

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112525\
 Data File : BF144355.D
 Acq On : 25 Nov 2025 17:44
 Operator : RC/JU
 Sample : Q3710-01DL 10X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RBR200028-RT5376-COMPDL

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 11/26/2025
 Supervised By :mohammad ahmed 11/27/2025

Quant Time: Nov 25 18:05:09 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 05 18:37:33 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.863	152	64672	20.000	ng	-0.01
21) Naphthalene-d8	8.145	136	240359	20.000	ng	-0.01
39) Acenaphthene-d10	9.898	164	119030	20.000	ng	-0.02
64) Phenanthrene-d10	11.392	188	181521	20.000	ng	-0.01
76) Chrysene-d12	14.039	240	167558	20.000	ng	-0.01
86) Perylene-d12	15.521	264	217919	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	39415	9.537	ng	0.00
7) Phenol-d6	6.498	99	43235	9.233	ng	0.00
23) Nitrobenzene-d5	7.422	82	23973	5.760	ng	-0.01
42) 2,4,6-Tribromophenol	10.692	330	9879	6.614	ng	-0.01
45) 2-Fluorobiphenyl	9.216	172	51423	6.381	ng	-0.01
79) Terphenyl-d14	12.974	244	43071	4.083	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.163	128	206682	18.077	ng	98
37) 2-Methylnaphthalene	8.857	142	168611	22.057	ng	100
38) 1-Methylnaphthalene	8.957	142	134160	18.189	ng	99
46) 1,1'-Biphenyl	9.316	154	18936	2.279	ng	98
49) Acenaphthylene	9.763	152	40013	4.143	ng	# 94
52) Acenaphthene	9.933	154	29231	4.526	ng	95
58) Fluorene	10.451	166	92702	13.479	ng	# 97
71) Phenanthrene	11.416	178	332055	36.741	ng	99
72) Anthracene	11.463	178	66399	7.225	ng	98
75) Fluoranthene	12.610	202	167737	17.967	ng	96
78) Pyrene	12.839	202	293289	21.709	ng	97
81) Benzo(a)anthracene	14.027	228	134599	11.590	ng	# 91
83) Chrysene	14.063	228	135821	12.669	ng	# 92
87) Indeno(1,2,3-cd)pyrene	17.009	276	39143	2.502	ng	97
88) Benzo(b)fluoranthene	15.086	252	90564m	7.310	ng	
89) Benzo(k)fluoranthene	15.104	252	25955m	2.238	ng	
90) Benzo(a)pyrene	15.457	252	94904	8.303	ng	# 94
92) Benzo(g,h,i)perylene	17.462	276	41965	3.383	ng	# 93

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

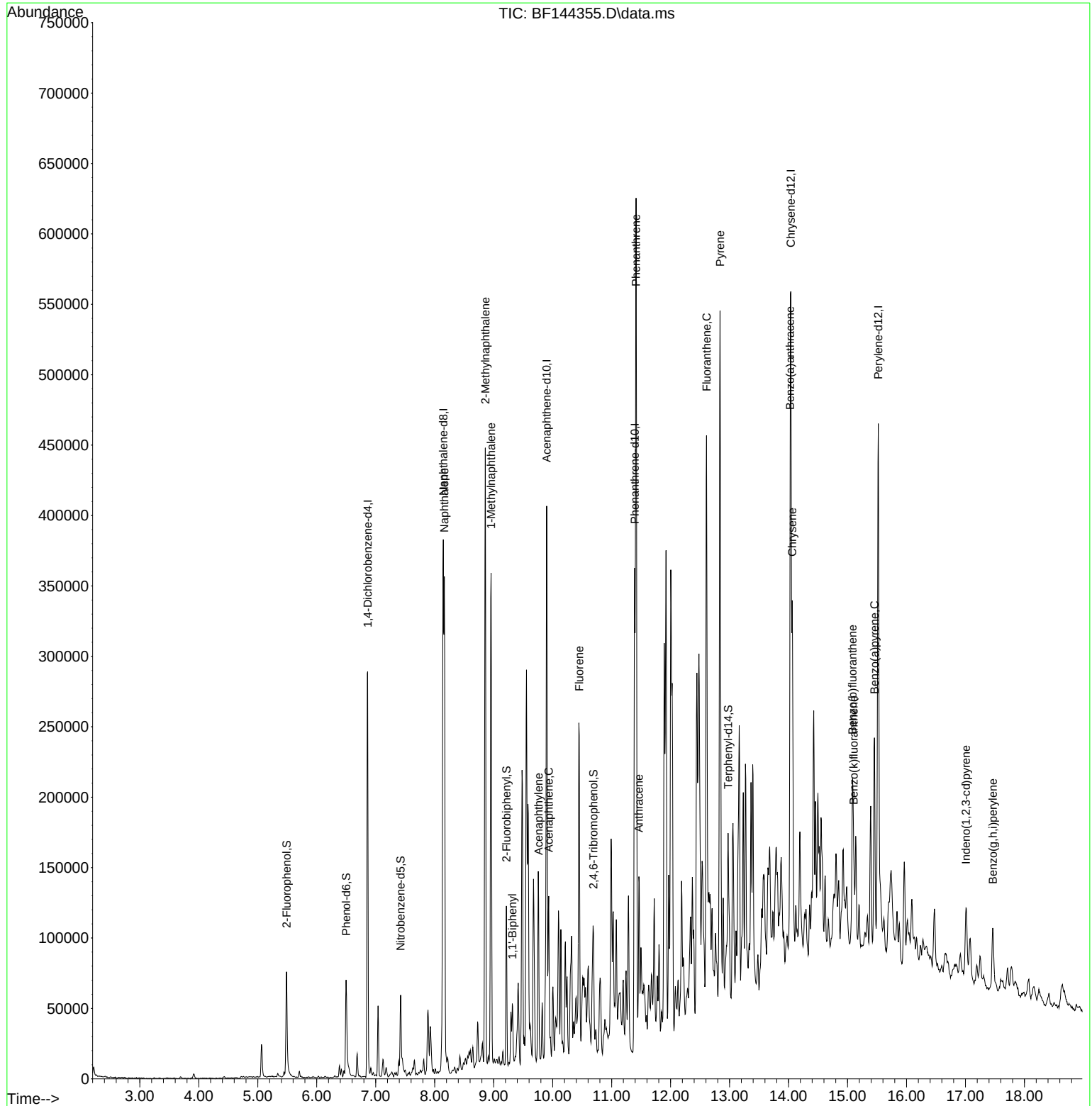
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112525\
Data File : BF144355.D
Acq On : 25 Nov 2025 17:44
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ALS Vial : 9 Sample Multiplier: 1

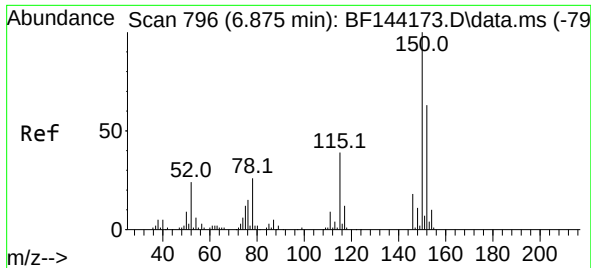
Instrument :
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ClientSampleId :
RBR200028-RT5376-COMPDL

Quant Time: Nov 25 18:05:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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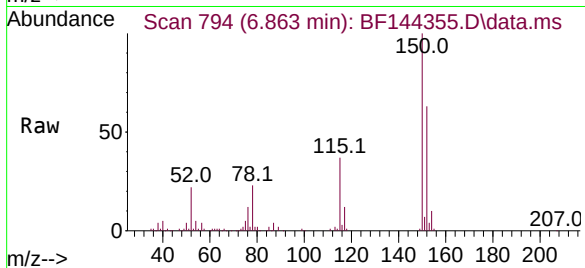
Reviewed By :Jagrut Upadhyay 11/26/2025
Supervised By :mohammad ahmed 11/27/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.863 min Scan# 796
Delta R.T. -0.012 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

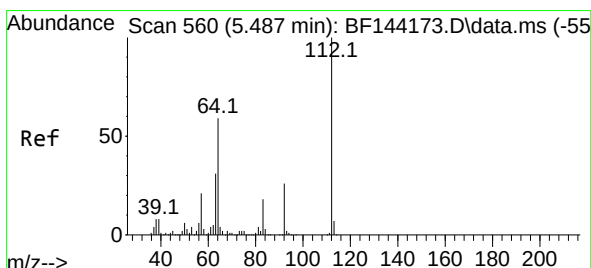
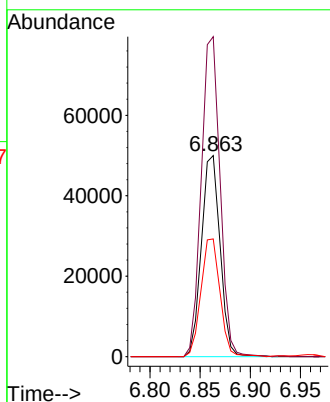
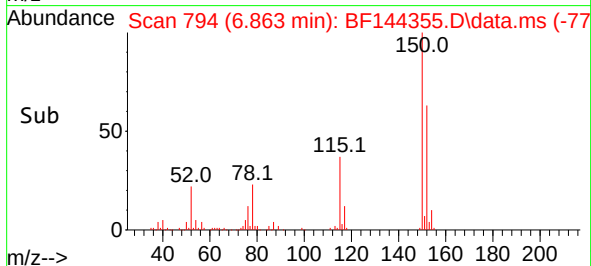
Instrument :
BNA_F
ClientSampleId :
RBR200028-RT5376-COMPDL



Tgt Ion:152 Resp: 64672
Ion Ratio Lower Upper
152 100
150 159.1 127.4 191.0
115 58.6 49.5 74.3

