

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041425\
 Data File : BM049922.D
 Acq On : 14 Apr 2025 20:25
 Operator : RC/JU
 Sample : Q1781-01
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 WC-13

Manual Integrations
 APPROVED

Reviewed By :Rahul
 Chavli

04/15/2025
 Supervised By :Jagrut
 Upadhyay

Quant Time: Apr 15 01:04:23 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 09 04:00:55 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.769	152	454202	20.000	ng	-0.01
21) Naphthalene-d8	10.563	136	1580910	20.000	ng	-0.01
39) Acenaphthene-d10	14.415	164	985779	20.000	ng	0.00
64) Phenanthrene-d10	17.156	188	1809944	20.000	ng	0.00
76) Chrysene-d12	21.391	240	1496999	20.000	ng	-0.01
86) Perylene-d12	24.391	264	1624914	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.357	112	1980839	74.055	ng	0.00
7) Phenol-d6	6.951	99	2468210	74.166	ng	0.00
23) Nitrobenzene-d5	8.928	82	1470835	51.808	ng	0.00
42) 2,4,6-Tribromophenol	15.904	330	1011752	70.562	ng	0.00
45) 2-Fluorobiphenyl	13.033	172	3773757	51.911	ng	-0.01
79) Terphenyl-d14	19.780	244	4551016	56.973	ng	-0.01
Target Compounds						
						Qvalue
71) Phenanthrene	17.198	178	419059	4.223	ng	100
75) Fluoranthene	19.215	202	896164	7.345	ng	99
78) Pyrene	19.574	202	855253	8.290	ng	100
81) Benzo(a)anthracene	21.374	228	407521	4.096	ng	99
83) Chrysene	21.433	228	406690m	4.300	ng	
87) Indeno(1,2,3-cd)pyrene	27.762	276	375800	3.103	ng	98
88) Benzo(b)fluoranthene	23.444	252	584606	5.633	ng	99
90) Benzo(a)pyrene	24.244	252	445014	4.880	ng	# 98
92) Benzo(g,h,i)perylene	28.820	276	414119	4.062	ng	97

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

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Operator : RC/JU
Sample : Q1781-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
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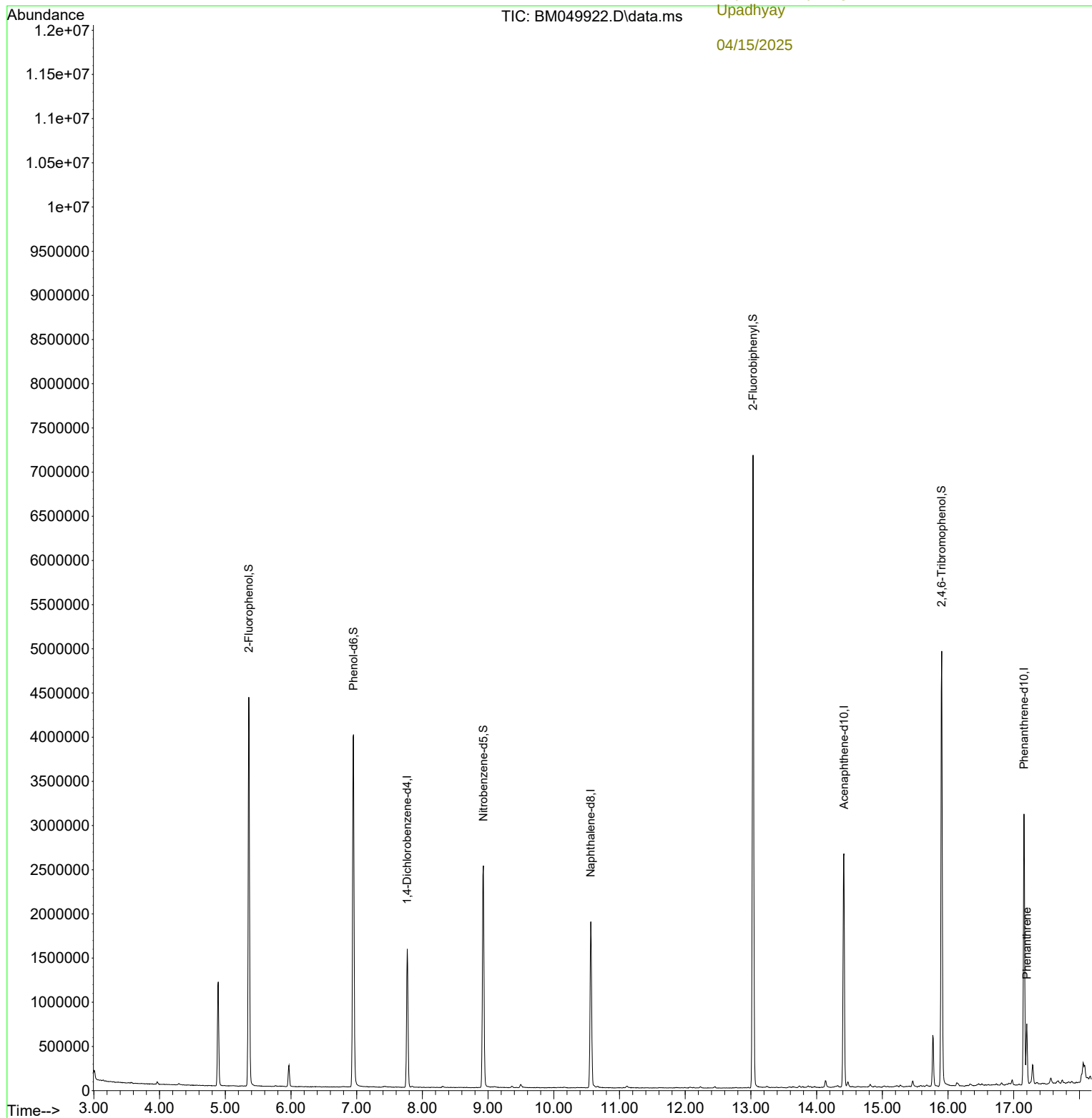
Quant Time: Apr 15 01:04:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
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Data File : BM049922.D
Acq On : 14 Apr 2025 20:25
Operator : RC/JU
Sample : Q1781-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

