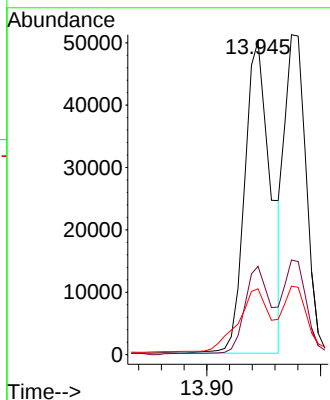
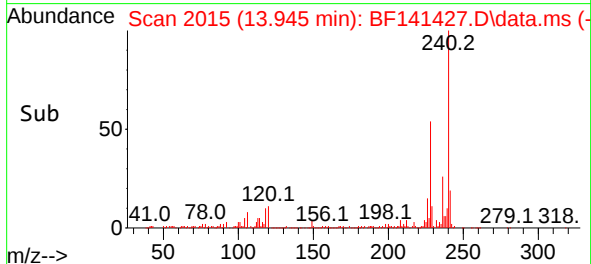
Instrument :
BNA_F
ClientSampleId :
72-11984



Tgt Ion:228 Resp: 79494
Ion Ratio Lower Upper
228 100
226 28.2 21.4 32.2
229 21.0 15.5 23.3

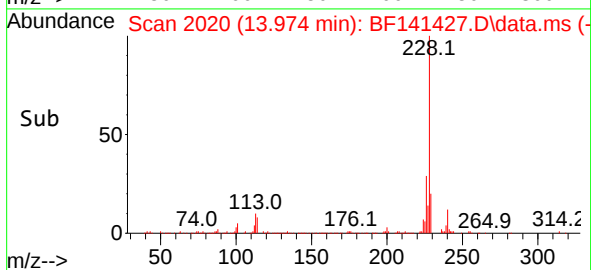
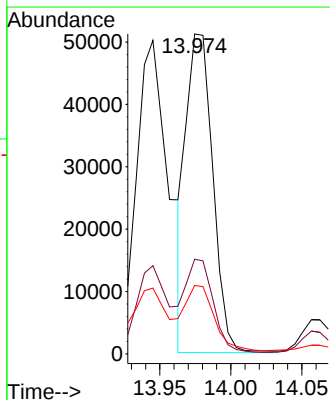
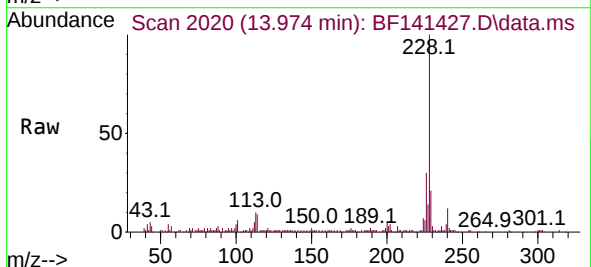
Manual Integrations
APPROVED

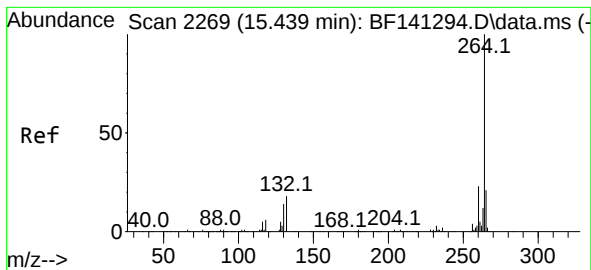
Reviewed By :Yogesh Patel 02/05/2025
Supervised By :mohammad ahmed 02/05/2025



#83
Chrysene
Concen: 5.458 ng
RT: 13.974 min Scan# 2020
Delta R.T. -0.024 min
Lab File: BF141427.D
Acq: 04 Feb 2025 23:30

Tgt Ion:228 Resp: 67044
Ion Ratio Lower Upper
228 100
226 29.6 24.1 36.1
229 21.4 15.6 23.4





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.404 min Scan# 2192

Delta R.T. -0.035 min

Lab File: BF141427.D

Acq: 04 Feb 2025 23:30

Instrument :

