

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120325\
 Data File : BF144418.D
 Acq On : 03 Dec 2025 14:37
 Operator : RC/JU
 Sample : Q3753-04
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 AR520-0002

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 12/04/2025
 Supervised By :mohammad ahmed 12/09/2025

Quant Time: Dec 03 14:57:22 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	40880	20.000	ng	-0.01
21) Naphthalene-d8	8.145	136	140881	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	50715	20.000	ng	0.00
64) Phenanthrene-d10	11.433	188	63898	20.000	ng	# 0.03
76) Chrysene-d12	14.068	240	113825	20.000	ng	# 0.02
86) Perylene-d12	15.539	264	133928	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	188240	72.058	ng	0.00
7) Phenol-d6	6.498	99	205669	69.483	ng	0.00
23) Nitrobenzene-d5	7.422	82	117677	48.242	ng	-0.01
42) 2,4,6-Tribromophenol	10.722	330	54802	86.111	ng	0.02
45) 2-Fluorobiphenyl	9.222	172	214021	62.328	ng	0.00
79) Terphenyl-d14	13.015	244	224682	31.354	ng	0.02
Target Compounds						Qvalue
71) Phenanthrene	11.457	178	191094	60.066	ng	# 83
72) Anthracene	11.510	178	32139	9.935	ng	# 41
75) Fluoranthene	12.663	202	317783	96.697	ng	95
78) Pyrene	12.892	202	265335	28.911	ng	# 96
81) Benzo(a)anthracene	14.062	228	170994	21.675	ng	96
83) Chrysene	14.092	228	180077	24.727	ng	# 95
87) Indeno(1,2,3-cd)pyrene	17.033	276	61200	6.366	ng	96
88) Benzo(b)fluoranthene	15.109	252	248624m	32.653	ng	
89) Benzo(k)fluoranthene	15.127	252	64960m	9.115	ng	
90) Benzo(a)pyrene	15.474	252	114962	16.366	ng	# 95
92) Benzo(g,h,i)perylene	17.486	276	53621	7.033	ng	93

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

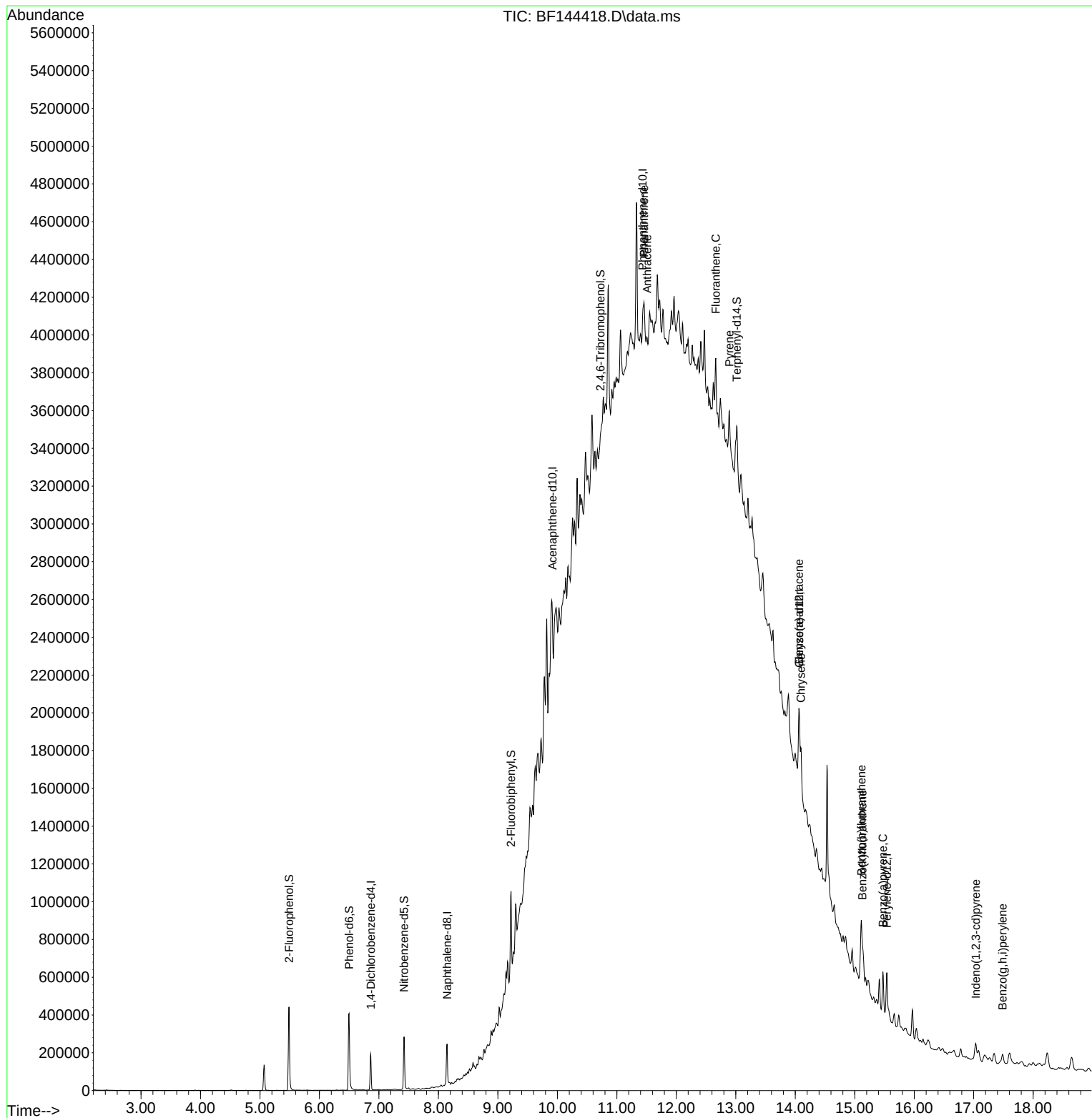
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120325\
Data File : BF144418.D
Acq On : 03 Dec 2025 14:37
Operator : RC/JU
Sample : Q3753-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

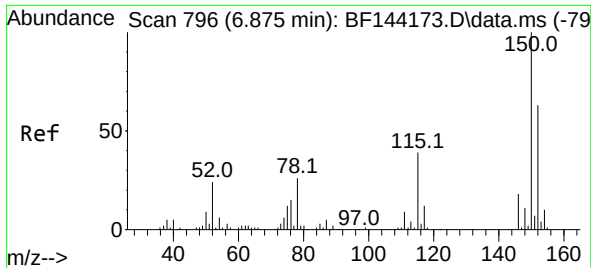
Instrument :
BNA_F
ClientSampleId :
AR520-0002

Quant Time: Dec 03 14:57:22 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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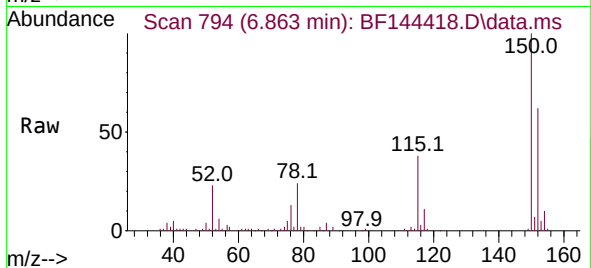
Reviewed By :Jagrut Upadhyay 12/04/2025
Supervised By :mohammad ahmed 12/09/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.863 min Scan# 796
Delta R.T. -0.012 min
Lab File: BF144418.D
Acq: 03 Dec 2025 14:37