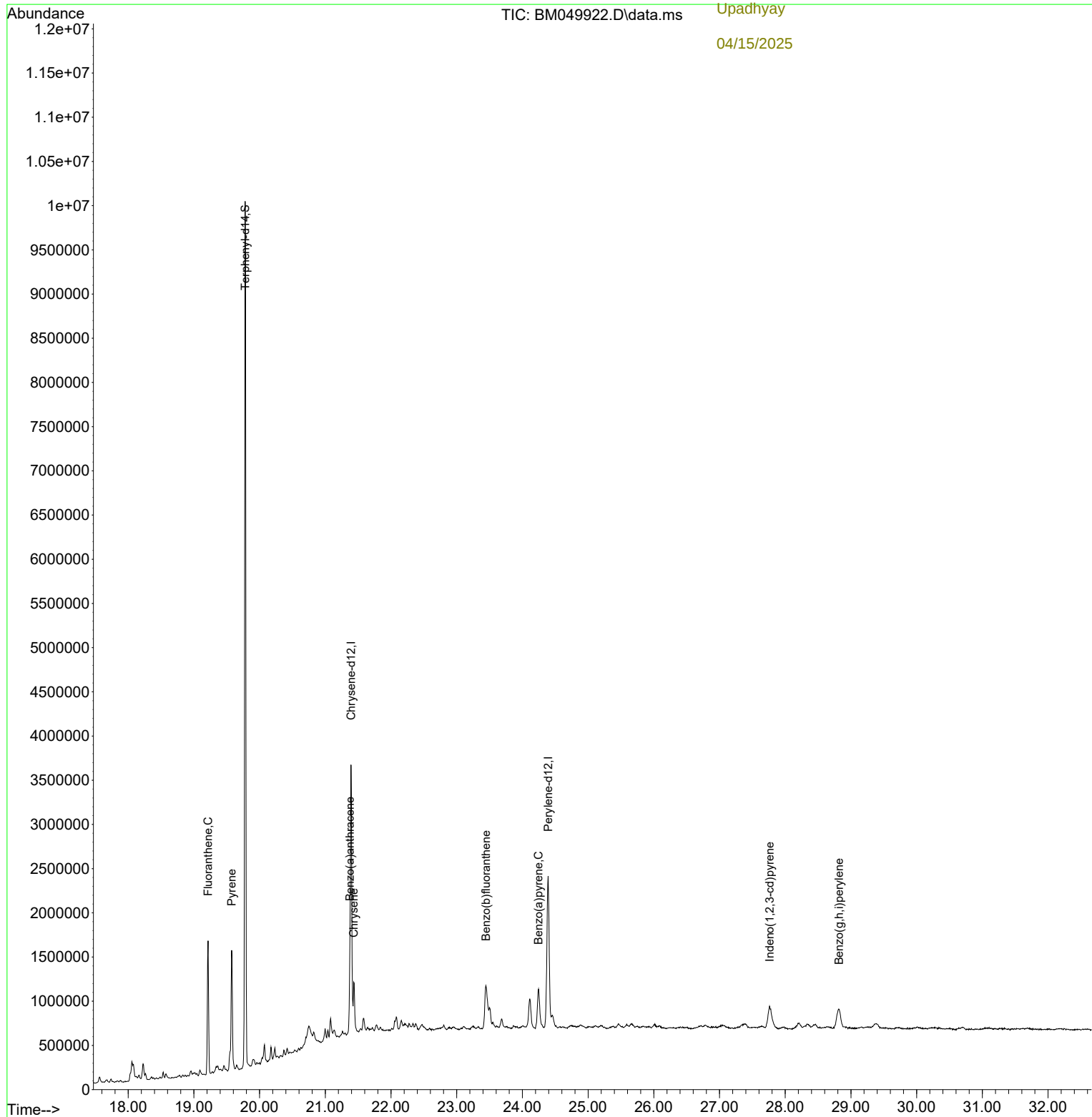
Instrument :
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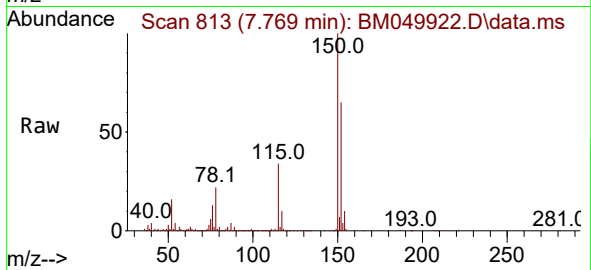
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#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.769 min Scan# 815
Delta R.T. -0.012 min
Lab File: BM049922.D
Acq: 14 Apr 2025 20:25

Instrument :
BNA_M
ClientSampleId :
WC-13



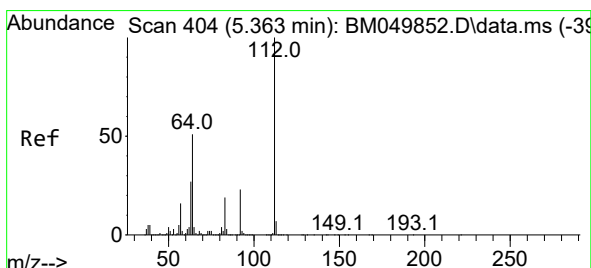
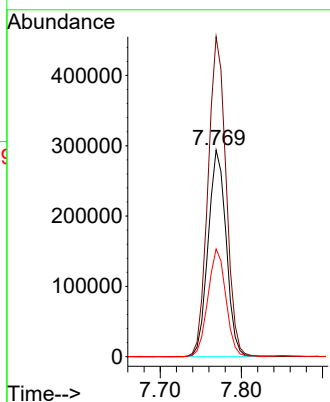
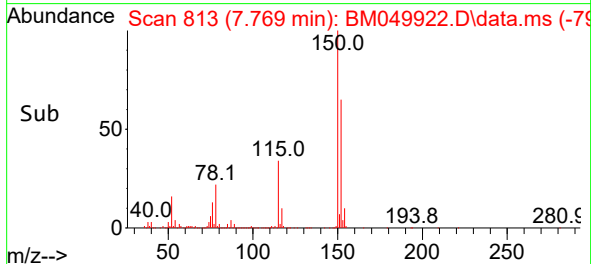
Tgt Ion:152 Resp: 45420
Ion Ratio Lower Upper
152 100
150 154.8 124.3 186.5
115 52.2 41.1 61.7

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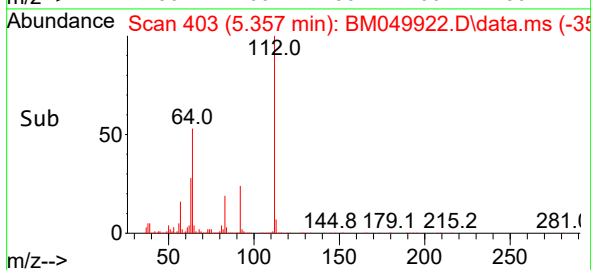
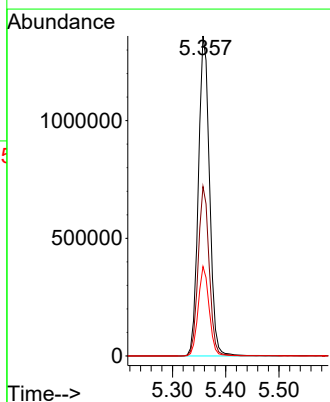
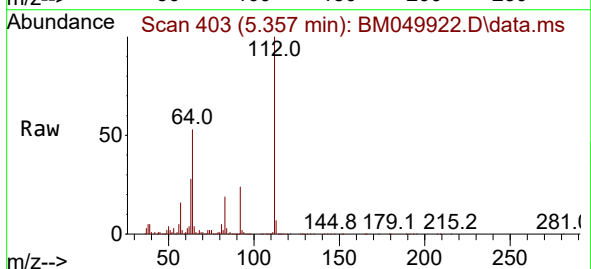
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#5
2-Fluorophenol
Concen: 74.055 ng
RT: 5.357 min Scan# 403
Delta R.T. -0.006 min
Lab File: BM049922.D
Acq: 14 Apr 2025 20:25

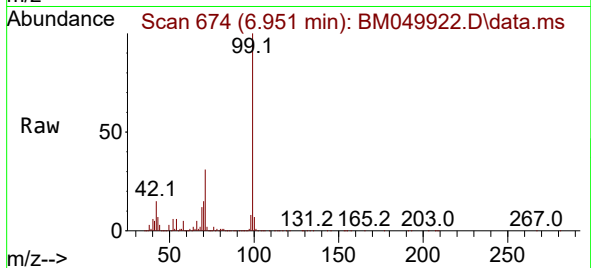
Tgt Ion:112 Resp: 1980839
Ion Ratio Lower Upper
112 100
64 52.9 41.0 61.6
63 27.9 21.5 32.3