BNA_F

ClientSampleId :

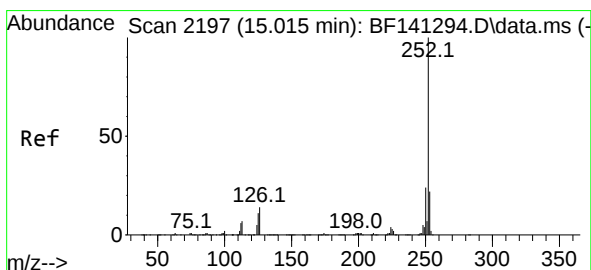
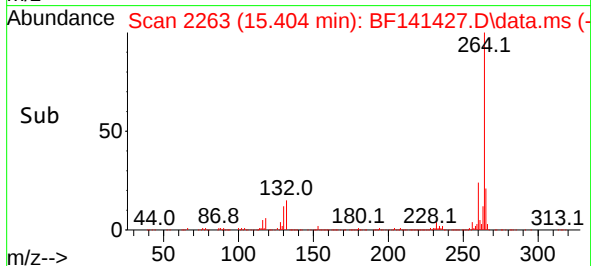
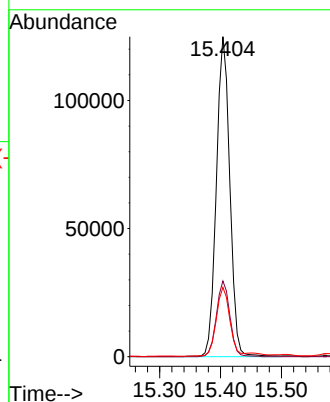
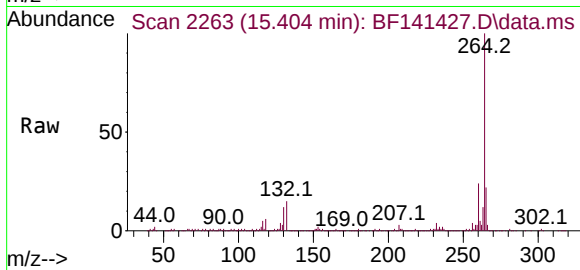
72-11984

Tgt Ion:264 Resp: 19184
 Ion Ratio Lower Upper
 264 100
 260 23.7 18.6 27.8
 265 21.7 16.7 25.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/05/2025
 Supervised By :mohammad ahmed 02/05/2025



#88

Benzo(b)fluoranthene

Concen: 6.206 ng m

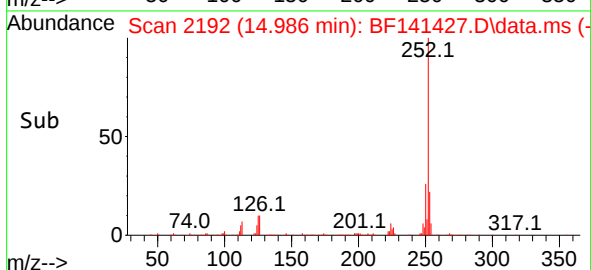
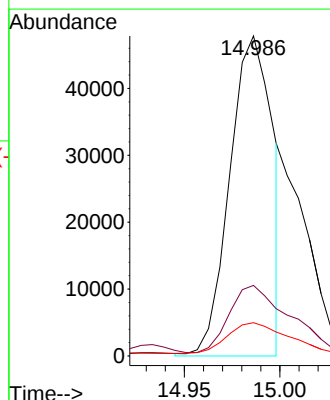
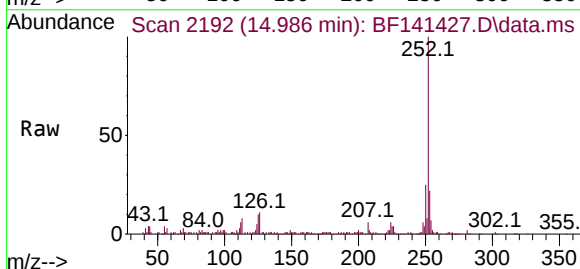
RT: 14.986 min Scan# 2192