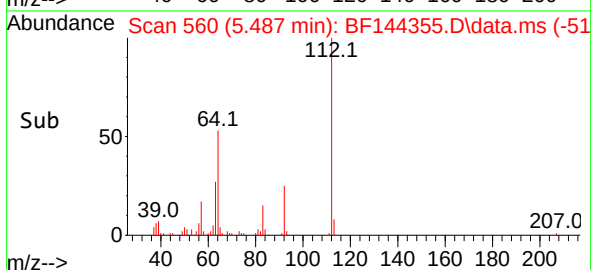
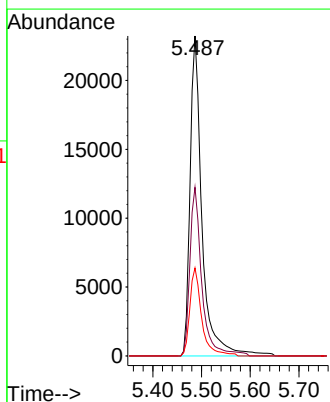
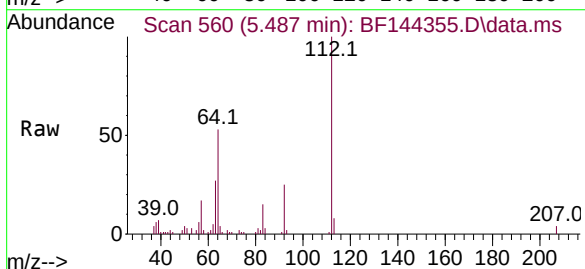
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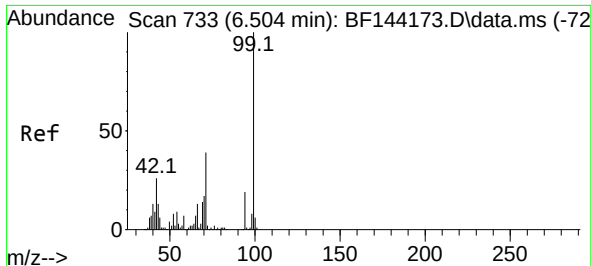
Reviewed By :Jagrut Upadhyay 11/26/2025
Supervised By :mohammad ahmed 11/27/2025



#5
2-Fluorophenol
Concen: 9.537 ng
RT: 5.487 min Scan# 560
Delta R.T. -0.006 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

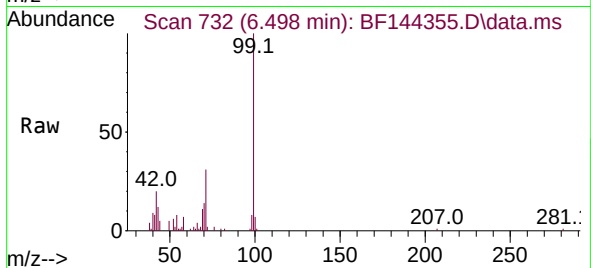
Tgt Ion:112 Resp: 39415
Ion Ratio Lower Upper
112 100
64 52.7 47.2 70.8
63 27.5 24.4 36.6





#7
Phenol-d6
Concen: 9.233 ng
RT: 6.498 min Scan# 731
Delta R.T. -0.000 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

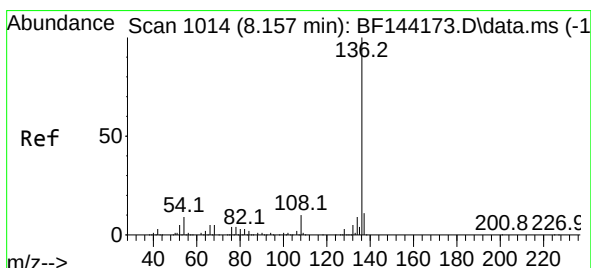
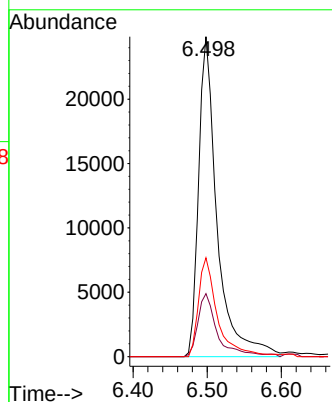
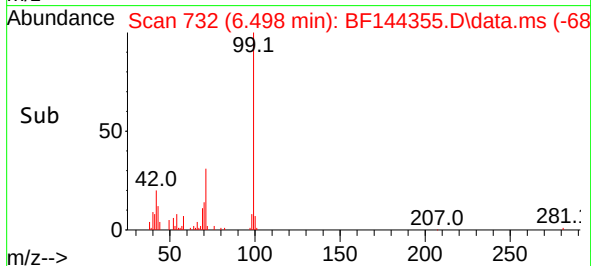
Instrument :
BNA_F
ClientSampleId :
RBR200028-RT5376-COMPDL



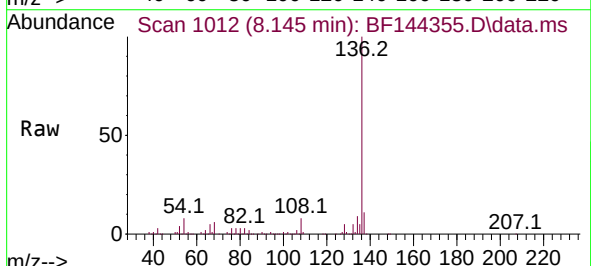
Tgt Ion: 99 Resp: 43235
Ion Ratio Lower Upper
99 100
42 19.7 20.9 31.3
71 30.9 31.4 47.2

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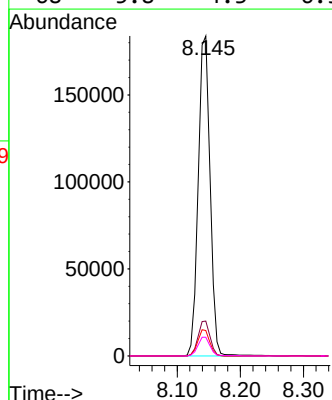
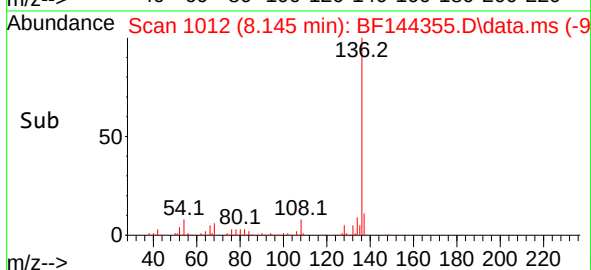
Reviewed By :Jagrut Upadhyay 11/26/2025
Supervised By :mohammad ahmed 11/27/2025

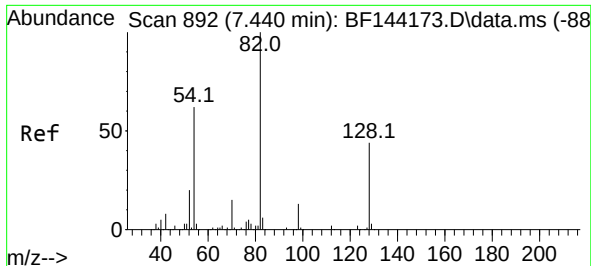


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.145 min Scan# 1012
Delta R.T. -0.012 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44



Tgt Ion:136 Resp: 240359
Ion Ratio Lower Upper
136 100
137 10.9 8.6 13.0
54 7.9 7.0 10.6
68 5.8 4.3 6.5





#23

Nitrobenzene-d5

Concen: 5.760 ng

RT: 7.422 min Scan# 889

Delta R.T. -0.012 min

Lab File: BF144355.D

Acq: 25 Nov 2025 17:44

Instrument :

BNA_F

ClientSampleId :

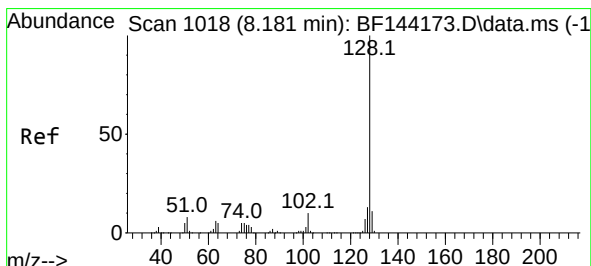
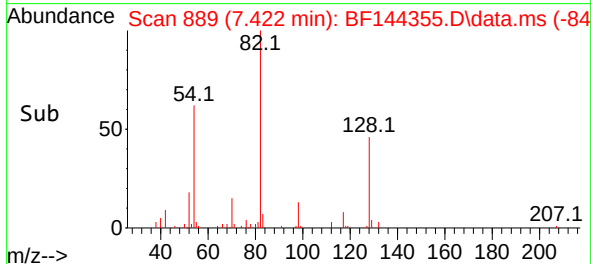
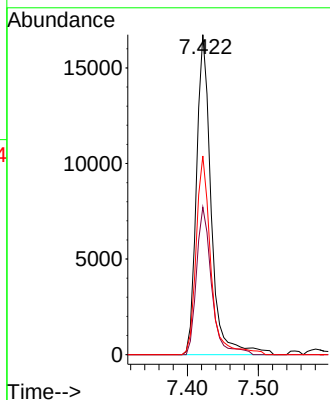
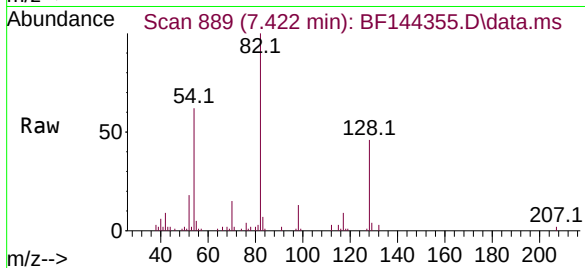
RBR200028-RT5376-COMPDL

Tgt Ion:	82	Resp:	23973
Ion Ratio	Lower	Upper	
82	100		
128	46.1	34.7	52.1
54	62.1	49.5	74.3