#7
Phenol-d6
Concen: 74.166 ng
RT: 6.951 min Scan# 61
Delta R.T. -0.000 min
Lab File: BM049922.D
Acq: 14 Apr 2025 20:25

Instrument :
BNA_M
ClientSampleId :
WC-13



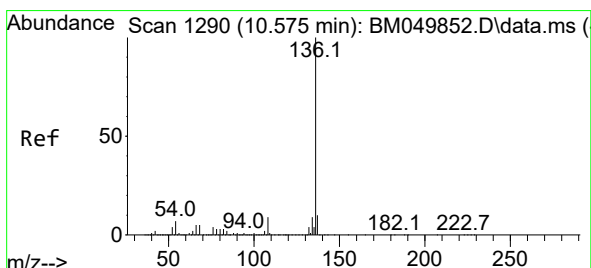
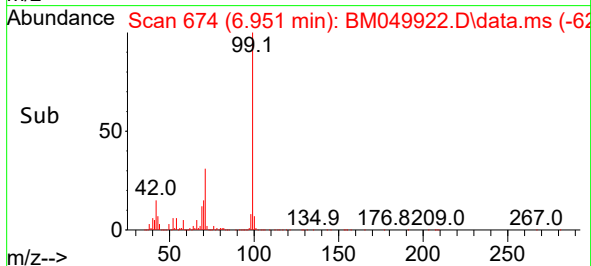
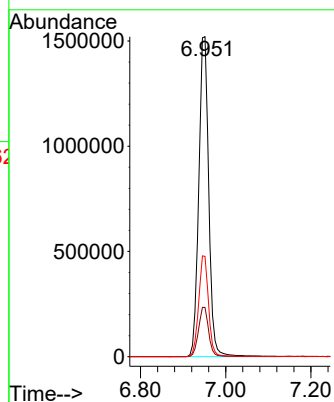
Tgt Ion: 99 Resp: 2468210
Ion Ratio Lower Upper
99 100
42 15.4 12.1 18.1
71 31.4 24.9 37.3

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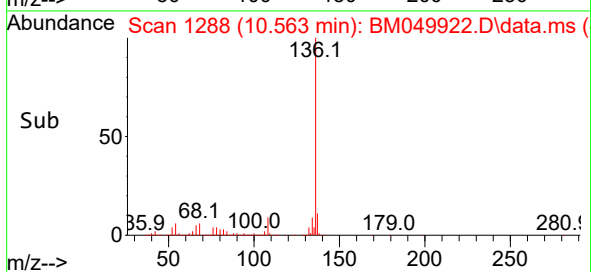
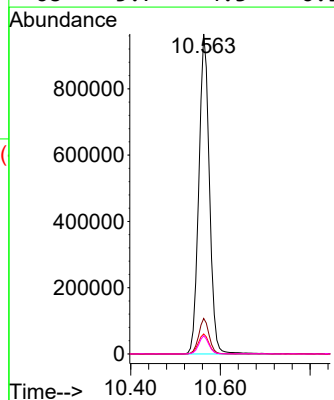
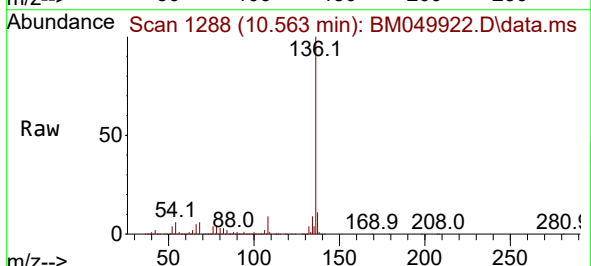
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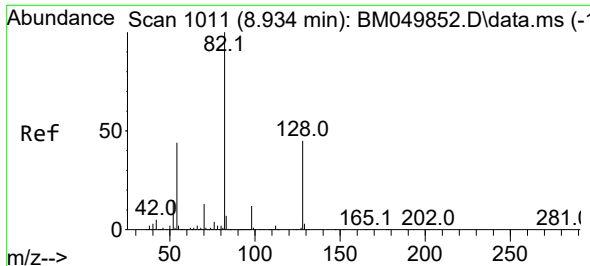
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#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.563 min Scan# 1288
Delta R.T. -0.012 min
Lab File: BM049922.D
Acq: 14 Apr 2025 20:25

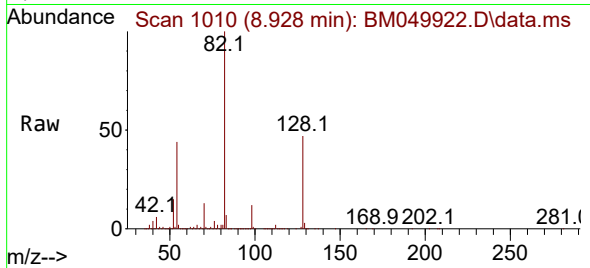
Tgt Ion:136 Resp: 1580910
Ion Ratio Lower Upper
136 100
137 11.1 8.4 12.6
54 6.2 5.3 7.9
68 5.7 4.3 6.5





#23
Nitrobenzene-d5
Concen: 51.808 ng
RT: 8.928 min Scan# 1010
Delta R.T. -0.006 min
Lab File: BM049922.D
Acq: 14 Apr 2025 20:25

Instrument :
BNA_M
ClientSampleId :
WC-13



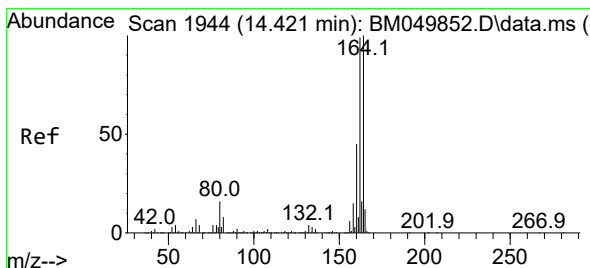
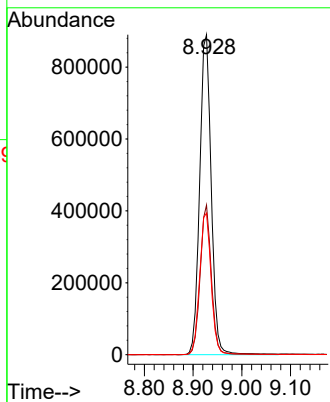
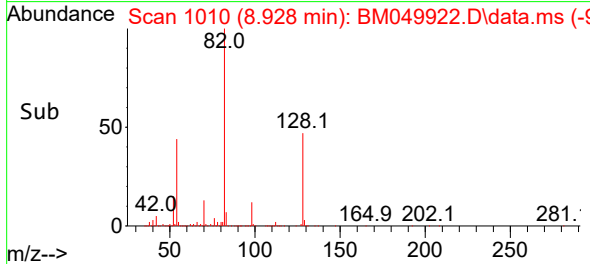
Tgt Ion: 82 Resp: 1470835
Ion Ratio Lower Upper
82 100
128 46.8 36.2 54.2
54 44.2 35.0 52.6

