

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062422\
 Data File : BF128983.D
 Acq On : 24 Jun 2022 12:07
 Operator : CG\JU
 Sample : N3466-01DL 5X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 QA-QC-COMP-XRDS010-22DL

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 06/27/2022
 Supervised By : Jagrut Upadhyay 06/27/2022

Quant Time: Jun 25 06:12:45 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF060222.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 24 00:50:48 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.722	152	107483	20.000	ng	0.00
21) Naphthalene-d8	8.004	136	443165	20.000	ng	0.00
39) Acenaphthene-d10	9.763	164	254434	20.000	ng	0.00
64) Phenanthrene-d10	11.251	188	472185	20.000	ng	0.00
76) Chrysene-d12	13.898	240	247089	20.000	ng	# 0.00
86) Perylene-d12	15.333	264	233890	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.351	112	126562	18.756	ng	0.00
7) Phenol-d6	6.381	99	170394	20.686	ng	0.00
23) Nitrobenzene-d5	7.287	82	112781	11.849	ng	-0.02
42) 2,4,6-Tribromophenol	10.551	330	45653	15.186	ng	-0.01
45) 2-Fluorobiphenyl	9.081	172	212633	11.707	ng	-0.01
79) Terphenyl-d14	12.833	244	223699	15.731	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.028	128	74504	3.276	ng	99
52) Acenaphthene	9.792	154	54364	3.743	ng	99
55) Dibenzofuran	9.969	168	70387	3.372	ng	100
58) Fluorene	10.310	166	68006	4.201	ng	98
71) Phenanthrene	11.275	178	668907	28.243	ng	99
72) Anthracene	11.328	178	178382	7.610	ng	99
73) Carbazole	11.486	167	59897	2.751	ng	98
75) Fluoranthene	12.469	202	560303	22.632	ng	95
78) Pyrene	12.698	202	471148	25.629	ng	98
81) Benzo(a)anthracene	13.886	228	159867	10.380	ng	98
83) Chrysene	13.922	228	131068	8.926	ng	97
87) Indeno(1,2,3-cd)pyrene	16.751	276	67328	4.776	ng	# 90
88) Benzo(b)fluoranthene	14.921	252	132502m	8.866	ng	
89) Benzo(k)fluoranthene	14.945	252	44623m	3.174	ng	
90) Benzo(a)pyrene	15.274	252	106343m	9.053	ng	
92) Benzo(g,h,i)perylene	17.174	276	68811m	5.938	ng	

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

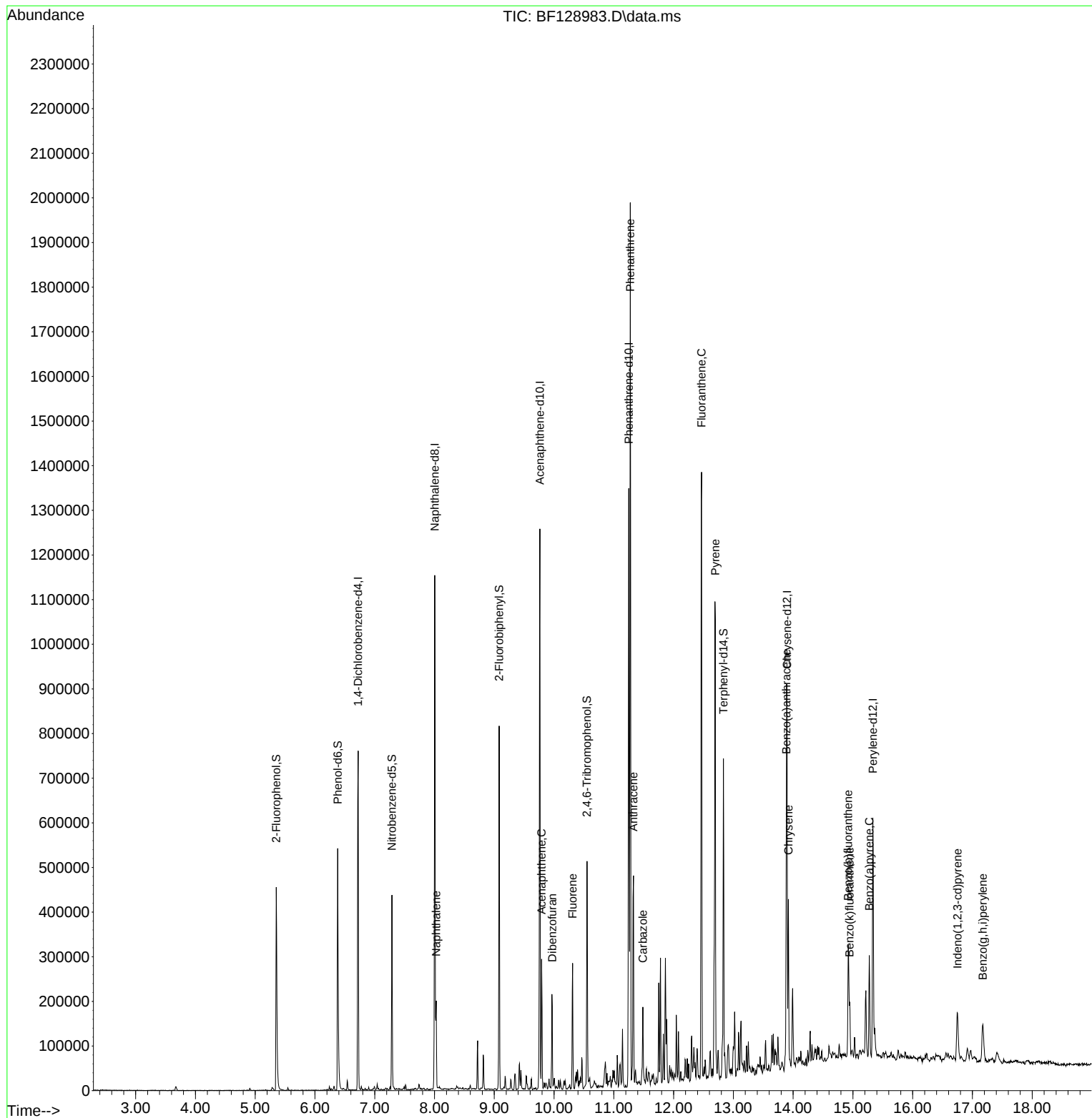
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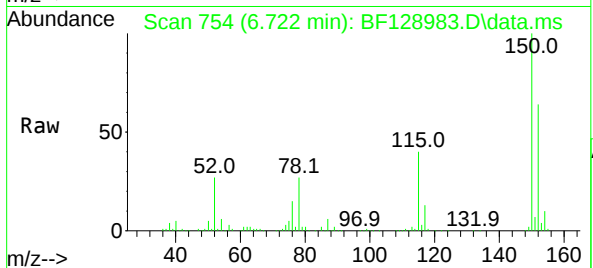
Reviewed By : Christian Giraldo 06/27/2022
Supervised By : Jagrut Upadhyay 06/27/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.722 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF128983.D
Acq: 24 Jun 2022 12:07

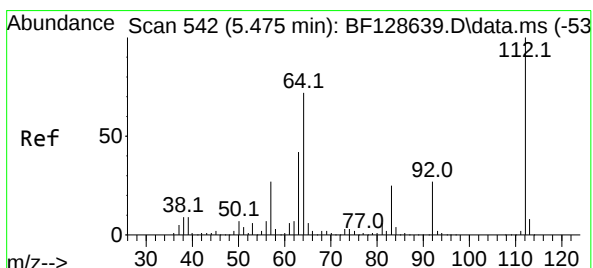
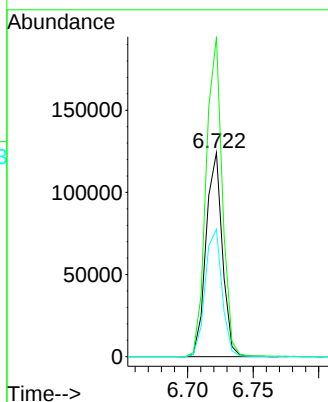
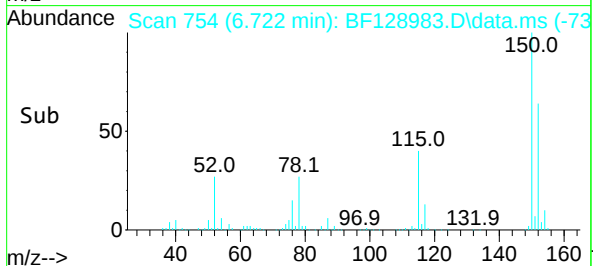
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ClientSampleId :
QA-QC-COMP-XRDS010-22DL



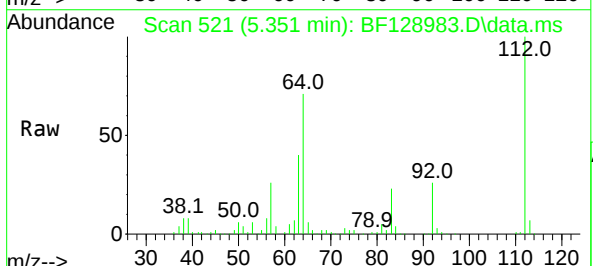
Tgt Ion:152 Resp: 10748
Ion Ratio Lower Upper
152 100
150 156.9 123.7 185.5
115 62.6 49.9 74.9