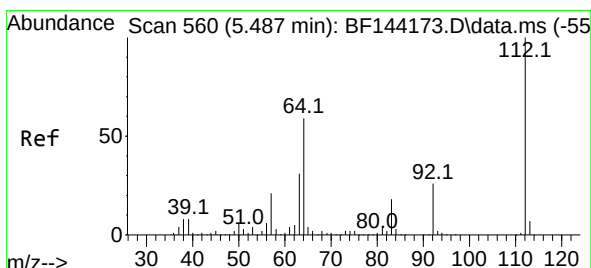
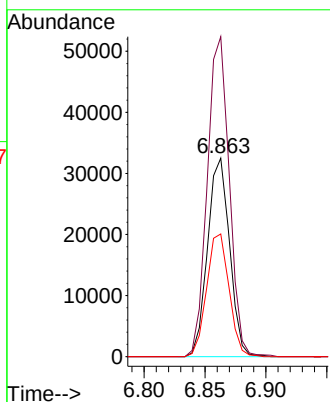
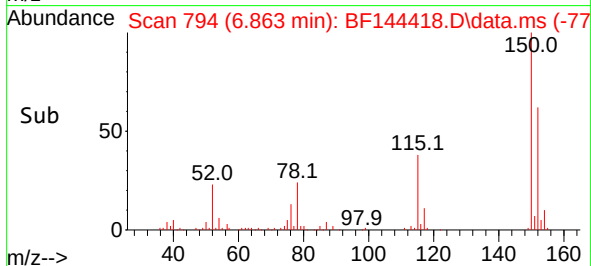
Instrument :
BNA_F
ClientSampleId :
AR520-0002



Tgt Ion:152 Resp: 40880
Ion Ratio Lower Upper
152 100
150 161.2 127.4 191.0
115 61.8 49.5 74.3

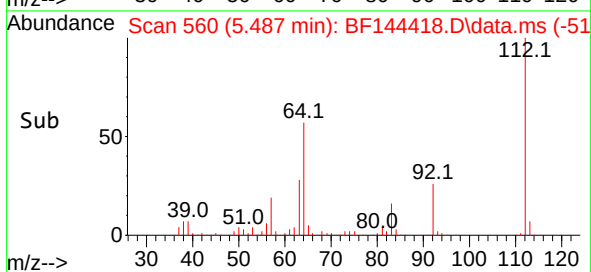
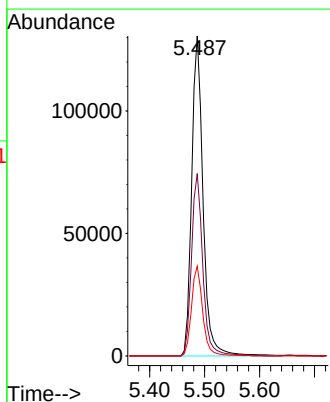
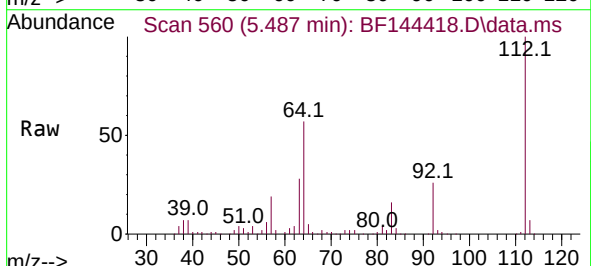
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#5
2-Fluorophenol
Concen: 72.058 ng
RT: 5.487 min Scan# 560
Delta R.T. -0.006 min
Lab File: BF144418.D
Acq: 03 Dec 2025 14:37

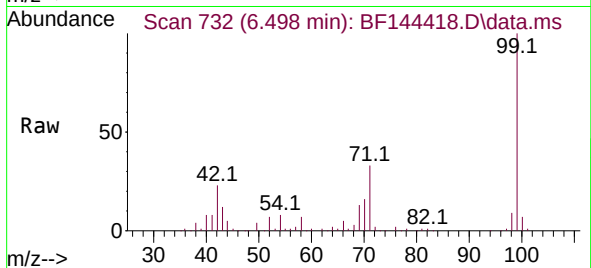
Tgt Ion:112 Resp: 188240
Ion Ratio Lower Upper
112 100
64 57.0 47.2 70.8
63 28.0 24.4 36.6





#7
Phenol-d6
Concen: 69.483 ng
RT: 6.498 min Scan# 733
Delta R.T. -0.000 min
Lab File: BF144418.D
Acq: 03 Dec 2025 14:37

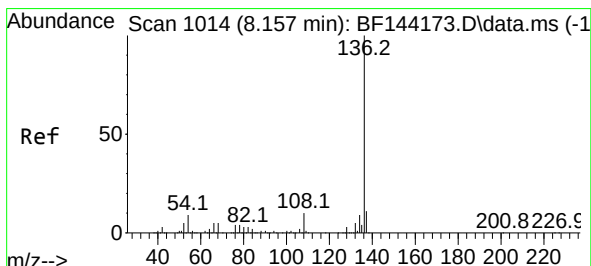
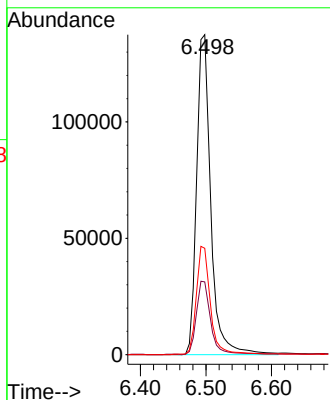
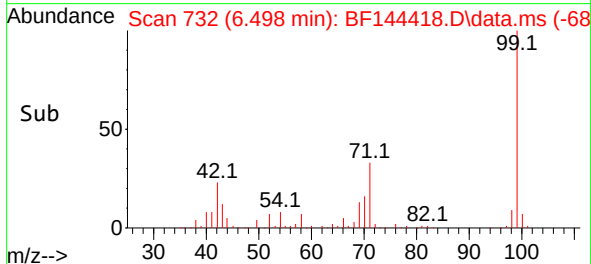
Instrument :
BNA_F
ClientSampleId :
AR520-0002



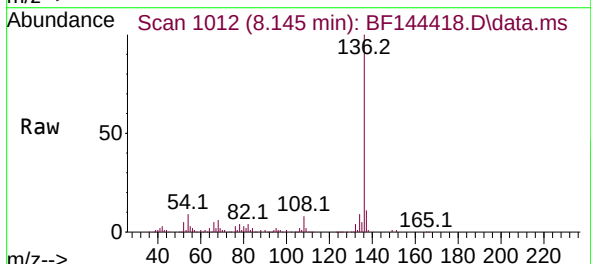
Tgt Ion: 99 Resp: 205669
Ion Ratio Lower Upper
99 100
42 22.7 20.9 31.3
71 33.2 31.4 47.2

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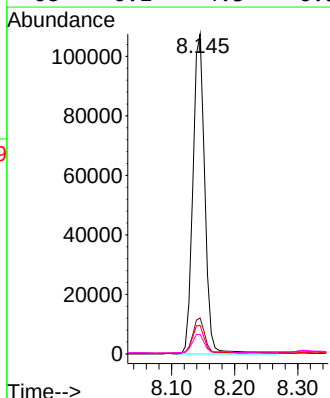
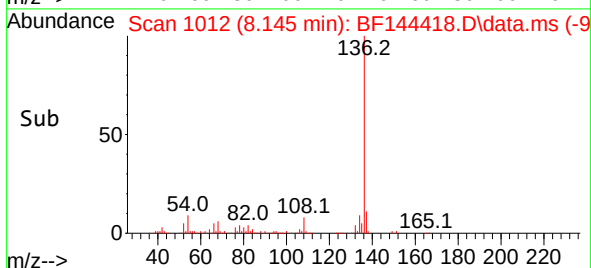
Reviewed By :Jagrut Upadhyay 12/04/2025
Supervised By :mohammad ahmed 12/09/2025