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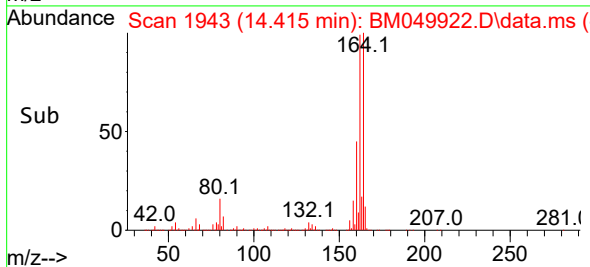
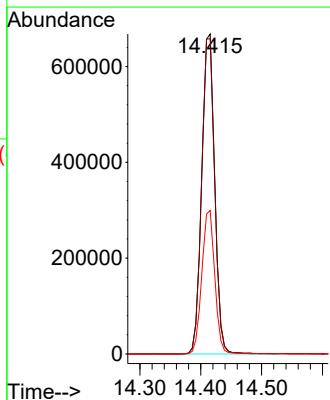
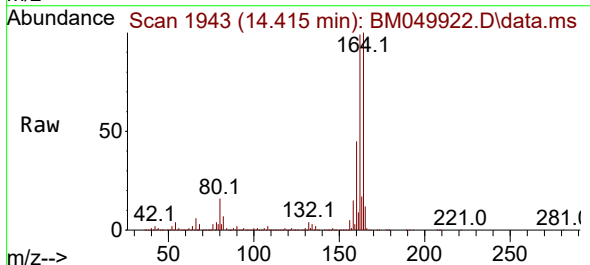
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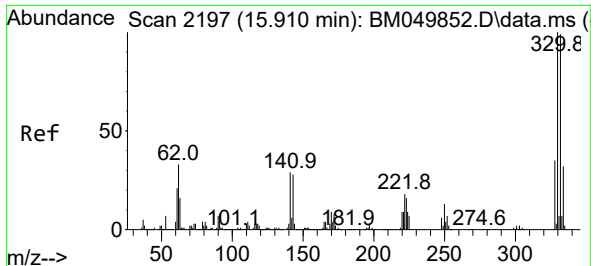
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.415 min Scan# 1943
Delta R.T. -0.006 min
Lab File: BM049922.D
Acq: 14 Apr 2025 20:25

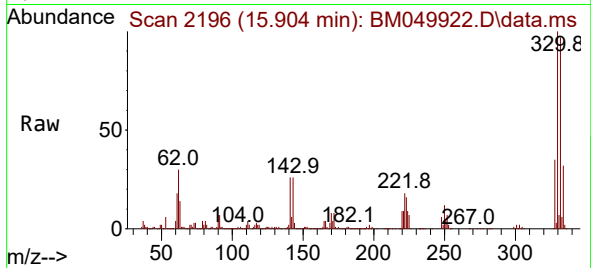
Tgt Ion:164 Resp: 985779
Ion Ratio Lower Upper
164 100
162 98.5 79.4 119.0
160 44.9 36.2 54.2





#42
2,4,6-Tribromophenol
Concen: 70.562 ng
RT: 15.904 min Scan# 2197
Delta R.T. -0.006 min
Lab File: BM049922.D
Acq: 14 Apr 2025 20:25

Instrument :
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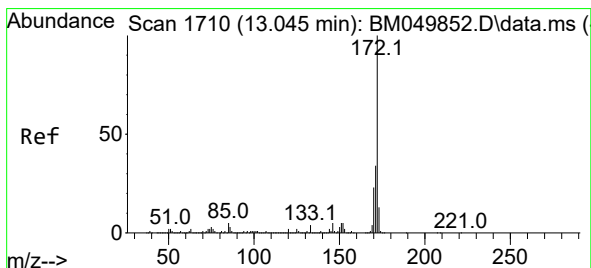
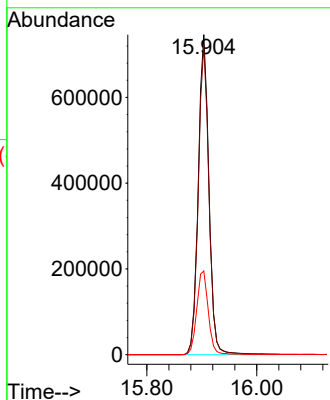
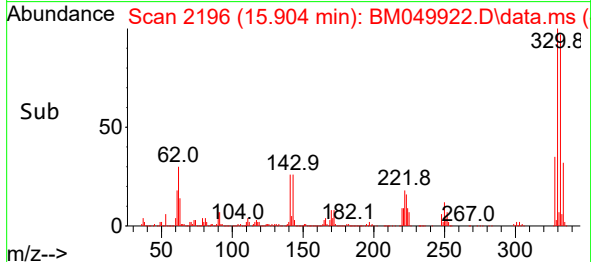
Tgt Ion:330 Resp: 1011752
Ion Ratio Lower Upper
330 100
332 96.6 78.0 117.0
141 28.1 23.5 35.3

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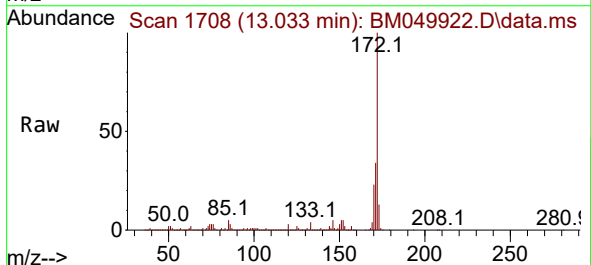
Reviewed By :Rahul
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Supervised By :Jagrut
Upadhyay

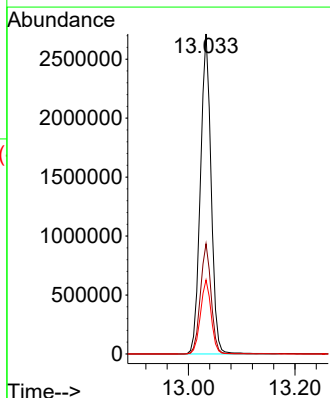
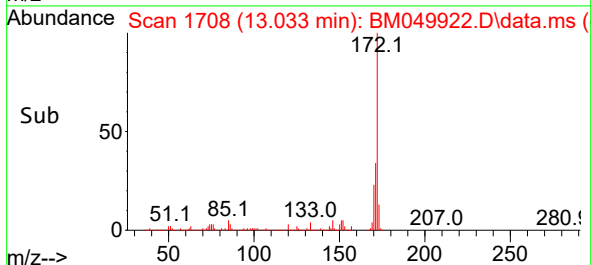
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#45
2-Fluorobiphenyl
Concen: 51.911 ng
RT: 13.033 min Scan# 1708
Delta R.T. -0.012 min
Lab File: BM049922.D
Acq: 14 Apr 2025 20:25



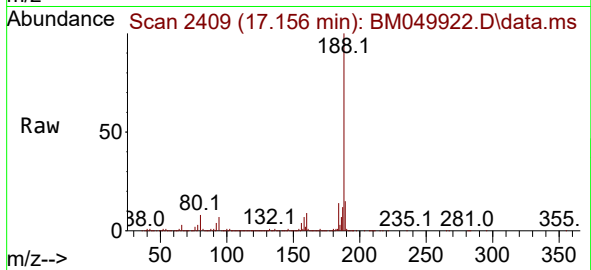
Tgt Ion:172 Resp: 3773757
Ion Ratio Lower Upper
172 100
171 34.4 27.4 41.2
170 23.1 18.6 28.0





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.156 min Scan# 2410
Delta R.T. -0.006 min
Lab File: BM049922.D
Acq: 14 Apr 2025 20:25

