

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112425\
 Data File : BF144342.D
 Acq On : 25 Nov 2025 00:12
 Operator : RC/JU
 Sample : Q3710-05 2X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WELD-SHOP-EXCAVATION

Quant Time: Nov 25 01:33:48 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

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 11/25/2025
 Supervised By :mohammad ahmed 11/26/2025

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.863	152	49093	20.000	ng	-0.01
21) Naphthalene-d8	8.145	136	174927	20.000	ng	-0.01
39) Acenaphthene-d10	9.898	164	90247	20.000	ng	-0.02
64) Phenanthrene-d10	11.392	188	179350	20.000	ng	-0.01
76) Chrysene-d12	14.051	240	143104	20.000	ng	0.00
86) Perylene-d12	15.533	264	119117	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.481	112	124752	39.766	ng	-0.01
7) Phenol-d6	6.492	99	137033	38.550	ng	0.00
23) Nitrobenzene-d5	7.422	82	76727	25.333	ng	-0.01
42) 2,4,6-Tribromophenol	10.692	330	41838	36.943	ng	-0.01
45) 2-Fluorobiphenyl	9.216	172	163311	26.727	ng	-0.01
79) Terphenyl-d14	12.980	244	214068	23.761	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.163	128	82202	9.879	ng	99
37) 2-Methylnaphthalene	8.857	142	48289	8.680	ng	98
38) 1-Methylnaphthalene	8.957	142	45467	8.470	ng	99
49) Acenaphthylene	9.763	152	80240	10.958	ng	98
52) Acenaphthene	9.933	154	37911	7.742	ng	94
55) Dibenzofuran	10.104	168	27366	3.990	ng	# 91
58) Fluorene	10.451	166	68883	13.210	ng	97
71) Phenanthrene	11.422	178	620849	69.527	ng	99
72) Anthracene	11.469	178	162141	17.857	ng	99
73) Carbazole	11.627	167	65629	8.500	ng	99
75) Fluoranthene	12.616	202	971079	105.274	ng	98
78) Pyrene	12.851	202	1056071	91.527	ng	98
81) Benzo(a)anthracene	14.039	228	594076	59.898	ng	94
83) Chrysene	14.074	228	516109m	56.370	ng	
87) Indeno(1,2,3-cd)pyrene	17.033	276	176785	20.675	ng	99
88) Benzo(b)fluoranthene	15.104	252	450224m	66.483	ng	
89) Benzo(k)fluoranthene	15.115	252	155088m	24.467	ng	
90) Benzo(a)pyrene	15.468	252	314215	50.295	ng	# 94
91) Dibenzo(a,h)anthracene	17.033	278	46683	6.798	ng	# 87
92) Benzo(g,h,i)perylene	17.492	276	181015	26.693	ng	97

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

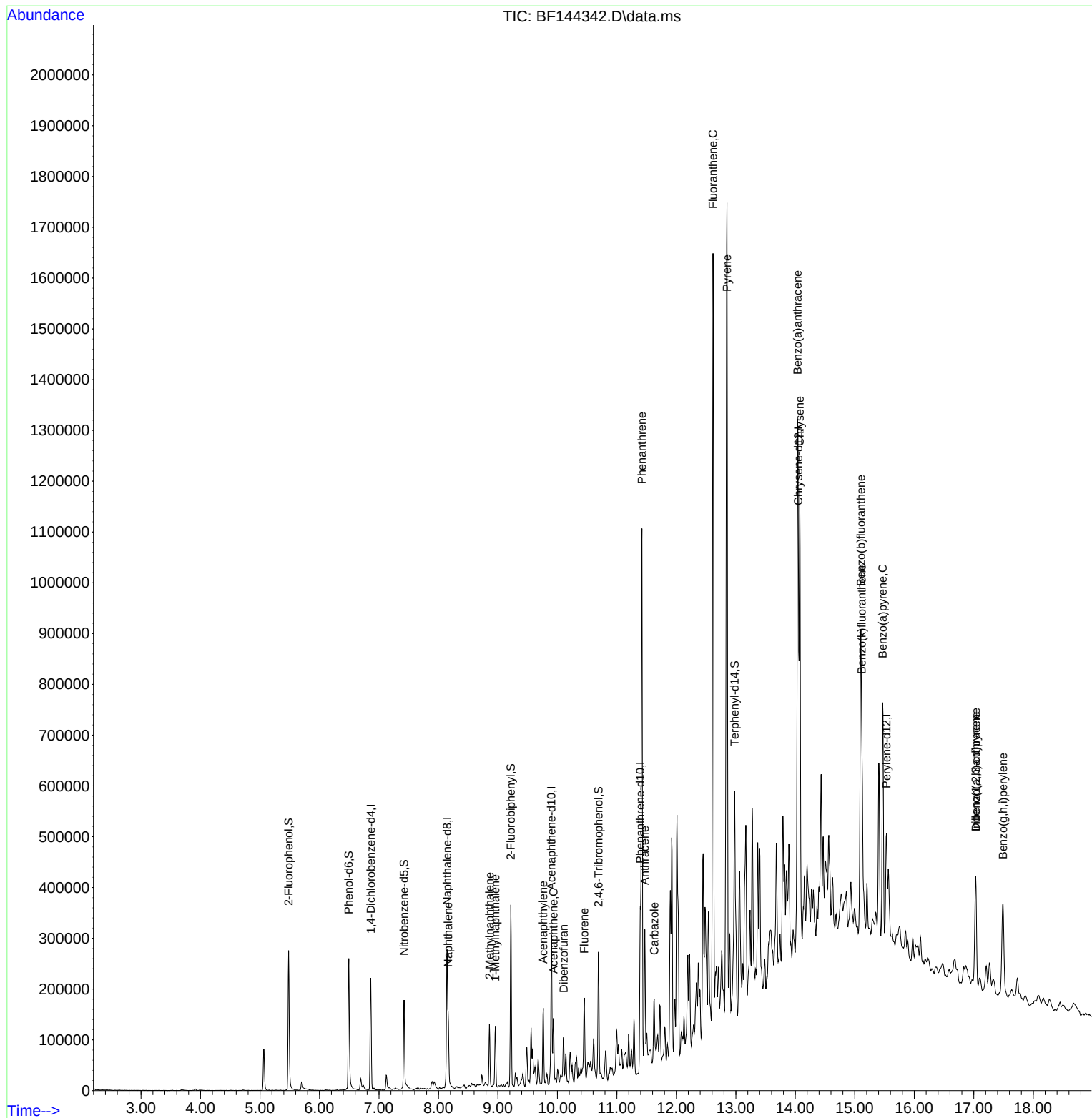
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112425\
Data File : BF144342.D
Acq On : 25 Nov 2025 00:12
Operator : RC/JU
Sample : Q3710-05 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

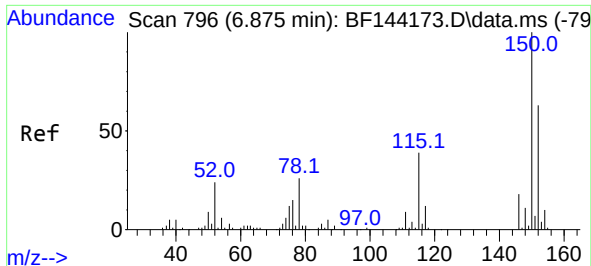
Instrument :
BNA_F
ClientSampleId :
WELD-SHOP-EXCAVATION

Quant Time: Nov 25 01:33:48 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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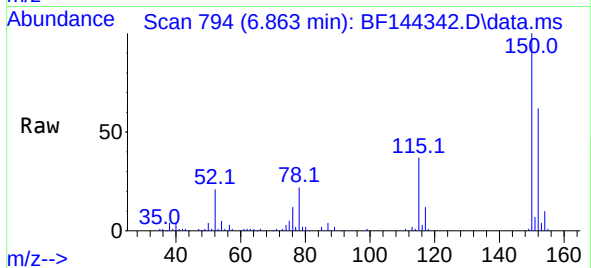
Reviewed By :Jagrut Upadhyay 11/25/2025
Supervised By :mohammad ahmed 11/26/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.863 min Scan# 796
Delta R.T. -0.012 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

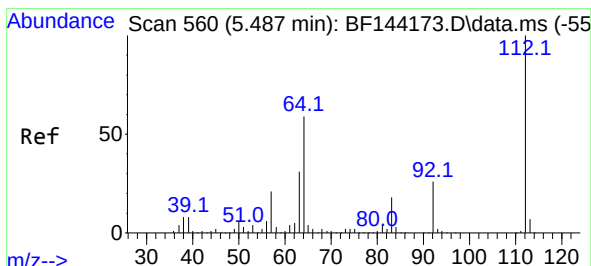
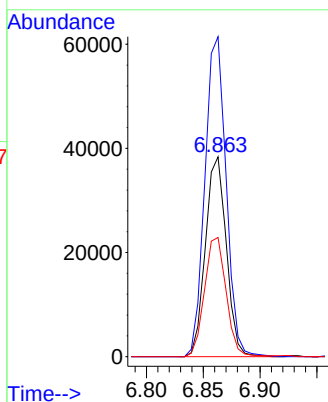
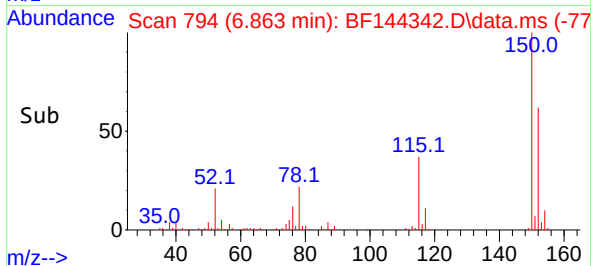
Instrument :
BNA_F
ClientSampleId :
WELD-SHOP-EXCAVATION



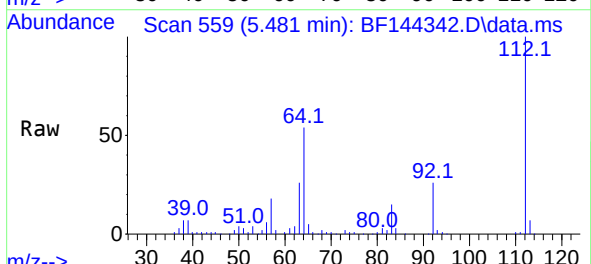
Tgt Ion:152 Resp: 4909
Ion Ratio Lower Upper
152 100
150 160.1 127.4 191.0
115 59.6 49.5 74.3

