

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042325\
 Data File : BM050016.D
 Acq On : 23 Apr 2025 16:35
 Operator : RC/JU
 Sample : Q1858-02
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 COMP-2

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 04/24/2025
 Supervised By :Jagrut Upadhyay 04/24/2025

Quant Time: Apr 23 17:58:02 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	7.763	152	281365	20.000	ng	-0.02
21) Naphthalene-d8	10.557	136	963050	20.000	ng	-0.02
39) Acenaphthene-d10	14.410	164	635987	20.000	ng	-0.01
64) Phenanthrene-d10	17.157	188	1306185	20.000	ng	0.00
76) Chrysene-d12	21.398	240	1368420	20.000	ng	0.00
86) Perylene-d12	24.397	264	1421973	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.357	112	1511874	91.244	ng	0.00
7) Phenol-d6	6.946	99	1835849	89.051	ng	0.00
23) Nitrobenzene-d5	8.922	82	1087772	62.897	ng	-0.01
42) 2,4,6-Tribromophenol	15.904	330	822854	88.951	ng	0.00
45) 2-Fluorobiphenyl	13.028	172	2684428	57.236	ng	-0.02
79) Terphenyl-d14	19.780	244	4260725	58.351	ng	-0.01
Target Compounds						Qvalue
71) Phenanthrene	17.198	178	384593	5.371	ng	100
75) Fluoranthene	19.215	202	696932	7.915	ng	99
78) Pyrene	19.580	202	636925	6.754	ng	99
81) Benzo(a)anthracene	21.380	228	360722	3.966	ng	99
83) Chrysene	21.439	228	356750m	4.126	ng	
87) Indeno(1,2,3-cd)pyrene	27.785	276	222933	2.103	ng	98
88) Benzo(b)fluoranthene	23.450	252	452468	4.982	ng	97
89) Benzo(k)fluoranthene	23.509	252	191346m	2.174	ng	
90) Benzo(a)pyrene	24.256	252	298721	3.743	ng	# 97
92) Benzo(g,h,i)perylene	28.844	276	231659	2.597	ng	100

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

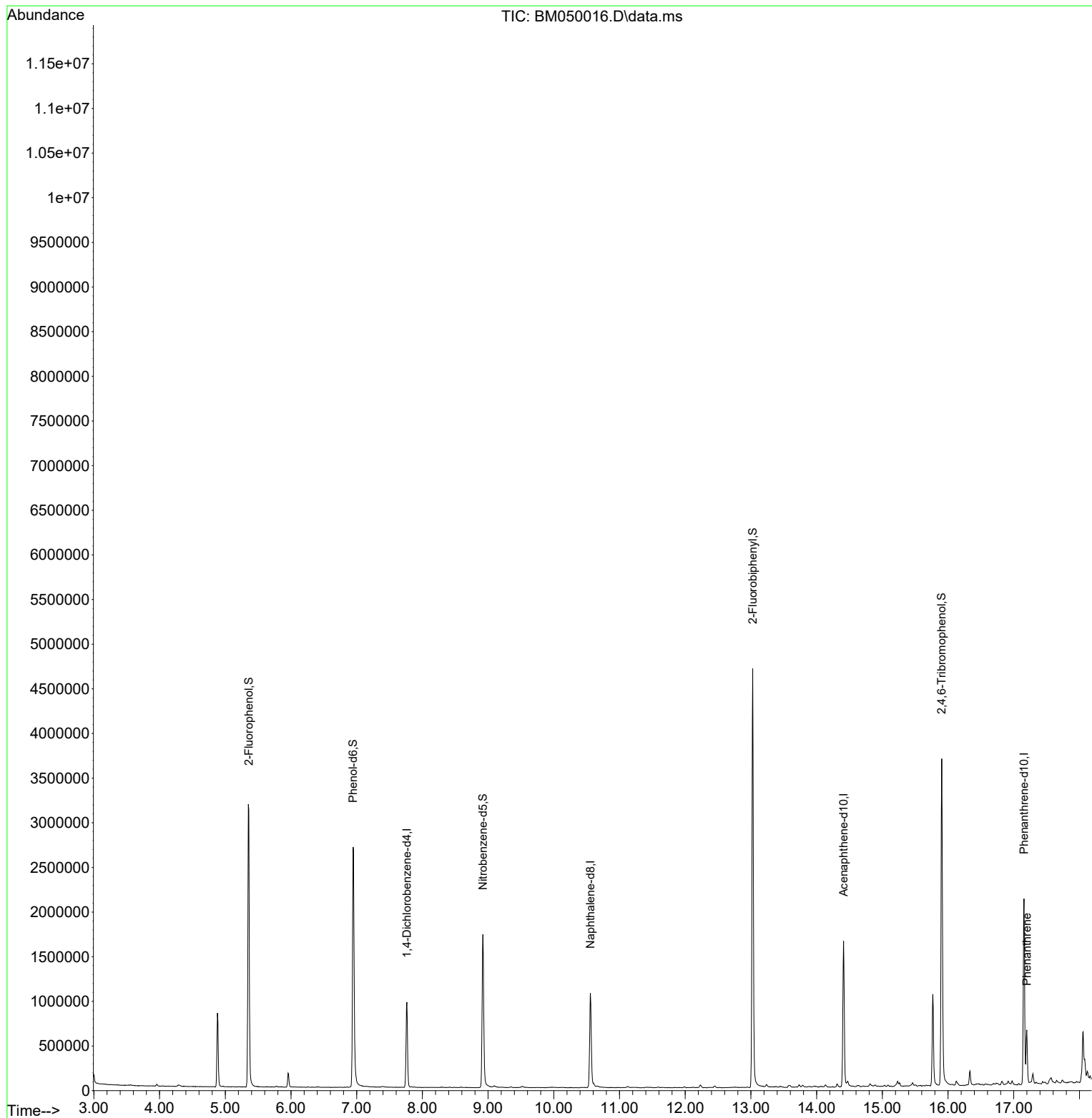
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042325\
Data File : BM050016.D
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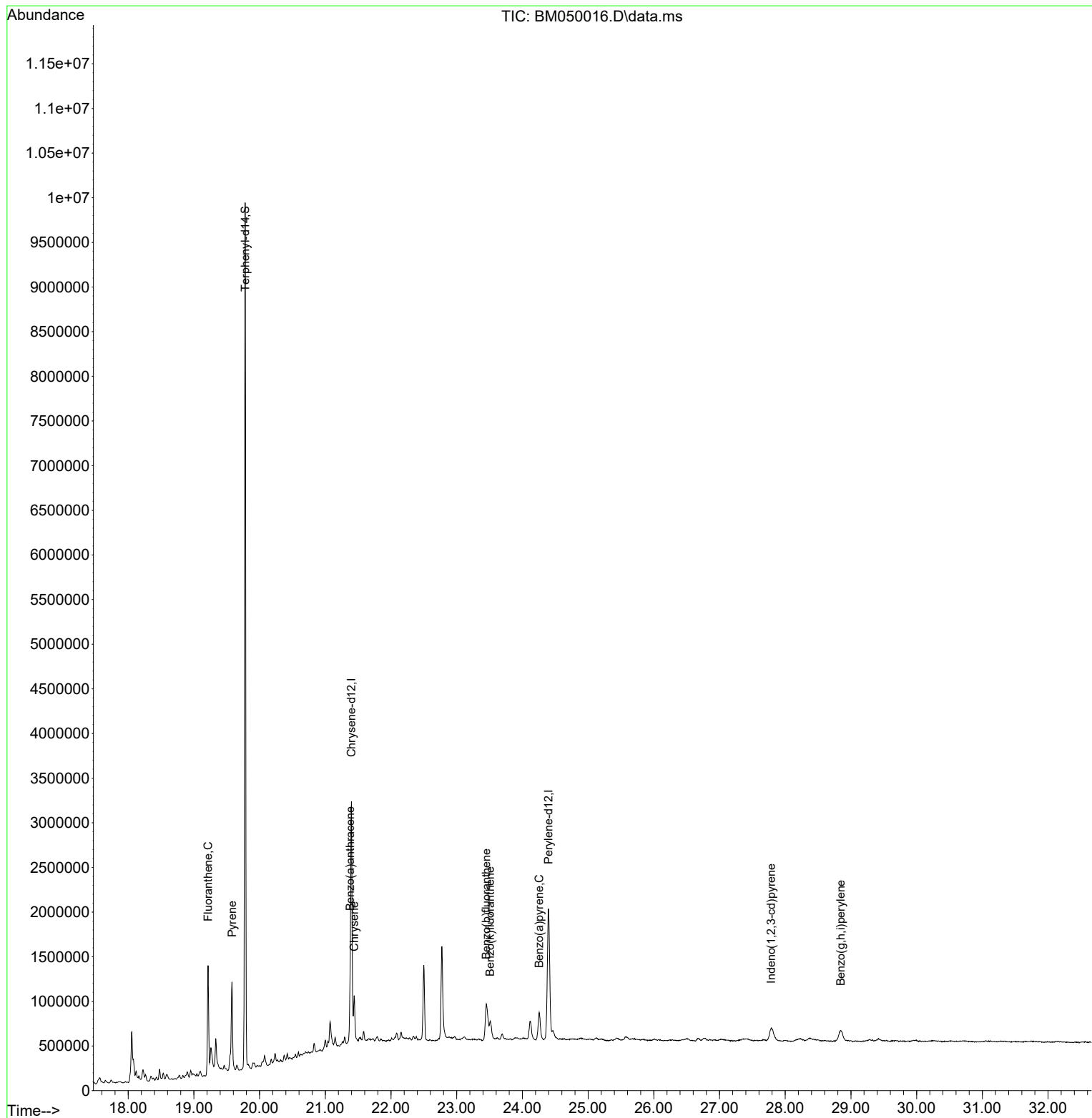
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Data File : BM050016.D
Acq On : 23 Apr 2025 16:35
Operator : RC/JU
Sample : Q1858-02
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Instrument :
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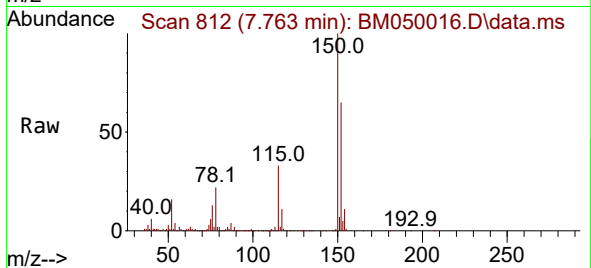
Reviewed By :Rahul Chavli 04/24/2025
Supervised By :Jagrut Upadhyay 04/24/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.763 min Scan# 815
Delta R.T. -0.018 min
Lab File: BM050016.D
Acq: 23 Apr 2025 16:35