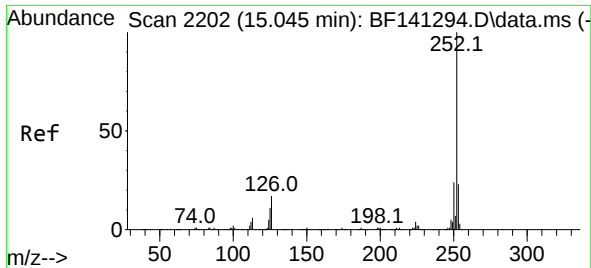
Delta R.T. -0.035 min

Lab File: BF141427.D

Acq: 04 Feb 2025 23:30

Tgt Ion:252 Resp: 74886
 Ion Ratio Lower Upper
 252 100
 253 22.1 17.4 26.2
 125 10.4 8.6 12.8





#89

Benzo(k)fluoranthene

Concen: 2.757 ng m

RT: 14.998 min Scan# 2194

Delta R.T. -0.053 min

Lab File: BF141427.D

Acq: 04 Feb 2025 23:30

Instrument :

BNA_F

ClientSampleId :

72-11984

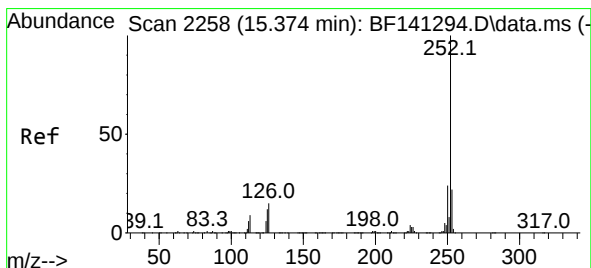
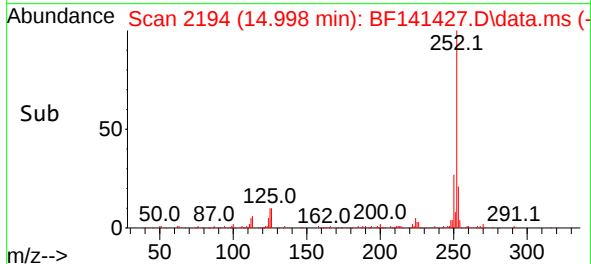
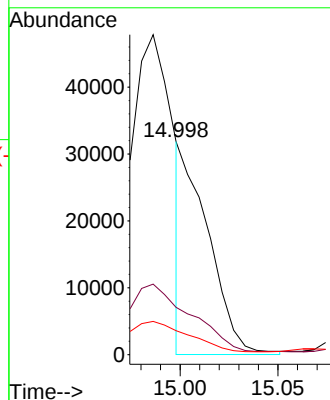
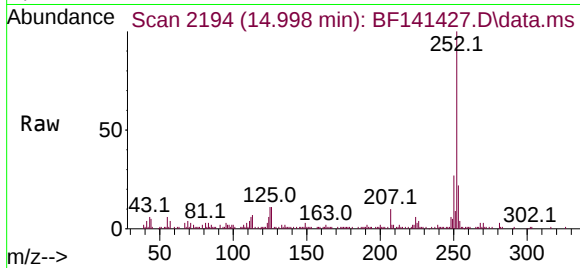
Tgt Ion:252	Resp:	29474
Ion Ratio	Lower	Upper
252	100	
253	22.3	17.6 26.4
125	11.3	8.4 12.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/05/2025

Supervised By :mohammad ahmed 02/05/2025



#90

Benzo(a)pyrene

Concen: 3.858 ng

RT: 15.339 min Scan# 2252

Delta R.T. -0.041 min

Lab File: BF141427.D

Acq: 04 Feb 2025 23:30

Tgt Ion:252	Resp:	39340
Ion Ratio	Lower	Upper
252	100	
253	23.9	17.2 25.8
125	11.4	9.4 14.2