Manual Integrations
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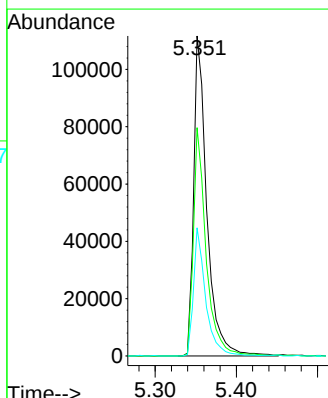
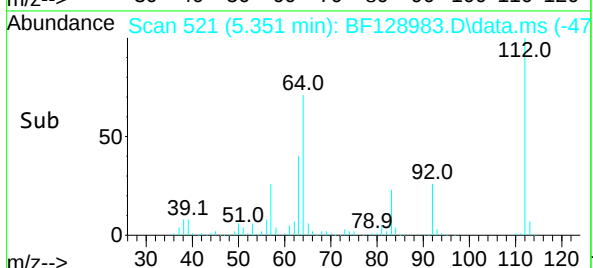
Reviewed By :Christian Giraldo 06/27/2022
Supervised By :Jagrut Upadhyay 06/27/2022



#5
2-Fluorophenol
Concen: 18.756 ng
RT: 5.351 min Scan# 521
Delta R.T. -0.006 min
Lab File: BF128983.D
Acq: 24 Jun 2022 12:07



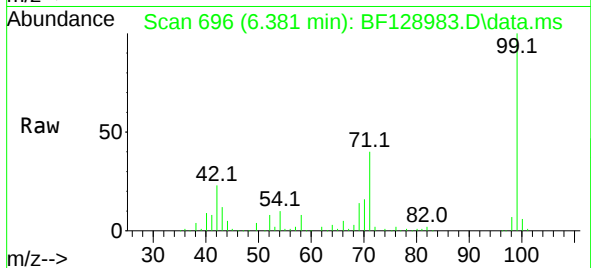
Tgt Ion:112 Resp: 126562
Ion Ratio Lower Upper
112 100
64 71.3 53.3 79.9
63 40.1 28.0 42.0





#7
Phenol-d6
Concen: 20.686 ng
RT: 6.381 min Scan# 61
Delta R.T. -0.006 min
Lab File: BF128983.D
Acq: 24 Jun 2022 12:07

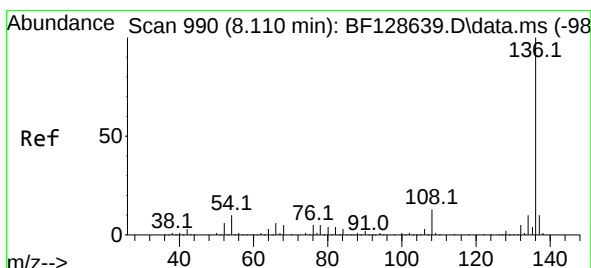
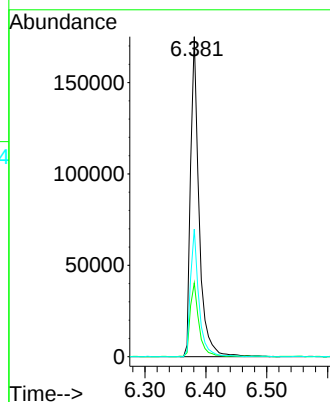
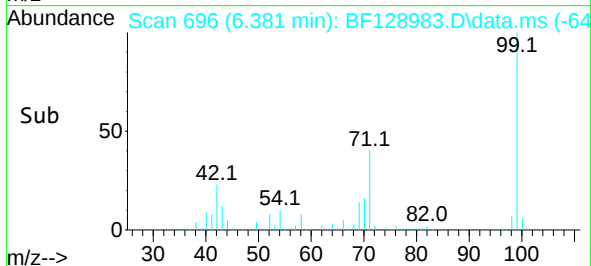
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ClientSampleId :
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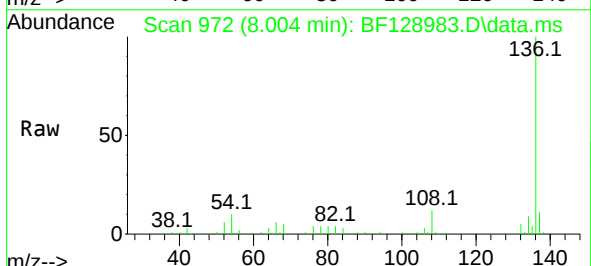
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Ion Ratio Lower Upper
99 100
42 23.1 17.3 25.9
71 39.8 28.9 43.3

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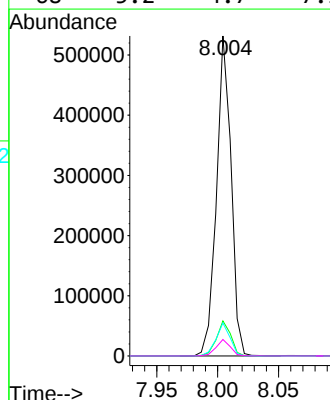
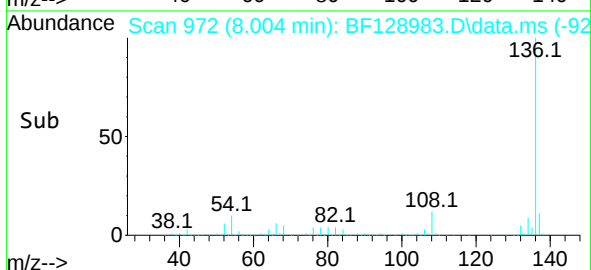
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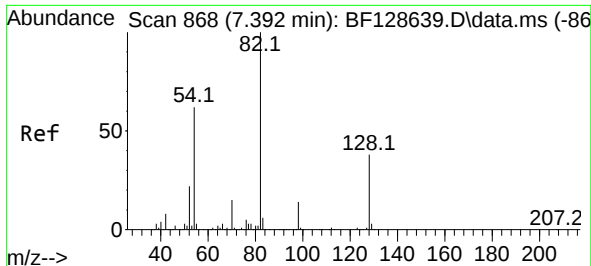


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.004 min Scan# 972
Delta R.T. -0.006 min
Lab File: BF128983.D
Acq: 24 Jun 2022 12:07



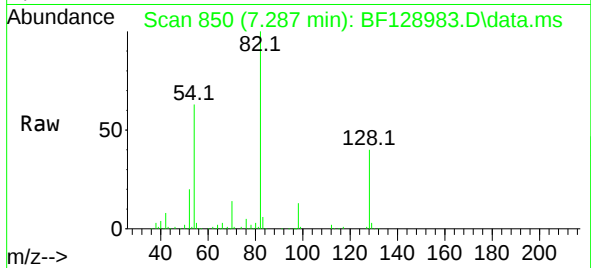
Tgt Ion:136 Resp: 443165
Ion Ratio Lower Upper
136 100
137 11.0 8.8 13.2
54 10.3 7.5 11.3
68 5.2 4.7 7.1





#23
Nitrobenzene-d5
Concen: 11.849 ng
RT: 7.287 min Scan# 81
Delta R.T. -0.018 min
Lab File: BF128983.D
Acq: 24 Jun 2022 12:07

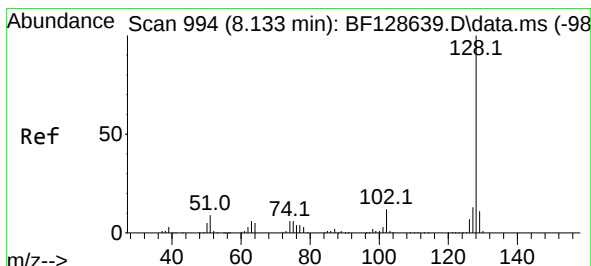
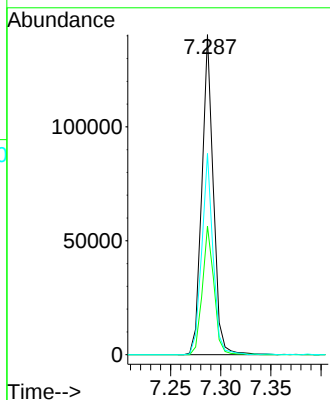
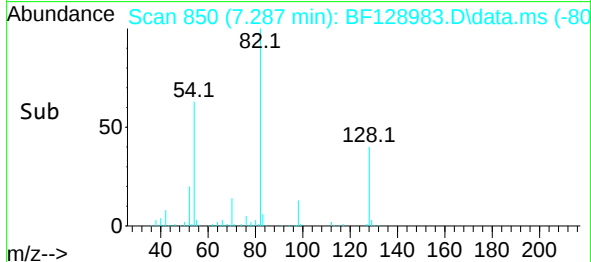
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Tgt Ion: 82 Resp: 11278
Ion Ratio Lower Upper
82 100
128 40.2 34.0 51.0
54 62.8 46.9 70.3