Manual Integrations
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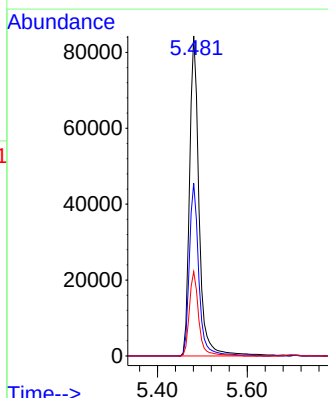
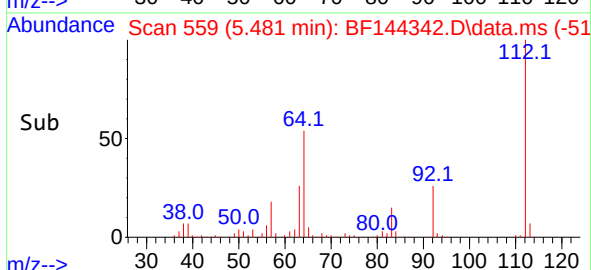
Reviewed By :Jagrut Upadhyay 11/25/2025
Supervised By :mohammad ahmed 11/26/2025



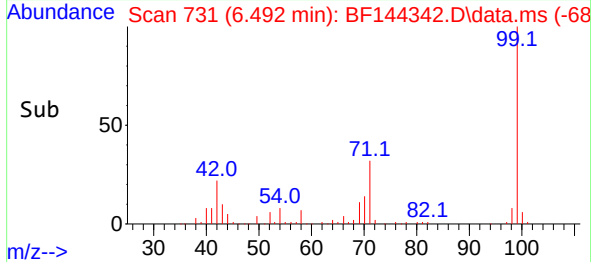
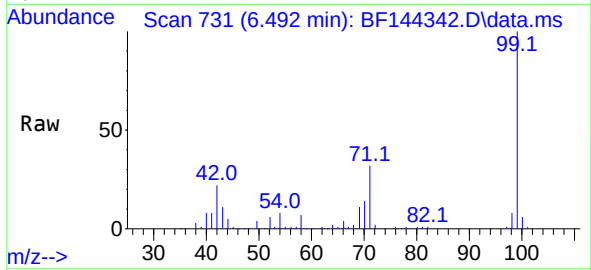
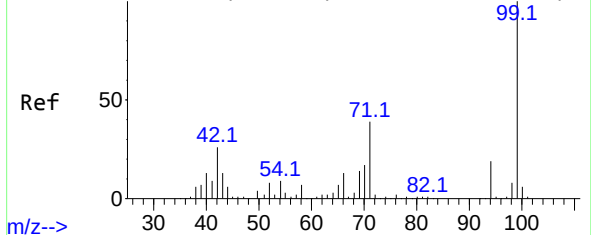
#5
2-Fluorophenol
Concen: 39.766 ng
RT: 5.481 min Scan# 559
Delta R.T. -0.012 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12



Tgt Ion:112 Resp: 124752
Ion Ratio Lower Upper
112 100
64 53.9 47.2 70.8
63 26.4 24.4 36.6



Abundance Scan 733 (6.504 min): BF144173.D\data.ms (-72



#7

Phenol-d6

Concen: 38.550 ng

RT: 6.492 min Scan# 71

Delta R.T. -0.006 min

Lab File: BF144342.D

Acq: 25 Nov 2025 00:12

Instrument :

BNA_F

ClientSampleId :

WELD-SHOP-EXCAVATION

Tgt Ion: 99 Resp: 13703

Ion Ratio Lower Upper

99 100

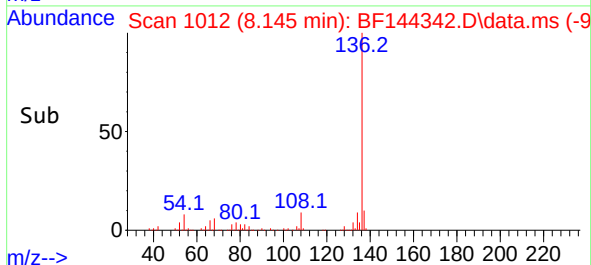
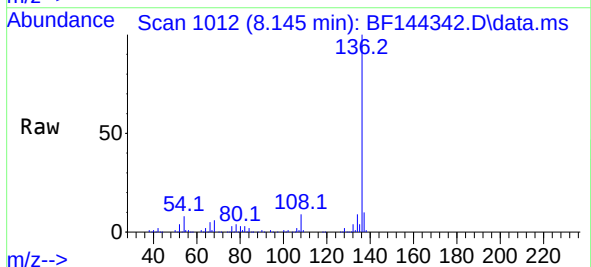
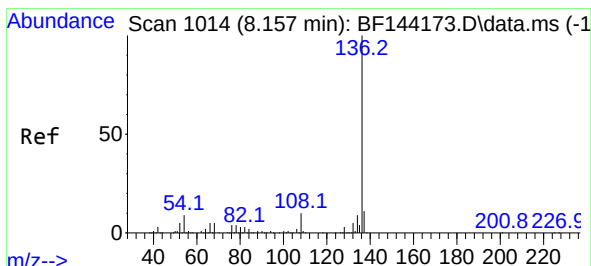
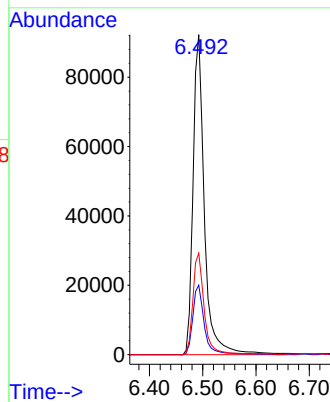
42 21.7 20.9 31.3

71 31.8 31.4 47.2

Manual Integrations

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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.145 min Scan# 1012

Delta R.T. -0.012 min

Lab File: BF144342.D

Acq: 25 Nov 2025 00:12

Tgt Ion:136 Resp: 174927

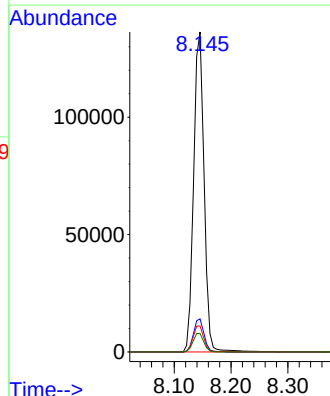
Ion Ratio Lower Upper

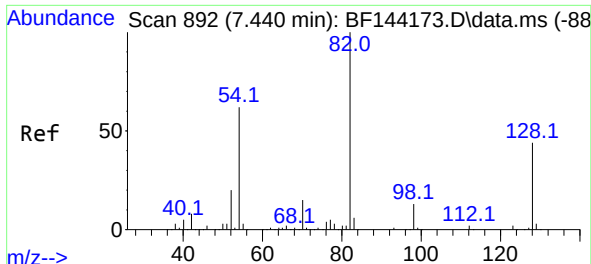
136 100

137 10.4 8.6 13.0

54 8.1 7.0 10.6

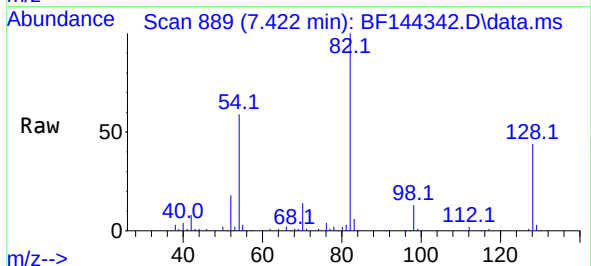
68 5.8 4.3 6.5





#23
Nitrobenzene-d5
Concen: 25.333 ng
RT: 7.422 min Scan# 81
Delta R.T. -0.012 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

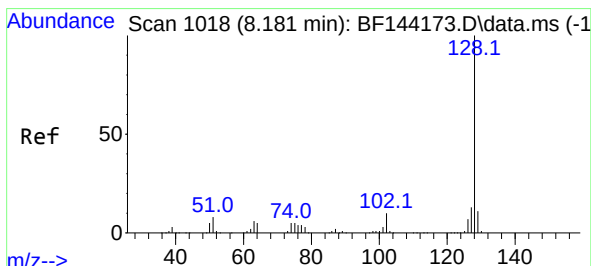
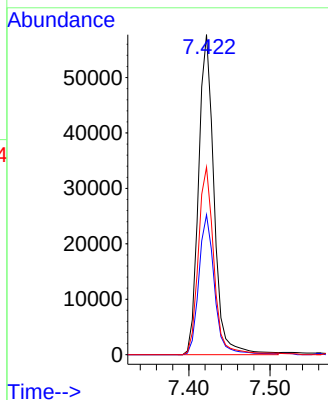
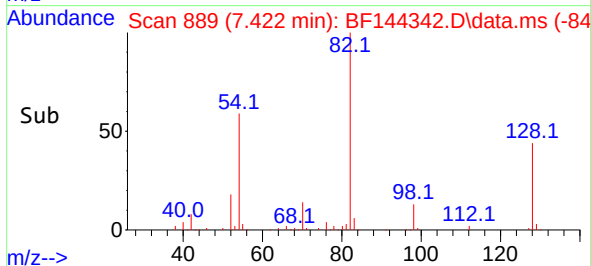
Instrument :
BNA_F
ClientSampleId :
WELD-SHOP-EXCAVATION



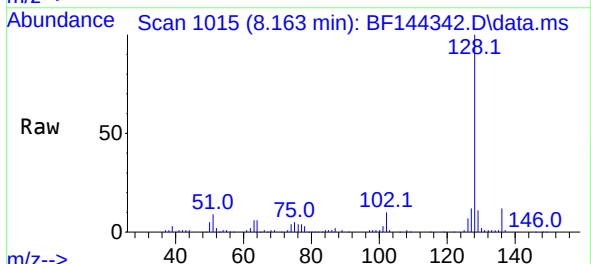
Tgt Ion: 82 Resp: 7672
Ion Ratio Lower Upper
82 100
128 43.7 34.7 52.1
54 58.6 49.5 74.3

Manual Integrations
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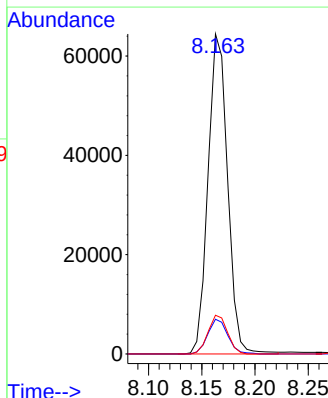
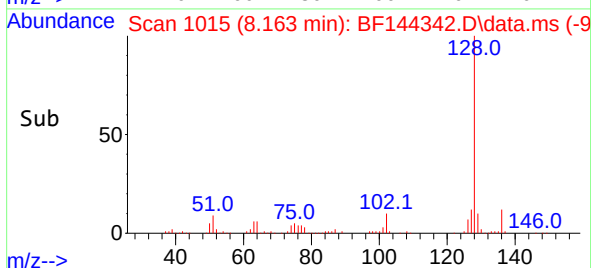
Reviewed By :Jagrut Upadhyay 11/25/2025
Supervised By :mohammad ahmed 11/26/2025