Manual Integrations

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#31

Naphthalene

Concen: 18.077 ng

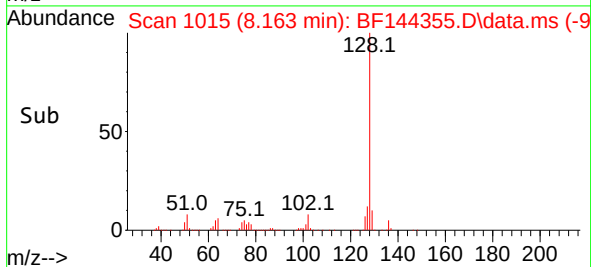
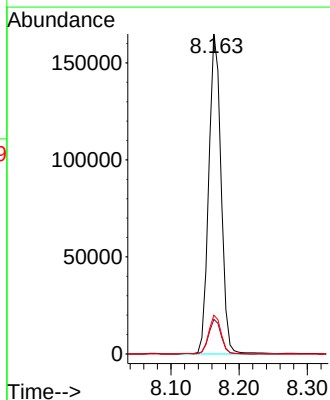
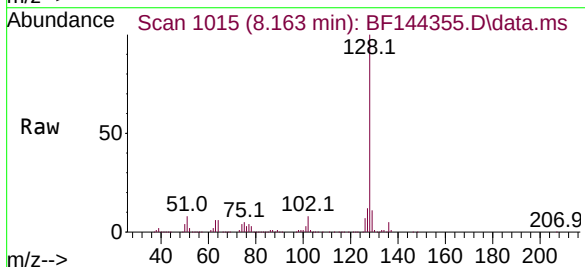
RT: 8.163 min Scan# 1015

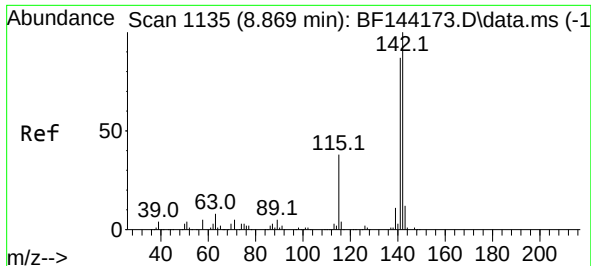
Delta R.T. -0.012 min

Lab File: BF144355.D

Acq: 25 Nov 2025 17:44

Tgt Ion:	128	Resp:	206682
Ion Ratio	Lower	Upper	
128	100		
129	10.8	8.9	13.3
127	12.1	10.3	15.5





#37

2-Methylnaphthalene

Concen: 22.057 ng

RT: 8.857 min Scan# 1135

Delta R.T. -0.012 min

Lab File: BF144355.D

Acq: 25 Nov 2025 17:44

Instrument :

BNA_F

ClientSampleId :

RBR200028-RT5376-COMPDL

Tgt Ion:142 Resp: 16861

Ion Ratio Lower Upper

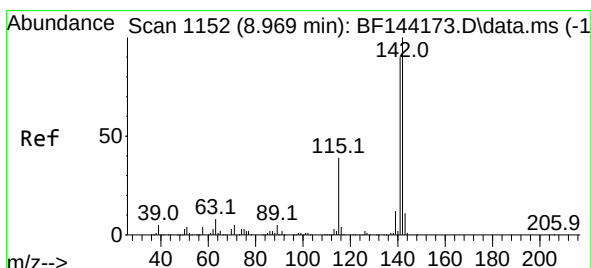
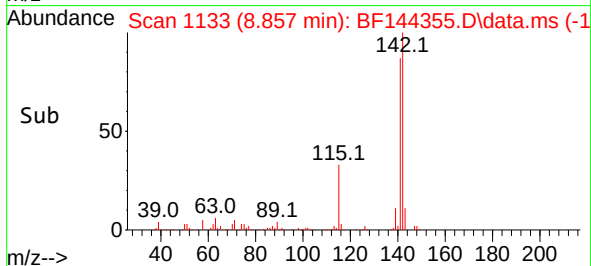
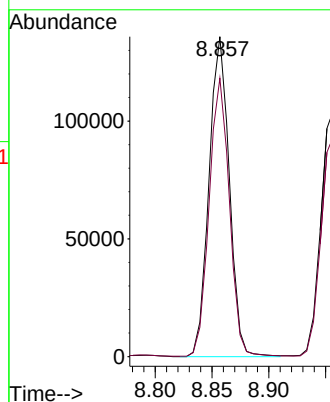
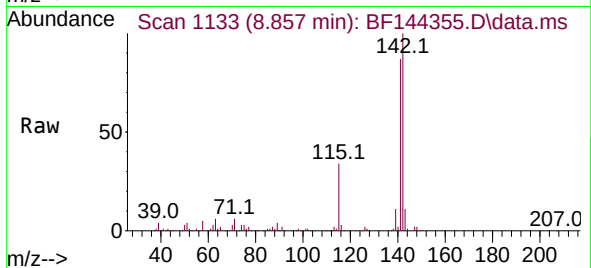
142 100

141 87.0 69.9 104.9

Manual Integrations

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Reviewed By :Jagrut Upadhyay 11/26/2025
Supervised By :mohammad ahmed 11/27/2025



#38

1-Methylnaphthalene

Concen: 18.189 ng

RT: 8.957 min Scan# 1150

Delta R.T. -0.012 min

Lab File: BF144355.D

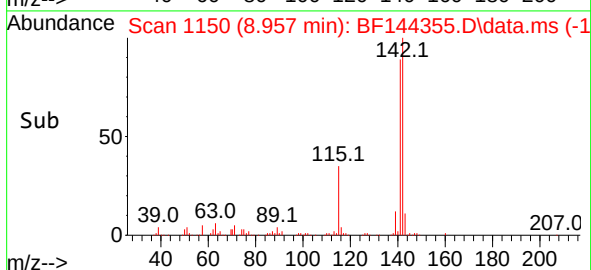
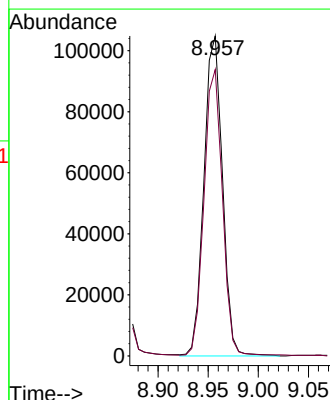
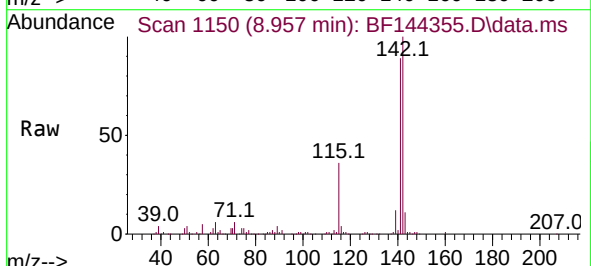
Acq: 25 Nov 2025 17:44

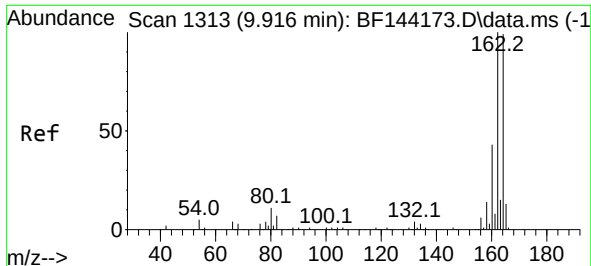
Tgt Ion:142 Resp: 134160

Ion Ratio Lower Upper

142 100

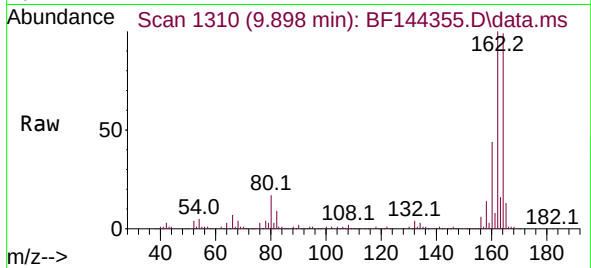
141 89.5 72.1 108.1





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.898 min Scan# 1310
Delta R.T. -0.018 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

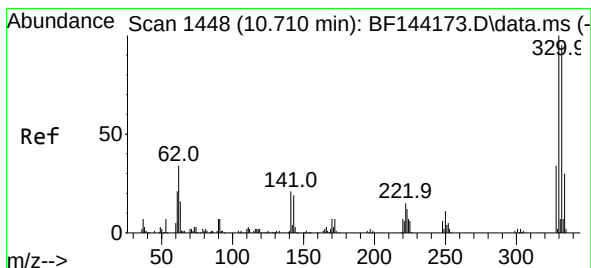
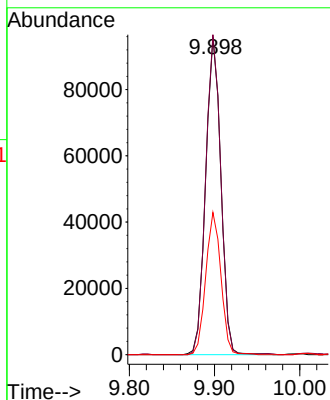
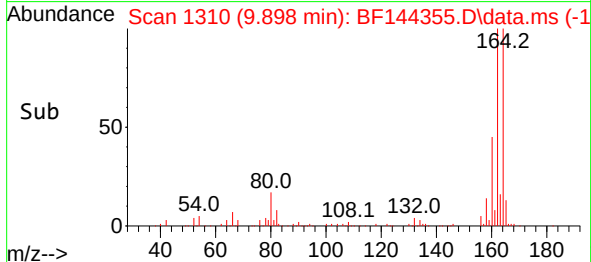
Instrument :
BNA_F
ClientSampleId :
RBR200028-RT5376-COMPDL



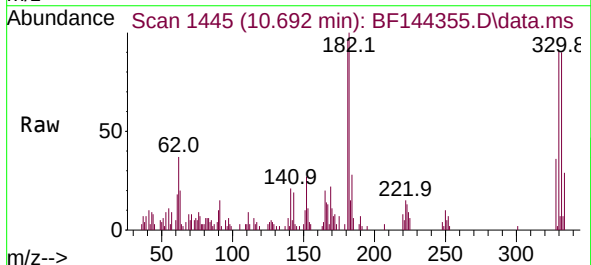
Tgt Ion:164 Resp: 119036
Ion Ratio Lower Upper
164 100
162 100.9 81.1 121.7
160 44.8 34.5 51.7