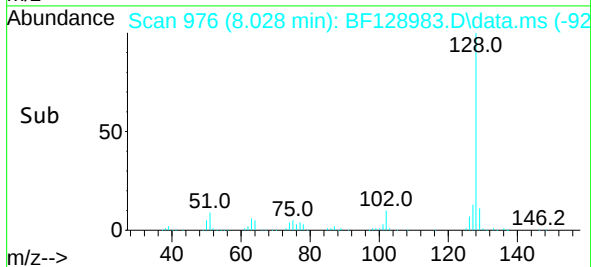
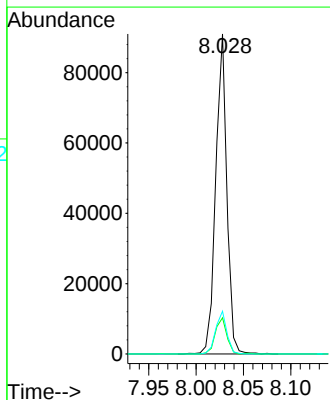
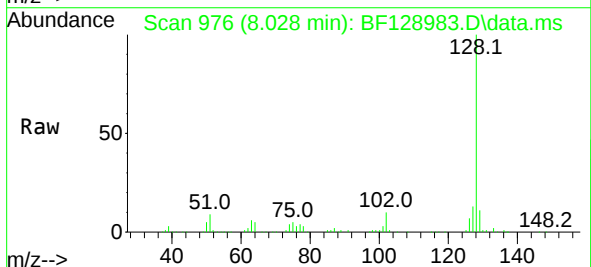
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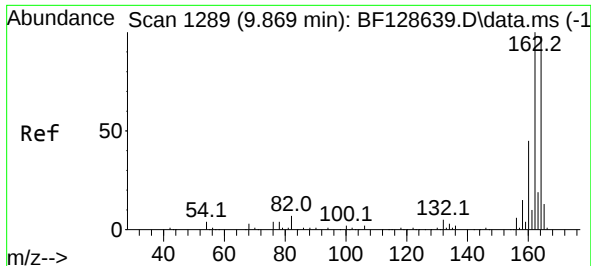
Reviewed By :Christian Giraldo 06/27/2022
Supervised By :Jagrut Upadhyay 06/27/2022



#31
Naphthalene
Concen: 3.276 ng
RT: 8.028 min Scan# 976
Delta R.T. -0.006 min
Lab File: BF128983.D
Acq: 24 Jun 2022 12:07

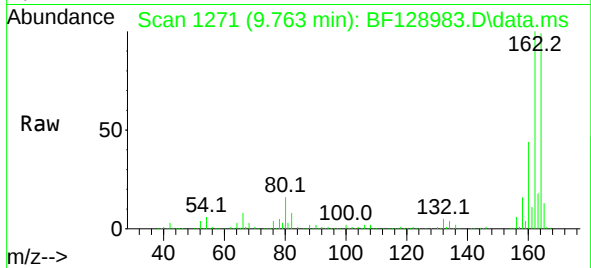
Tgt Ion:128 Resp: 74504
Ion Ratio Lower Upper
128 100
129 11.3 9.2 13.8
127 13.3 10.5 15.7





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.763 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF128983.D
Acq: 24 Jun 2022 12:07

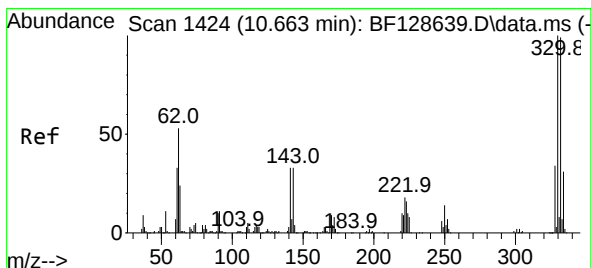
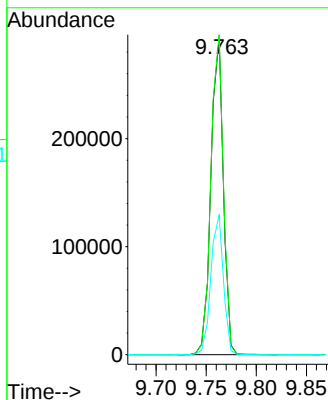
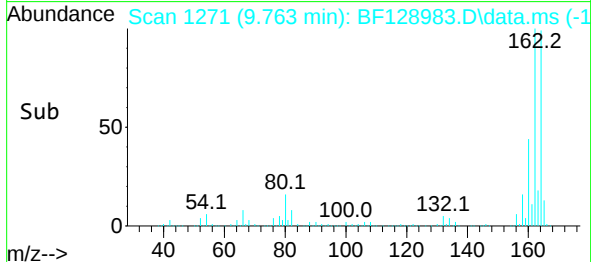
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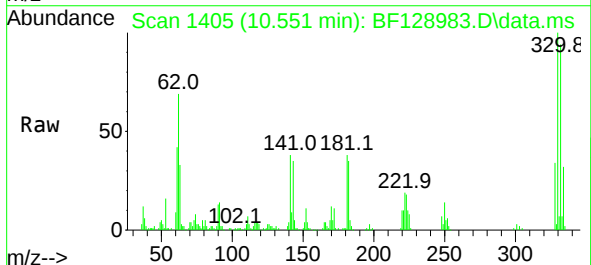
Tgt Ion:164 Resp: 254434
Ion Ratio Lower Upper
164 100
162 100.7 79.5 119.3
160 43.9 34.2 51.4

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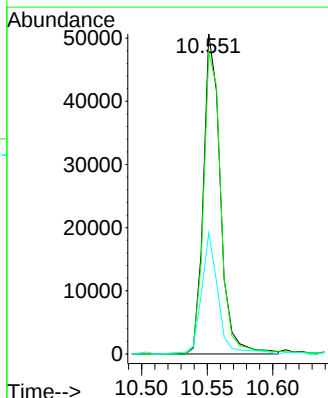
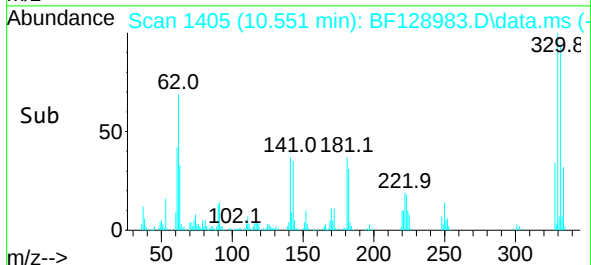
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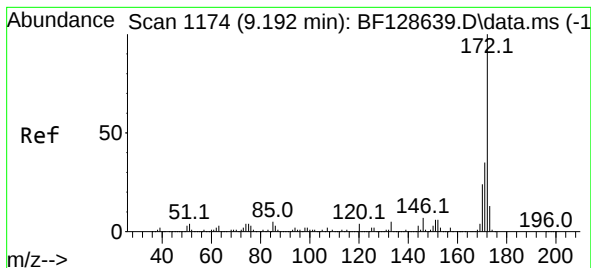


#42
2,4,6-Tribromophenol
Concen: 15.186 ng
RT: 10.551 min Scan# 1405
Delta R.T. -0.012 min
Lab File: BF128983.D
Acq: 24 Jun 2022 12:07



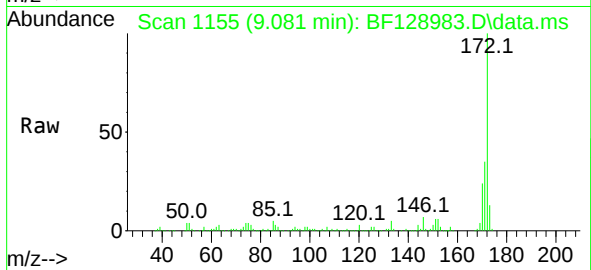
Tgt Ion:330 Resp: 45653
Ion Ratio Lower Upper
330 100
332 97.6 76.8 115.2
141 37.0 28.0 42.0





#45
2-Fluorobiphenyl
Concen: 11.707 ng
RT: 9.081 min Scan# 1155
Delta R.T. -0.012 min
Lab File: BF128983.D
Acq: 24 Jun 2022 12:07

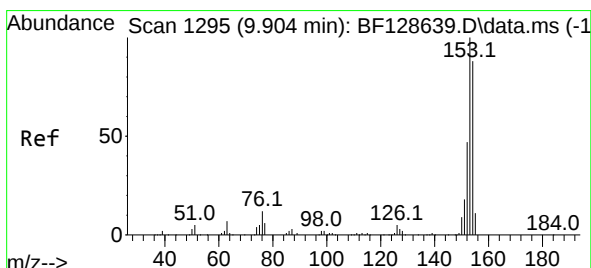
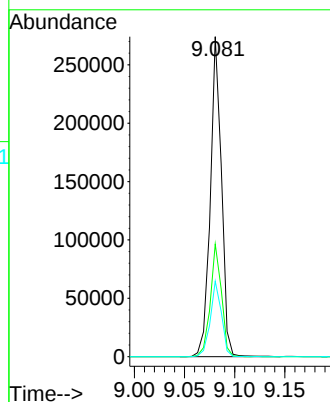
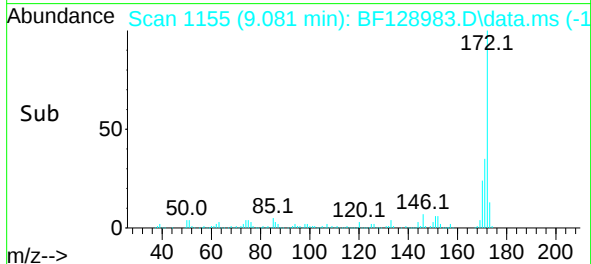
Instrument : BNA_F
ClientSampleId : QA-QC-COMP-XRDS010-22DL