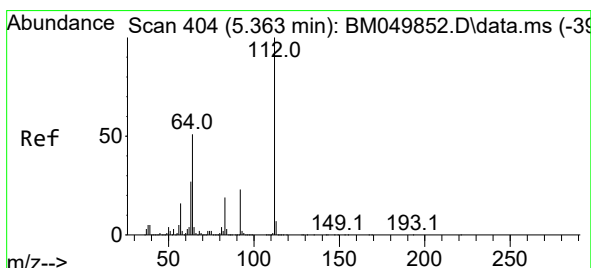
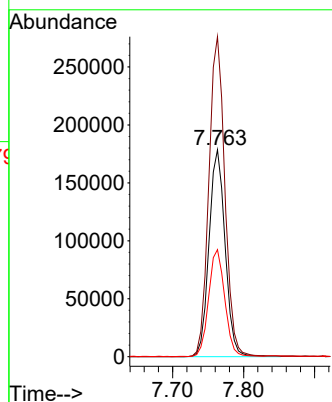
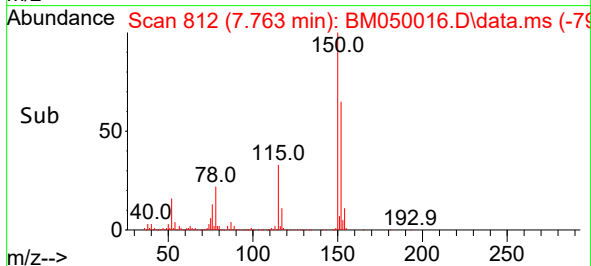
Instrument :
BNA_M
ClientSampleId :
COMP-2



Tgt Ion:152 Resp: 28136
Ion Ratio Lower Upper
152 100
150 154.7 124.3 186.5
115 51.8 41.1 61.7

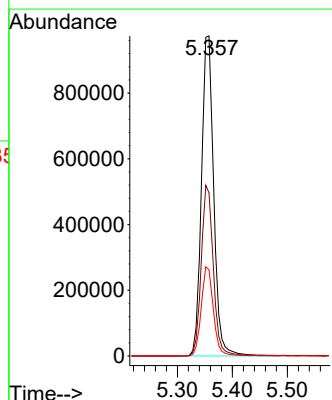
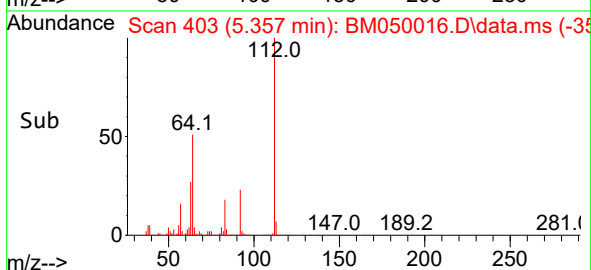
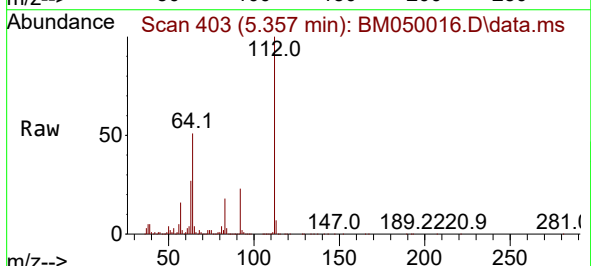
Manual Integrations
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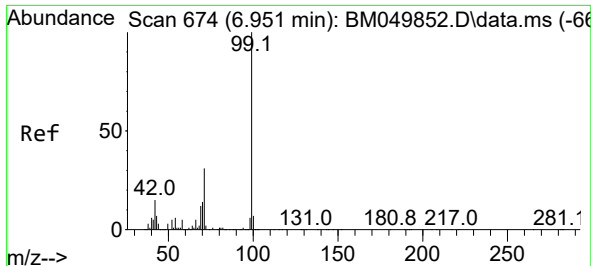
Reviewed By :Rahul Chavli 04/24/2025
Supervised By :Jagrut Upadhyay 04/24/2025



#5
2-Fluorophenol
Concen: 91.244 ng
RT: 5.357 min Scan# 403
Delta R.T. -0.006 min
Lab File: BM050016.D
Acq: 23 Apr 2025 16:35

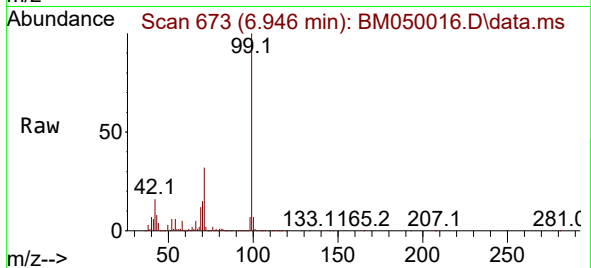
Tgt Ion:112 Resp: 1511874
Ion Ratio Lower Upper
112 100
64 51.0 41.0 61.6
63 27.0 21.5 32.3