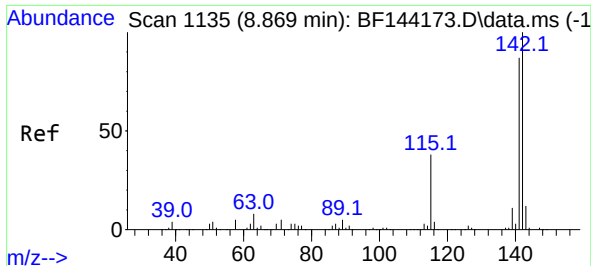


#31
Naphthalene
Concen: 9.879 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12



Tgt Ion:128 Resp: 82202
Ion Ratio Lower Upper
128 100
129 10.8 8.9 13.3
127 12.1 10.3 15.5





#37

2-Methylnaphthalene

Concen: 8.680 ng

RT: 8.857 min Scan# 1135

Delta R.T. -0.012 min

Lab File: BF144342.D

Acq: 25 Nov 2025 00:12

Instrument :

BNA_F

ClientSampleId :

WELD-SHOP-EXCAVATION

Tgt Ion:142 Resp: 48289

Ion Ratio Lower Upper

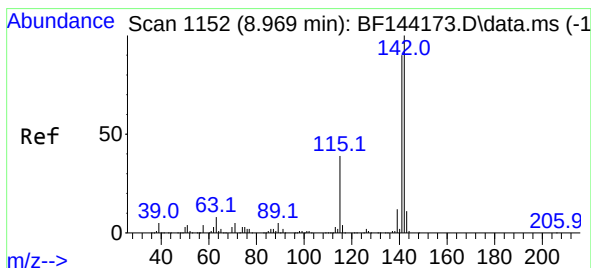
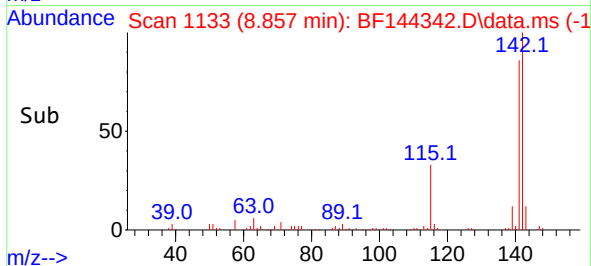
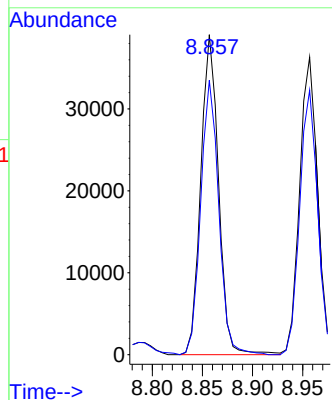
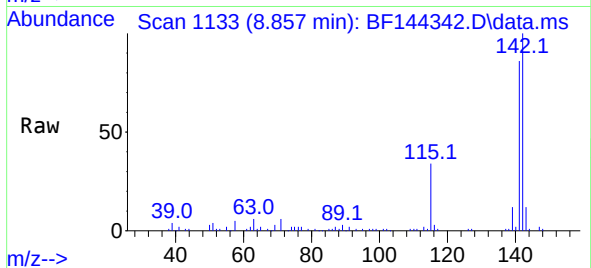
142 100

141 85.7 69.9 104.9

Manual Integrations

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Supervised By :mohammad ahmed 11/26/2025



#38

1-Methylnaphthalene

Concen: 8.470 ng

RT: 8.957 min Scan# 1150

Delta R.T. -0.012 min

Lab File: BF144342.D

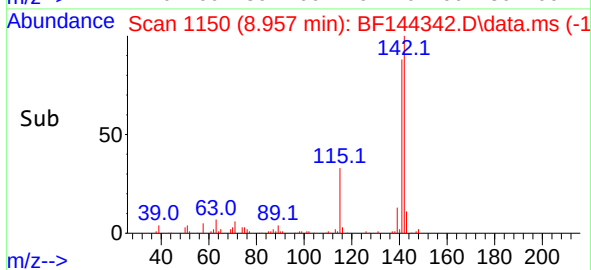
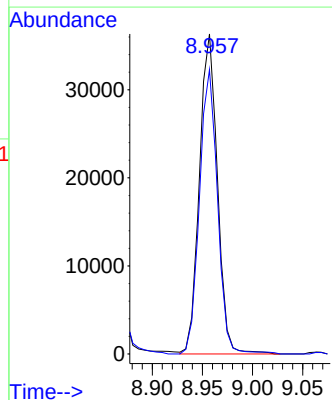
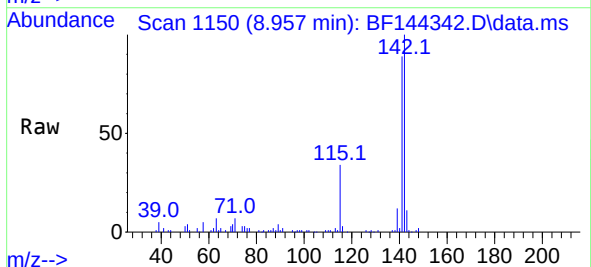
Acq: 25 Nov 2025 00:12

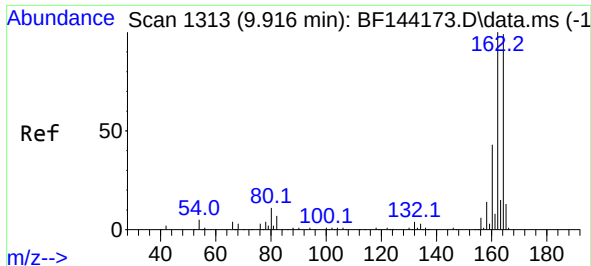
Tgt Ion:142 Resp: 45467

Ion Ratio Lower Upper

142 100

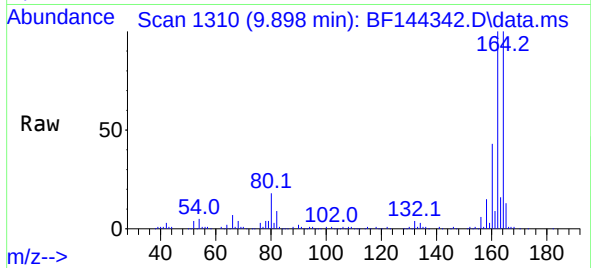
141 88.9 72.1 108.1





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.898 min Scan# 11
Delta R.T. -0.018 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

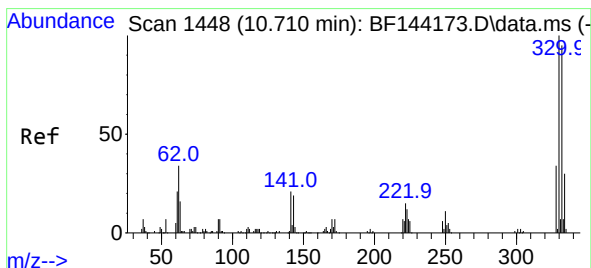
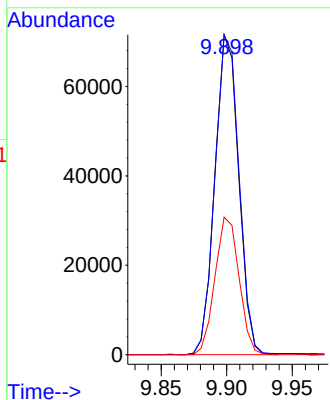
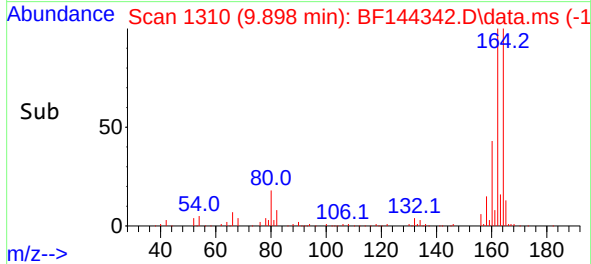
Instrument :
BNA_F
ClientSampleId :
WELD-SHOP-EXCAVATION



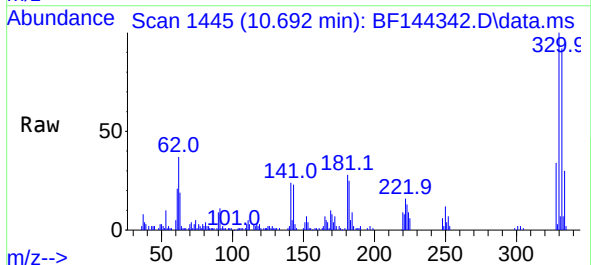
Tgt Ion:164 Resp: 9024
Ion Ratio Lower Upper
164 100
162 99.9 81.1 121.7
160 43.0 34.5 51.7

Manual Integrations
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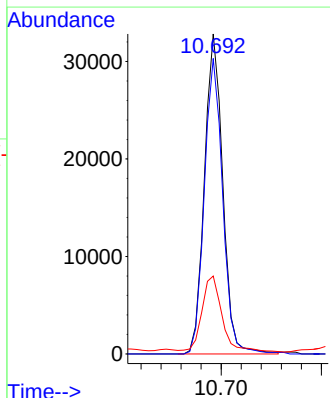
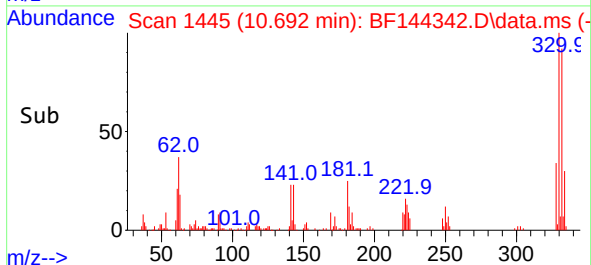
Reviewed By :Jagrut Upadhyay 11/25/2025
Supervised By :mohammad ahmed 11/26/2025

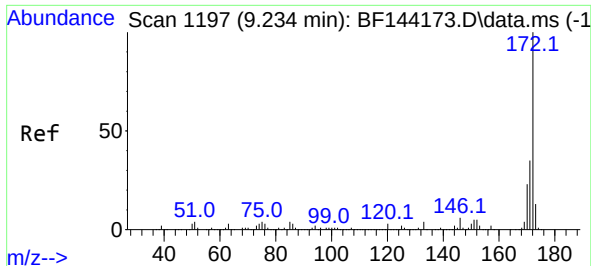


#42
2,4,6-Tribromophenol
Concen: 36.943 ng
RT: 10.692 min Scan# 1445
Delta R.T. -0.012 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12