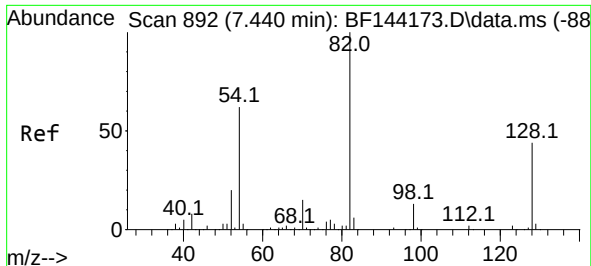


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.145 min Scan# 1012
Delta R.T. -0.012 min
Lab File: BF144418.D
Acq: 03 Dec 2025 14:37



Tgt Ion:136 Resp: 140881
Ion Ratio Lower Upper
136 100
137 11.2 8.6 13.0
54 8.9 7.0 10.6
68 6.1 4.3 6.5





#23

Nitrobenzene-d5

Concen: 48.242 ng

RT: 7.422 min Scan# 889

Delta R.T. -0.012 min

Lab File: BF144418.D

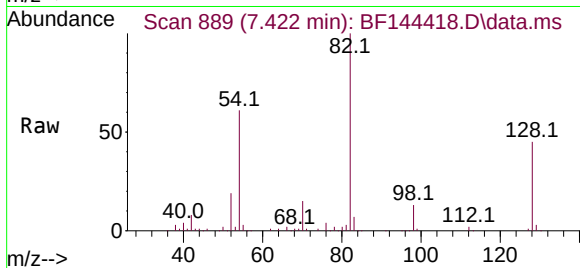
Acq: 03 Dec 2025 14:37

Instrument :

BNA_F

ClientSampleId :

AR520-0002



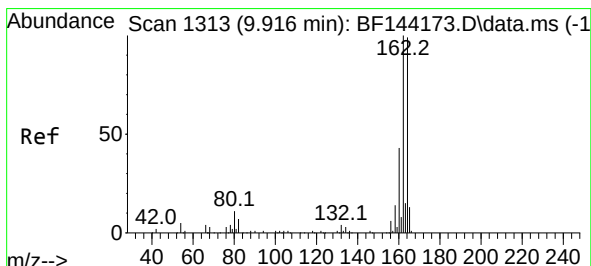
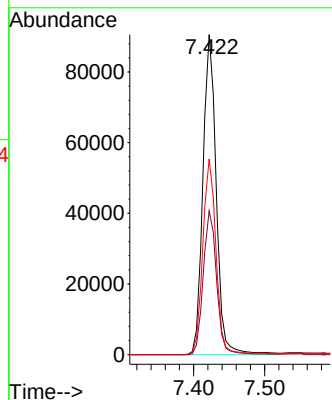
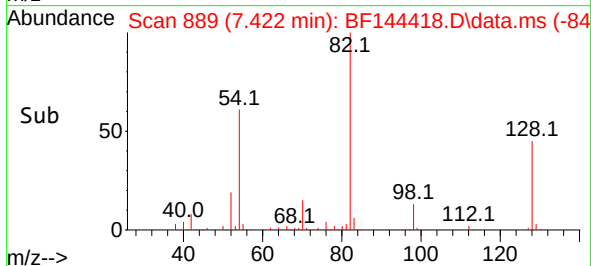
Tgt Ion: 82 Resp: 11767

Ion	Ratio	Lower	Upper
82	100		
128	44.9	34.7	52.1
54	61.1	49.5	74.3

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#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.916 min Scan# 1313

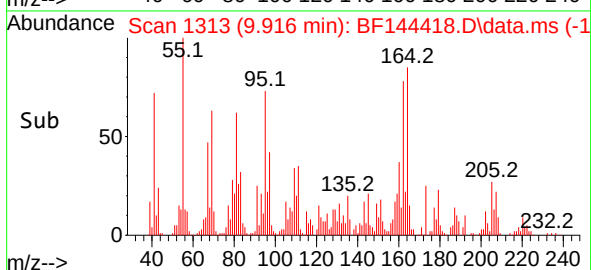
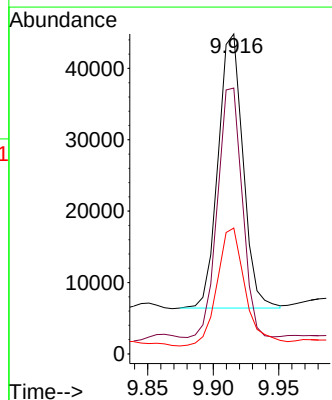
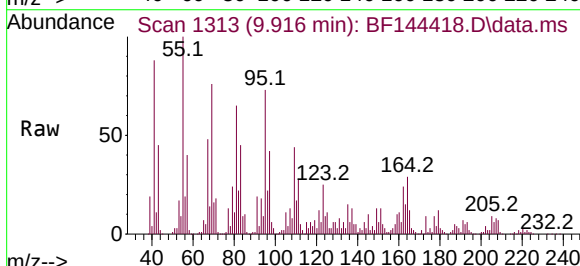
Delta R.T. -0.000 min

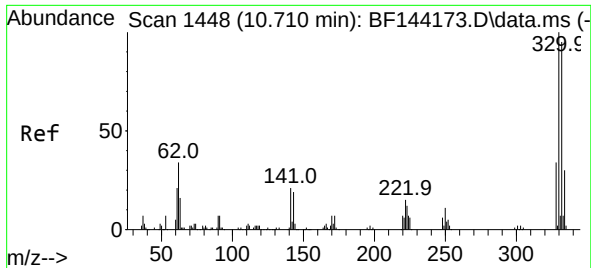
Lab File: BF144418.D

Acq: 03 Dec 2025 14:37

Tgt Ion:164 Resp: 50715

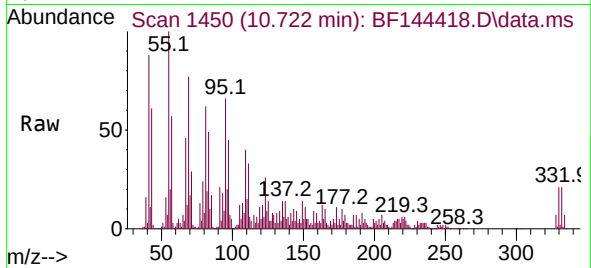
Ion	Ratio	Lower	Upper
164	100		
162	83.1	81.1	121.7
160	39.3	34.5	51.7





#42
2,4,6-Tribromophenol
Concen: 86.111 ng
RT: 10.722 min Scan# 1448
Delta R.T. 0.017 min
Lab File: BF144418.D
Acq: 03 Dec 2025 14:37

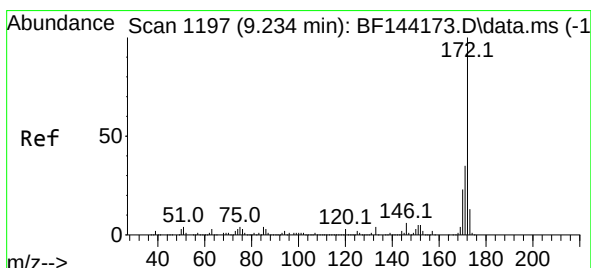
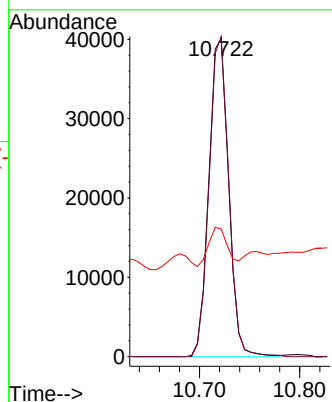
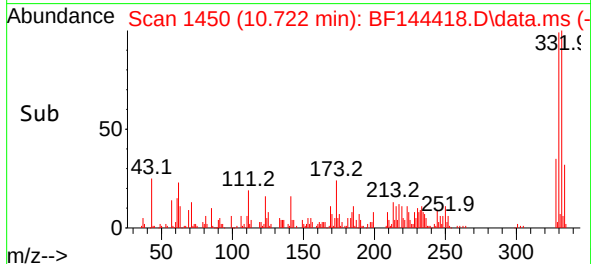
Instrument :
BNA_F
ClientSampleId :
AR520-0002