#7
Phenol-d6
Concen: 89.051 ng
RT: 6.946 min Scan# 61
Delta R.T. -0.006 min
Lab File: BM050016.D
Acq: 23 Apr 2025 16:35

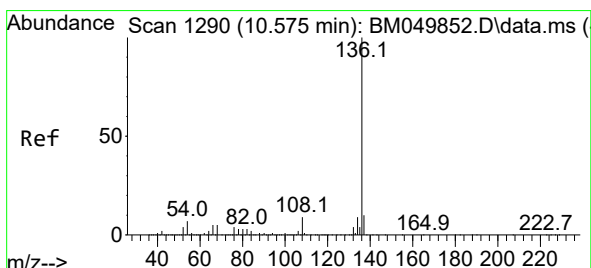
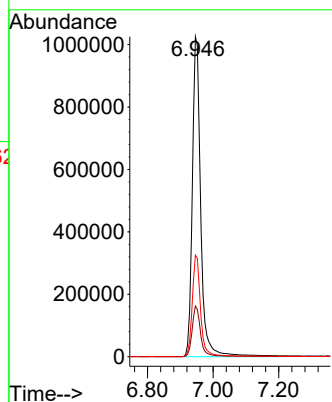
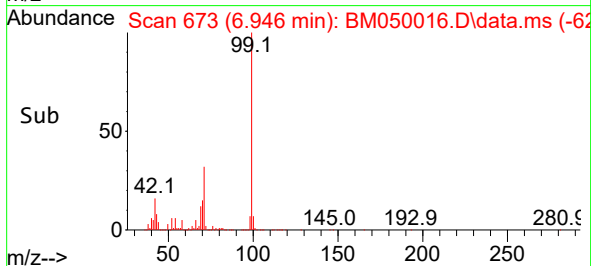
Instrument :
BNA_M
ClientSampleId :
COMP-2



Tgt Ion: 99 Resp: 1835849
Ion Ratio Lower Upper
99 100
42 15.8 12.1 18.1
71 31.8 24.9 37.3

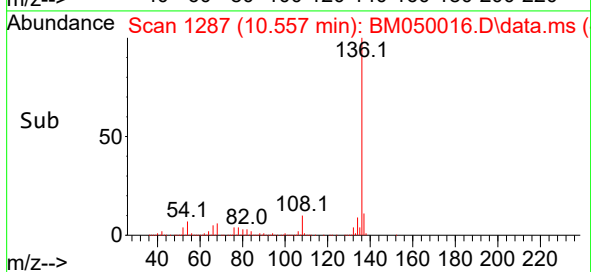
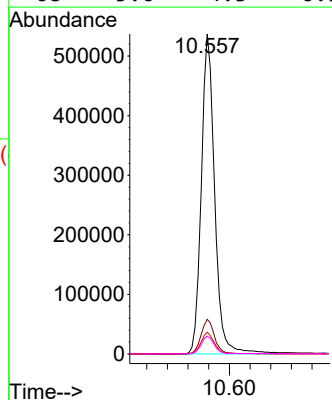
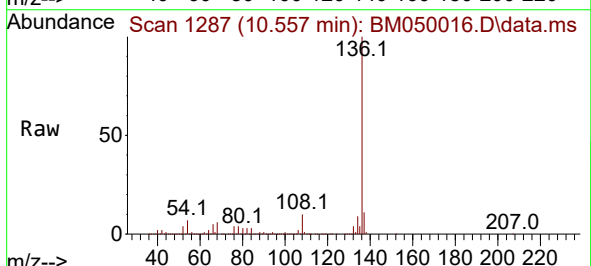
Manual Integrations
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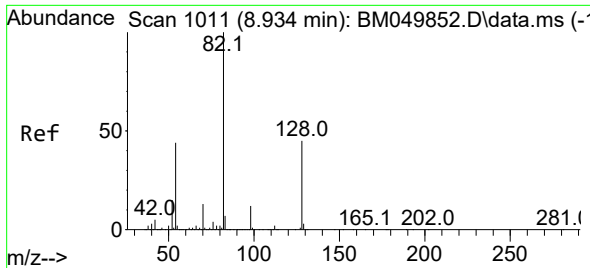
Reviewed By :Rahul Chavli 04/24/2025
Supervised By :Jagrut Upadhyay 04/24/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.557 min Scan# 1287
Delta R.T. -0.017 min
Lab File: BM050016.D
Acq: 23 Apr 2025 16:35

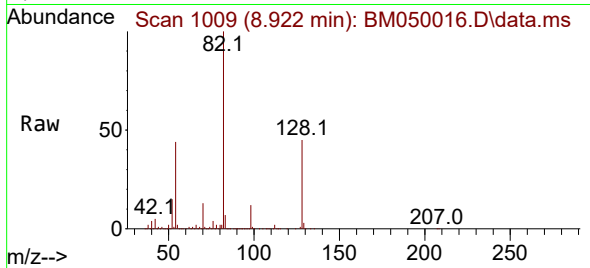
Tgt Ion:136 Resp: 963050
Ion Ratio Lower Upper
136 100
137 10.9 8.4 12.6
54 6.8 5.3 7.9
68 5.6 4.3 6.5





#23
Nitrobenzene-d5
Concen: 62.897 ng
RT: 8.922 min Scan# 1009
Delta R.T. -0.012 min
Lab File: BM050016.D
Acq: 23 Apr 2025 16:35

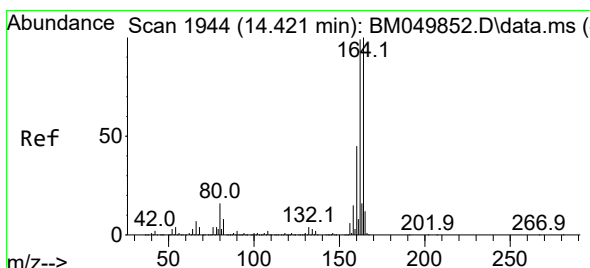
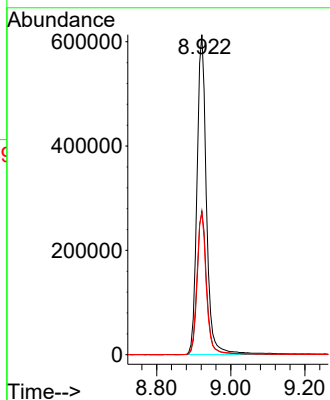
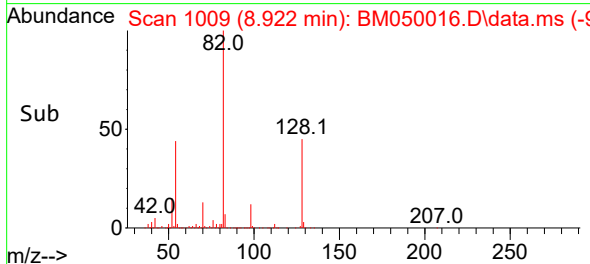
Instrument :
BNA_M
ClientSampleId :
COMP-2



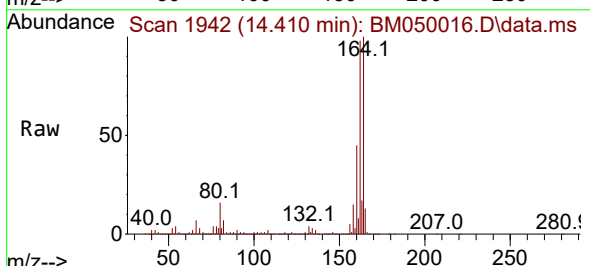
Tgt Ion: 82 Resp: 1087772
Ion Ratio Lower Upper
82 100
128 44.9 36.2 54.2
54 44.3 35.0 52.6