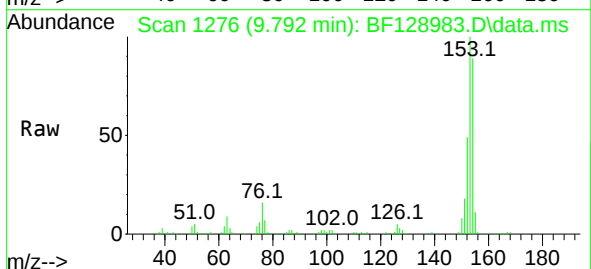
Tgt Ion:172 Resp: 21263
Ion Ratio Lower Upper
172 100
171 35.2 28.8 43.2
170 23.6 19.8 29.8

Manual Integrations
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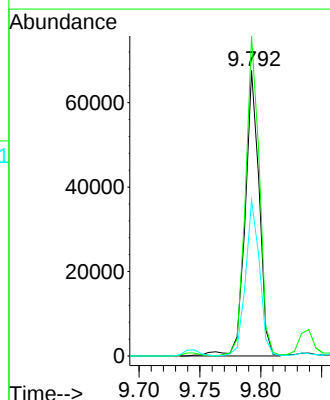
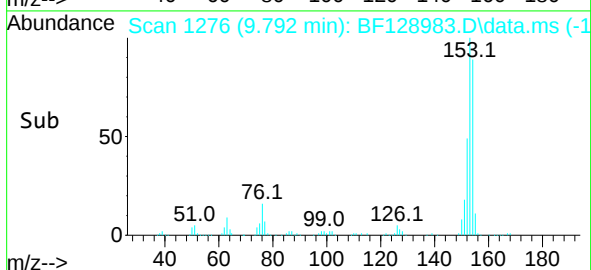
Reviewed By :Christian Giraldo 06/27/2022
Supervised By :Jagrut Upadhyay 06/27/2022

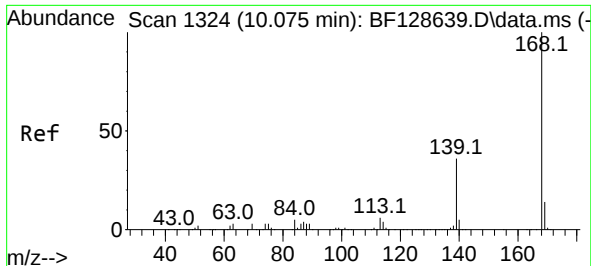


#52
Acenaphthene
Concen: 3.743 ng
RT: 9.792 min Scan# 1276
Delta R.T. -0.012 min
Lab File: BF128983.D
Acq: 24 Jun 2022 12:07



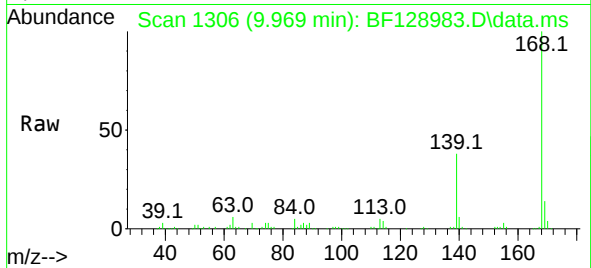
Tgt Ion:154 Resp: 54364
Ion Ratio Lower Upper
154 100
153 112.2 89.6 134.4
152 54.6 42.4 63.6





#55
Dibenzenofuran
Concen: 3.372 ng
RT: 9.969 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF128983.D
Acq: 24 Jun 2022 12:07

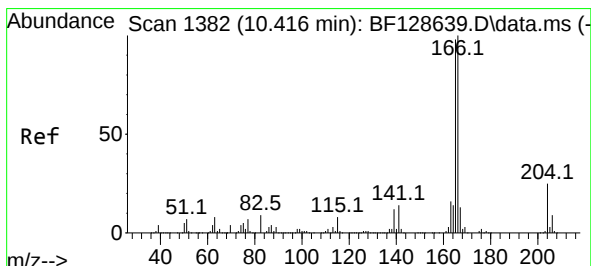
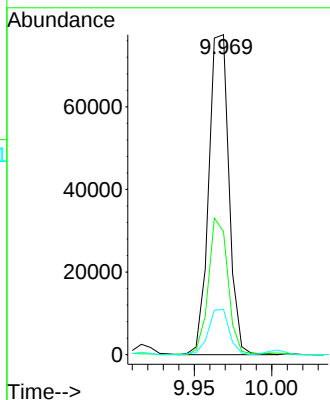
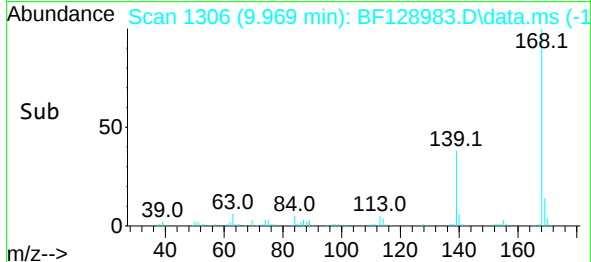
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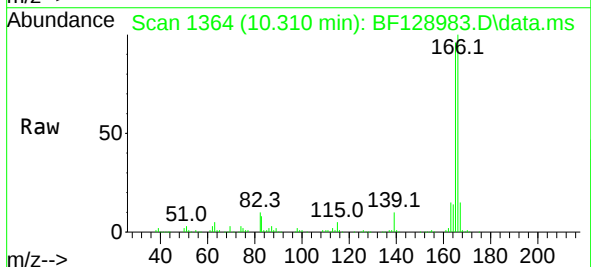
Tgt Ion:168 Resp: 7038
Ion Ratio Lower Upper
168 100
139 38.5 30.6 46.0
169 14.2 11.0 16.6

Manual Integrations
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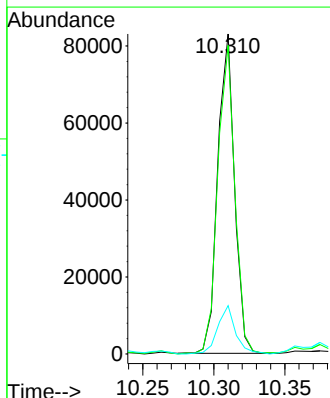
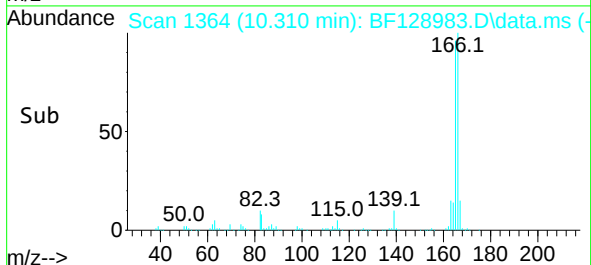
Reviewed By :Christian Giraldo 06/27/2022
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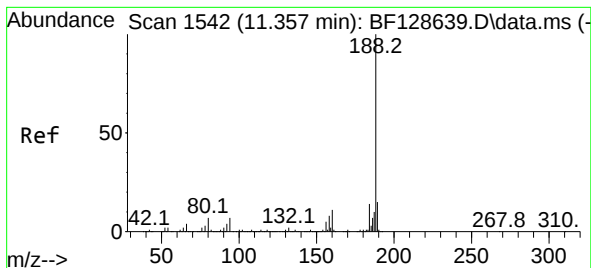


#58
Fluorene
Concen: 4.201 ng
RT: 10.310 min Scan# 1364
Delta R.T. -0.006 min
Lab File: BF128983.D
Acq: 24 Jun 2022 12:07



Tgt Ion:166 Resp: 68006
Ion Ratio Lower Upper
166 100
165 96.5 78.1 117.1
167 15.1 10.5 15.7





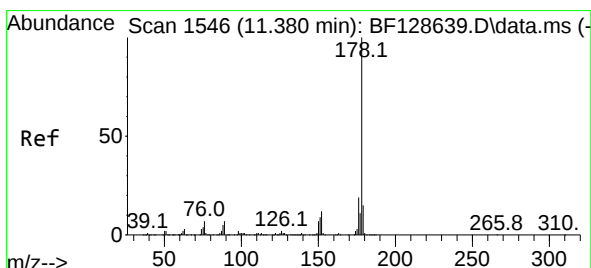
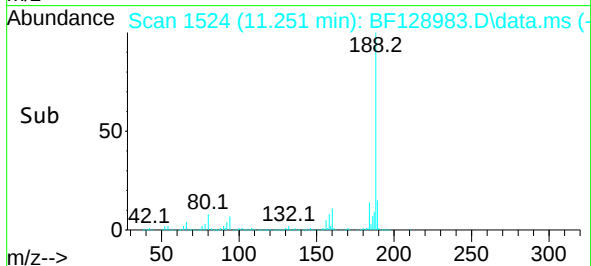
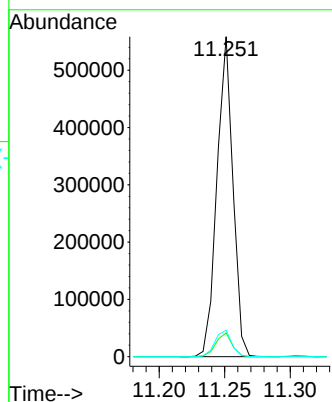
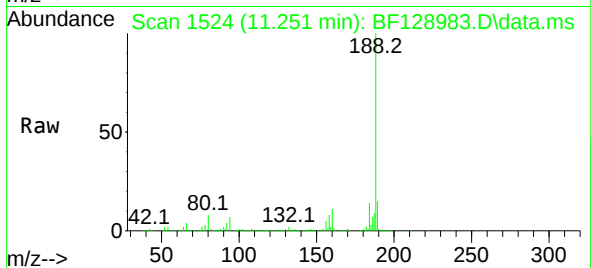
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.251 min Scan# 1528
Delta R.T. 0.000 min
Lab File: BF128983.D
Acq: 24 Jun 2022 12:07