Tgt Ion:330 Resp: 41838
Ion Ratio Lower Upper
330 100
332 92.7 76.7 115.1
141 26.2 17.8 26.8





#45

2-Fluorobiphenyl

Concen: 26.727 ng

RT: 9.216 min Scan# 1194

Delta R.T. -0.012 min

Lab File: BF144342.D

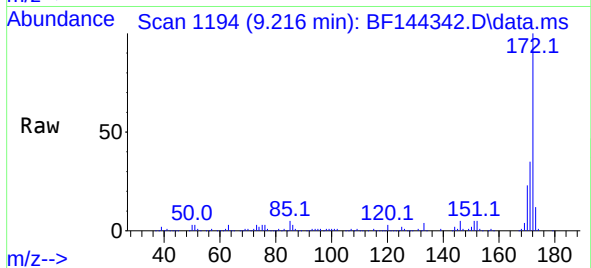
Acq: 25 Nov 2025 00:12

Instrument :

BNA_F

ClientSampleId :

WELD-SHOP-EXCAVATION



Tgt Ion:172 Resp: 16331

Ion Ratio Lower Upper

172 100

171 34.8 28.1 42.1

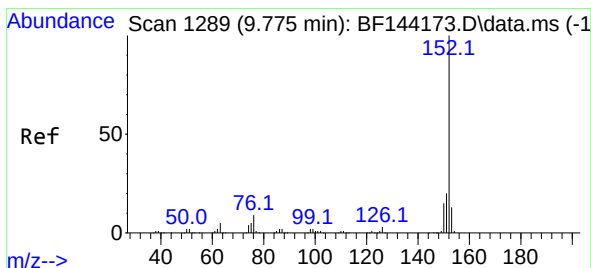
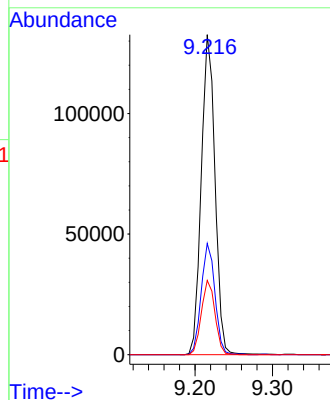
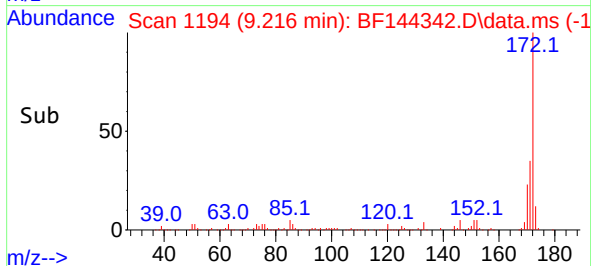
170 23.2 18.6 28.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 11/25/2025

Supervised By :mohammad ahmed 11/26/2025



#49

Acenaphthylene

Concen: 10.958 ng

RT: 9.763 min Scan# 1287

Delta R.T. -0.012 min

Lab File: BF144342.D

Acq: 25 Nov 2025 00:12

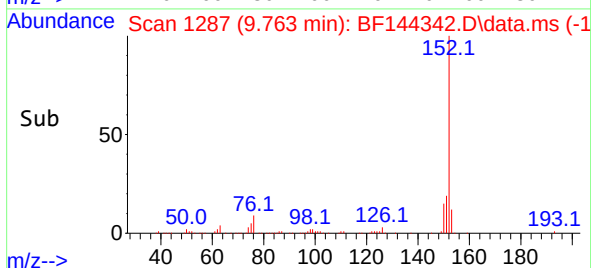
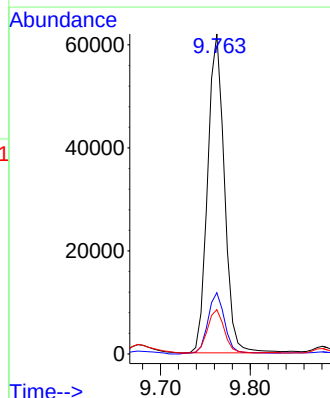
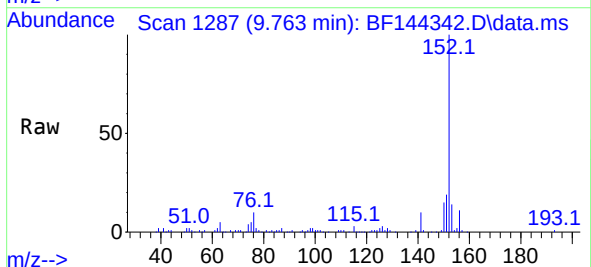
Tgt Ion:152 Resp: 80240

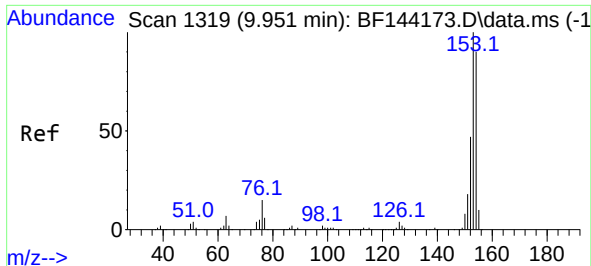
Ion Ratio Lower Upper

152 100

151 19.1 15.9 23.9

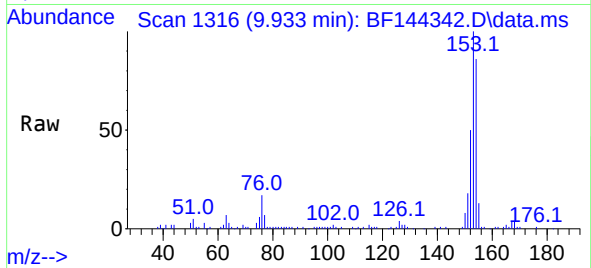
153 13.8 10.5 15.7





#52
Acenaphthene
Concen: 7.742 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

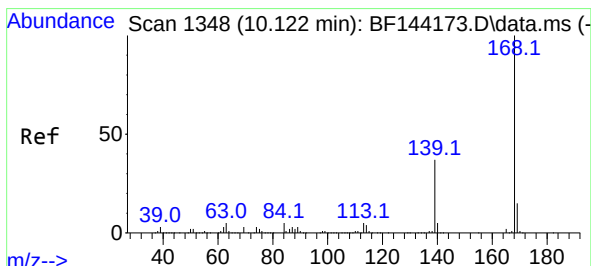
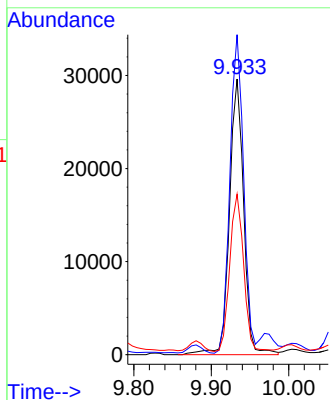
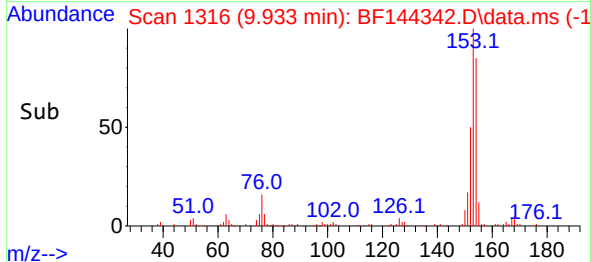
Instrument :
BNA_F
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WELD-SHOP-EXCAVATION



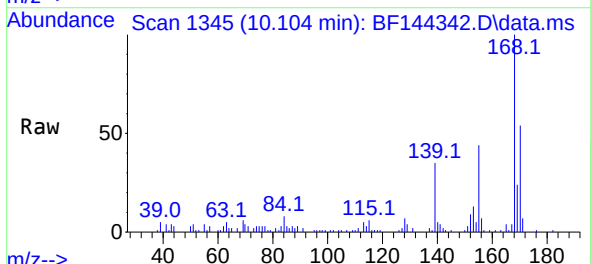
Tgt Ion:154 Resp: 3791
Ion Ratio Lower Upper
154 100
153 116.1 89.0 133.4
152 58.2 42.2 63.4

Manual Integrations
APPROVED

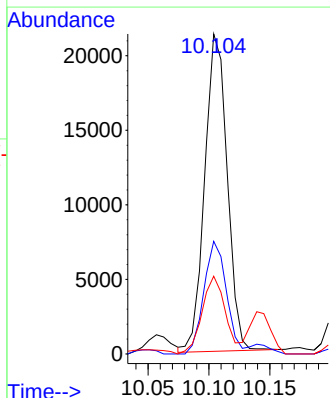
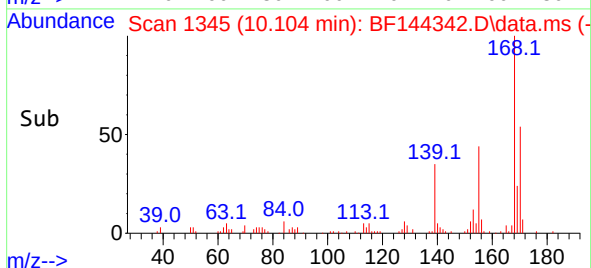
Reviewed By :Jagrut Upadhyay 11/25/2025
Supervised By :mohammad ahmed 11/26/2025

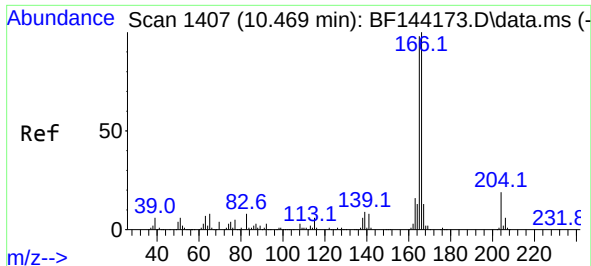


#55
Dibenzofuran
Concen: 3.990 ng
RT: 10.104 min Scan# 1345
Delta R.T. -0.012 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12



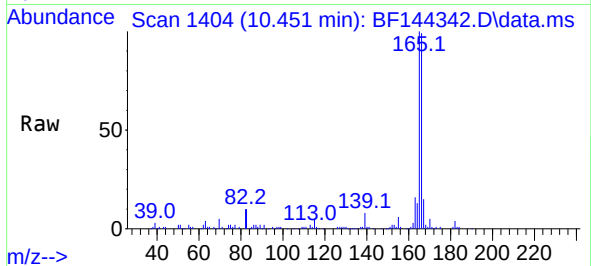
Tgt Ion:168 Resp: 27366
Ion Ratio Lower Upper
168 100
139 35.2 30.2 45.2
169 24.3 12.2 18.4