Manual Integrations
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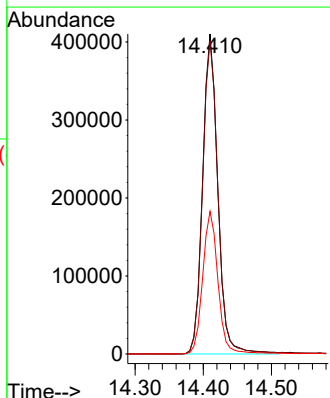
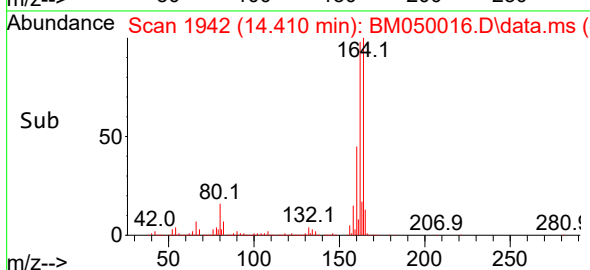
Reviewed By :Rahul Chavli 04/24/2025
Supervised By :Jagrut Upadhyay 04/24/2025

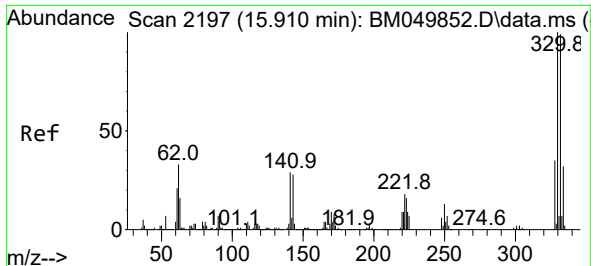


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.410 min Scan# 1942
Delta R.T. -0.012 min
Lab File: BM050016.D
Acq: 23 Apr 2025 16:35



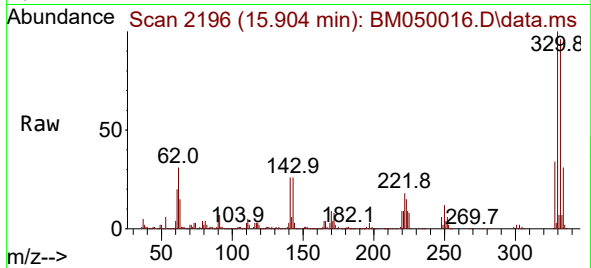
Tgt Ion:164 Resp: 635987
Ion Ratio Lower Upper
164 100
162 97.8 79.4 119.0
160 44.5 36.2 54.2





#42
2,4,6-Tribromophenol
Concen: 88.951 ng
RT: 15.904 min Scan# 2197
Delta R.T. -0.006 min
Lab File: BM050016.D
Acq: 23 Apr 2025 16:35

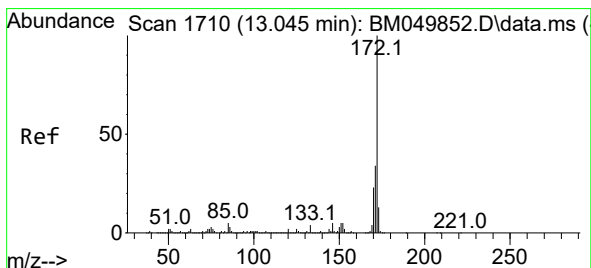
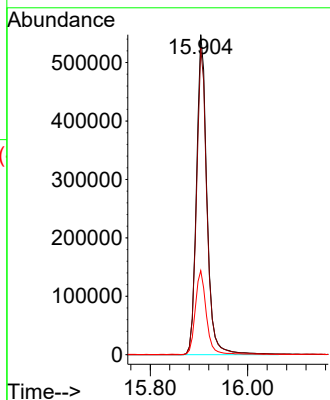
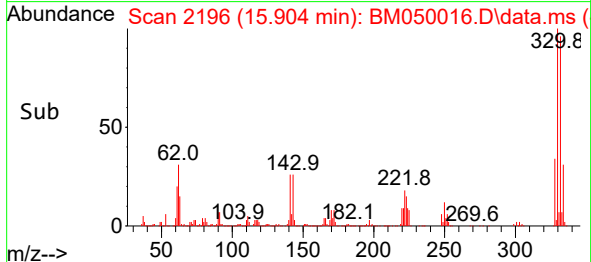
Instrument :
BNA_M
ClientSampleId :
COMP-2



Tgt Ion:330 Resp: 822854
Ion Ratio Lower Upper
330 100
332 96.0 78.0 117.0
141 27.5 23.5 35.3

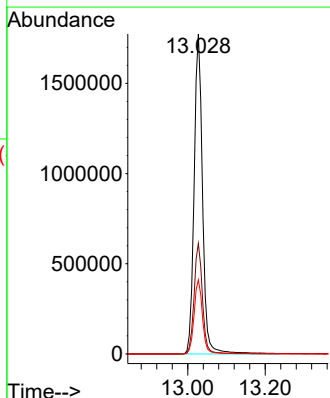
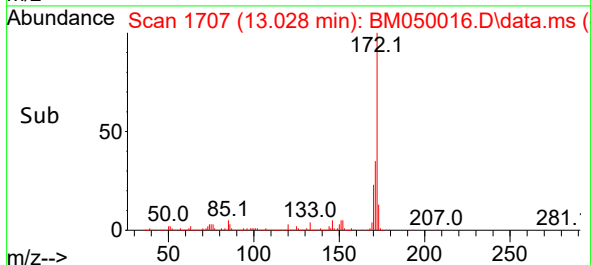
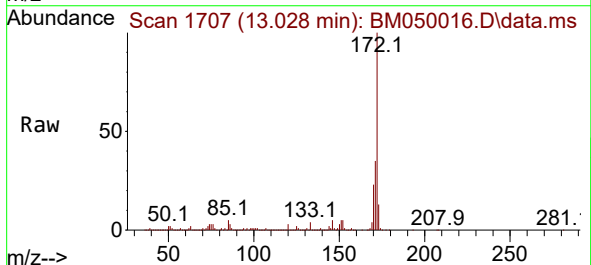
Manual Integrations
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#45
2-Fluorobiphenyl
Concen: 57.236 ng
RT: 13.028 min Scan# 1707
Delta R.T. -0.018 min
Lab File: BM050016.D
Acq: 23 Apr 2025 16:35

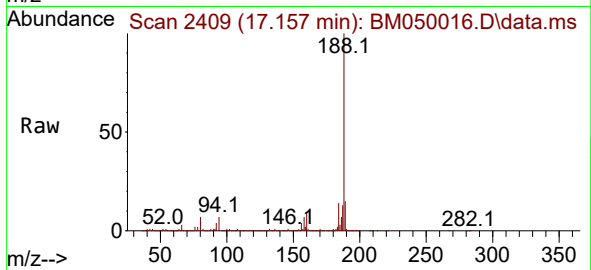
Tgt Ion:172 Resp: 2684428
Ion Ratio Lower Upper
172 100
171 34.6 27.4 41.2
170 23.2 18.6 28.0





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.157 min Scan# 2410
Delta R.T. -0.006 min
Lab File: BM050016.D
Acq: 23 Apr 2025 16:35

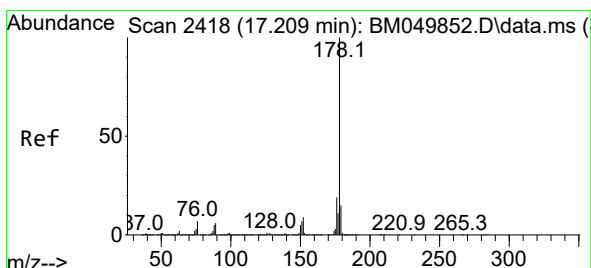
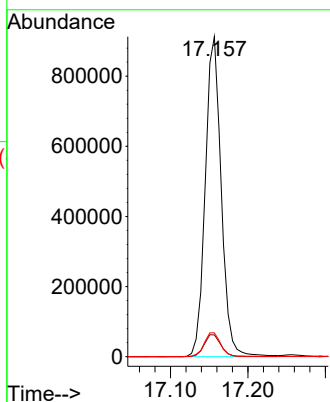
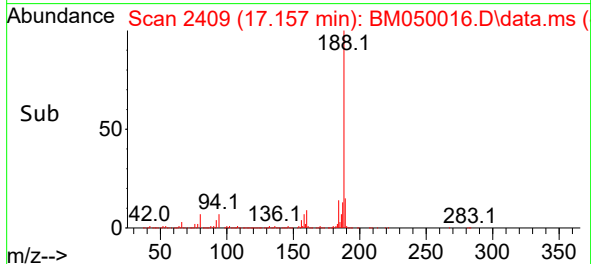
Instrument :
BNA_M
ClientSampleId :
COMP-2