Instrument :
BNA_F
ClientSampleId :
QA-QC-COMP-XRDS010-22DL

Tgt Ion:188 Resp: 472185
Ion Ratio Lower Upper
188 100
94 7.4 7.0 10.6
80 8.3 7.6 11.4

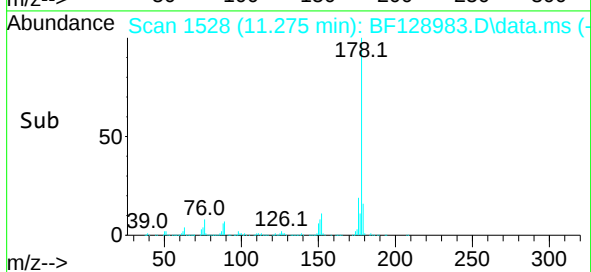
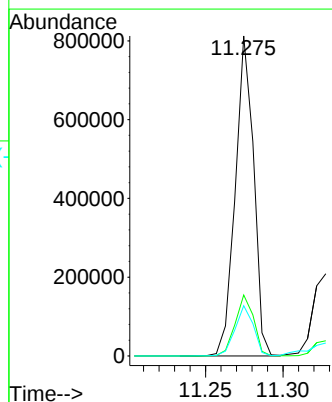
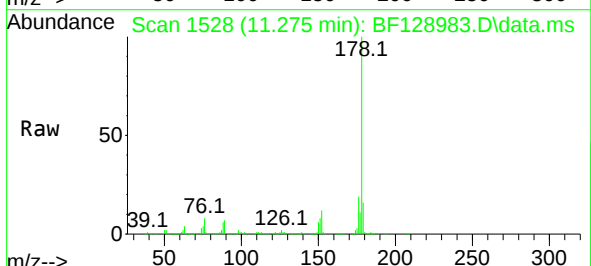
Manual Integrations
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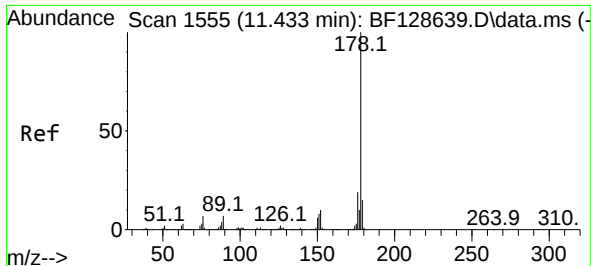
Reviewed By :Christian Giraldo 06/27/2022
Supervised By :Jagrut Upadhyay 06/27/2022



#71
Phenanthrene
Concen: 28.243 ng
RT: 11.275 min Scan# 1528
Delta R.T. -0.006 min
Lab File: BF128983.D
Acq: 24 Jun 2022 12:07

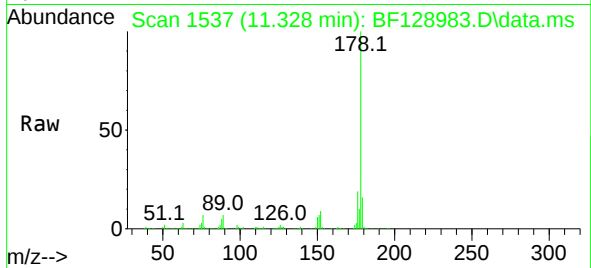
Tgt Ion:178 Resp: 668907
Ion Ratio Lower Upper
178 100
176 19.1 16.0 24.0
179 15.7 12.6 19.0





#72
 Anthracene
 Concen: 7.610 ng
 RT: 11.328 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF128983.D
 Acq: 24 Jun 2022 12:07

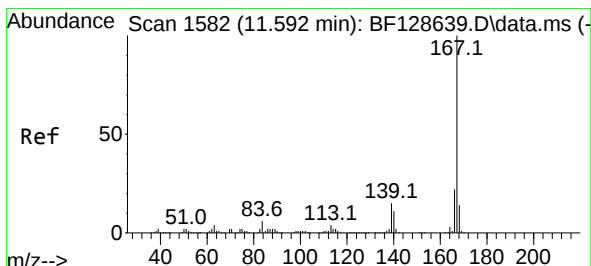
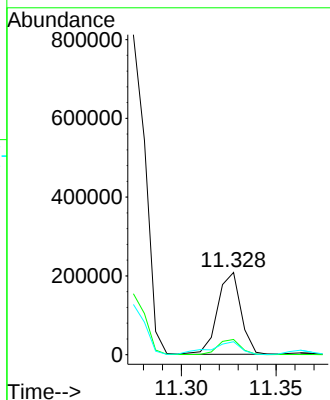
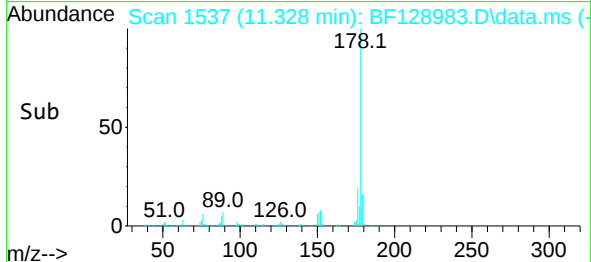
Instrument :
 BNA_F
 ClientSampleId :
 QA-QC-COMP-XRDS010-22DL



Tgt Ion:178 Resp: 17838
 Ion Ratio Lower Upper
 178 100
 176 18.6 15.4 23.2
 179 15.7 12.6 19.0

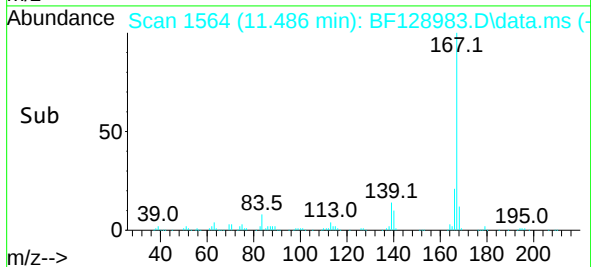
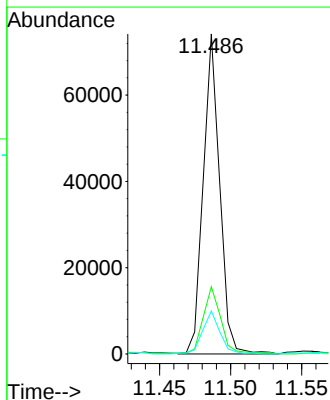
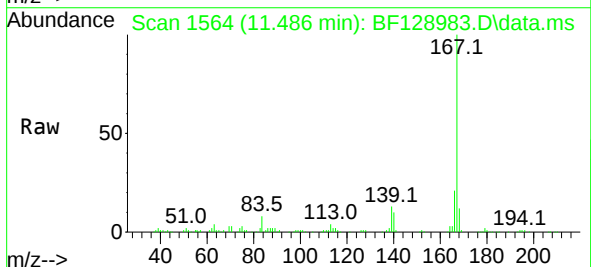
Manual Integrations
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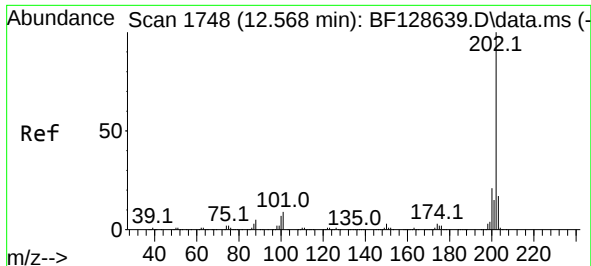
Reviewed By :Christian Giraldo 06/27/2022
 Supervised By :Jagrut Upadhyay 06/27/2022



#73
 Carbazole
 Concen: 2.751 ng
 RT: 11.486 min Scan# 1564
 Delta R.T. -0.006 min
 Lab File: BF128983.D
 Acq: 24 Jun 2022 12:07

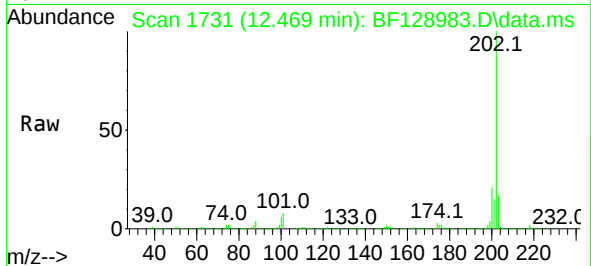
Tgt Ion:167 Resp: 59897
 Ion Ratio Lower Upper
 167 100
 166 21.0 17.7 26.5
 139 13.5 11.2 16.8