#58
Fluorene
Concen: 13.210 ng
RT: 10.451 min Scan# 1404
Delta R.T. -0.012 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

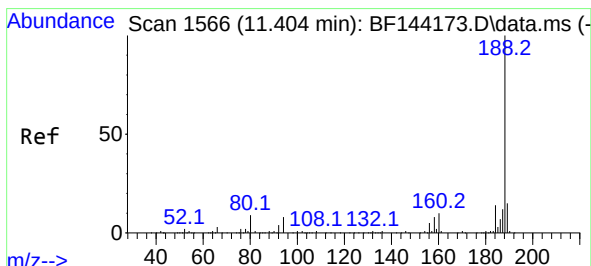
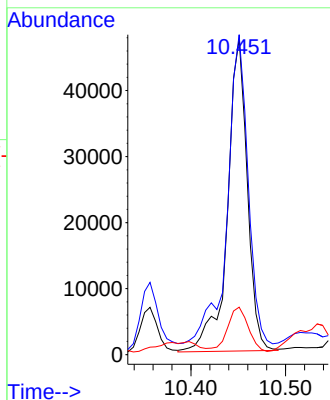
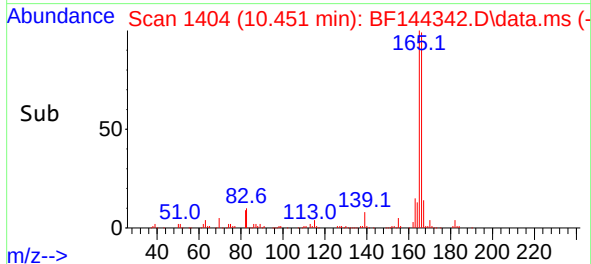
Instrument :
BNA_F
ClientSampleId :
WELD-SHOP-EXCAVATION



Tgt Ion:166 Resp: 6888
Ion Ratio Lower Upper
166 100
165 101.5 78.6 118.0
167 15.1 10.4 15.6

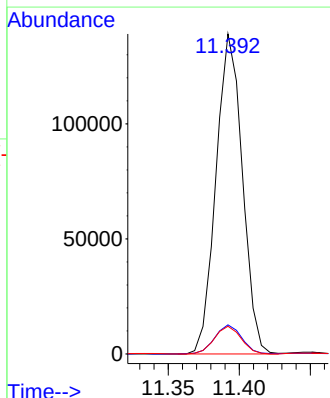
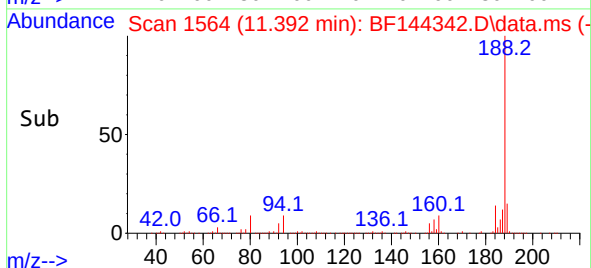
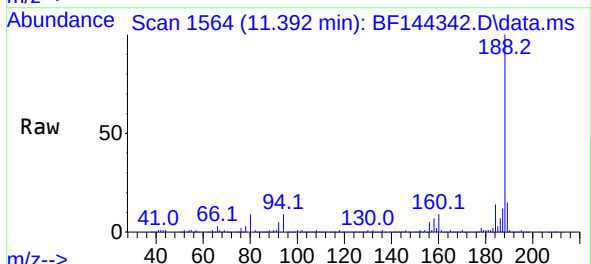
Manual Integrations
APPROVED

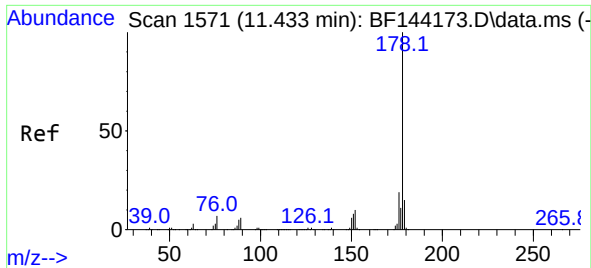
Reviewed By :Jagrut Upadhyay 11/25/2025
Supervised By :mohammad ahmed 11/26/2025



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 1564
Delta R.T. -0.012 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

Tgt Ion:188 Resp: 179350
Ion Ratio Lower Upper
188 100
94 9.1 6.2 9.2
80 8.7 6.9 10.3





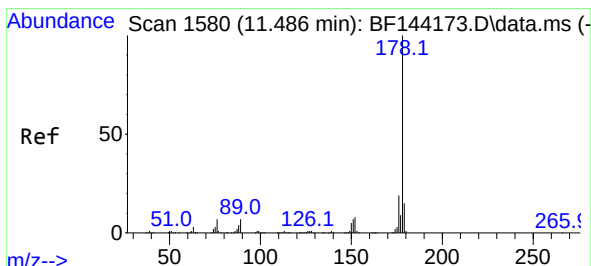
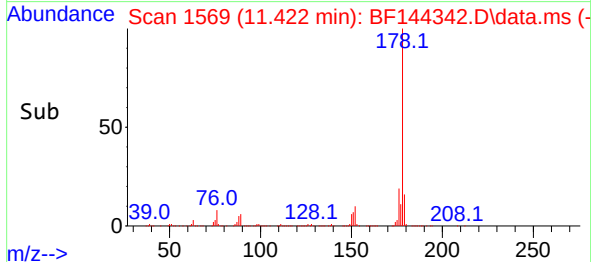
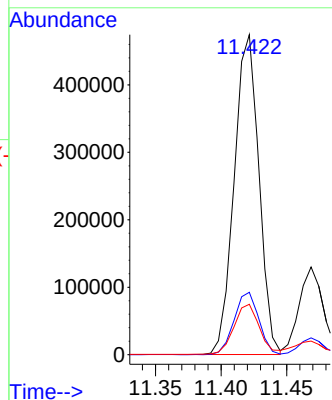
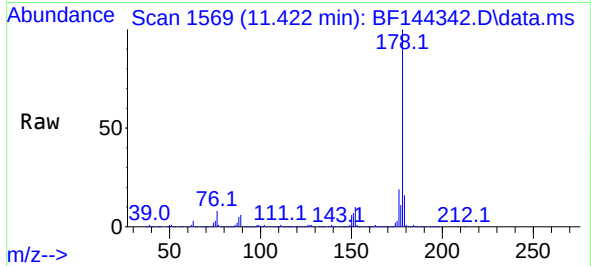
#71
Phenanthrene
Concen: 69.527 ng
RT: 11.422 min Scan# 1569
Delta R.T. -0.006 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

Instrument :
BNA_F
ClientSampleId :
WELD-SHOP-EXCAVATION

Tgt Ion:178 Resp: 620849
Ion Ratio Lower Upper
178 100
176 19.5 15.5 23.3
179 15.7 12.2 18.4

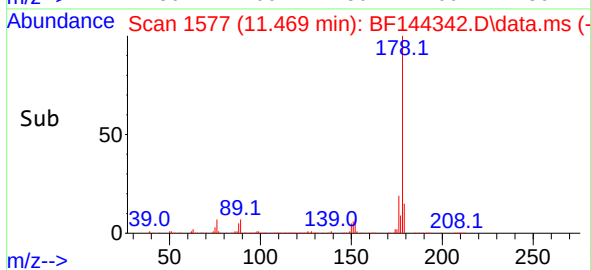
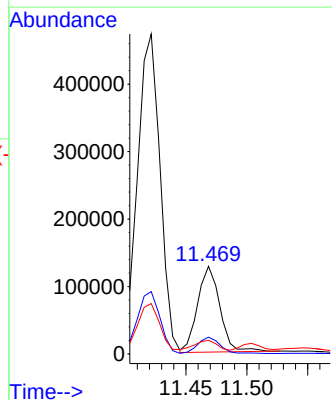
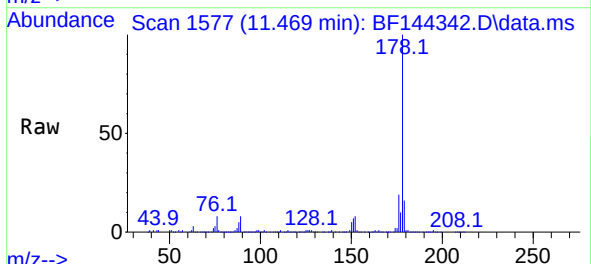
Manual Integrations
APPROVED

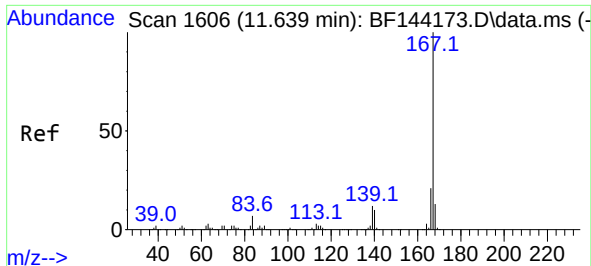
Reviewed By :Jagrut Upadhyay 11/25/2025
Supervised By :mohammad ahmed 11/26/2025



#72
Anthracene
Concen: 17.857 ng
RT: 11.469 min Scan# 1577
Delta R.T. -0.012 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

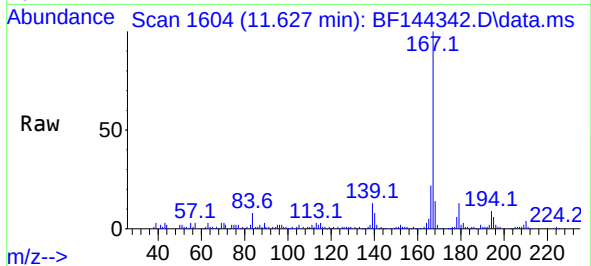
Tgt Ion:178 Resp: 162141
Ion Ratio Lower Upper
178 100
176 19.2 15.3 22.9
179 15.6 12.0 18.0





#73
 Carbazole
 Concen: 8.500 ng
 RT: 11.627 min Scan# 1604
 Delta R.T. -0.012 min
 Lab File: BF144342.D
 Acq: 25 Nov 2025 00:12