Tgt Ion:188 Resp: 130618
Ion Ratio Lower Upper
188 100
94 6.8 5.8 8.6
80 7.5 6.4 9.6

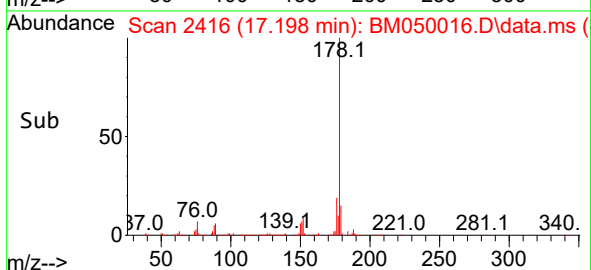
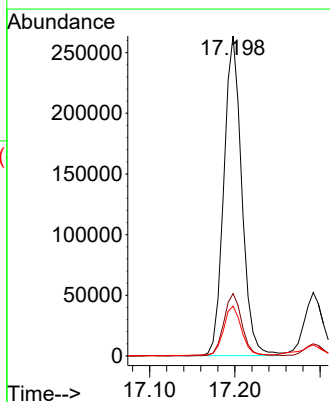
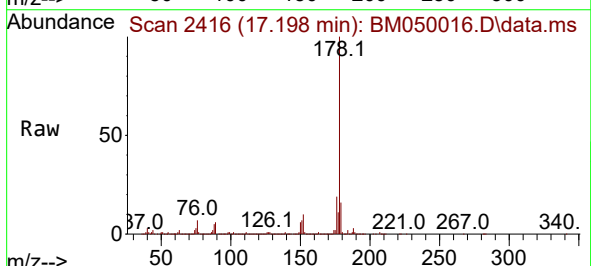
Manual Integrations
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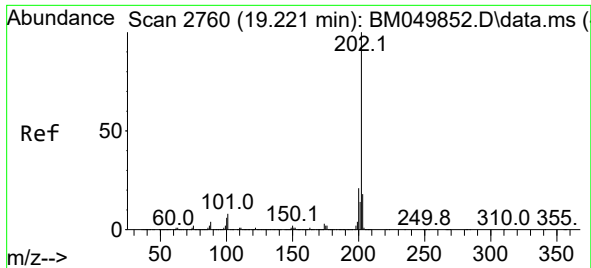
Reviewed By :Rahul Chavli 04/24/2025
Supervised By :Jagrut Upadhyay 04/24/2025



#71
Phenanthrene
Concen: 5.371 ng
RT: 17.198 min Scan# 2416
Delta R.T. -0.012 min
Lab File: BM050016.D
Acq: 23 Apr 2025 16:35

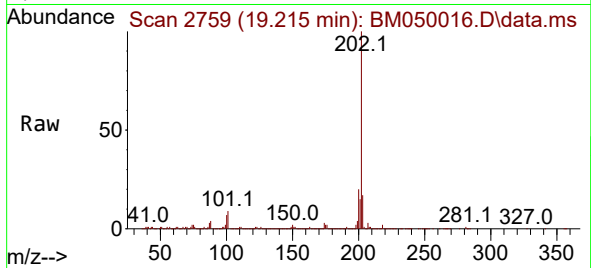
Tgt Ion:178 Resp: 384593
Ion Ratio Lower Upper
178 100
176 19.5 15.4 23.2
179 15.5 12.3 18.5





#75
Fluoranthene
Concen: 7.915 ng
RT: 19.215 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM050016.D
Acq: 23 Apr 2025 16:35

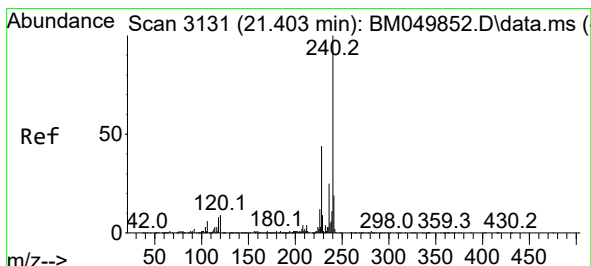
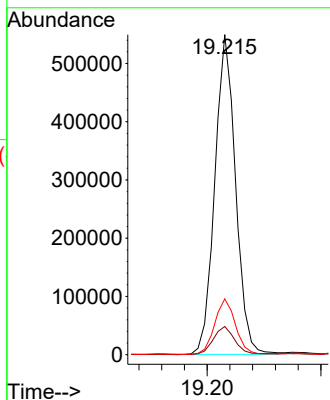
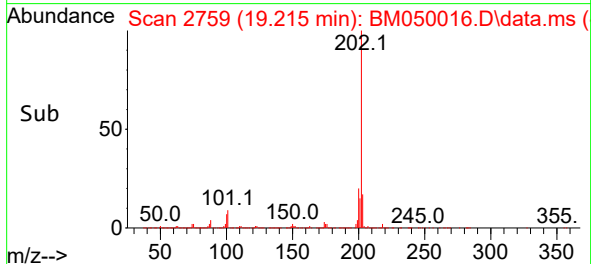
Instrument :
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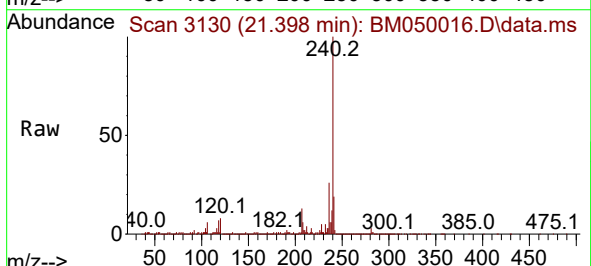
Tgt Ion:202 Resp: 69693
Ion Ratio Lower Upper
202 100
101 8.8 0.0 28.4
203 17.5 0.0 37.8

Manual Integrations
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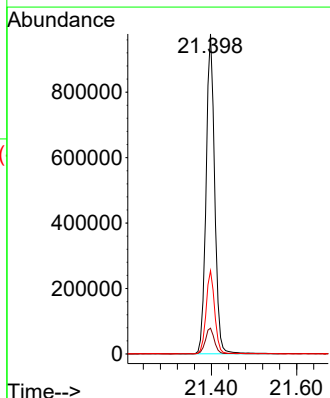
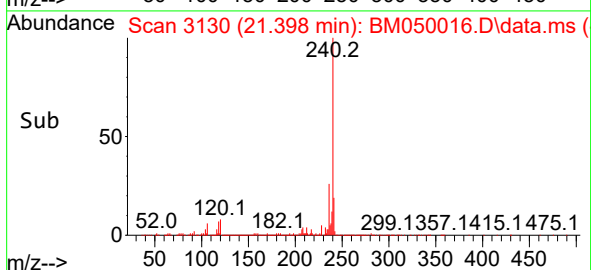
Reviewed By :Rahul Chavli 04/24/2025
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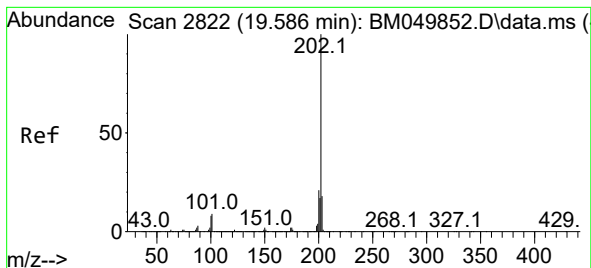