Manual Integrations
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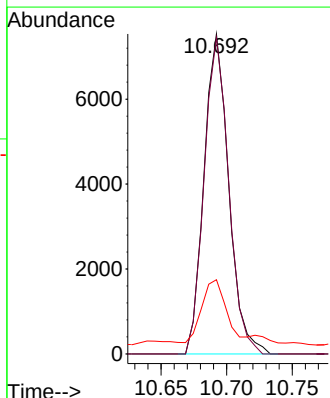
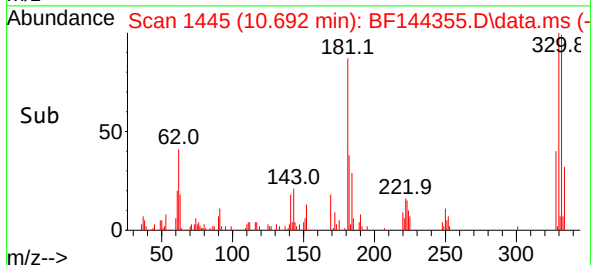
Reviewed By :Jagrut Upadhyay 11/26/2025
Supervised By :mohammad ahmed 11/27/2025

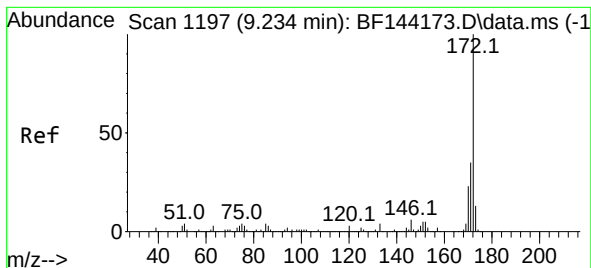


#42
2,4,6-Tribromophenol
Concen: 6.614 ng
RT: 10.692 min Scan# 1445
Delta R.T. -0.012 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44



Tgt Ion:330 Resp: 9879
Ion Ratio Lower Upper
330 100
332 98.3 76.7 115.1
141 23.7 17.8 26.8





#45

2-Fluorobiphenyl

Concen: 6.381 ng

RT: 9.216 min Scan# 1194

Delta R.T. -0.012 min

Lab File: BF144355.D

Acq: 25 Nov 2025 17:44

Instrument :

BNA_F

ClientSampleId :

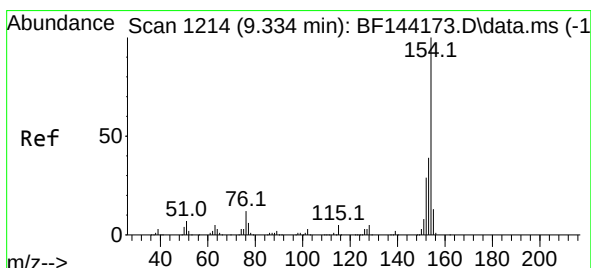
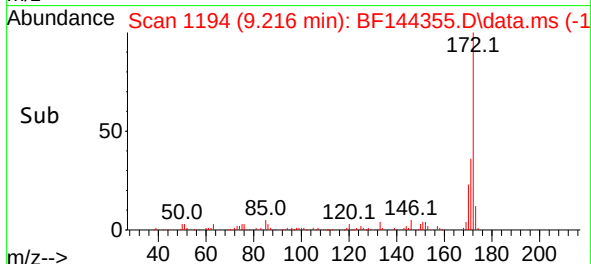
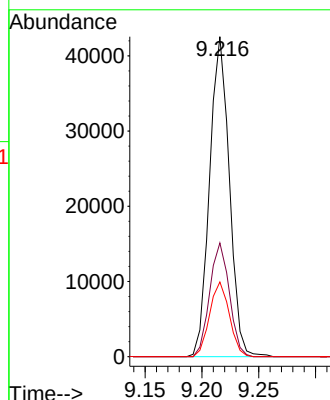
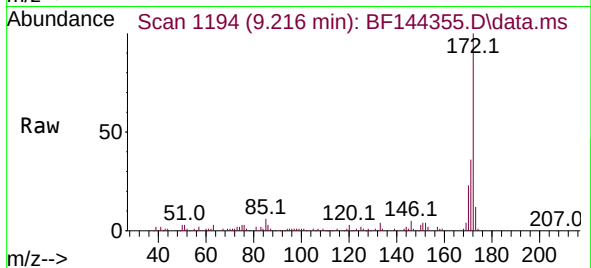
RBR200028-RT5376-COMPDL

Tgt Ion:172	Resp:	51423
Ion Ratio	Lower	Upper
172	100	
171	35.5	28.1 42.1
170	23.3	18.6 28.0

Manual Integrations

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Supervised By :mohammad ahmed 11/27/2025



#46

1,1'-Biphenyl

Concen: 2.279 ng

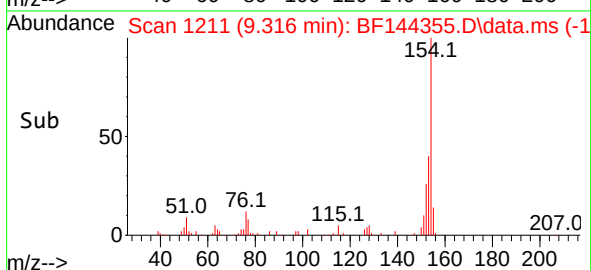
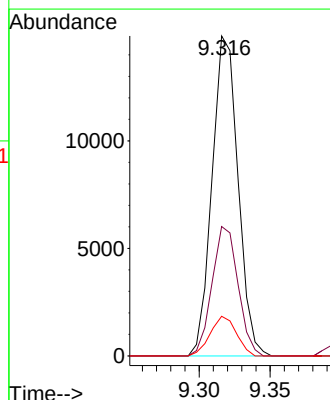
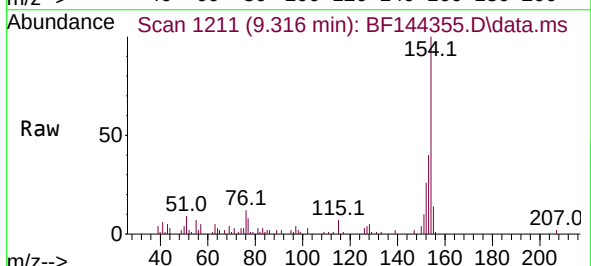
RT: 9.316 min Scan# 1211

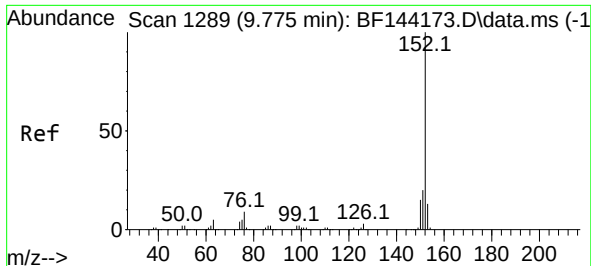
Delta R.T. -0.018 min

Lab File: BF144355.D

Acq: 25 Nov 2025 17:44

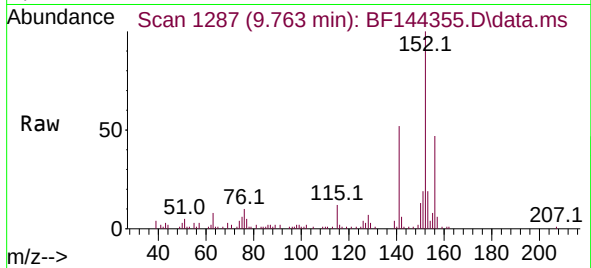
Tgt Ion:154	Resp:	18936
Ion Ratio	Lower	Upper
154	100	
153	40.4	19.2 59.2
76	12.4	0.0 31.8





#49
Acenaphthylene
Concen: 4.143 ng
RT: 9.763 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

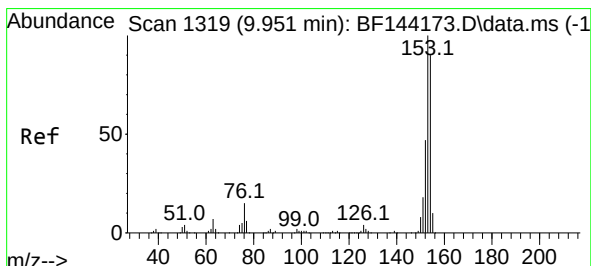
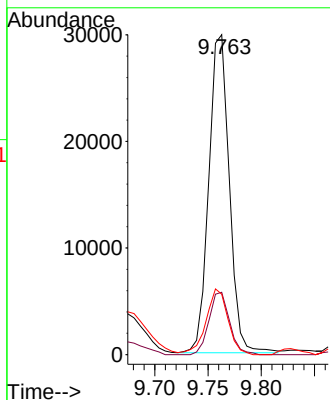
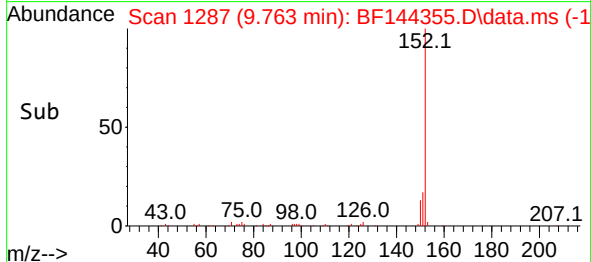
Instrument :
BNA_F
ClientSampleId :
RBR200028-RT5376-COMPDL