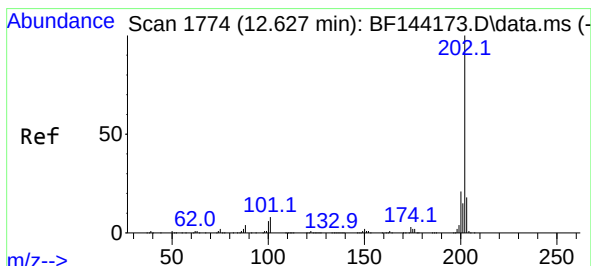
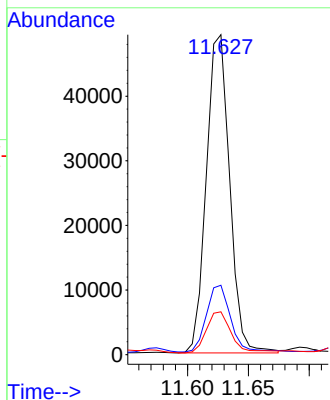
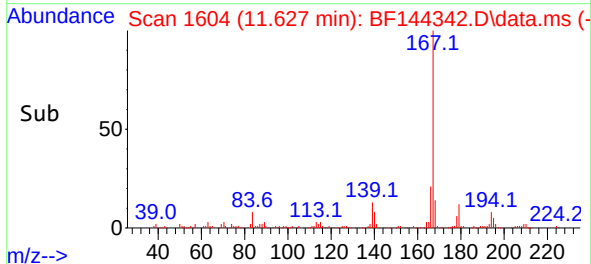
Instrument :
 BNA_F
 ClientSampleId :
 WELD-SHOP-EXCAVATION



Tgt Ion:167 Resp: 65629
 Ion Ratio Lower Upper
 167 100
 166 21.7 17.2 25.8
 139 13.4 9.9 14.9

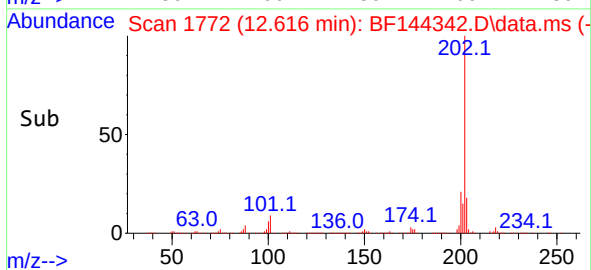
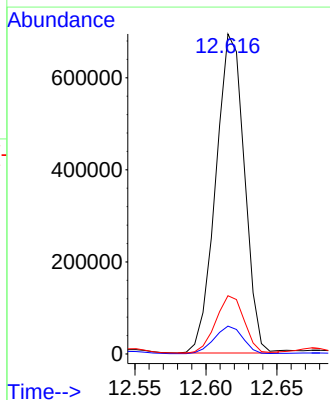
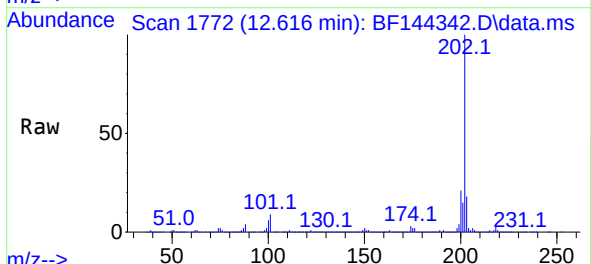
Manual Integrations
 APPROVED

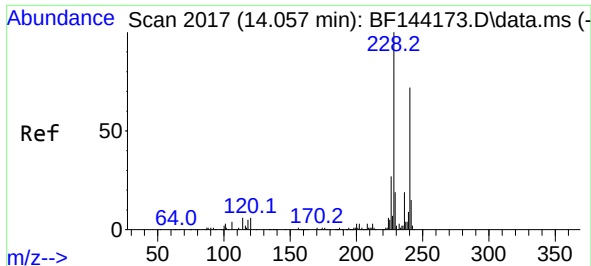
Reviewed By :Jagrut Upadhyay 11/25/2025
 Supervised By :mohammad ahmed 11/26/2025



#75
 Fluoranthene
 Concen: 105.274 ng
 RT: 12.616 min Scan# 1772
 Delta R.T. -0.006 min
 Lab File: BF144342.D
 Acq: 25 Nov 2025 00:12

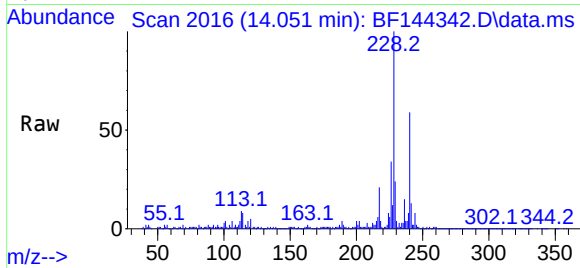
Tgt Ion:202 Resp: 971079
 Ion Ratio Lower Upper
 202 100
 101 8.7 0.0 27.9
 203 18.2 0.0 37.5





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2016
Delta R.T. -0.000 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

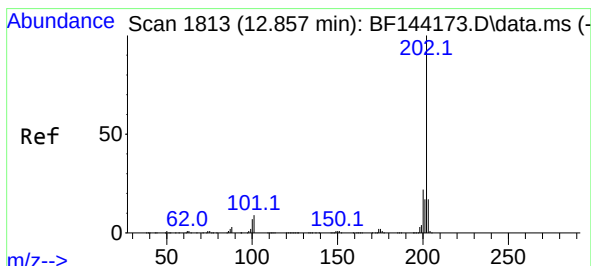
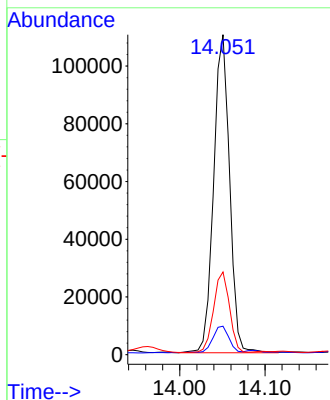
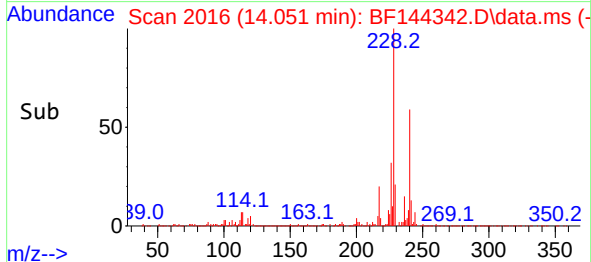
Instrument :
BNA_F
ClientSampleId :
WELD-SHOP-EXCAVATION



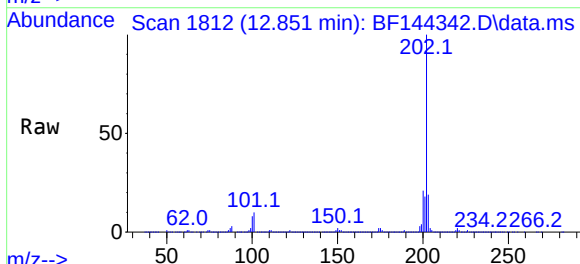
Tgt Ion:240 Resp: 143104
Ion Ratio Lower Upper
240 100
120 8.9 6.6 10.0
236 25.9 21.4 32.2

Manual Integrations
APPROVED

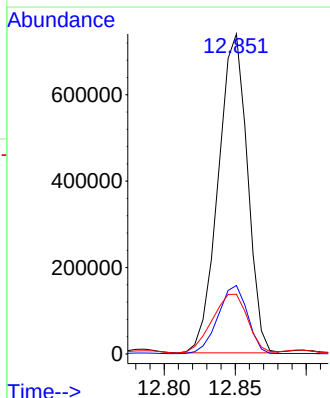
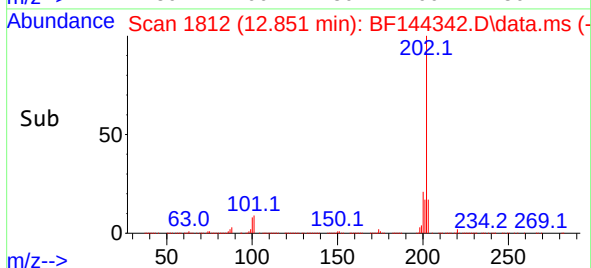
Reviewed By :Jagrut Upadhyay 11/25/2025
Supervised By :mohammad ahmed 11/26/2025

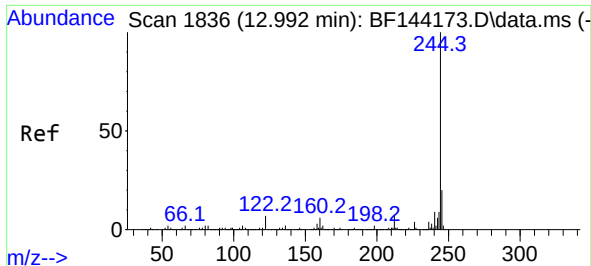


#78
Pyrene
Concen: 91.527 ng
RT: 12.851 min Scan# 1812
Delta R.T. -0.000 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12



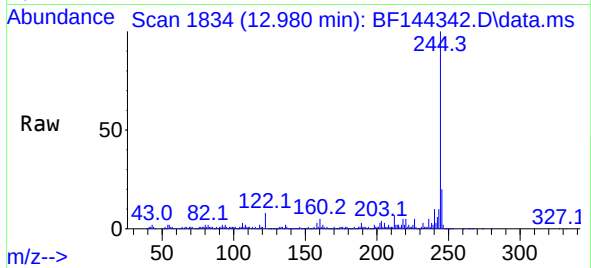
Tgt Ion:202 Resp: 1056071
Ion Ratio Lower Upper
202 100
200 21.4 17.2 25.8
203 18.6 13.7 20.5





#79
Terphenyl-d14
Concen: 23.761 ng
RT: 12.980 min Scan# 1834
Delta R.T. -0.012 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

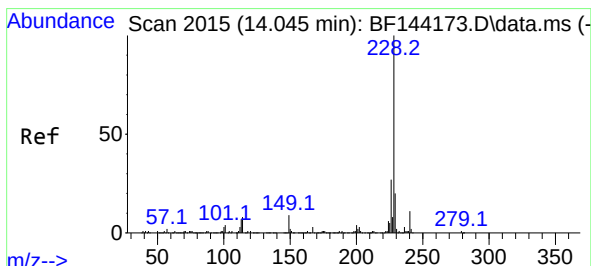
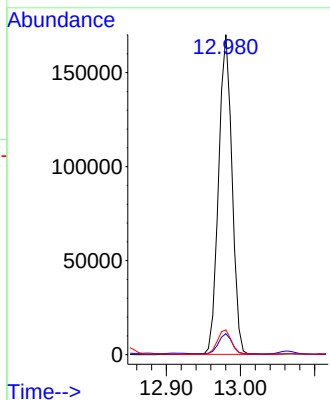
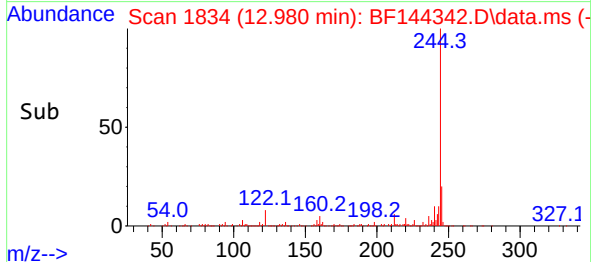
Instrument :
BNA_F
ClientSampleId :
WELD-SHOP-EXCAVATION