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.398 min Scan# 3130
Delta R.T. -0.006 min
Lab File: BM050016.D
Acq: 23 Apr 2025 16:35



Tgt Ion:240 Resp: 1368420
Ion Ratio Lower Upper
240 100
120 8.0 6.9 10.3
236 26.0 20.4 30.6





#78

Pyrene

Concen: 6.754 ng

RT: 19.580 min Scan# 2822

Delta R.T. -0.006 min

Lab File: BM050016.D

Acq: 23 Apr 2025 16:35

Instrument :

BNA_M

ClientSampleId :

COMP-2

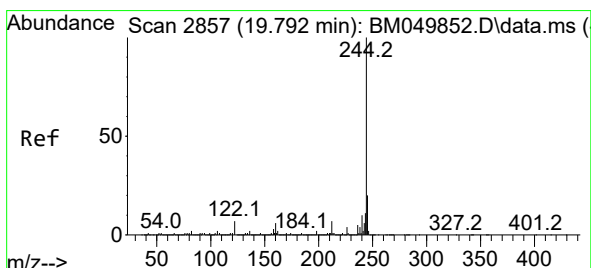
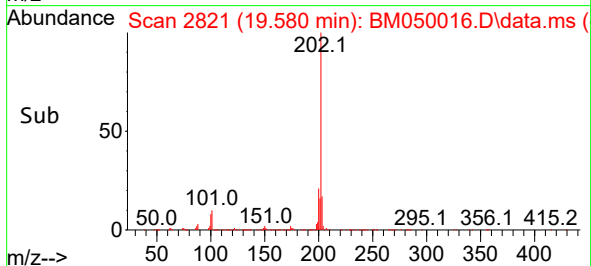
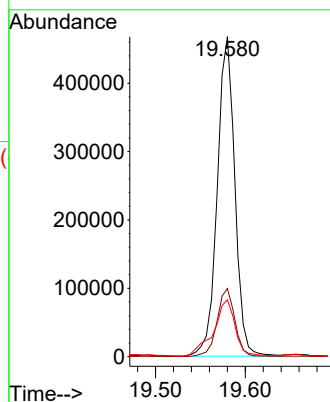
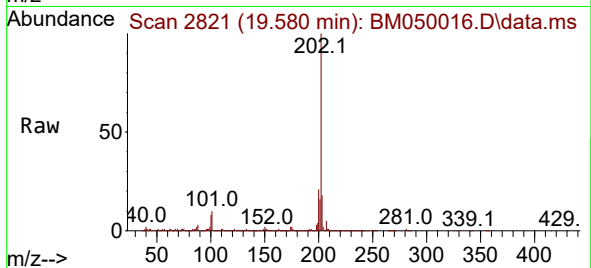
Tgt Ion:202 Resp: 636925
 Ion Ratio Lower Upper
 202 100
 200 21.3 16.5 24.7
 203 17.7 14.0 21.0

Manual Integrations

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Reviewed By :Rahul Chavli 04/24/2025

Supervised By :Jagrut Upadhyay 04/24/2025



#79

Terphenyl-d14

Concen: 58.351 ng

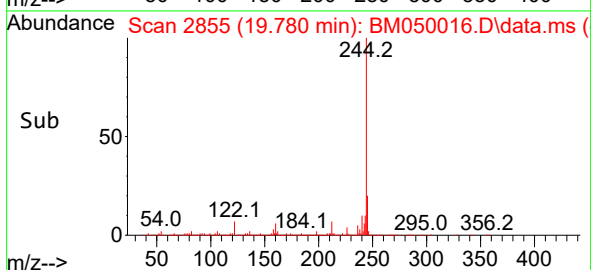
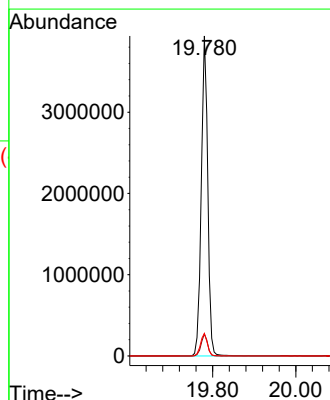
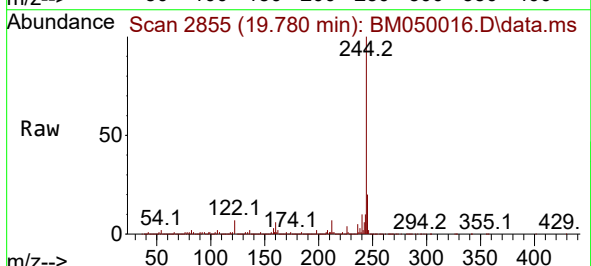
RT: 19.780 min Scan# 2855

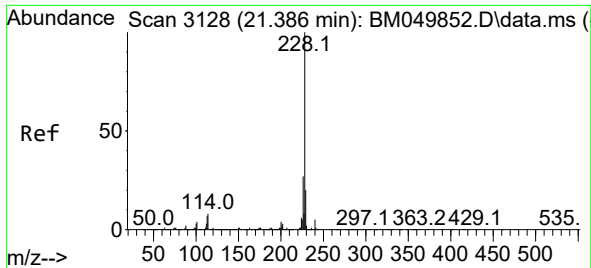
Delta R.T. -0.012 min

Lab File: BM050016.D

Acq: 23 Apr 2025 16:35

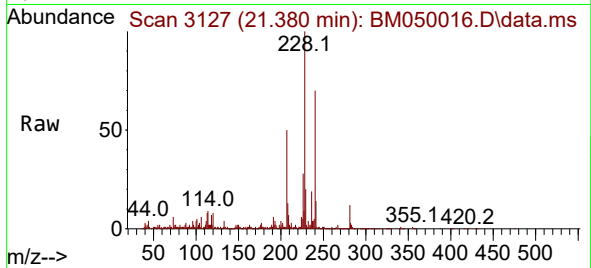
Tgt Ion:244 Resp: 4260725
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.5 8.3
 122 7.0 5.4 8.0





#81
Benzo(a)anthracene
Concen: 3.966 ng
RT: 21.380 min Scan# 3128
Delta R.T. -0.006 min
Lab File: BM050016.D
Acq: 23 Apr 2025 16:35

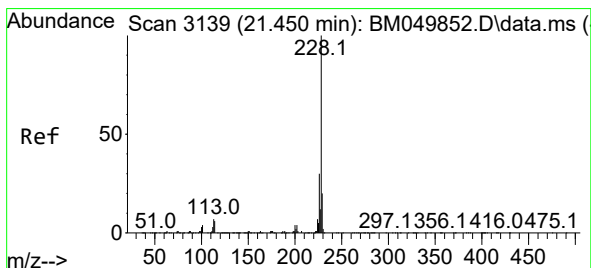
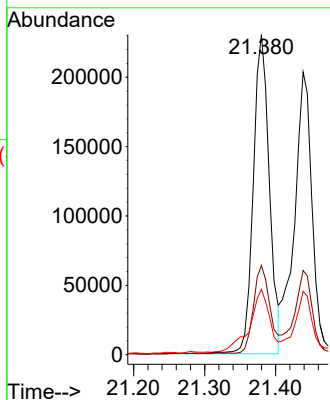
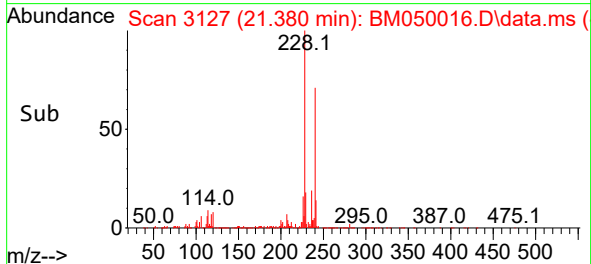
Instrument :
BNA_M
ClientSampleId :
COMP-2