Instrument :
BNA_M
ClientSampleId :
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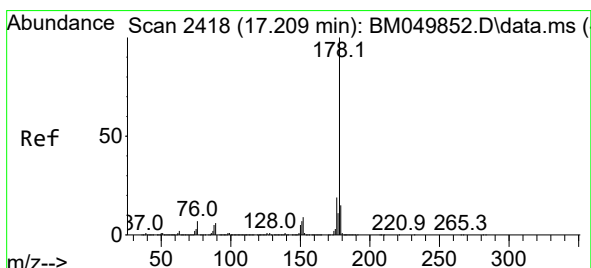
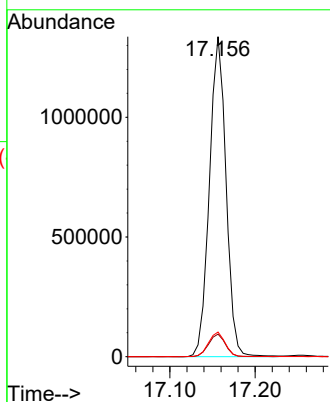
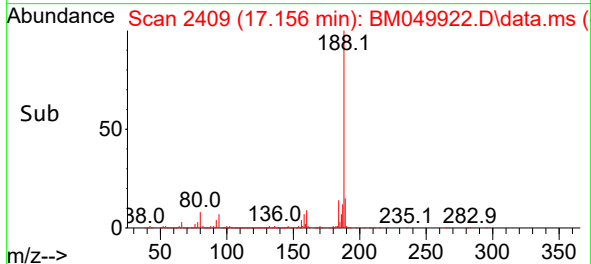
Tgt Ion:188 Resp: 1809944
Ion Ratio Lower Upper
188 100
94 7.1 5.8 8.6
80 7.7 6.4 9.6

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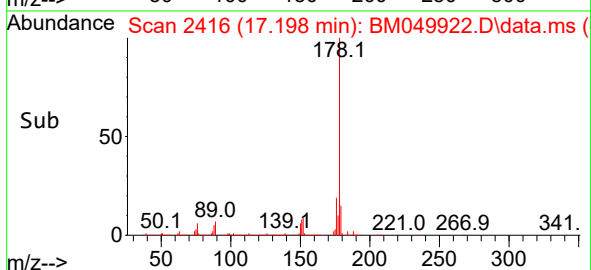
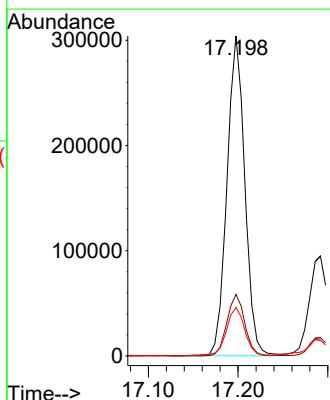
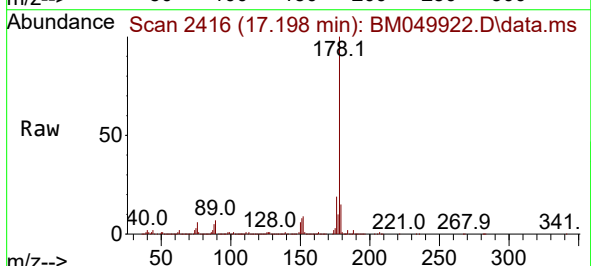
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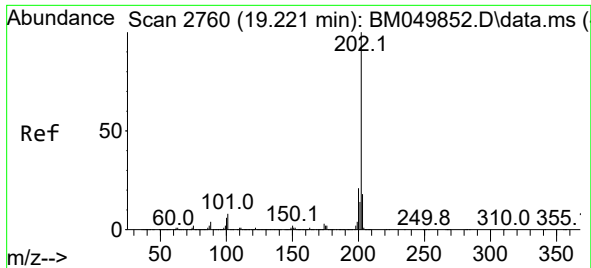
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#71
Phenanthrene
Concen: 4.223 ng
RT: 17.198 min Scan# 2416
Delta R.T. -0.012 min
Lab File: BM049922.D
Acq: 14 Apr 2025 20:25

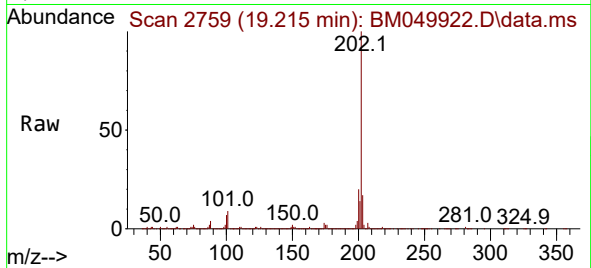
Tgt Ion:178 Resp: 419059
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.2 12.3 18.5





#75
Fluoranthene
Concen: 7.345 ng
RT: 19.215 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM049922.D
Acq: 14 Apr 2025 20:25

Instrument :
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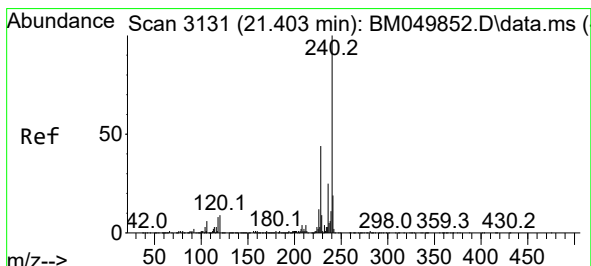
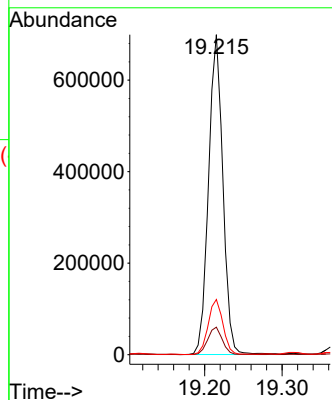
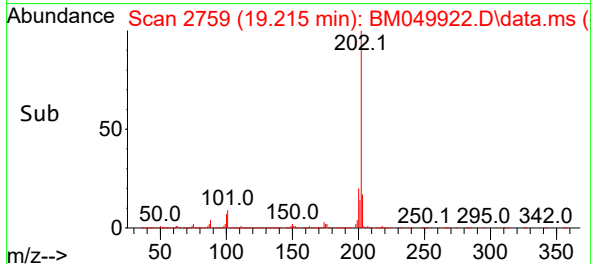
Tgt Ion:202 Resp: 896164
Ion Ratio Lower Upper
202 100
101 8.6 0.0 28.4
203 17.2 0.0 37.8

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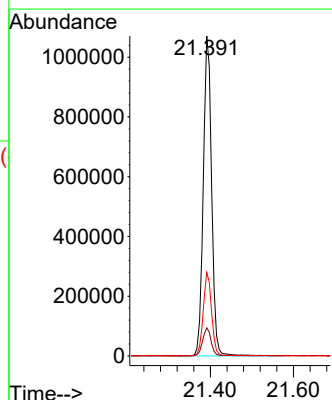
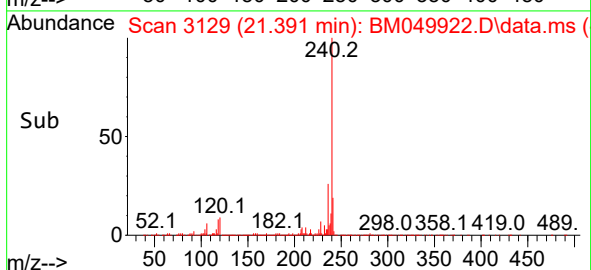
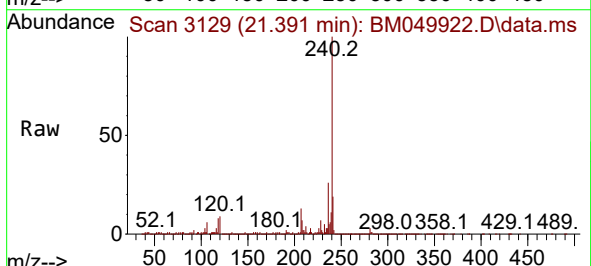
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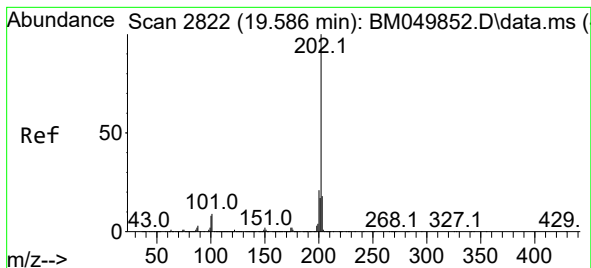
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#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.391 min Scan# 3129
Delta R.T. -0.012 min
Lab File: BM049922.D
Acq: 14 Apr 2025 20:25