Tgt Ion:244 Resp: 214068
Ion Ratio Lower Upper
244 100
212 6.6 5.3 7.9
122 7.8 5.6 8.4

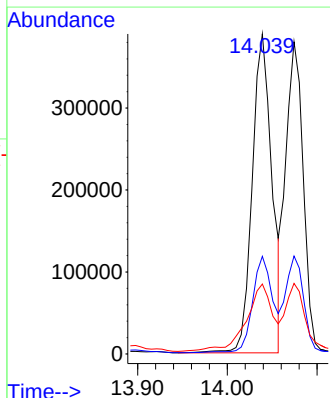
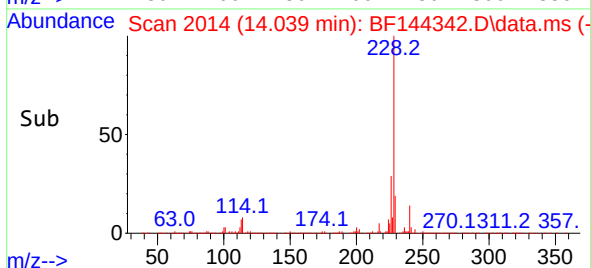
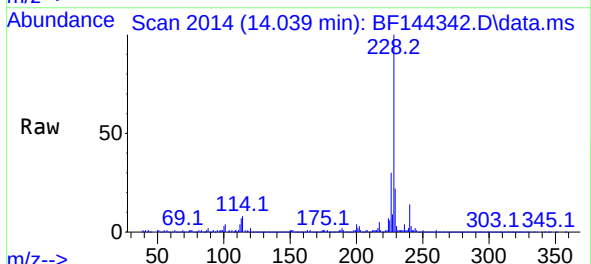
Manual Integrations
APPROVED

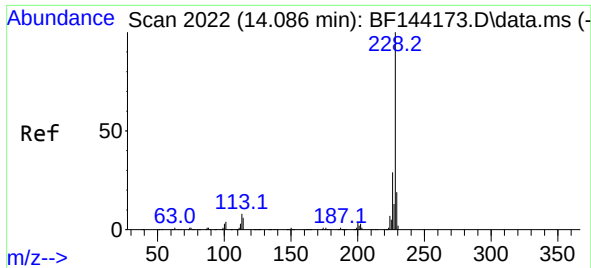
Reviewed By :Jagrut Upadhyay 11/25/2025
Supervised By :mohammad ahmed 11/26/2025



#81
Benzo(a)anthracene
Concen: 59.898 ng
RT: 14.039 min Scan# 2014
Delta R.T. -0.006 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

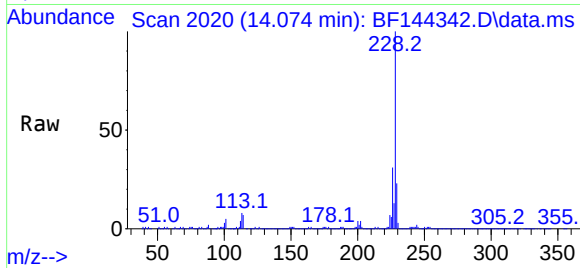
Tgt Ion:228 Resp: 594076
Ion Ratio Lower Upper
228 100
226 30.5 21.8 32.8
229 21.9 15.8 23.6





#83
Chrysene
Concen: 56.370 ng m
RT: 14.074 min Scan# 2022
Delta R.T. -0.006 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

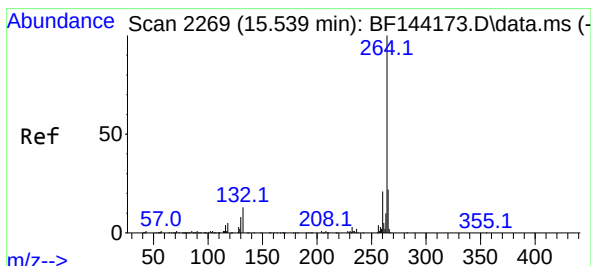
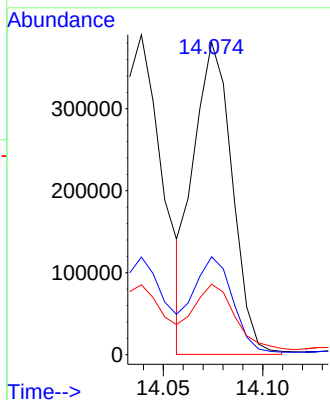
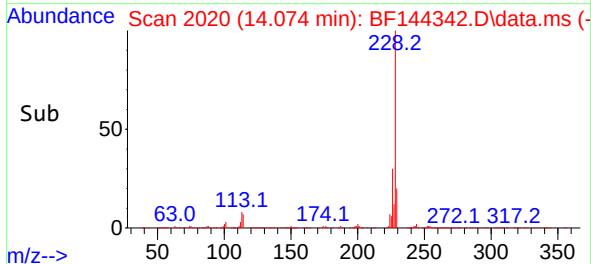
Instrument :
BNA_F
ClientSampleId :
WELD-SHOP-EXCAVATION



Tgt Ion:228 Resp: 516109
Ion Ratio Lower Upper
228 100
226 31.4 22.9 34.3
229 22.6 15.0 22.6

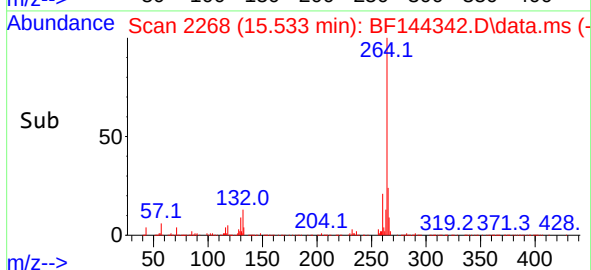
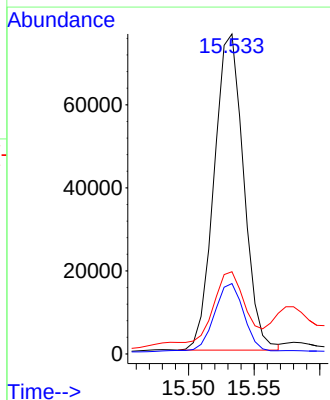
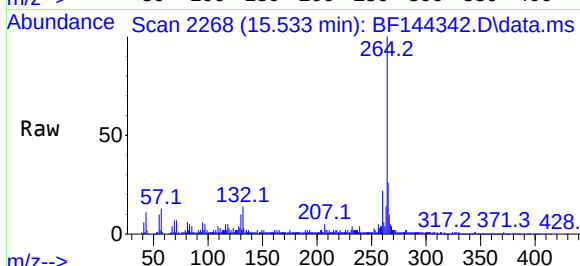
Manual Integrations
APPROVED

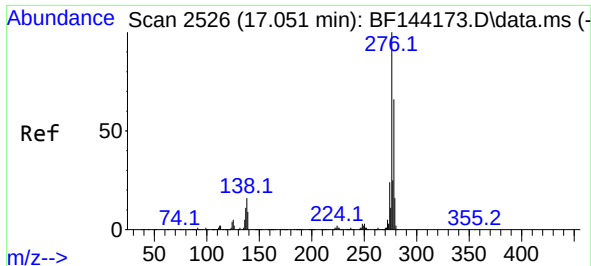
Reviewed By :Jagrut Upadhyay 11/25/2025
Supervised By :mohammad ahmed 11/26/2025



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2268
Delta R.T. -0.006 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

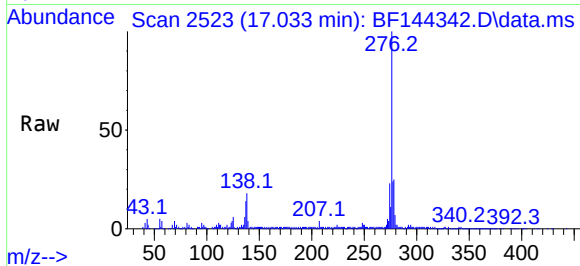
Tgt Ion:264 Resp: 119117
Ion Ratio Lower Upper
264 100
260 22.0 17.1 25.7
265 25.7 17.4 26.0





#87
Indeno(1,2,3-cd)pyrene
Concen: 20.675 ng
RT: 17.033 min Scan# 2195
Delta R.T. -0.000 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

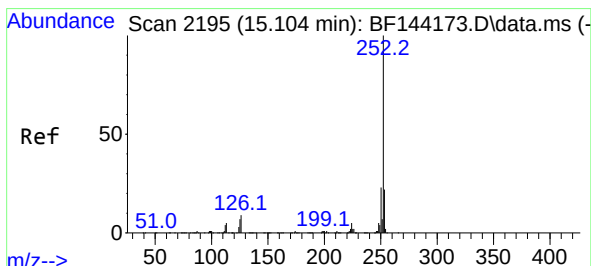
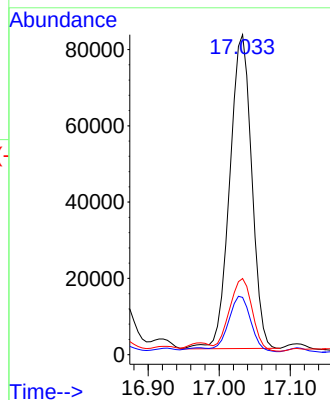
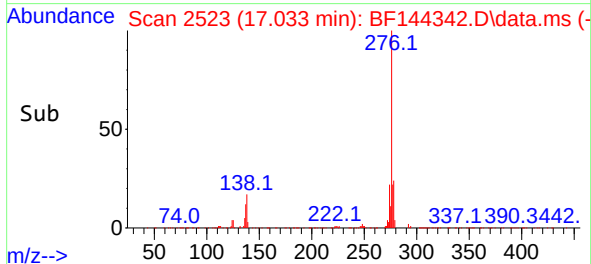
Instrument :
BNA_F
ClientSampleId :
WELD-SHOP-EXCAVATION



Tgt Ion:276 Resp: 176785
Ion Ratio Lower Upper
276 100
138 17.9 13.9 20.9
277 24.1 19.8 29.6