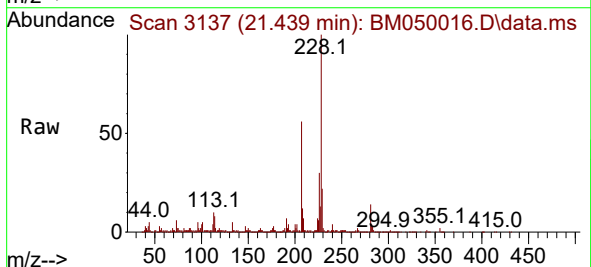
Tgt Ion:228 Resp: 36072
Ion Ratio Lower Upper
228 100
226 27.9 21.8 32.8
229 20.4 15.8 23.8

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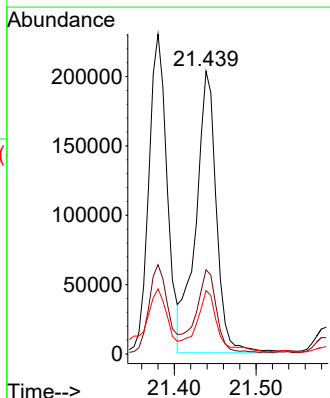
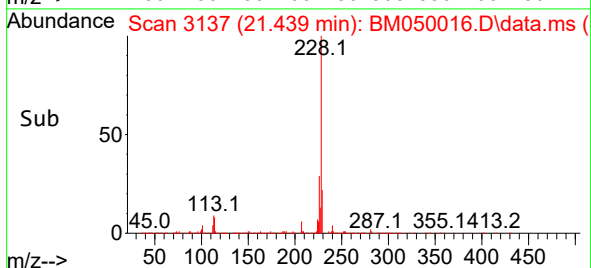
Reviewed By :Rahul Chavli 04/24/2025
Supervised By :Jagrut Upadhyay 04/24/2025

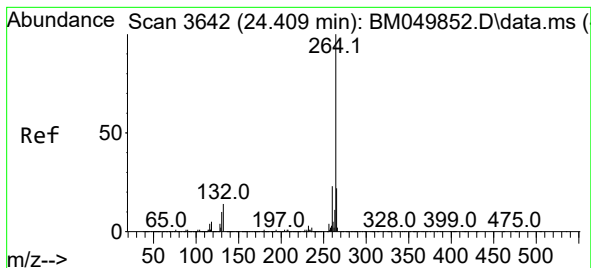


#83
Chrysene
Concen: 4.126 ng m
RT: 21.439 min Scan# 3137
Delta R.T. -0.012 min
Lab File: BM050016.D
Acq: 23 Apr 2025 16:35



Tgt Ion:228 Resp: 356750
Ion Ratio Lower Upper
228 100
226 29.7 24.1 36.1
229 22.4 15.8 23.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.397 min Scan# 3

Delta R.T. -0.012 min

Lab File: BM050016.D

Acq: 23 Apr 2025 16:35

Instrument :

BNA_M

ClientSampleId :

COMP-2

Tgt Ion:264 Resp: 142197

Ion Ratio Lower Upper

264 100

260 24.0 18.6 28.0

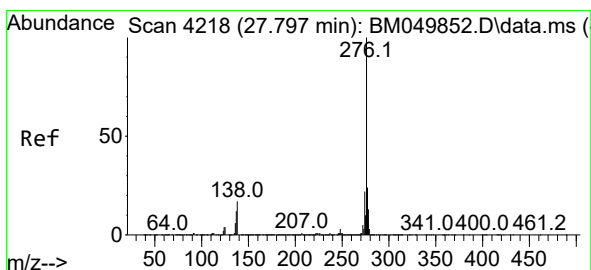
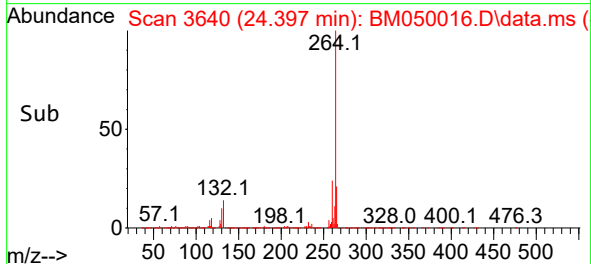
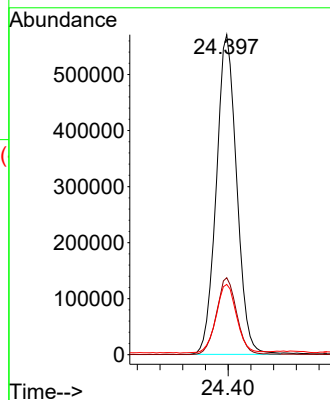
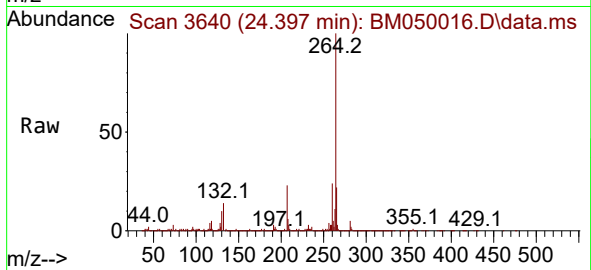
265 21.9 17.8 26.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/24/2025

Supervised By :Jagrut Upadhyay 04/24/2025



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.103 ng

RT: 27.785 min Scan# 4216

Delta R.T. -0.012 min

Lab File: BM050016.D

Acq: 23 Apr 2025 16:35

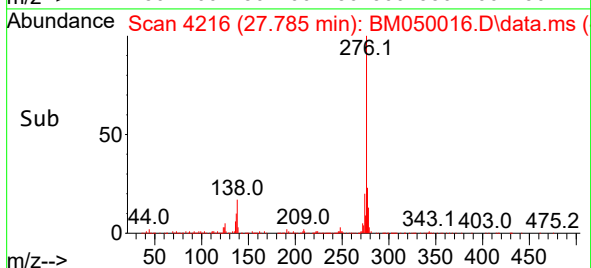
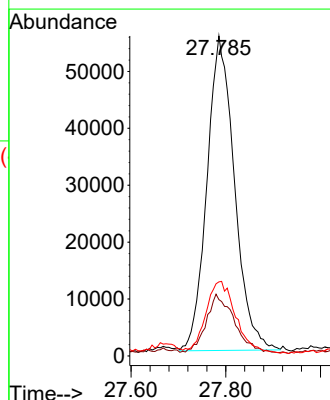
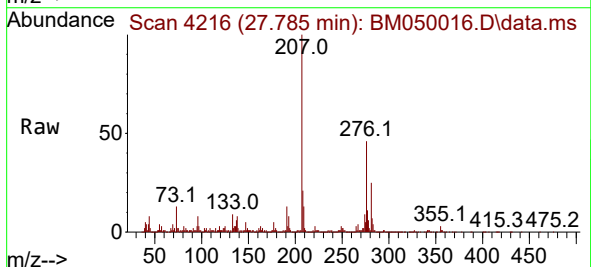
Tgt Ion:276 Resp: 222933

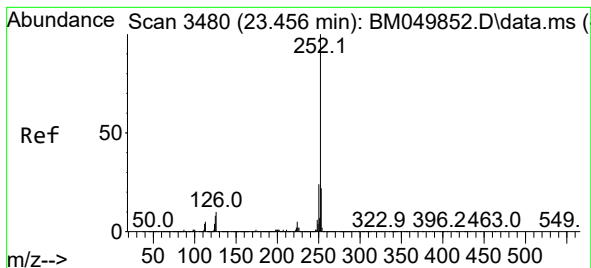
Ion Ratio Lower Upper

276 100

138 19.0 16.8 25.2

277 24.9 20.1 30.1





#88

Benzo(b)fluoranthene

Concen: 4.982 ng

RT: 23.450 min Scan# 34

Delta R.T. -0.006 min

Lab File: BM050016.D

Acq: 23 Apr 2025 16:35

Instrument :