Tgt Ion:240 Resp: 1496999
Ion Ratio Lower Upper
240 100
120 8.8 6.9 10.3
236 26.1 20.4 30.6





#78

Pyrene

Concen: 8.290 ng

RT: 19.574 min Scan# 2822

Delta R.T. -0.012 min

Lab File: BM049922.D

Acq: 14 Apr 2025 20:25

Instrument :

BNA_M

ClientSampleId :

WC-13

Tgt Ion:202 Resp: 85525

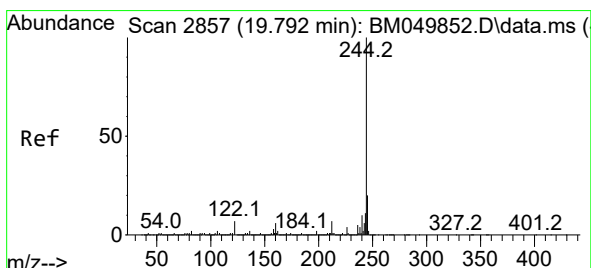
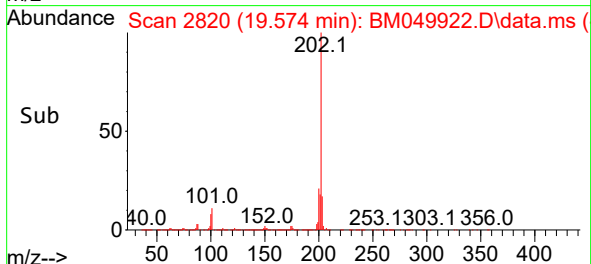
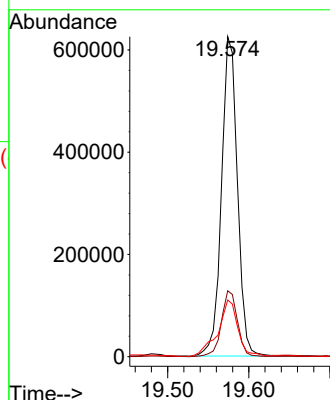
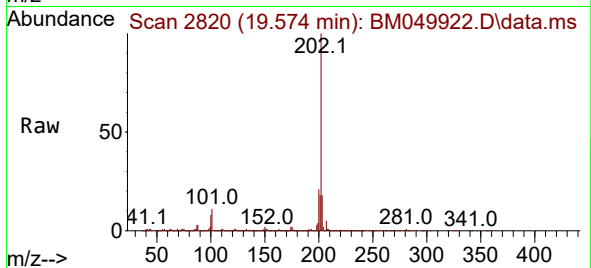
Ion	Ratio	Lower	Upper
202	100		
200	20.6	16.5	24.7
203	17.7	14.0	21.0

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#79

Terphenyl-d14

Concen: 56.973 ng

RT: 19.780 min Scan# 2855

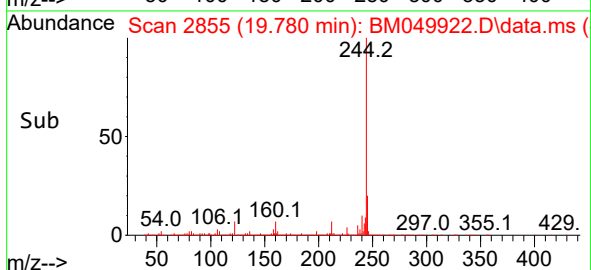
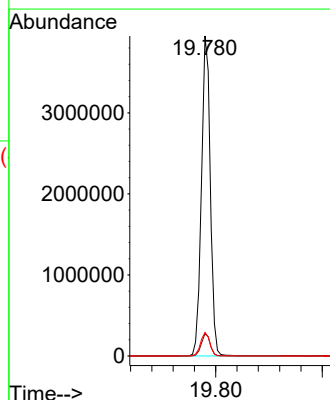
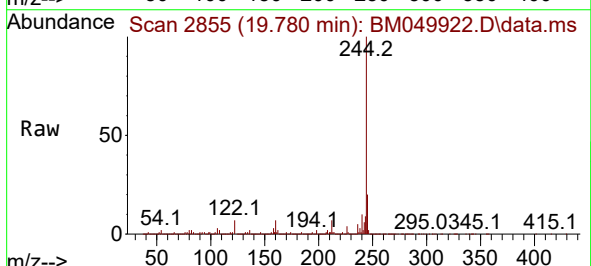
Delta R.T. -0.012 min

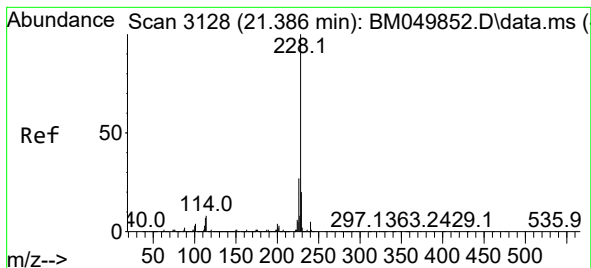
Lab File: BM049922.D

Acq: 14 Apr 2025 20:25

Tgt Ion:244 Resp: 4551016

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.5	8.3
122	7.4	5.4	8.0





#81

Benzo(a)anthracene

Concen: 4.096 ng

RT: 21.374 min Scan# 3128

Delta R.T. -0.012 min

Lab File: BM049922.D

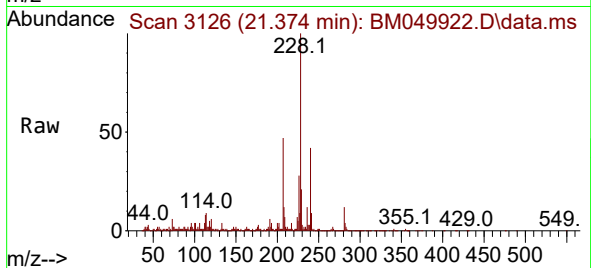
Acq: 14 Apr 2025 20:25

Instrument :

BNA_M

ClientSampleId :

WC-13



Tgt Ion:	228	Resp:	40752
Ion Ratio	Lower	Upper	
228	100		
226	28.0	21.8	32.8
229	20.5	15.8	23.8