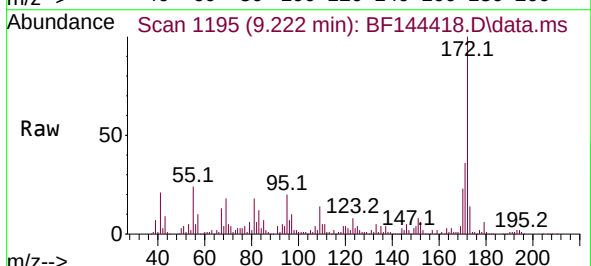
Tgt Ion: 330 Resp: 54802
Ion Ratio Lower Upper
330 100
332 99.6 76.7 115.1
141 11.6 17.8 26.8

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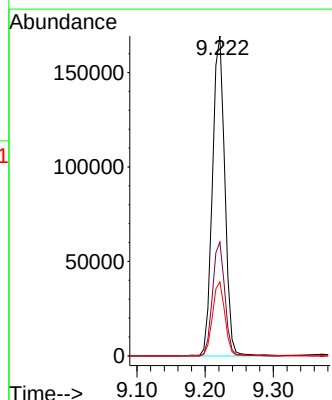
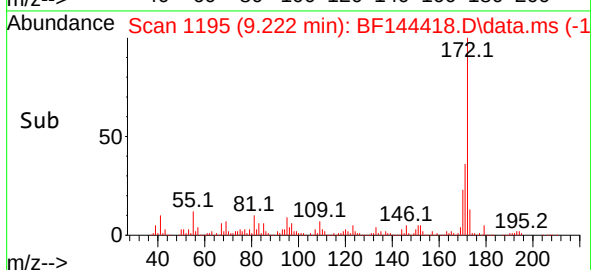
Reviewed By :Jagrut Upadhyay 12/04/2025
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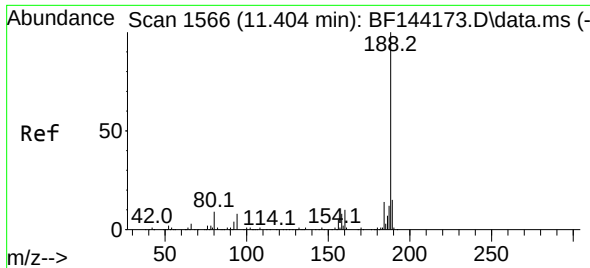


#45
2-Fluorobiphenyl
Concen: 62.328 ng
RT: 9.222 min Scan# 1195
Delta R.T. -0.006 min
Lab File: BF144418.D
Acq: 03 Dec 2025 14:37



Tgt Ion: 172 Resp: 214021
Ion Ratio Lower Upper
172 100
171 35.6 28.1 42.1
170 23.1 18.6 28.0





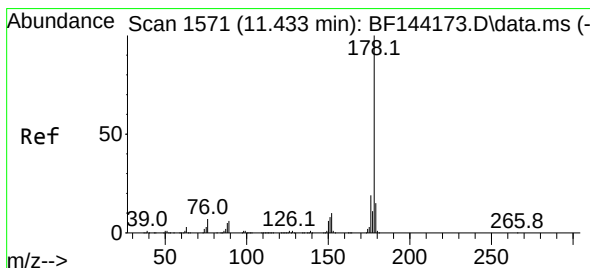
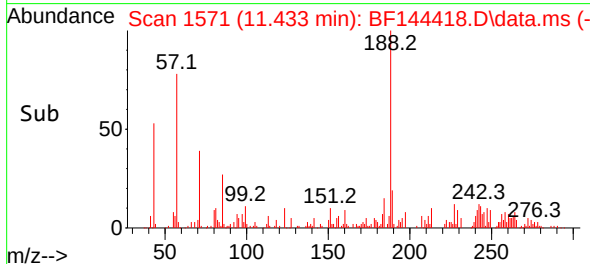
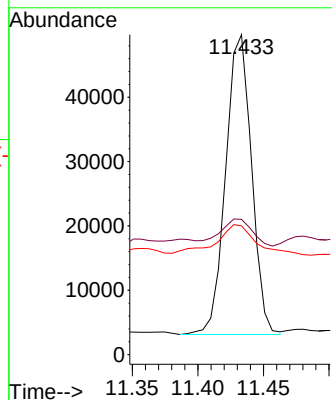
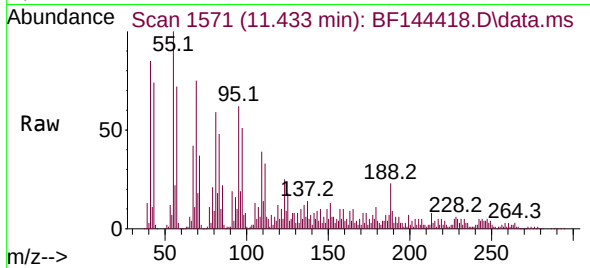
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.433 min Scan# 11
Delta R.T. 0.029 min
Lab File: BF144418.D
Acq: 03 Dec 2025 14:37

Instrument :
BNA_F
ClientSampleId :
AR520-0002

Tgt Ion:188 Resp: 63898
Ion Ratio Lower Upper
188 100
94 42.3 6.2 9.2
80 40.2 6.9 10.3

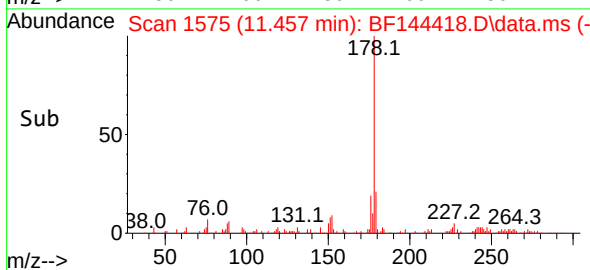
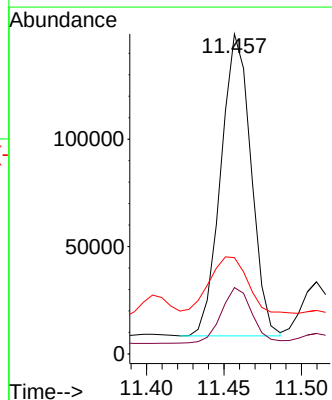
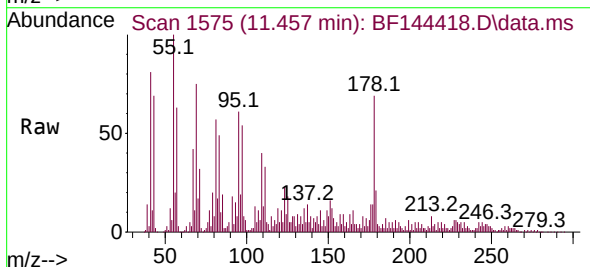
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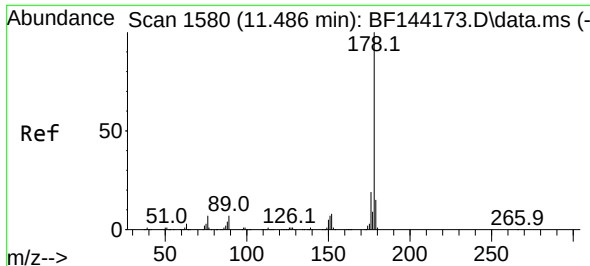
Reviewed By :Jagrut Upadhyay 12/04/2025
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#71
Phenanthrene
Concen: 60.066 ng
RT: 11.457 min Scan# 1575
Delta R.T. 0.029 min
Lab File: BF144418.D
Acq: 03 Dec 2025 14:37