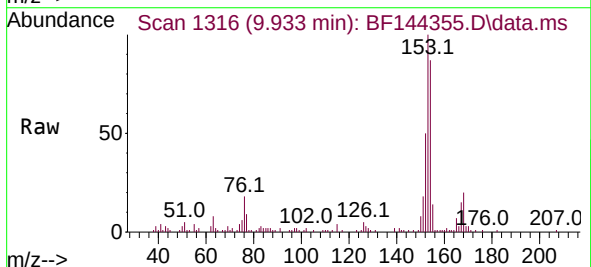
Tgt Ion:152 Resp: 40013
Ion Ratio Lower Upper
152 100
151 19.5 15.9 23.9
153 18.9 10.5 15.7

Manual Integrations
APPROVED

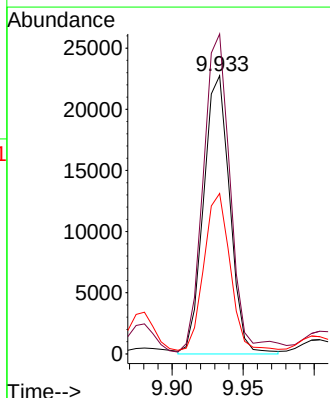
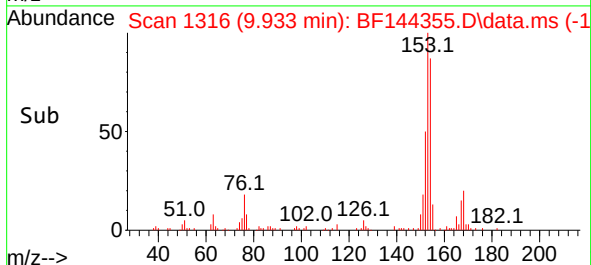
Reviewed By :Jagrut Upadhyay 11/26/2025
Supervised By :mohammad ahmed 11/27/2025

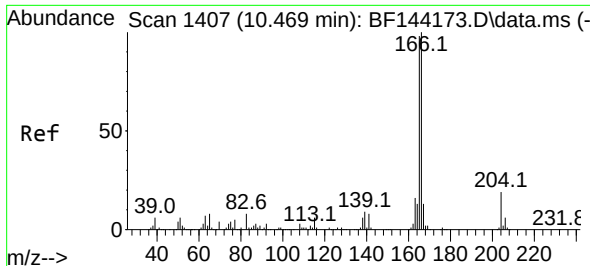


#52
Acenaphthene
Concen: 4.526 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44



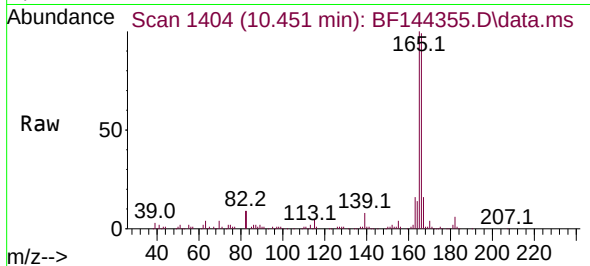
Tgt Ion:154 Resp: 29231
Ion Ratio Lower Upper
154 100
153 115.1 89.0 133.4
152 57.7 42.2 63.4





#58
Fluorene
Concen: 13.479 ng
RT: 10.451 min Scan# 1404
Delta R.T. -0.012 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

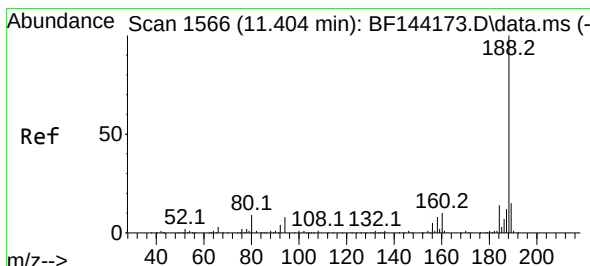
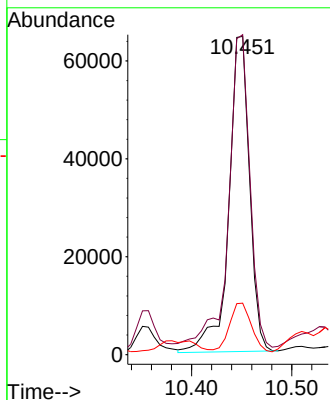
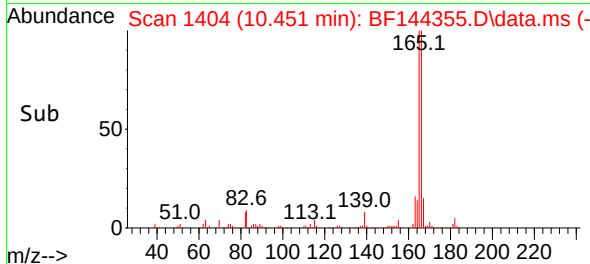
Instrument :
BNA_F
ClientSampleId :
RBR200028-RT5376-COMPDL



Tgt Ion:166 Resp: 92702
Ion Ratio Lower Upper
166 100
165 100.6 78.6 118.0
167 16.2 10.4 15.6

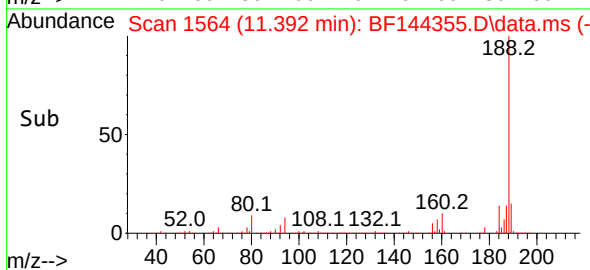
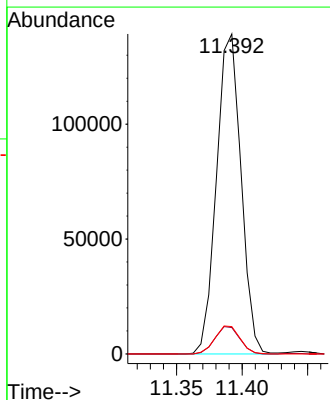
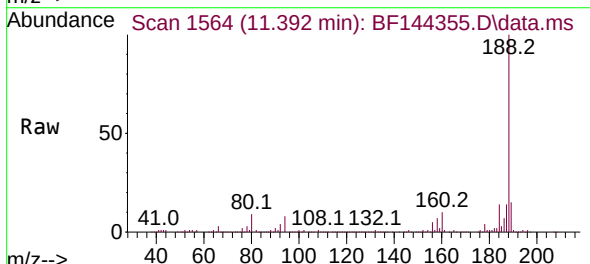
Manual Integrations
APPROVED

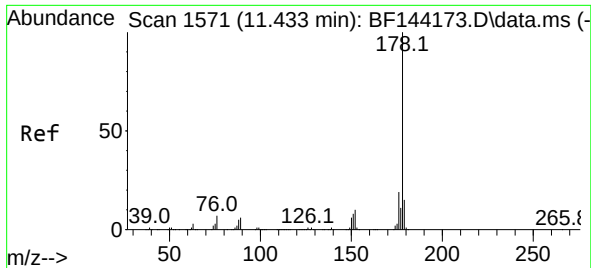
Reviewed By :Jagrut Upadhyay 11/26/2025
Supervised By :mohammad ahmed 11/27/2025



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 1564
Delta R.T. -0.012 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

Tgt Ion:188 Resp: 181521
Ion Ratio Lower Upper
188 100
94 8.2 6.2 9.2
80 8.5 6.9 10.3





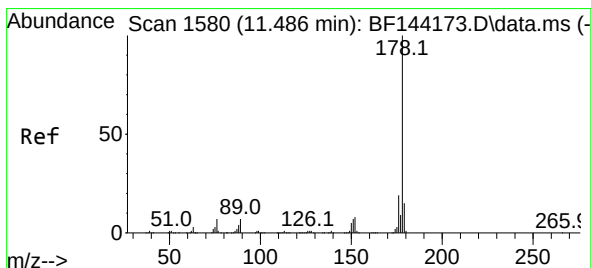
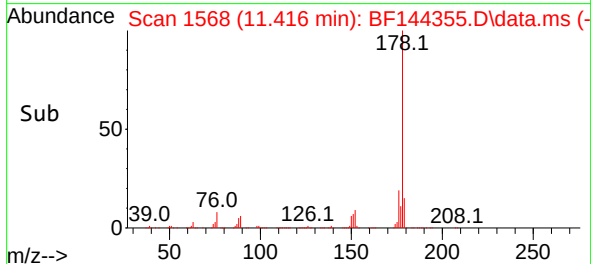
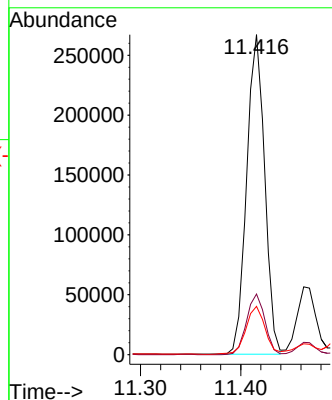
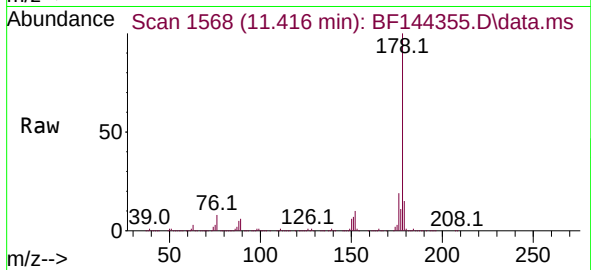
#71
Phenanthrene
Concen: 36.741 ng
RT: 11.416 min Scan# 1568
Delta R.T. -0.012 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

Instrument :
BNA_F
ClientSampleId :
RBR200028-RT5376-COMPDL

Tgt Ion:178 Resp: 332055
Ion Ratio Lower Upper
178 100
176 18.9 15.5 23.3
179 15.1 12.2 18.4