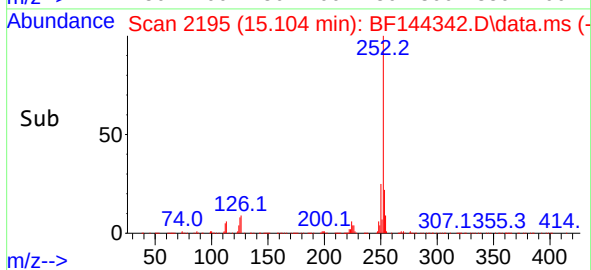
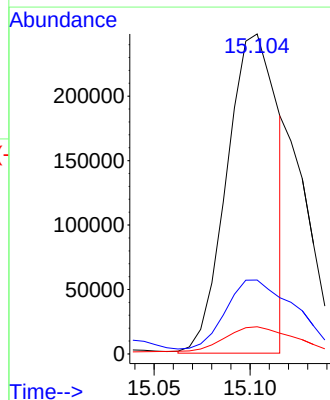
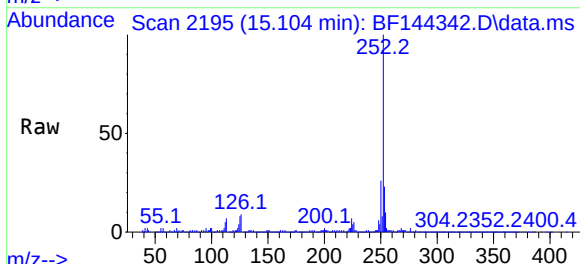
Manual Integrations
APPROVED

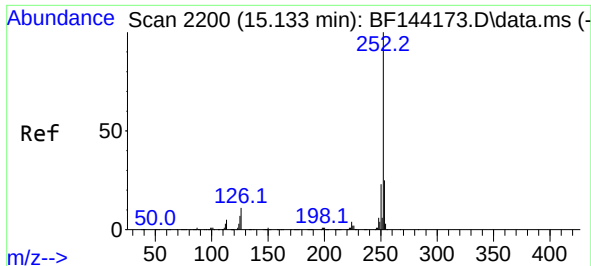
Reviewed By :Jagrut Upadhyay 11/25/2025
Supervised By :mohammad ahmed 11/26/2025



#88
Benzo(b)fluoranthene
Concen: 66.483 ng m
RT: 15.104 min Scan# 2195
Delta R.T. 0.006 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

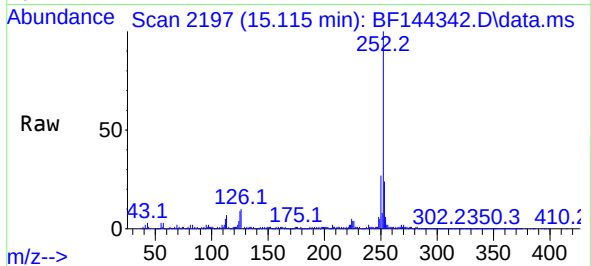
Tgt Ion:252 Resp: 450224
Ion Ratio Lower Upper
252 100
253 23.1 17.4 26.2
125 8.5 5.3 7.9#





#89
Benzo(k)fluoranthene
Concen: 24.467 ng m
RT: 15.115 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

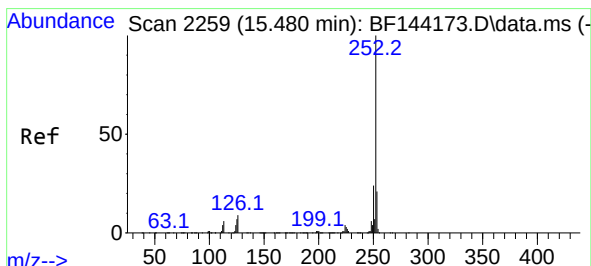
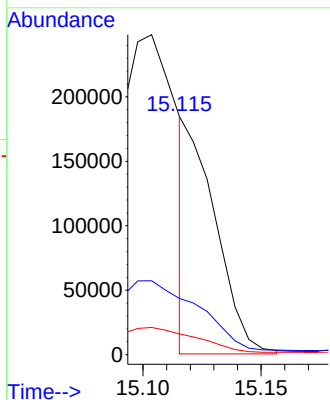
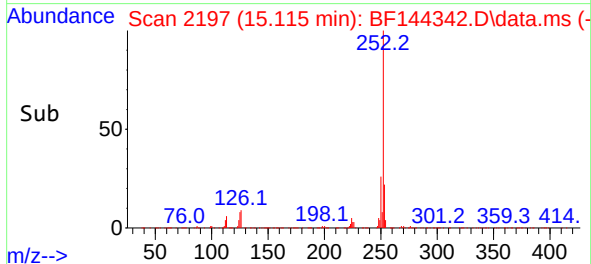
Instrument :
BNA_F
ClientSampleId :
WELD-SHOP-EXCAVATION



Tgt Ion:252 Resp: 15508
Ion Ratio Lower Upper
252 100
253 23.6 18.0 27.0
125 8.7 5.4 8.2

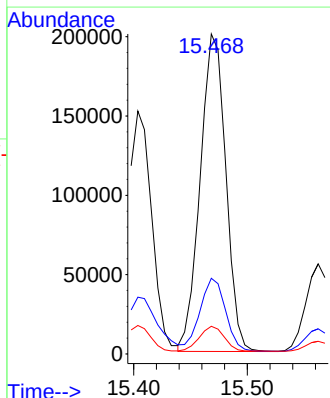
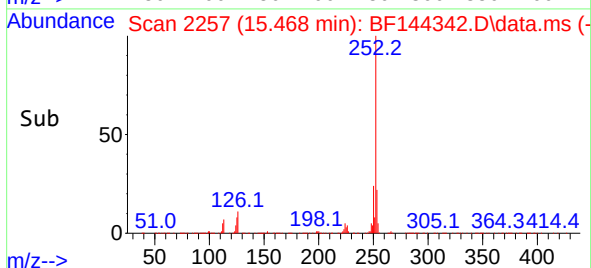
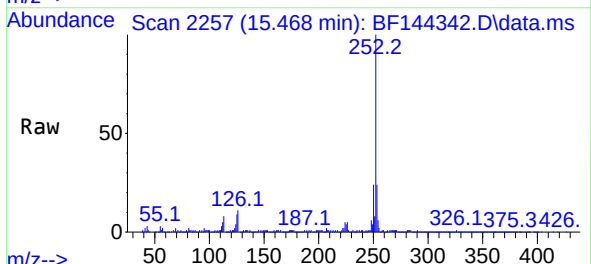
Manual Integrations
APPROVED

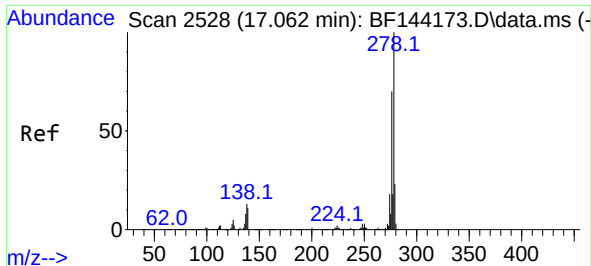
Reviewed By :Jagrut Upadhyay 11/25/2025
Supervised By :mohammad ahmed 11/26/2025



#90
Benzo(a)pyrene
Concen: 50.295 ng
RT: 15.468 min Scan# 2257
Delta R.T. -0.006 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

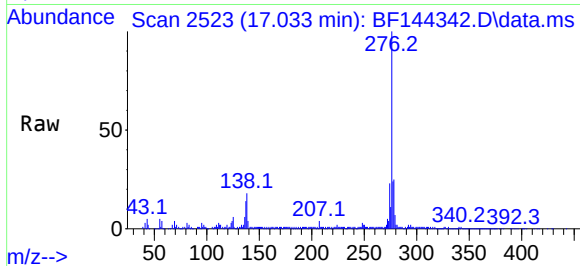
Tgt Ion:252 Resp: 314215
Ion Ratio Lower Upper
252 100
253 23.6 16.7 25.1
125 8.6 5.7 8.5





#91
Dibenzo(a,h)anthracene
Concen: 6.798 ng
RT: 17.033 min Scan# 2528
Delta R.T. -0.018 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

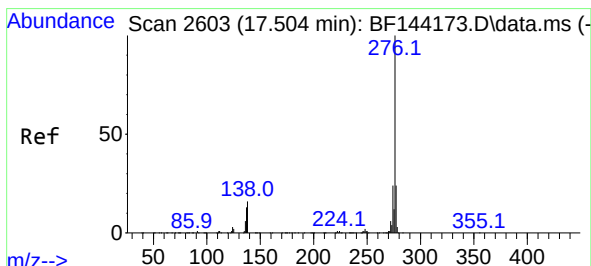
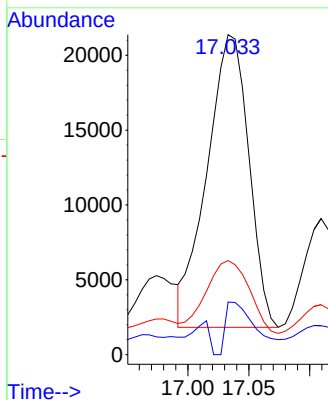
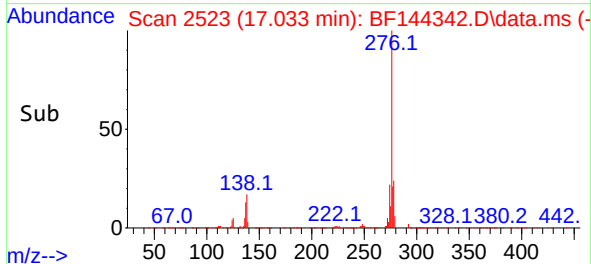
Instrument :
BNA_F
ClientSampleId :
WELD-SHOP-EXCAVATION



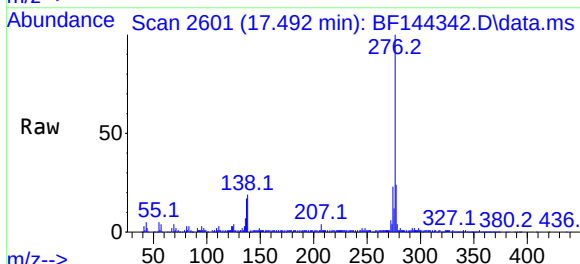
Tgt Ion:278 Resp: 4668
Ion Ratio Lower Upper
278 100
139 16.4 9.1 13.7
279 29.4 18.2 27.4

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 11/25/2025
Supervised By :mohammad ahmed 11/26/2025



#92
Benzo(g,h,i)perylene
Concen: 26.693 ng
RT: 17.492 min Scan# 2601
Delta R.T. -0.000 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12



Tgt Ion:276 Resp: 181015
Ion Ratio Lower Upper
276 100
277 24.4 19.0 28.4
138 18.8 12.9 19.3