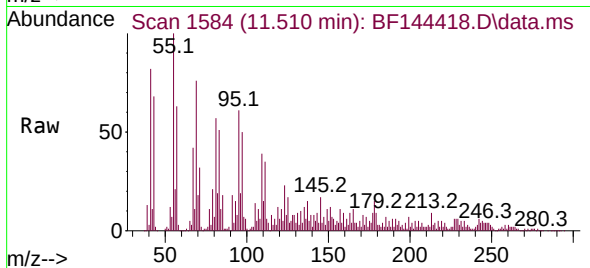
Tgt Ion:178 Resp: 191094
Ion Ratio Lower Upper
178 100
176 20.7 15.5 23.3
179 30.1 12.2 18.4





#72
 Anthracene
 Concen: 9.935 ng
 RT: 11.510 min Scan# 11
 Delta R.T. 0.029 min
 Lab File: BF144418.D
 Acq: 03 Dec 2025 14:37

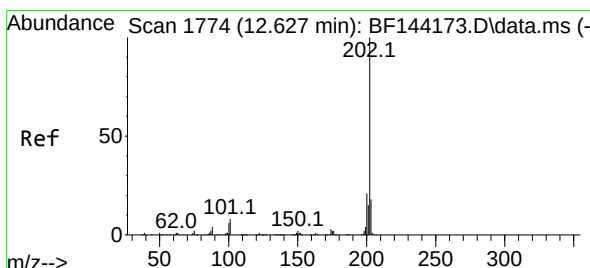
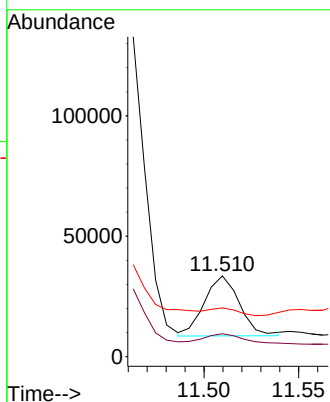
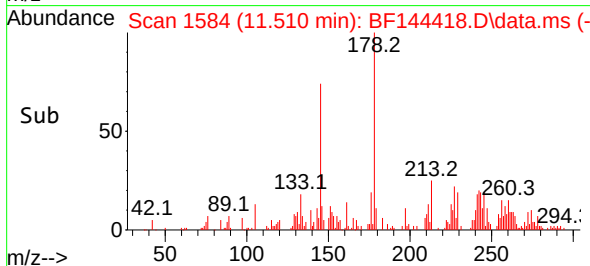
Instrument :
 BNA_F
 ClientSampleId :
 AR520-0002



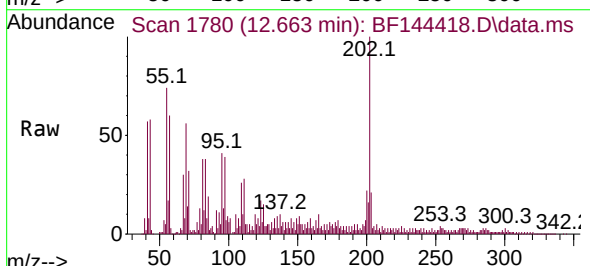
Tgt Ion:178 Resp: 32139
 Ion Ratio Lower Upper
 178 100
 176 28.3 15.3 22.9
 179 60.4 12.0 18.0

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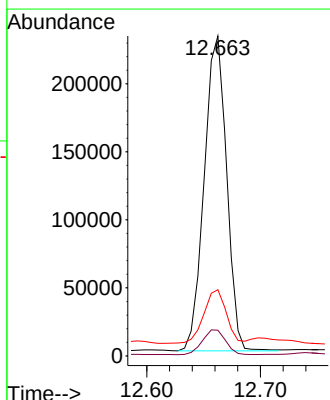
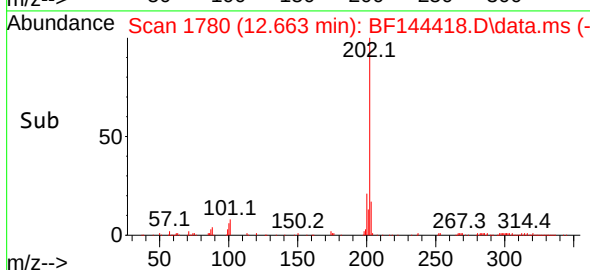
Reviewed By :Jagrut Upadhyay 12/04/2025
 Supervised By :mohammad ahmed 12/09/2025

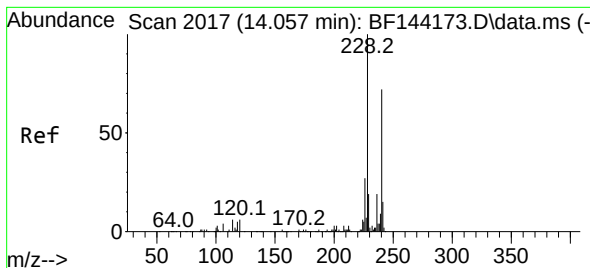


#75
 Fluoranthene
 Concen: 96.697 ng
 RT: 12.663 min Scan# 1780
 Delta R.T. 0.041 min
 Lab File: BF144418.D
 Acq: 03 Dec 2025 14:37



Tgt Ion:202 Resp: 317783
 Ion Ratio Lower Upper
 202 100
 101 8.0 0.0 27.9
 203 20.7 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.068 min Scan# 2017

Delta R.T. 0.017 min

Lab File: BF144418.D

Acq: 03 Dec 2025 14:37

Instrument :

BNA_F

ClientSampleId :

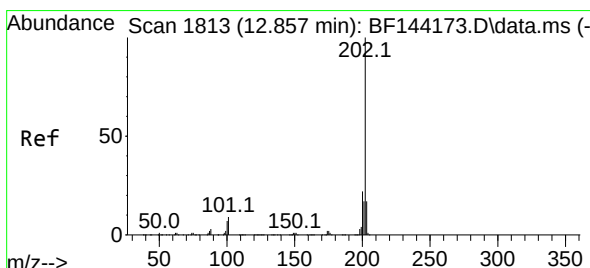
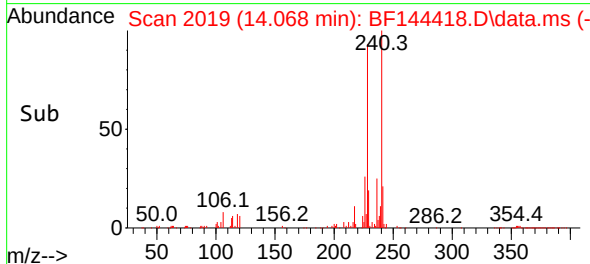
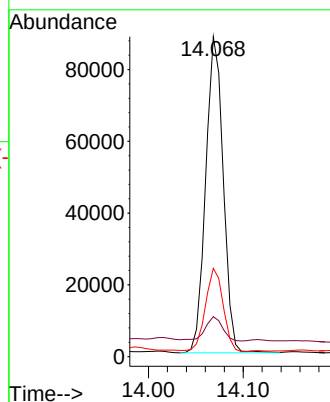
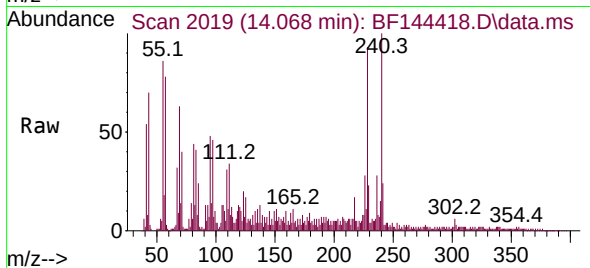
AR520-0002

Tgt Ion:	240	Resp:	113825
Ion Ratio	Lower	Upper	
240	100		
120	12.5	6.6	10.0
236	27.6	21.4	32.2