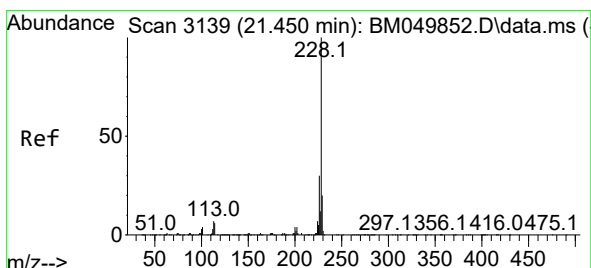
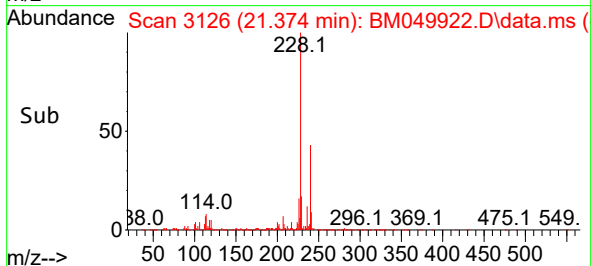
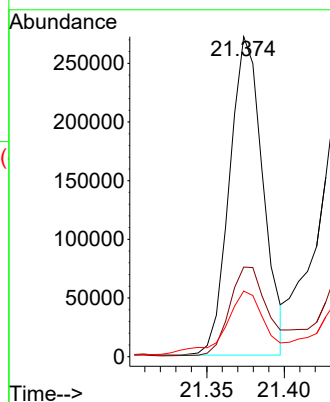
Manual Integrations
APPROVED

Reviewed By :Rahul
Chavli

04/15/2025

Supervised By :Jagrut
Upadhyay

04/15/2025



#83

Chrysene

Concen: 4.300 ng m

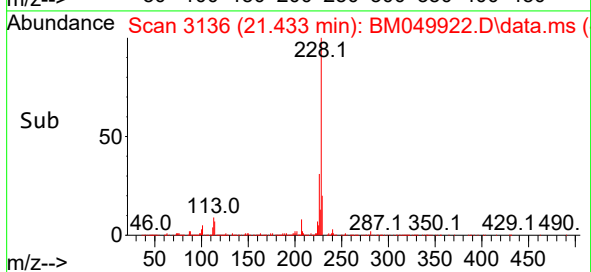
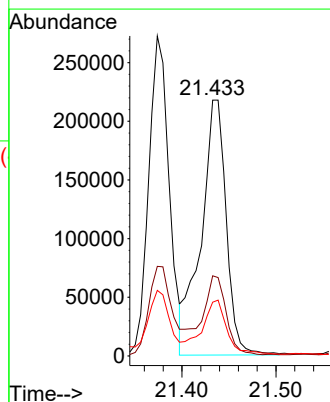
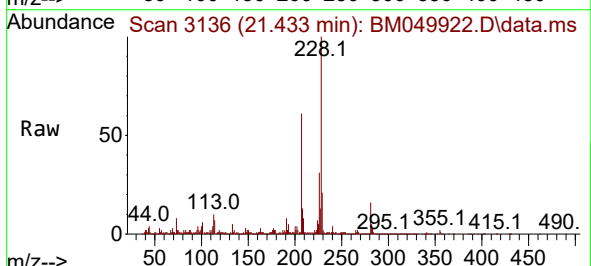
RT: 21.433 min Scan# 3136

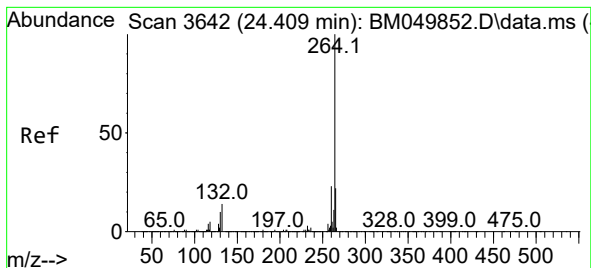
Delta R.T. -0.018 min

Lab File: BM049922.D

Acq: 14 Apr 2025 20:25

Tgt Ion:	228	Resp:	406690
Ion Ratio	Lower	Upper	
228	100		
226	31.3	24.1	36.1
229	21.0	15.8	23.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.391 min Scan# 3

Delta R.T. -0.018 min

Lab File: BM049922.D

Acq: 14 Apr 2025 20:25

Instrument :

BNA_M

ClientSampleId :

WC-13

Tgt Ion:264 Resp: 1624914

Ion Ratio Lower Upper

264 100

260 23.7 18.6 28.0

265 22.8 17.8 26.8

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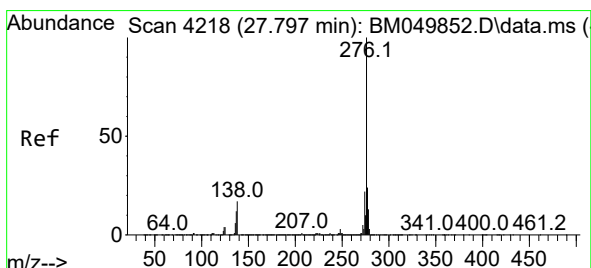
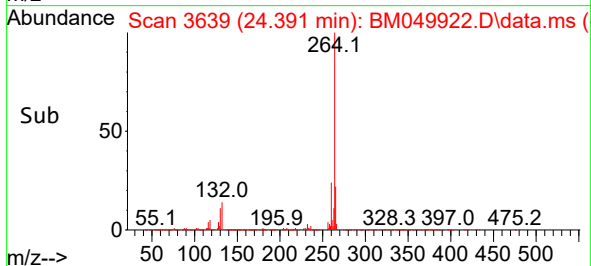
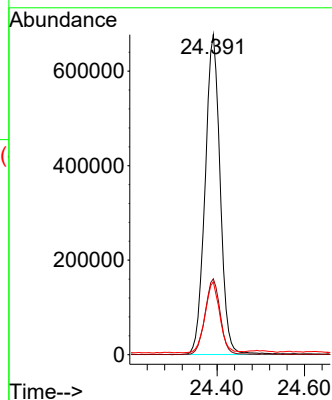
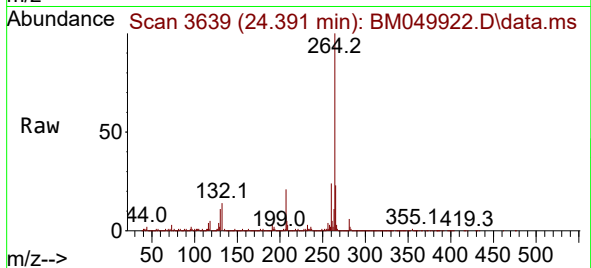
APPROVED

Reviewed By :Rahul
Chavli

04/15/2025

Supervised By :Jagrut
Upadhyay

04/15/2025



#87

Indeno(1,2,3-cd)pyrene

Concen: 3.103 ng

RT: 27.762 min Scan# 4212

Delta R.T. -0.035 min

Lab File: BM049922.D

Acq: 14 Apr 2025 20:25

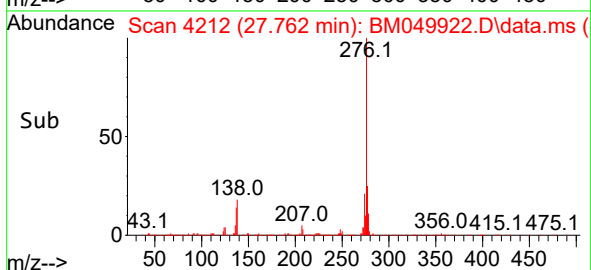
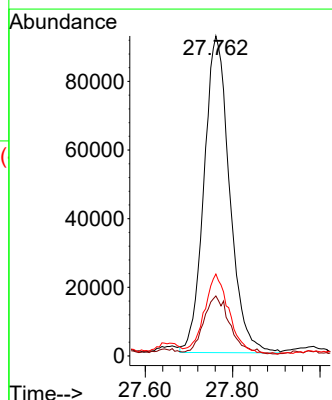
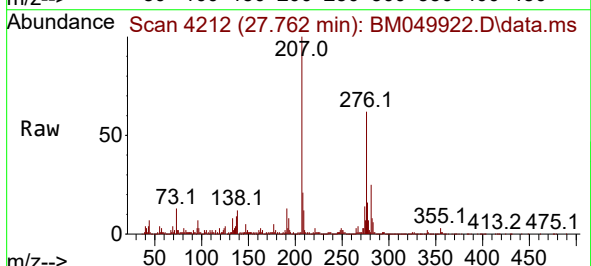
Tgt Ion:276 Resp: 375800