#75
Fluoranthene
Concen: 22.632 ng
RT: 12.469 min Scan# 1748
Delta R.T. 0.000 min
Lab File: BF128983.D
Acq: 24 Jun 2022 12:07

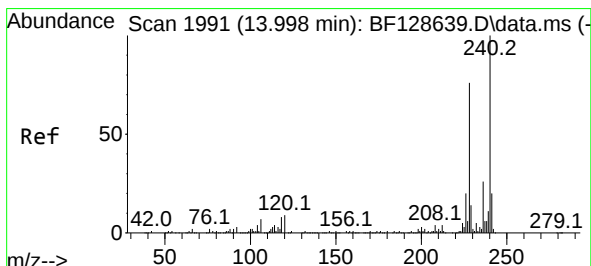
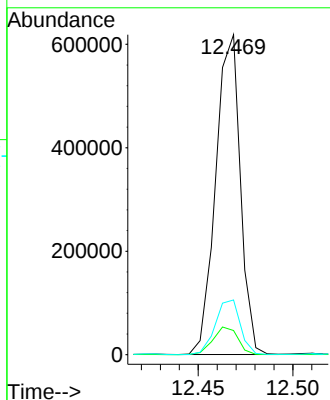
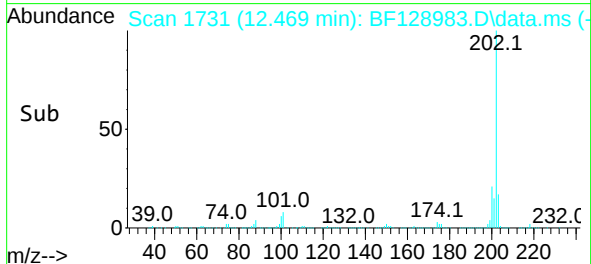
Instrument :
BNA_F
ClientSampleId :
QA-QC-COMP-XRDS010-22DL



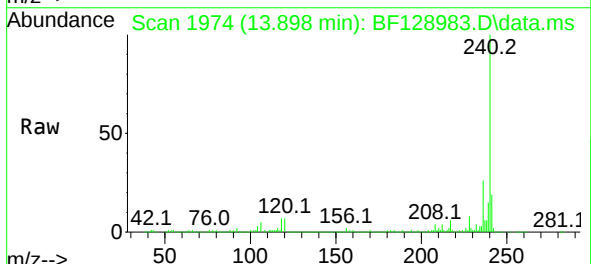
Tgt Ion:202 Resp: 56030
Ion Ratio Lower Upper
202 100
101 7.5 0.0 31.4
203 17.1 0.0 38.0

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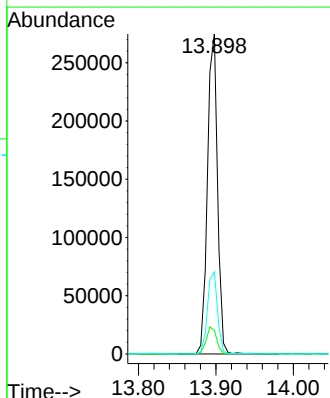
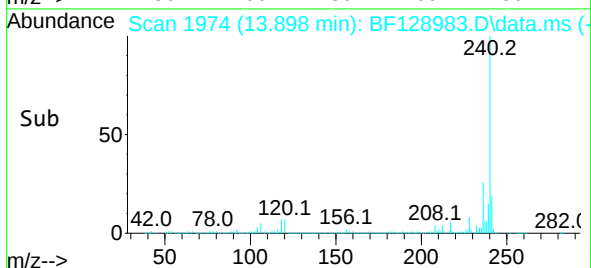
Reviewed By :Christian Giraldo 06/27/2022
Supervised By :Jagrut Upadhyay 06/27/2022

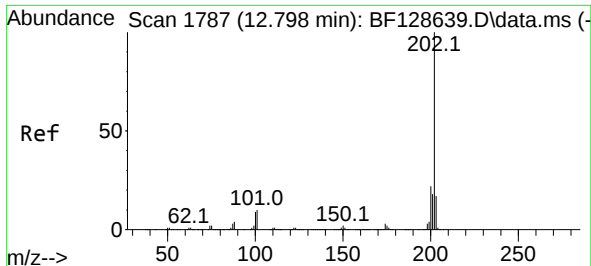


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.898 min Scan# 1974
Delta R.T. 0.000 min
Lab File: BF128983.D
Acq: 24 Jun 2022 12:07



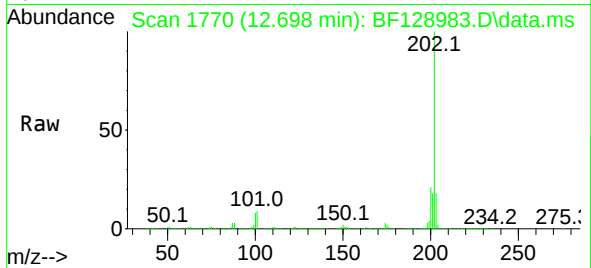
Tgt Ion:240 Resp: 247089
Ion Ratio Lower Upper
240 100
120 7.3 8.9 13.3#
236 25.6 20.8 31.2





#78
Pyrene
Concen: 25.629 ng
RT: 12.698 min Scan# 1793
Delta R.T. 0.000 min
Lab File: BF128983.D
Acq: 24 Jun 2022 12:07

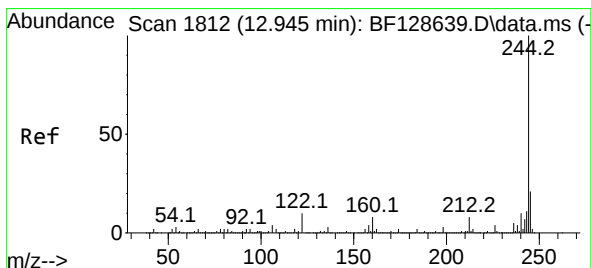
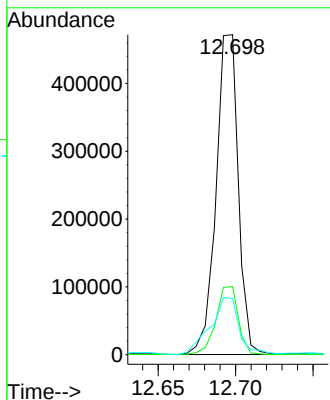
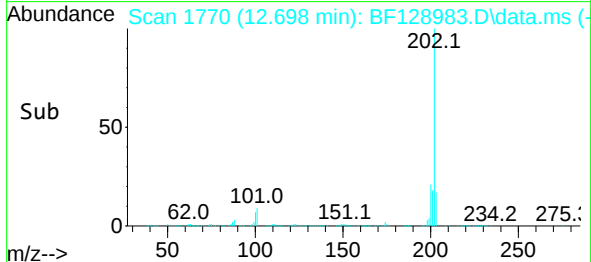
Instrument :
BNA_F
ClientSampleId :
QA-QC-COMP-XRDS010-22DL



Tgt Ion:202 Resp: 47114
Ion Ratio Lower Upper
202 100
200 21.3 17.7 26.5
203 17.5 14.6 21.8

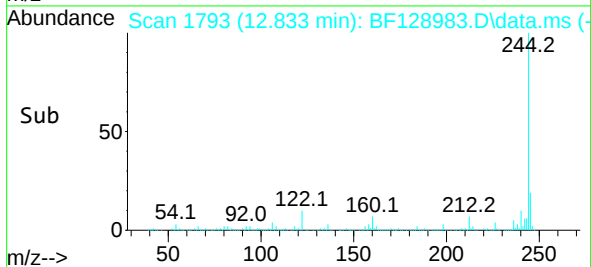
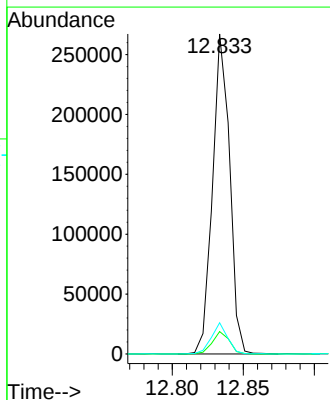
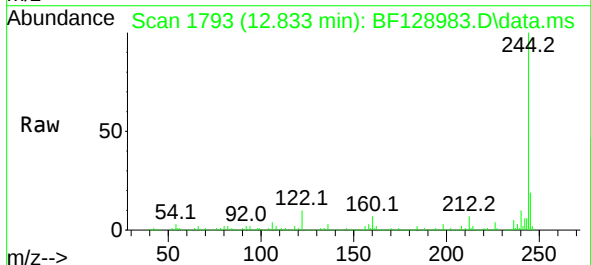
Manual Integrations
APPROVED

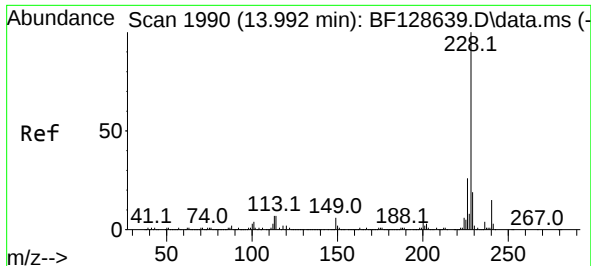
Reviewed By :Christian Giraldo 06/27/2022
Supervised By :Jagrut Upadhyay 06/27/2022