Manual Integrations

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#78

Pyrene

Concen: 28.911 ng

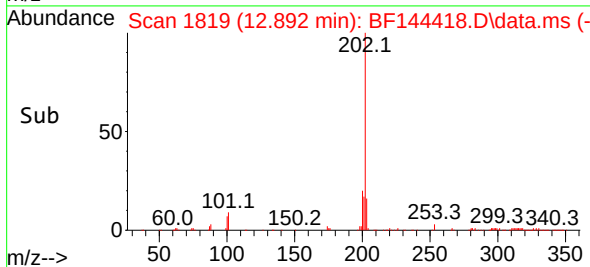
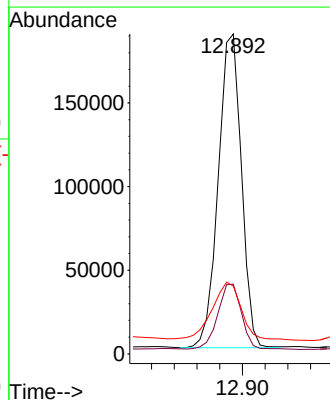
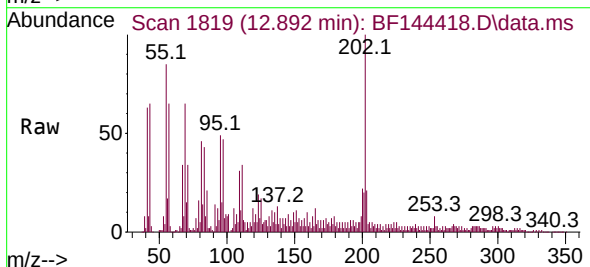
RT: 12.892 min Scan# 1819

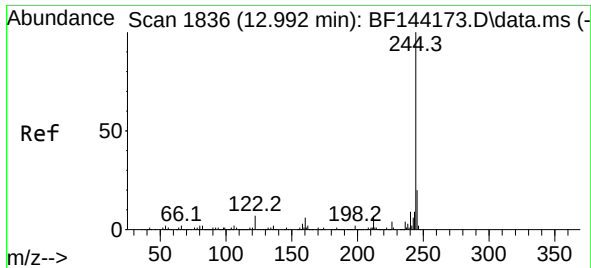
Delta R.T. 0.041 min

Lab File: BF144418.D

Acq: 03 Dec 2025 14:37

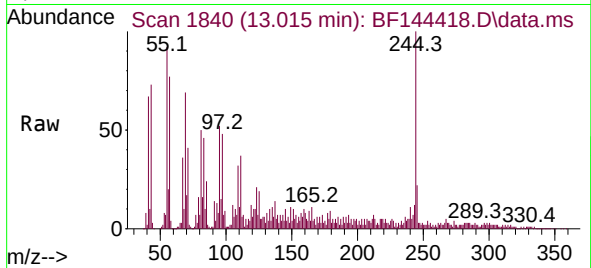
Tgt Ion:	202	Resp:	265335
Ion Ratio	Lower	Upper	
202	100		
200	21.8	17.2	25.8
203	21.2	13.7	20.5





#79
 Terphenyl-d14
 Concen: 31.354 ng
 RT: 13.015 min Scan# 1836
 Delta R.T. 0.023 min
 Lab File: BF144418.D
 Acq: 03 Dec 2025 14:37

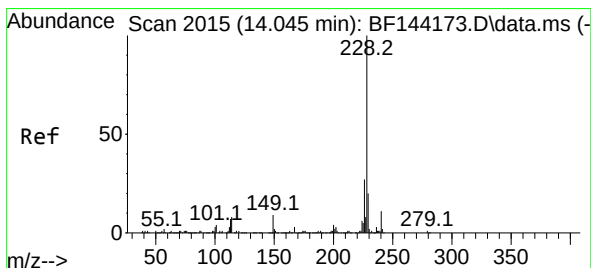
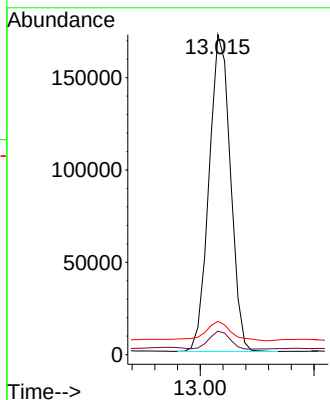
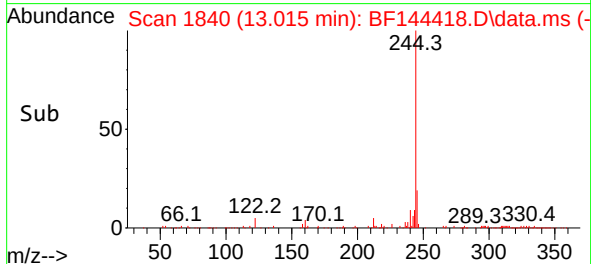
Instrument :
 BNA_F
 ClientSampleId :
 AR520-0002



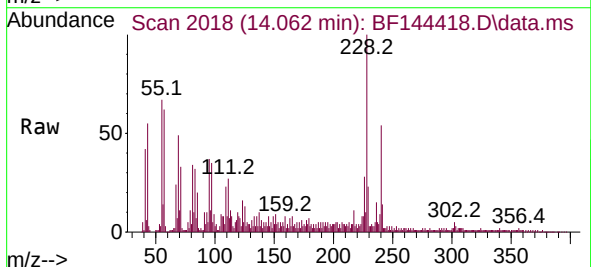
Tgt Ion:244 Resp: 224682
 Ion Ratio Lower Upper
 244 100
 212 7.3 5.3 7.9
 122 10.4 5.6 8.4

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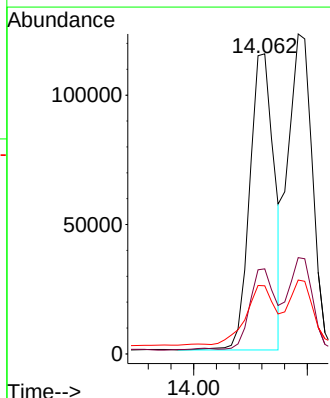
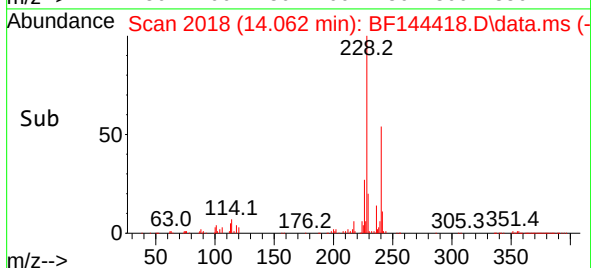
Reviewed By :Jagrut Upadhyay 12/04/2025
 Supervised By :mohammad ahmed 12/09/2025

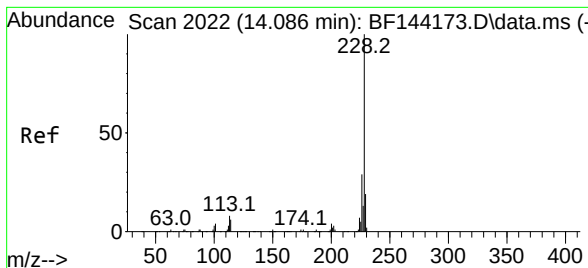


#81
 Benzo(a)anthracene
 Concen: 21.675 ng
 RT: 14.062 min Scan# 2018
 Delta R.T. 0.017 min
 Lab File: BF144418.D
 Acq: 03 Dec 2025 14:37



Tgt Ion:228 Resp: 170994
 Ion Ratio Lower Upper
 228 100
 226 28.3 21.8 32.8
 229 22.7 15.8 23.6





#83

Chrysene

Concen: 24.727 ng

RT: 14.092 min Scan# 20

Delta R.T. 0.012 min

Lab File: BF144418.D

Acq: 03 Dec 2025 14:37

Instrument :