BNA_M

ClientSampleId :

COMP-2

Tgt Ion:252 Resp: 45246

Ion Ratio Lower Upper

252 100

253 23.2 17.5 26.3

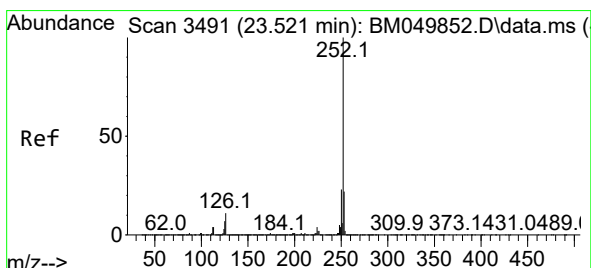
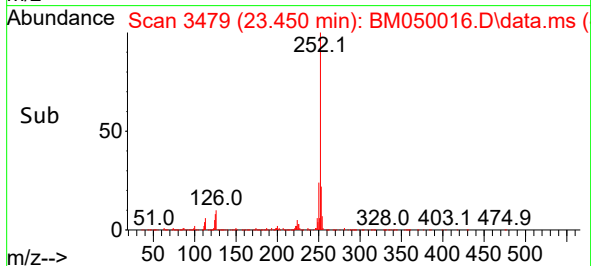
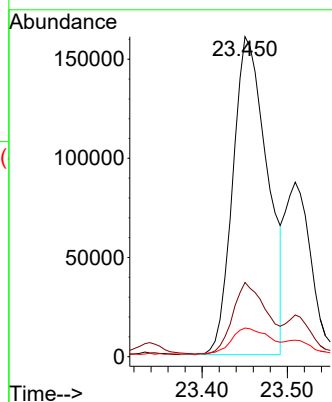
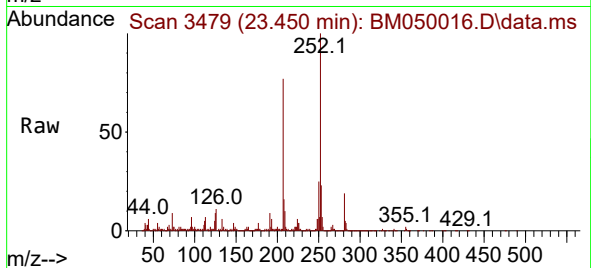
125 8.9 6.2 9.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/24/2025

Supervised By :Jagrut Upadhyay 04/24/2025



#89

Benzo(k)fluoranthene

Concen: 2.174 ng m

RT: 23.509 min Scan# 3489

Delta R.T. -0.012 min

Lab File: BM050016.D

Acq: 23 Apr 2025 16:35

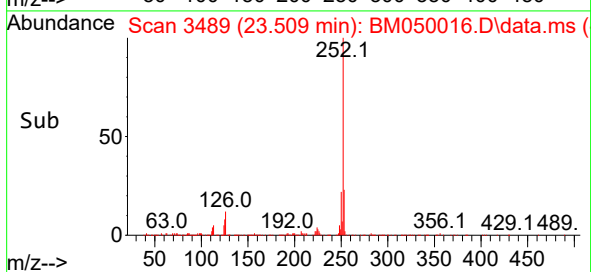
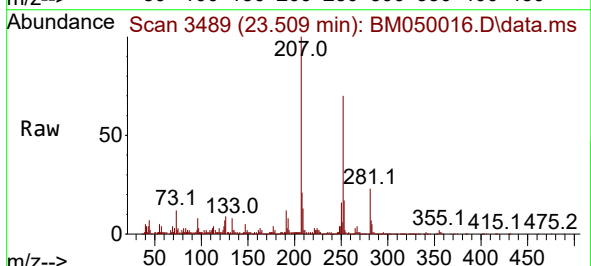
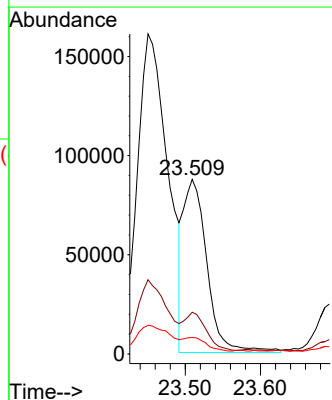
Tgt Ion:252 Resp: 191346

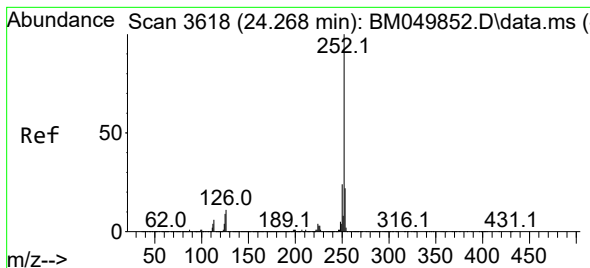
Ion Ratio Lower Upper

252 100

253 23.9 17.4 26.2

125 9.5 5.8 8.8#





#90

Benzo(a)pyrene

Concen: 3.743 ng

RT: 24.256 min Scan# 30

Delta R.T. -0.012 min

Lab File: BM050016.D

Acq: 23 Apr 2025 16:35

Instrument :

BNA_M

ClientSampleId :

COMP-2

Tgt Ion:252 Resp: 29872

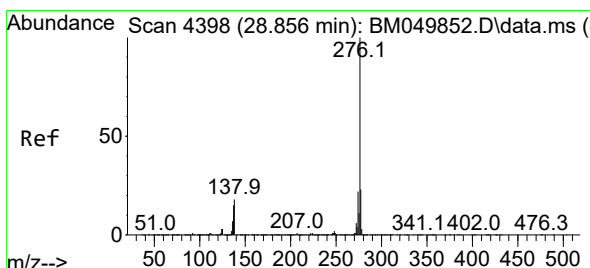
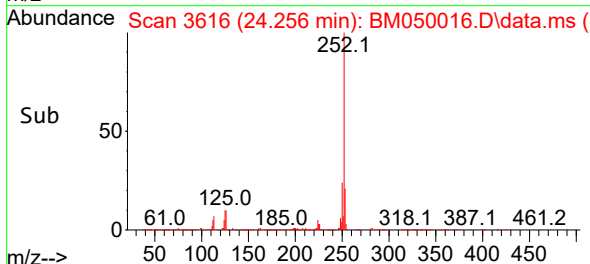
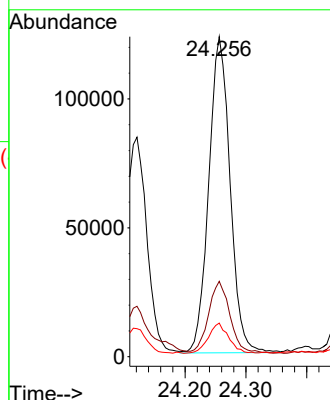
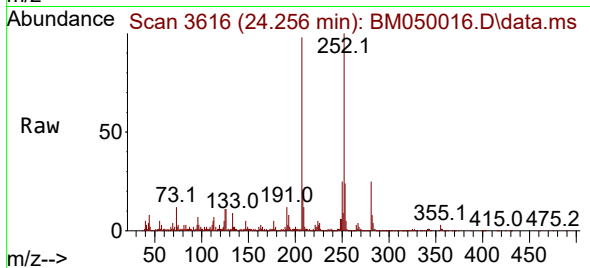
Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.8	26.8
125	10.5	7.0	10.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/24/2025

Supervised By :Jagrut Upadhyay 04/24/2025



#92

Benzo(g,h,i)perylene

Concen: 2.597 ng

RT: 28.844 min Scan# 4396

Delta R.T. -0.012 min

Lab File: BM050016.D

Acq: 23 Apr 2025 16:35

Tgt Ion:276 Resp: 231659

Ion	Ratio	Lower	Upper
276	100		
277	23.4	18.7	28.1
138	18.7	14.6	21.8