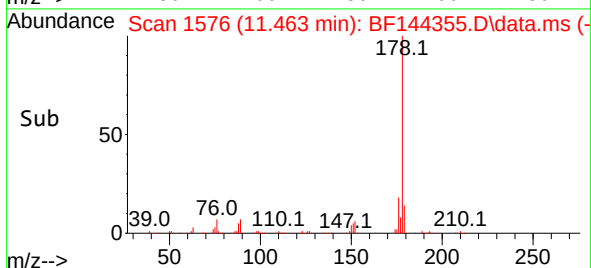
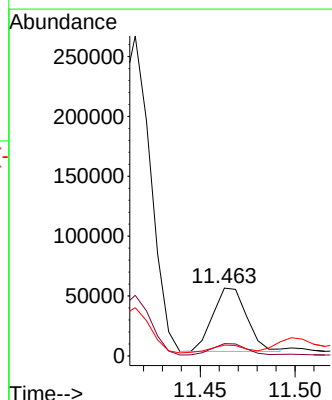
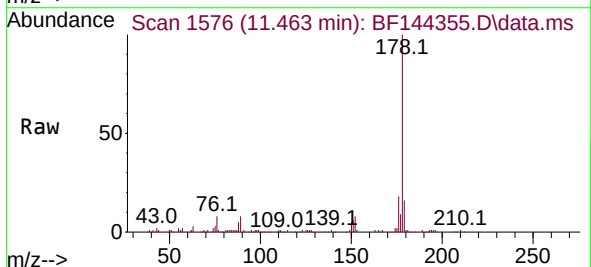
Manual Integrations
APPROVED

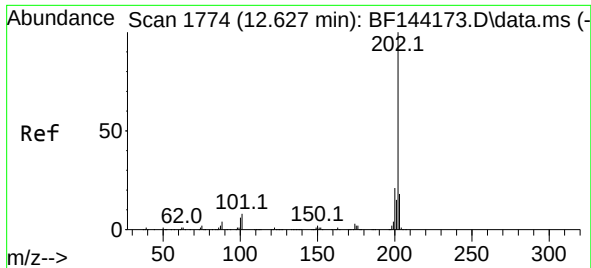
Reviewed By :Jagrut Upadhyay 11/26/2025
Supervised By :mohammad ahmed 11/27/2025



#72
Anthracene
Concen: 7.225 ng
RT: 11.463 min Scan# 1576
Delta R.T. -0.018 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

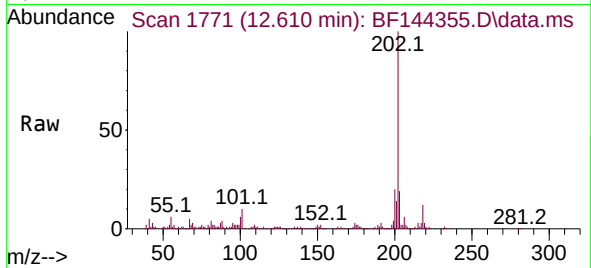
Tgt Ion:178 Resp: 66399
Ion Ratio Lower Upper
178 100
176 18.2 15.3 22.9
179 16.0 12.0 18.0





#75
Fluoranthene
Concen: 17.967 ng
RT: 12.610 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

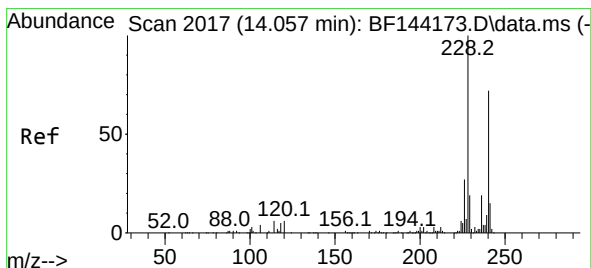
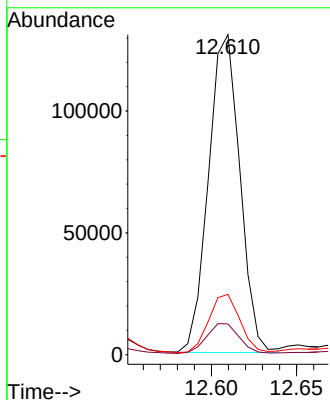
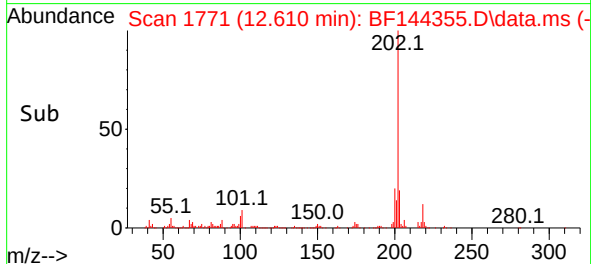
Instrument :
BNA_F
ClientSampleId :
RBR200028-RT5376-COMPDL



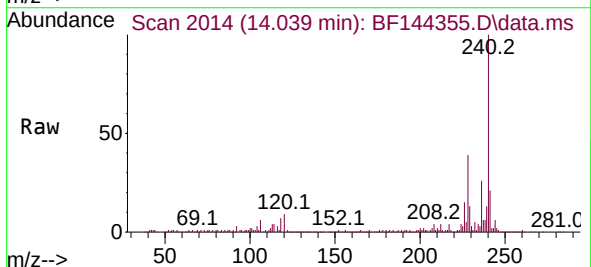
Tgt Ion:202 Resp: 16773
Ion Ratio Lower Upper
202 100
101 9.6 0.0 27.9
203 18.8 0.0 37.5

Manual Integrations
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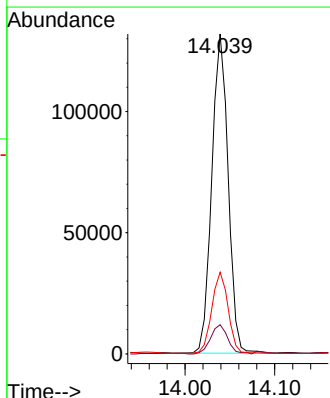
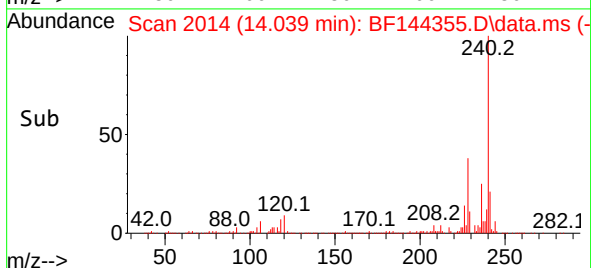
Reviewed By :Jagrut Upadhyay 11/26/2025
Supervised By :mohammad ahmed 11/27/2025

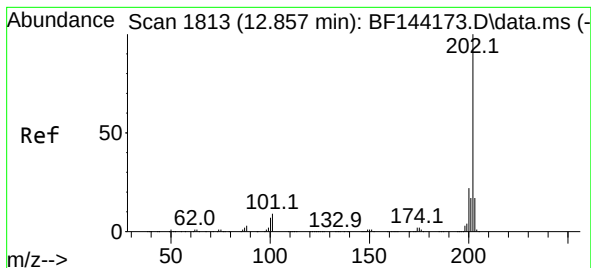


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2014
Delta R.T. -0.012 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44



Tgt Ion:240 Resp: 167558
Ion Ratio Lower Upper
240 100
120 9.2 6.6 10.0
236 25.5 21.4 32.2





#78

Pyrene

Concen: 21.709 ng

RT: 12.839 min Scan# 1810

Delta R.T. -0.012 min

Lab File: BF144355.D

Acq: 25 Nov 2025 17:44

Instrument :

BNA_F

ClientSampleId :

RBR200028-RT5376-COMPDL

Tgt Ion:202 Resp: 293289

Ion Ratio Lower Upper

202 100

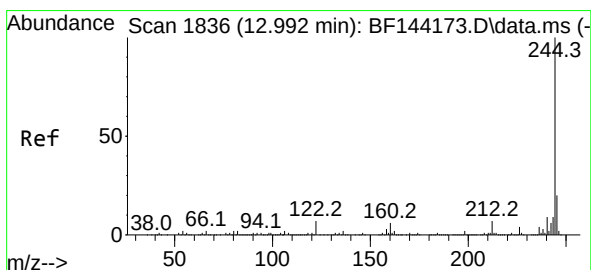
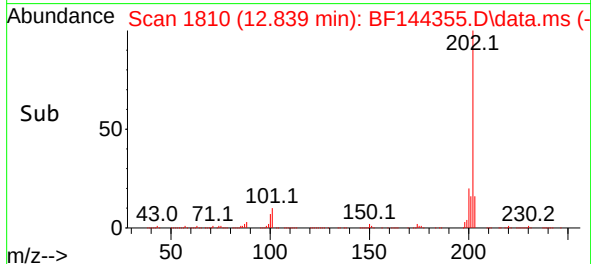
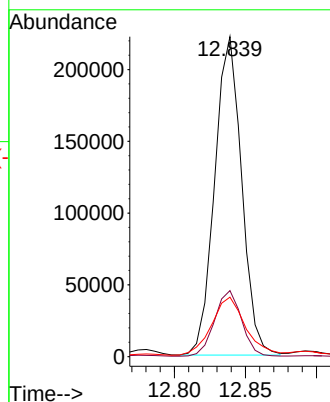
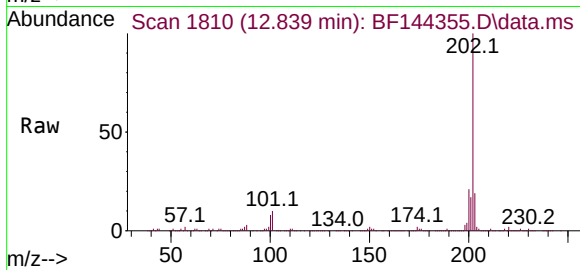
200 20.6 17.2 25.8

203 18.6 13.7 20.5

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 11/26/2025
Supervised By :mohammad ahmed 11/27/2025