BNA_F

ClientSampleId :

AR520-0002

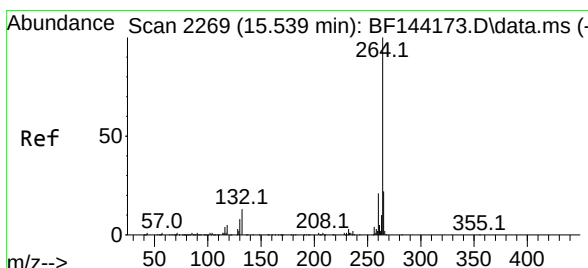
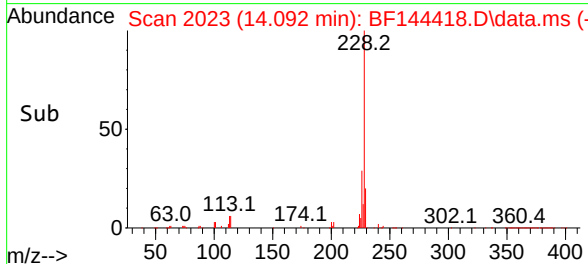
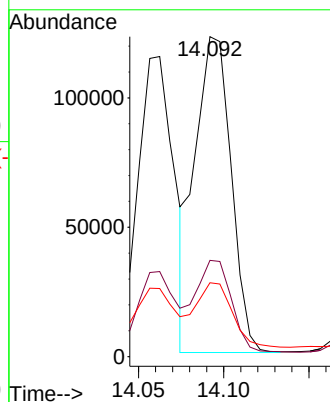
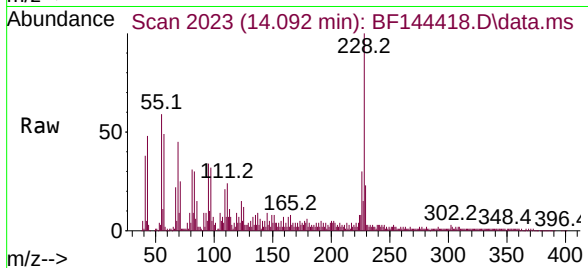
Tgt Ion:228 Resp: 180072

Ion	Ratio	Lower	Upper
228	100		
226	30.1	22.9	34.3
229	23.1	15.0	22.6

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Reviewed By :Jagrut Upadhyay 12/04/2025
Supervised By :mohammad ahmed 12/09/2025



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.539 min Scan# 2269

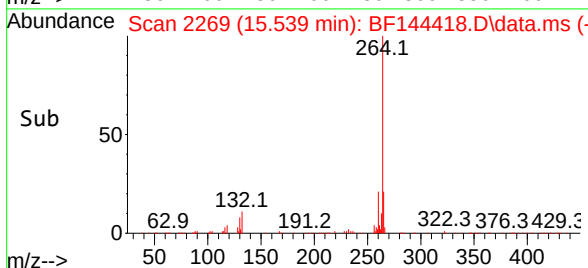
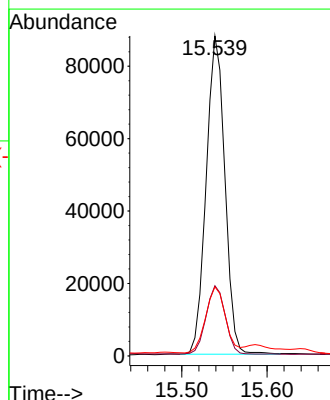
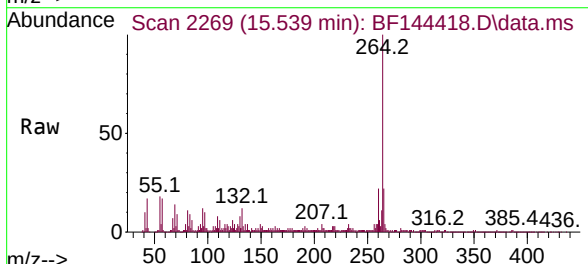
Delta R.T. -0.000 min

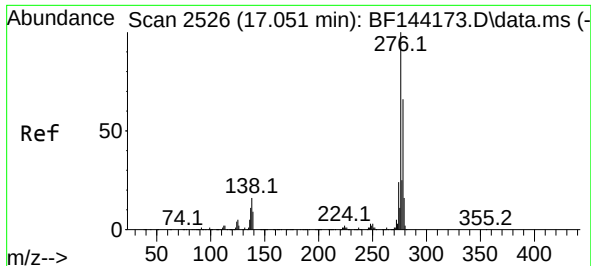
Lab File: BF144418.D

Acq: 03 Dec 2025 14:37

Tgt Ion:264 Resp: 133928

Ion	Ratio	Lower	Upper
264	100		
260	21.9	17.1	25.7
265	21.6	17.4	26.0





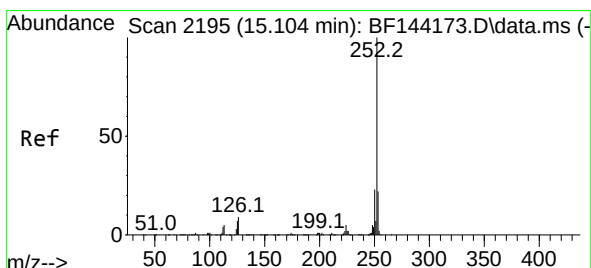
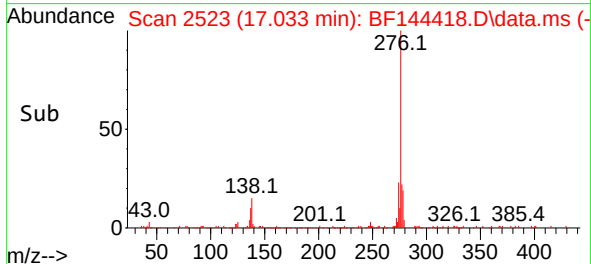
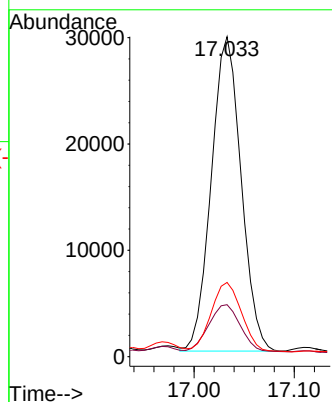
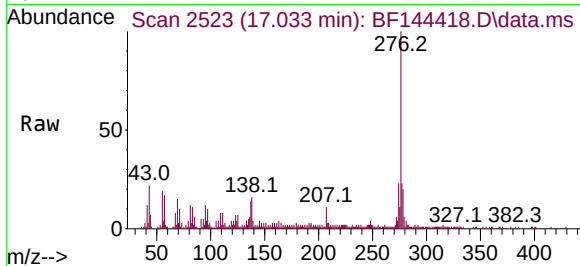
#87
Indeno(1,2,3-cd)pyrene
Concen: 6.366 ng
RT: 17.033 min Scan# 2196
Delta R.T. -0.000 min
Lab File: BF144418.D
Acq: 03 Dec 2025 14:37

Instrument :
BNA_F
ClientSampleId :
AR520-0002

Tgt Ion:276 Resp: 61200
Ion Ratio Lower Upper
276 100
138 15.8 13.9 20.9
277 22.9 19.8 29.6