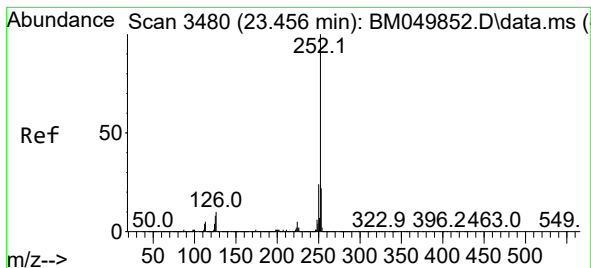
Ion Ratio Lower Upper

276 100

138 18.8 16.8 25.2

277 24.8 20.1 30.1





#88

Benzo(b)fluoranthene

Concen: 5.633 ng

RT: 23.444 min Scan# 34

Delta R.T. -0.012 min

Lab File: BM049922.D

Acq: 14 Apr 2025 20:25

Instrument :

BNA_M

ClientSampleId :

WC-13

Tgt Ion:252 Resp: 584600
 Ion Ratio Lower Upper
 252 100
 253 22.1 17.5 26.3
 125 9.1 6.2 9.4

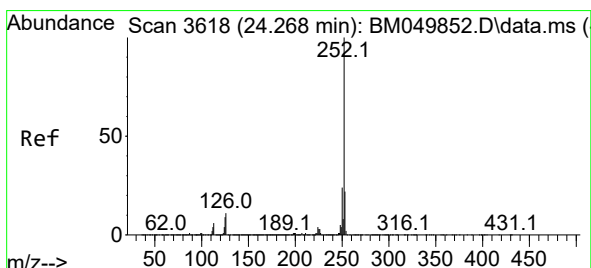
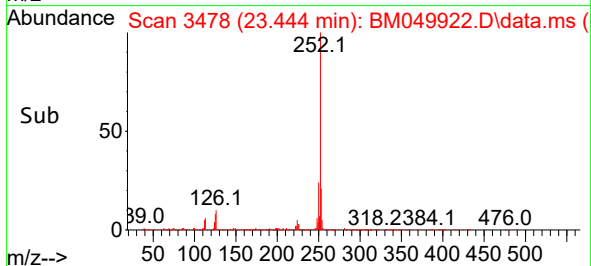
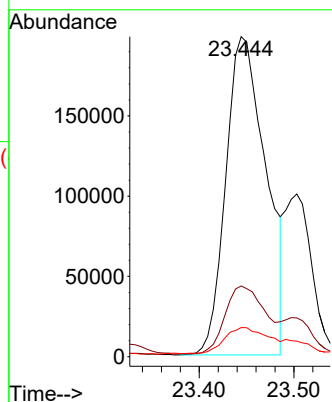
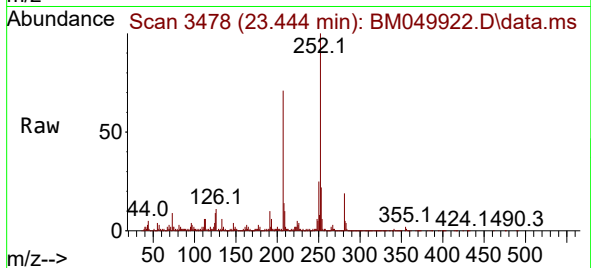
Manual Integrations
 APPROVED

Reviewed By :Rahul
 Chavli

04/15/2025

Supervised By :Jagrut
 Upadhyay

04/15/2025



#90

Benzo(a)pyrene

Concen: 4.880 ng

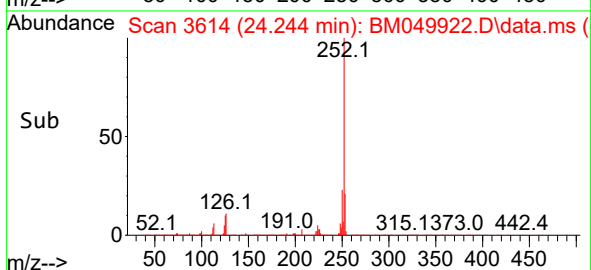
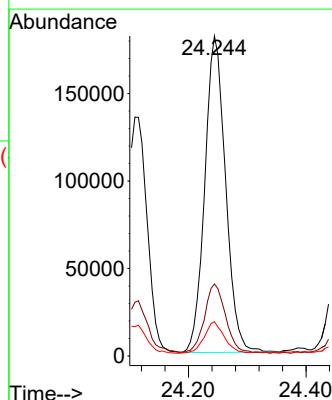
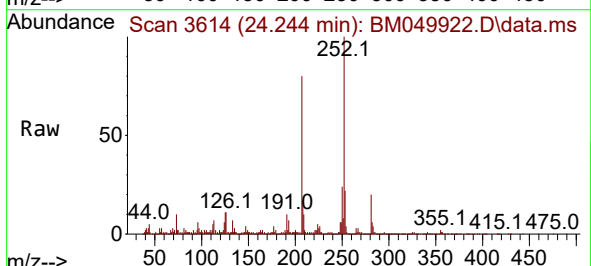
RT: 24.244 min Scan# 3614

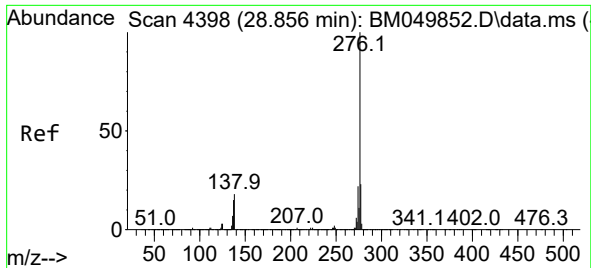
Delta R.T. -0.024 min

Lab File: BM049922.D

Acq: 14 Apr 2025 20:25

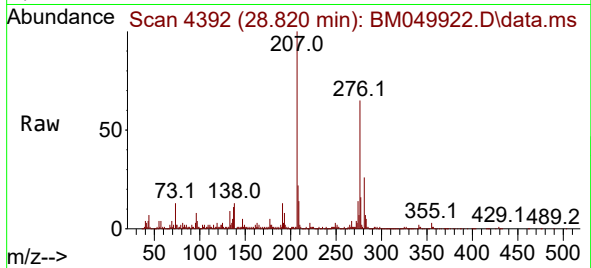
Tgt Ion:252 Resp: 445014
 Ion Ratio Lower Upper
 252 100
 253 22.5 17.8 26.8
 125 10.7 7.0 10.4#





#92
 Benzo(g,h,i)perylene
 Concen: 4.062 ng
 RT: 28.820 min Scan# 41
 Delta R.T. -0.035 min
 Lab File: BM049922.D
 Acq: 14 Apr 2025 20:25

Instrument :
 BNA_M
 ClientSampleId :
 WC-13



Tgt Ion: 276 Resp: 414119
 Ion Ratio Lower Upper
 276 100
 277 24.8 18.7 28.1
 138 19.5 14.6 21.8

Manual Integrations
 APPROVED

Reviewed By :Rahul
 Chavli

04/15/2025
 Supervised By :Jagrut
 Upadhyay

04/15/2025