#79

Terphenyl-d14

Concen: 4.083 ng

RT: 12.974 min Scan# 1833

Delta R.T. -0.018 min

Lab File: BF144355.D

Acq: 25 Nov 2025 17:44

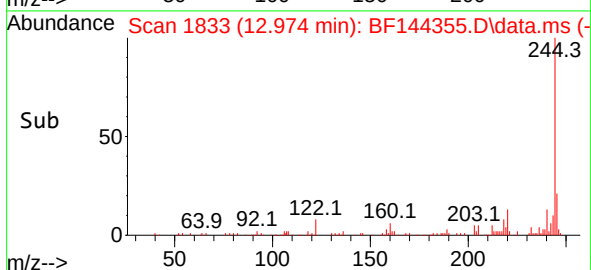
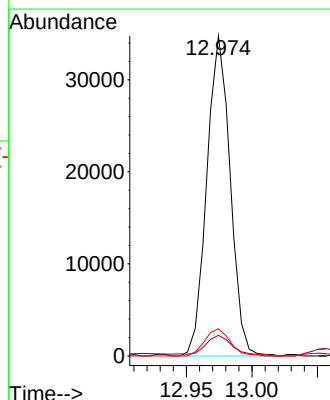
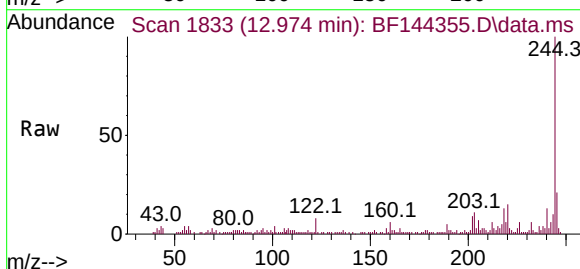
Tgt Ion:244 Resp: 43071

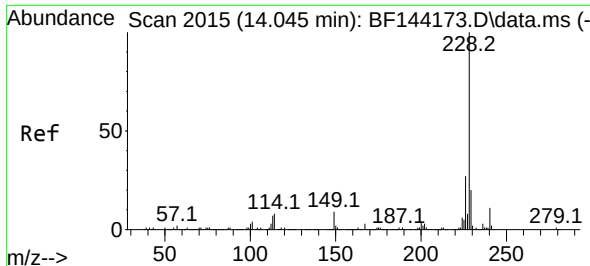
Ion Ratio Lower Upper

244 100

212 6.4 5.3 7.9

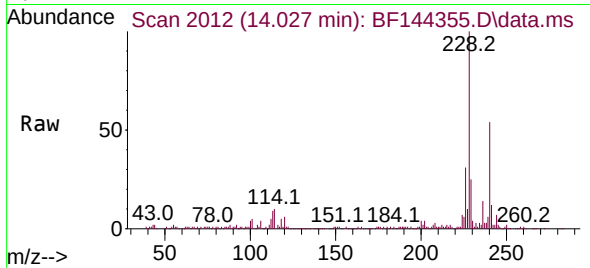
122 8.5 5.6 8.4#





#81
Benzo(a)anthracene
Concen: 11.590 ng
RT: 14.027 min Scan# 2012
Delta R.T. -0.018 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

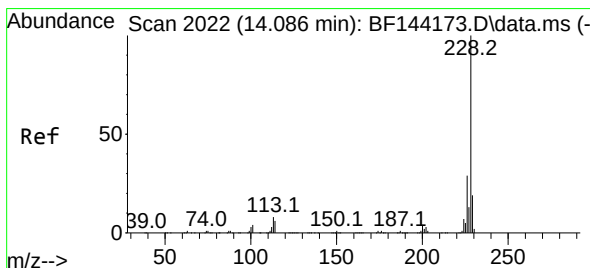
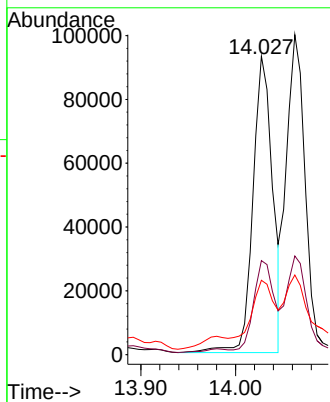
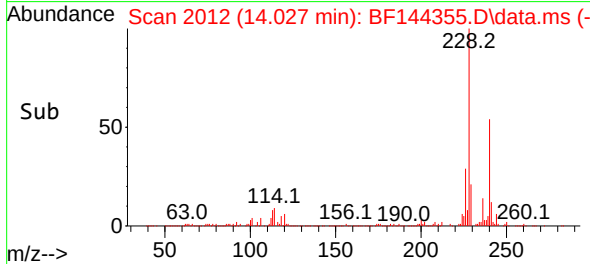
Instrument :
BNA_F
ClientSampleId :
RBR200028-RT5376-COMPDL



Tgt Ion:228 Resp: 134595
Ion Ratio Lower Upper
228 100
226 31.5 21.8 32.8
229 24.9 15.8 23.6

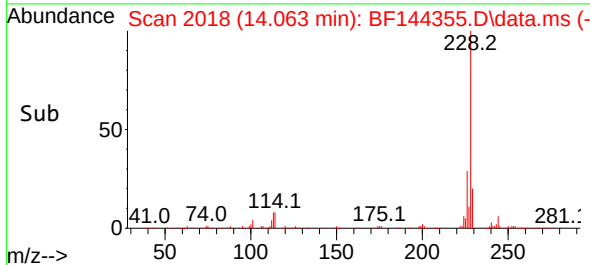
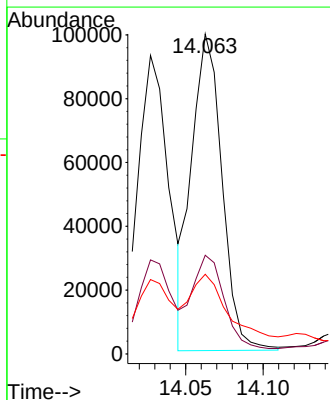
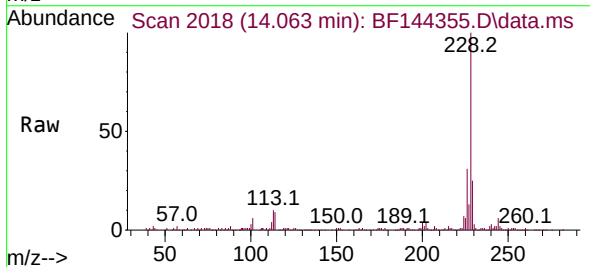
Manual Integrations
APPROVED

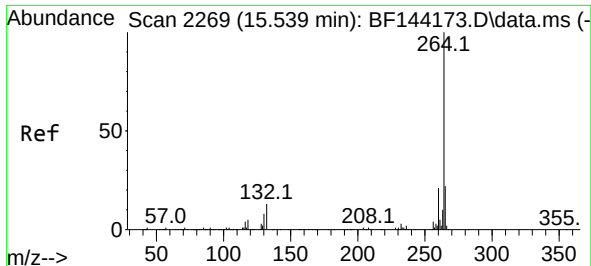
Reviewed By :Jagrut Upadhyay 11/26/2025
Supervised By :mohammad ahmed 11/27/2025



#83
Chrysene
Concen: 12.669 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.018 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

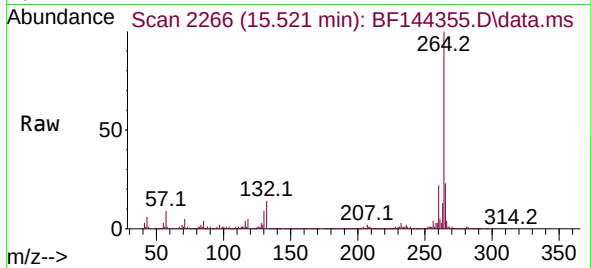
Tgt Ion:228 Resp: 135821
Ion Ratio Lower Upper
228 100
226 30.8 22.9 34.3
229 24.9 15.0 22.6





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 217919
Delta R.T. -0.018 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

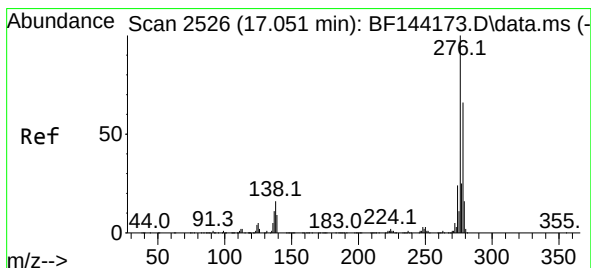
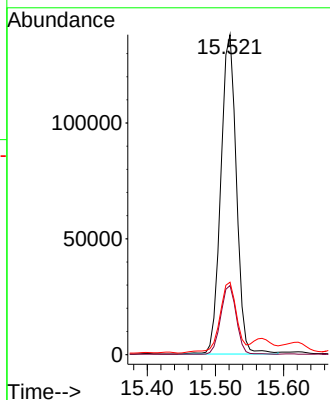
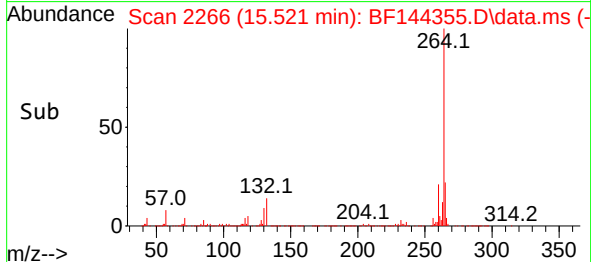
Instrument :
BNA_F
ClientSampleId :
RBR200028-RT5376-COMPDL



Tgt Ion:264 Resp: 217919
Ion Ratio Lower Upper
264 100
260 21.6 17.1 25.7
265 22.6 17.4 26.0