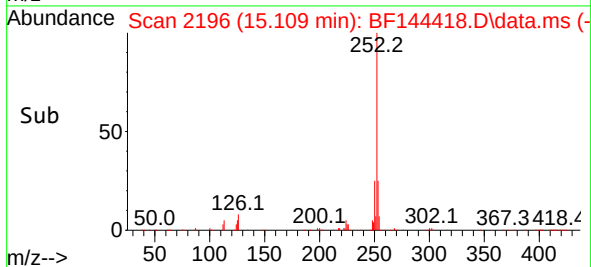
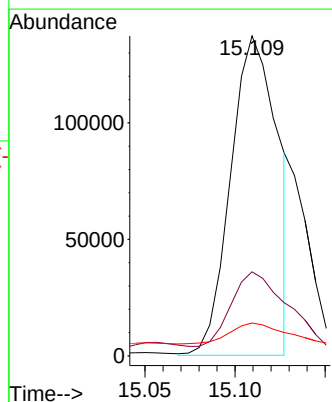
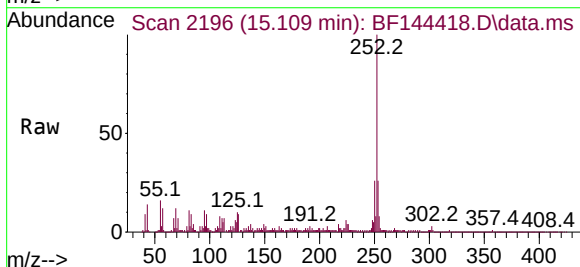
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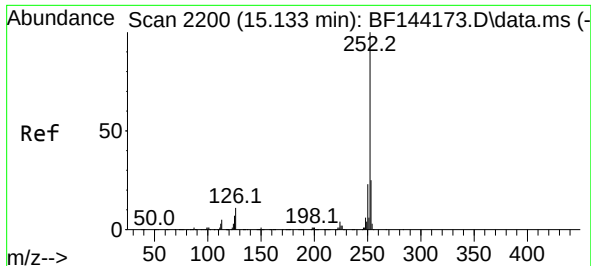
Reviewed By :Jagrut Upadhyay 12/04/2025
Supervised By :mohammad ahmed 12/09/2025



#88
Benzo(b)fluoranthene
Concen: 32.653 ng m
RT: 15.109 min Scan# 2196
Delta R.T. 0.012 min
Lab File: BF144418.D
Acq: 03 Dec 2025 14:37

Tgt Ion:252 Resp: 248624
Ion Ratio Lower Upper
252 100
253 26.3 17.4 26.2#
125 10.3 5.3 7.9#





#89

Benzo(k)fluoranthene

Concen: 9.115 ng m

RT: 15.127 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF144418.D

Acq: 03 Dec 2025 14:37

Instrument :

BNA_F

ClientSampleId :

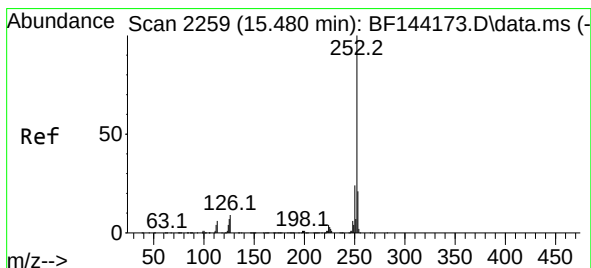
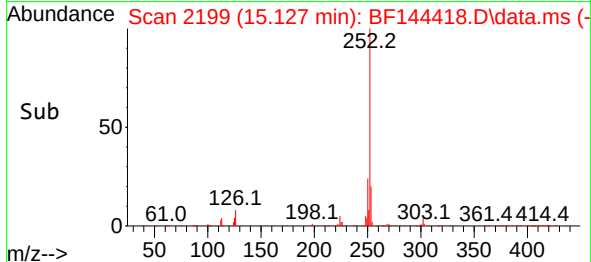
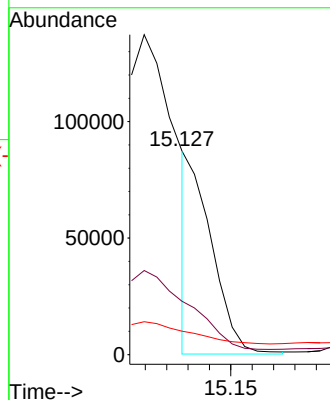
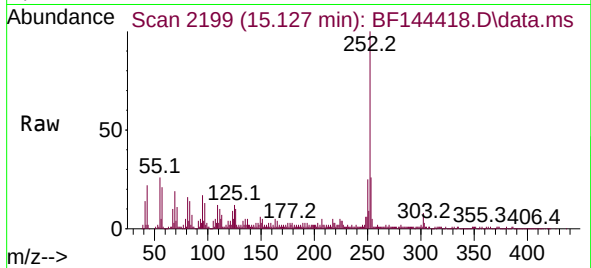
AR520-0002

Tgt Ion:252 Resp: 64960
 Ion Ratio Lower Upper
 252 100
 253 26.2 18.0 27.0
 125 11.5 5.4 8.2

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Reviewed By :Jagrut Upadhyay 12/04/2025
 Supervised By :mohammad ahmed 12/09/2025



#90

Benzo(a)pyrene

Concen: 16.366 ng

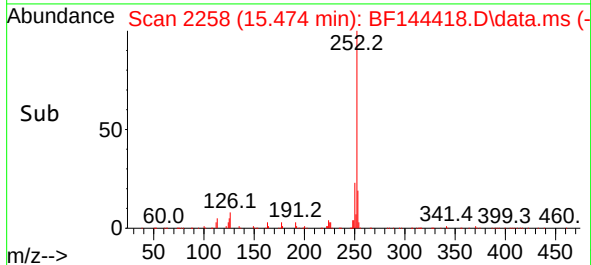
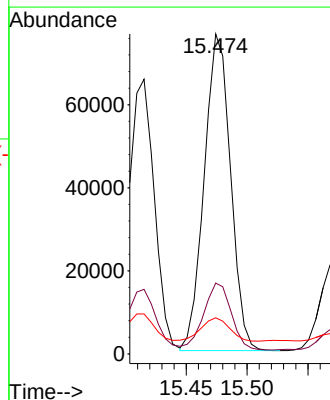
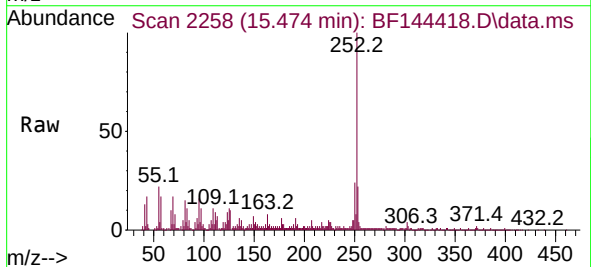
RT: 15.474 min Scan# 2258

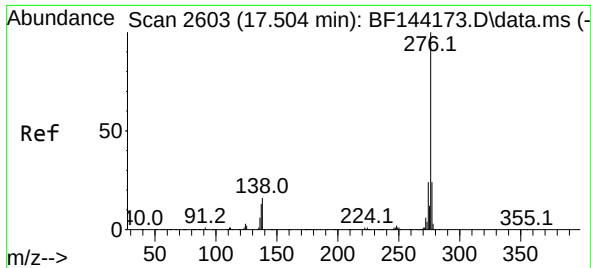
Delta R.T. -0.000 min

Lab File: BF144418.D

Acq: 03 Dec 2025 14:37

Tgt Ion:252 Resp: 114962
 Ion Ratio Lower Upper
 252 100
 253 22.1 16.7 25.1
 125 11.3 5.7 8.5





#92
 Benzo(g,h,i)perylene
 Concen: 7.033 ng
 RT: 17.486 min Scan# 20
 Delta R.T. -0.006 min
 Lab File: BF144418.D
 Acq: 03 Dec 2025 14:37

Instrument :
 BNA_F
 ClientSampleId :
 AR520-0002

Tgt Ion:	276	Resp:	5362
Ion Ratio	Lower	Upper	
276	100		
277	27.0	19.0	28.4
138	19.1	12.9	19.3

Manual Integrations
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Reviewed By :Jagrut Upadhyay 12/04/2025
 Supervised By :mohammad ahmed 12/09/2025