#79
Terphenyl-d14
Concen: 15.731 ng
RT: 12.833 min Scan# 1793
Delta R.T. -0.006 min
Lab File: BF128983.D
Acq: 24 Jun 2022 12:07

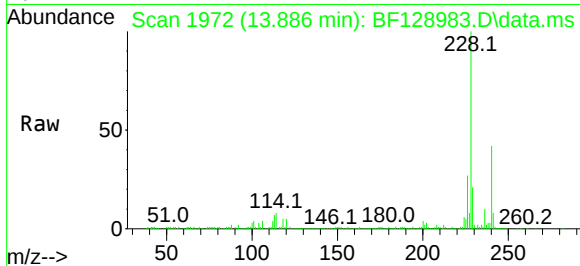
Tgt Ion:244 Resp: 223699
Ion Ratio Lower Upper
244 100
212 7.0 6.1 9.1
122 9.8 8.8 13.2





#81
Benzo(a)anthracene
Concen: 10.380 ng
RT: 13.886 min Scan# 1972
Delta R.T. 0.000 min
Lab File: BF128983.D
Acq: 24 Jun 2022 12:07

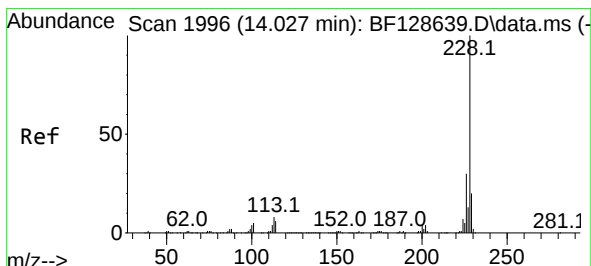
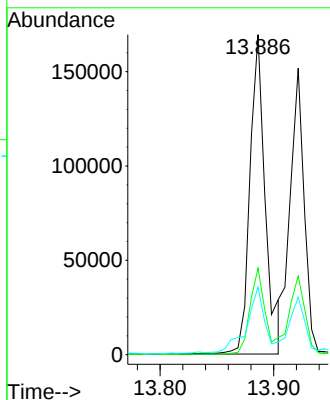
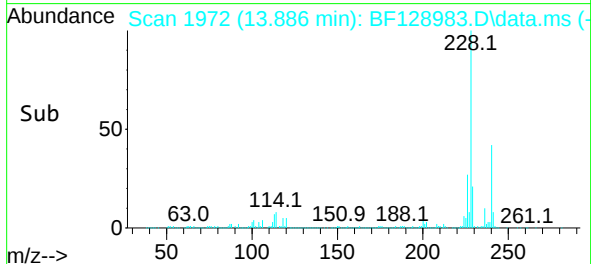
Instrument :
BNA_F
ClientSampleId :
QA-QC-COMP-XRDS010-22DL



Tgt Ion:228 Resp: 15986
Ion Ratio Lower Upper
228 100
226 27.0 22.1 33.1
229 21.1 15.8 23.8

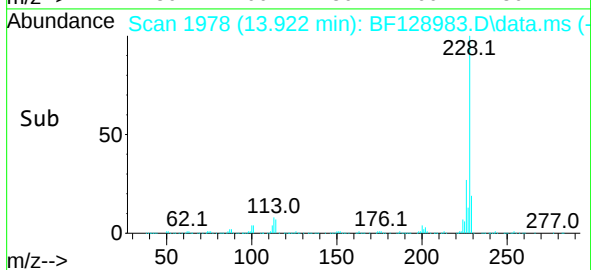
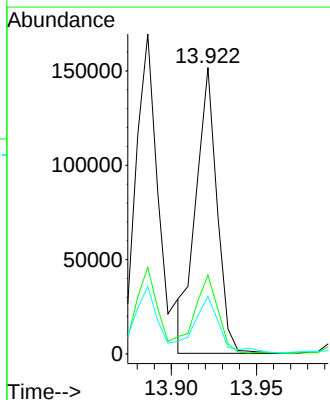
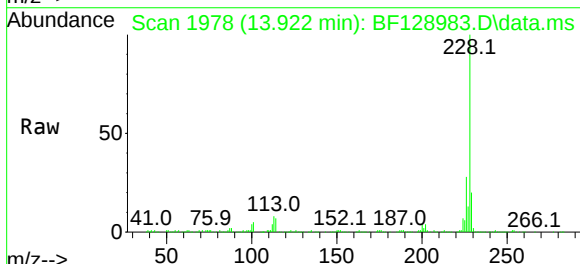
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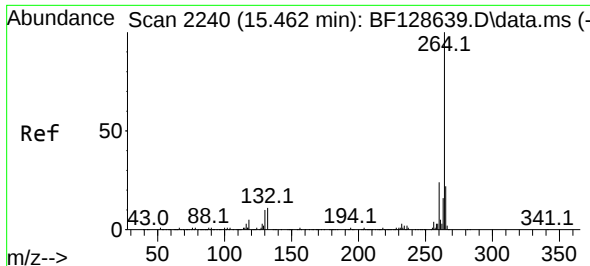
Reviewed By :Christian Giraldo 06/27/2022
Supervised By :Jagrut Upadhyay 06/27/2022



#83
Chrysene
Concen: 8.926 ng
RT: 13.922 min Scan# 1978
Delta R.T. -0.006 min
Lab File: BF128983.D
Acq: 24 Jun 2022 12:07

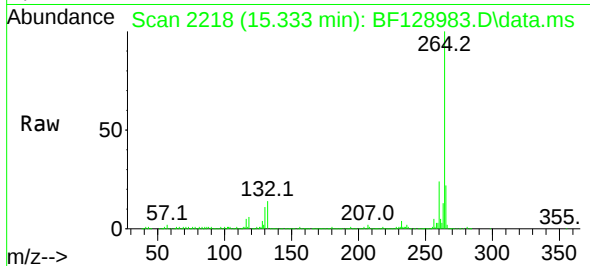
Tgt Ion:228 Resp: 131068
Ion Ratio Lower Upper
228 100
226 27.5 24.3 36.5
229 20.1 15.9 23.9





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.333 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF128983.D
Acq: 24 Jun 2022 12:07

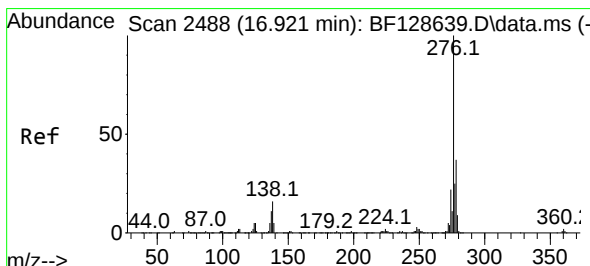
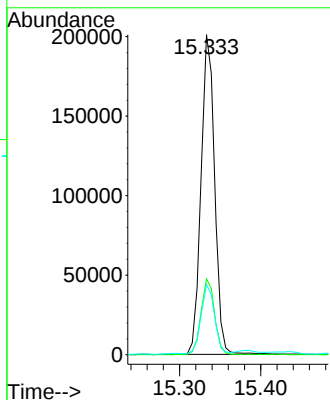
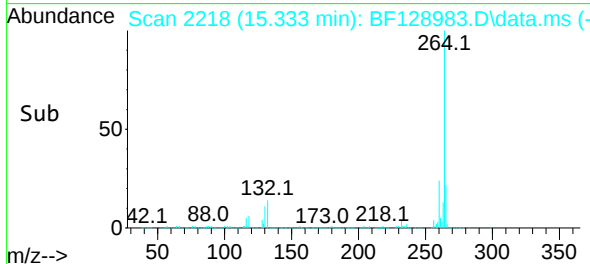
Instrument :
BNA_F
ClientSampleId :
QA-QC-COMP-XRDS010-22DL



Tgt Ion:264 Resp: 233890
Ion Ratio Lower Upper
264 100
260 23.7 18.4 27.6
265 21.8 17.2 25.8

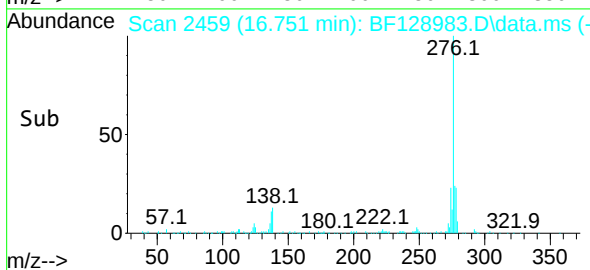
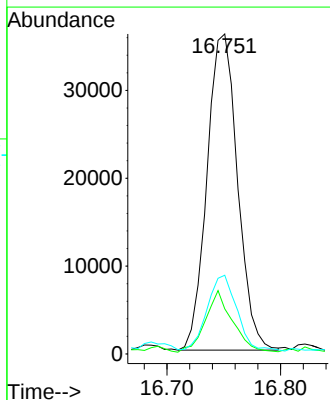
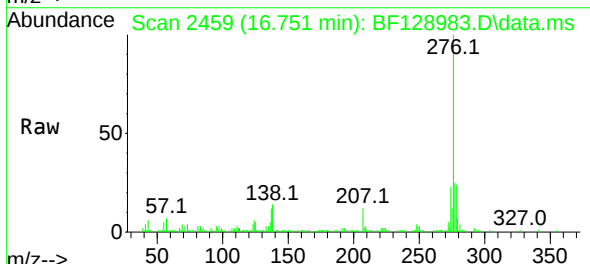
Manual Integrations
APPROVED