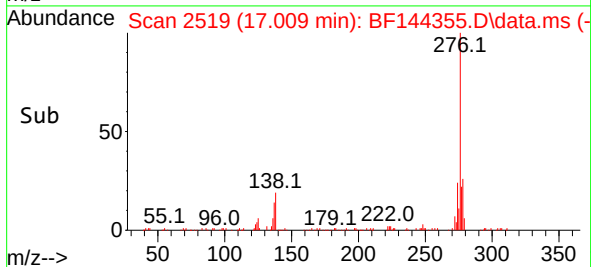
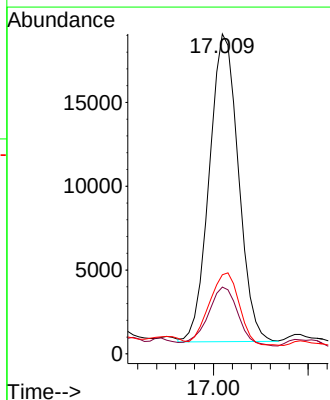
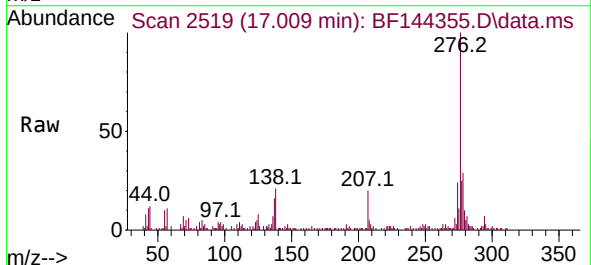
Manual Integrations
APPROVED

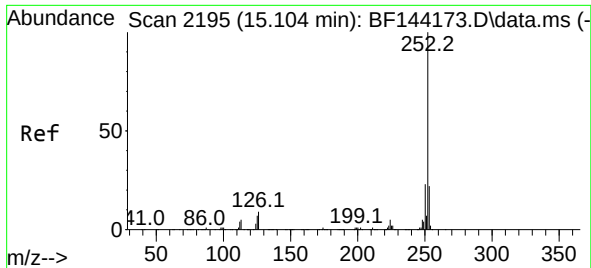
Reviewed By :Jagrut Upadhyay 11/26/2025
Supervised By :mohammad ahmed 11/27/2025



#87
Indeno(1,2,3-cd)pyrene
Concen: 2.502 ng
RT: 17.009 min Scan# 2519
Delta R.T. -0.024 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

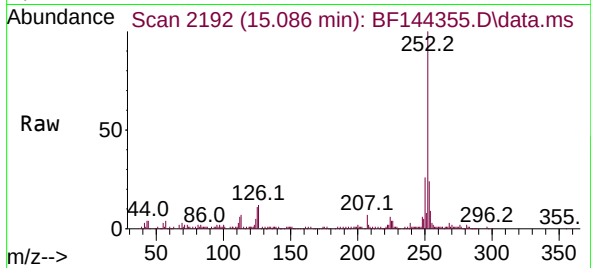
Tgt Ion:276 Resp: 39143
Ion Ratio Lower Upper
276 100
138 20.3 13.9 20.9
277 24.4 19.8 29.6





#88
Benzo(b)fluoranthene
Concen: 7.310 ng m
RT: 15.086 min Scan# 2195
Delta R.T. -0.012 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

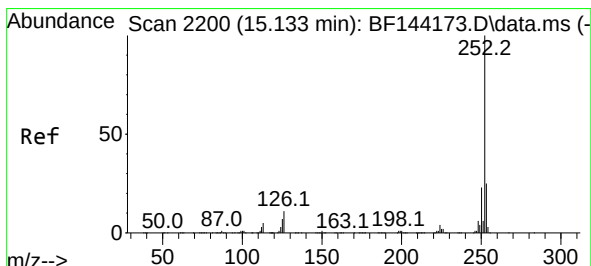
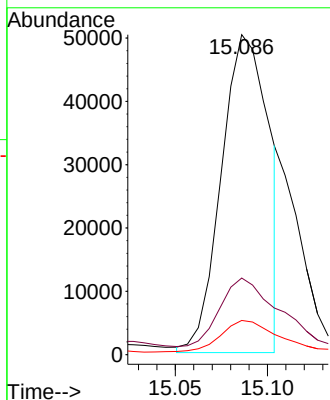
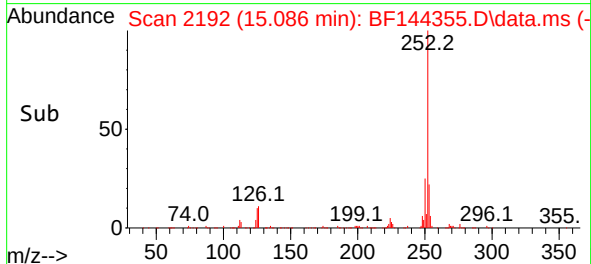
Instrument : BNA_F
ClientSampleId : RBR200028-RT5376-COMPDL



Tgt Ion:252 Resp: 90564
Ion Ratio Lower Upper
252 100
253 23.9 17.4 26.2
125 10.7 5.3 7.9

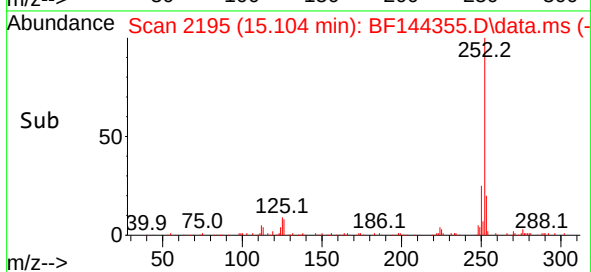
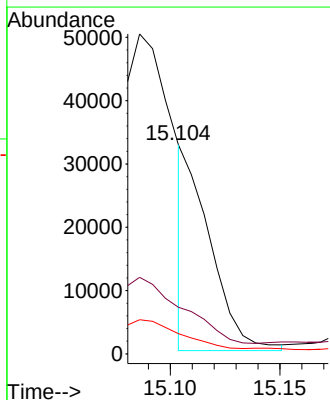
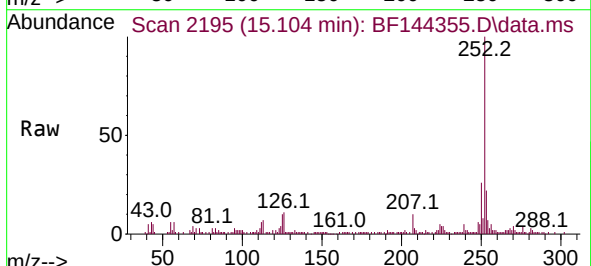
Manual Integrations
APPROVED

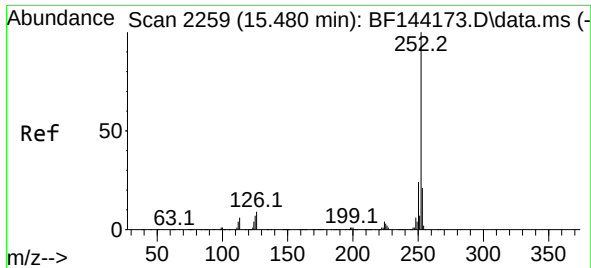
Reviewed By :Jagrut Upadhyay 11/26/2025
Supervised By :mohammad ahmed 11/27/2025



#89
Benzo(k)fluoranthene
Concen: 2.238 ng m
RT: 15.104 min Scan# 2195
Delta R.T. -0.024 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

Tgt Ion:252 Resp: 25955
Ion Ratio Lower Upper
252 100
253 22.3 18.0 27.0
125 9.7 5.4 8.2





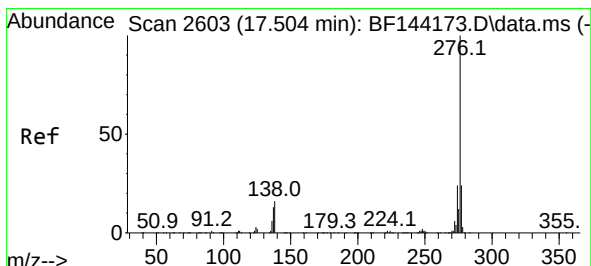
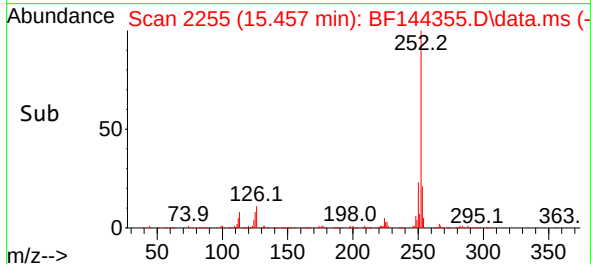
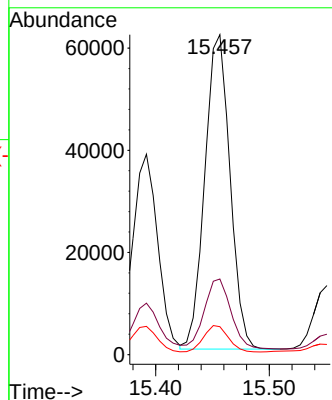
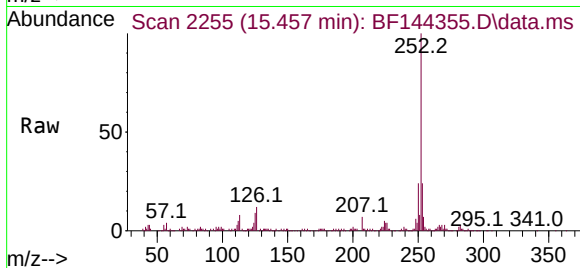
#90
Benzo(a)pyrene
Concen: 8.303 ng
RT: 15.457 min Scan# 21
Delta R.T. -0.018 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

Instrument :
BNA_F
ClientSampleId :
RBR200028-RT5376-COMPDL

Tgt Ion:252 Resp: 94904
Ion Ratio Lower Upper
252 100
253 23.6 16.7 25.1
125 8.7 5.7 8.5

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 11/26/2025
Supervised By :mohammad ahmed 11/27/2025



#92
Benzo(g,h,i)perylene
Concen: 3.383 ng
RT: 17.462 min Scan# 2596
Delta R.T. -0.030 min
Lab File: BF144355.D
Acq: 25 Nov 2025 17:44

Tgt Ion:276 Resp: 41965
Ion Ratio Lower Upper
276 100
277 25.8 19.0 28.4
138 20.6 12.9 19.3