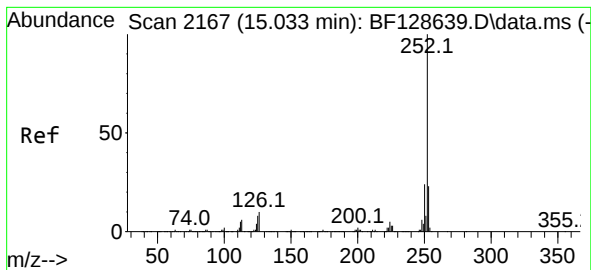
Reviewed By :Christian Giraldo 06/27/2022
Supervised By :Jagrut Upadhyay 06/27/2022



#87
Indeno(1,2,3-cd)pyrene
Concen: 4.776 ng
RT: 16.751 min Scan# 2459
Delta R.T. 0.006 min
Lab File: BF128983.D
Acq: 24 Jun 2022 12:07

Tgt Ion:276 Resp: 67328
Ion Ratio Lower Upper
276 100
138 18.0 21.1 31.7#
277 23.6 20.3 30.5





#88

Benzo(b)fluoranthene

Concen: 8.866 ng m

RT: 14.921 min Scan# 2115

Delta R.T. 0.000 min

Lab File: BF128983.D

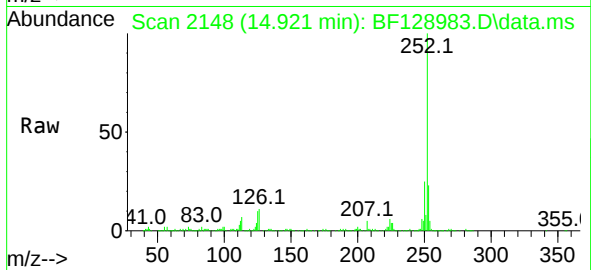
Acq: 24 Jun 2022 12:07

Instrument :

BNA_F

ClientSampleId :

QA-QC-COMP-XRDS010-22DL



Tgt Ion:252 Resp: 13250

Ion Ratio Lower Upper

252 100

253 22.5 17.7 26.5

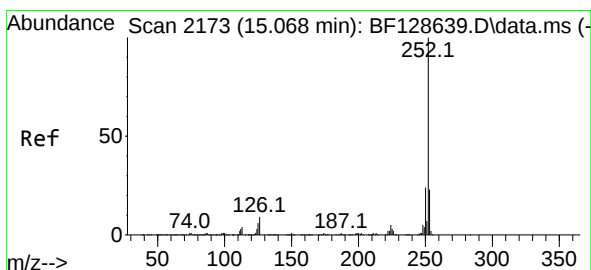
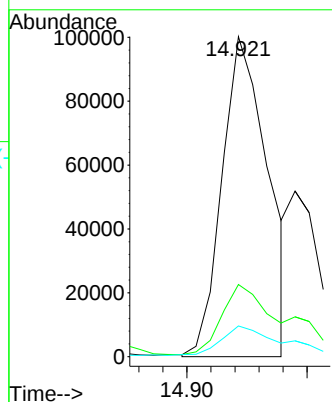
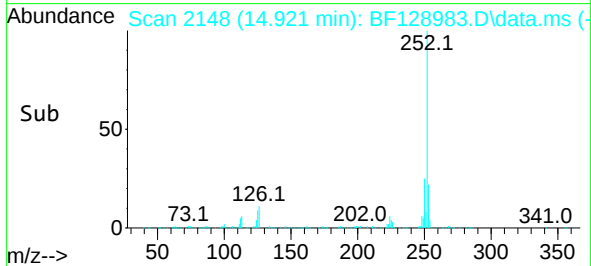
125 9.6 8.0 12.0

Manual Integrations

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Reviewed By :Christian Giraldo 06/27/2022

Supervised By :Jagrut Upadhyay 06/27/2022



#89

Benzo(k)fluoranthene

Concen: 3.174 ng m

RT: 14.945 min Scan# 2152

Delta R.T. -0.006 min

Lab File: BF128983.D

Acq: 24 Jun 2022 12:07

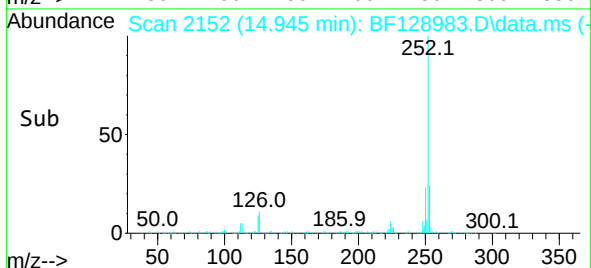
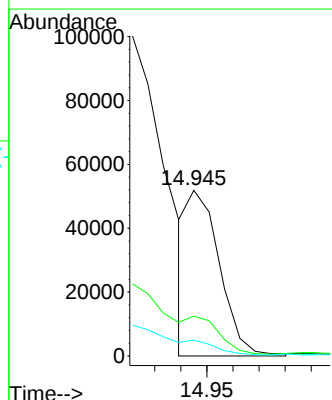
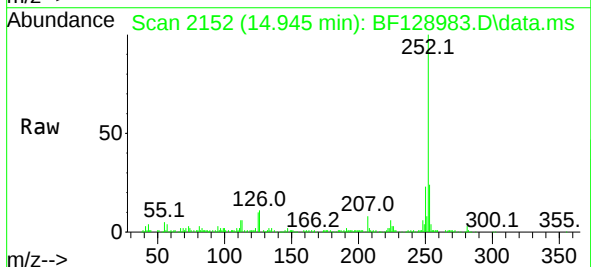
Tgt Ion:252 Resp: 44623

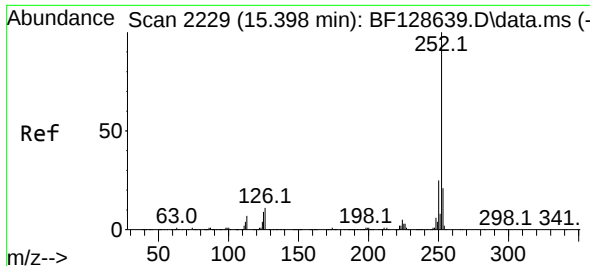
Ion Ratio Lower Upper

252 100

253 24.0 17.8 26.6

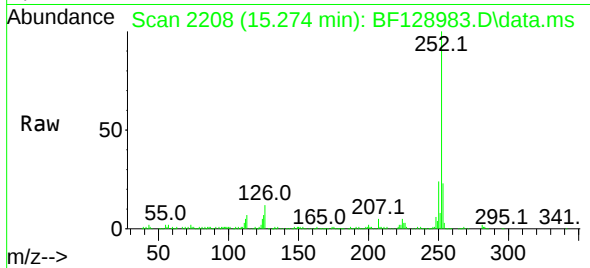
125 9.6 8.3 12.5





#90
Benzo(a)pyrene
Concen: 9.053 ng m
RT: 15.274 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF128983.D
Acq: 24 Jun 2022 12:07

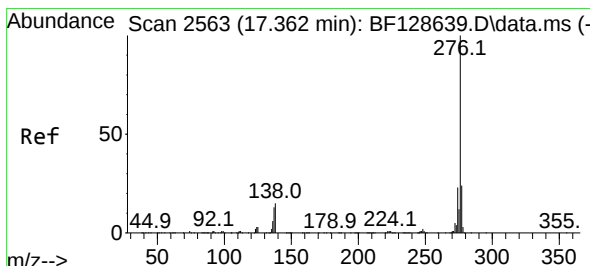
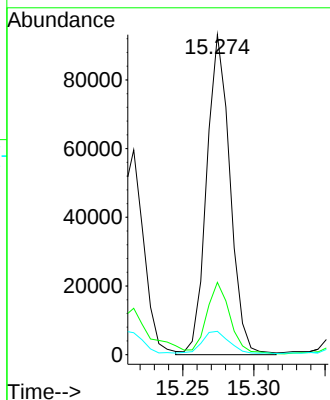
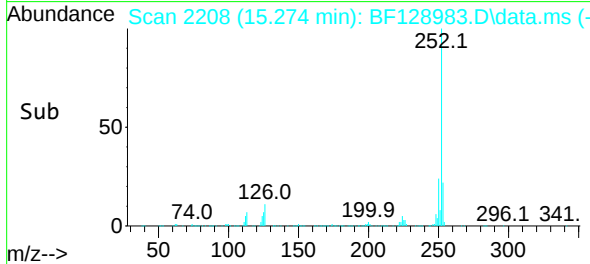
Instrument :
BNA_F
ClientSampleId :
QA-QC-COMP-XRDS010-22DL



Tgt Ion:252 Resp: 10634
Ion Ratio Lower Upper
252 100
253 22.6 17.0 25.6
125 7.3 8.8 13.2

Manual Integrations
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Reviewed By :Christian Giraldo 06/27/2022
Supervised By :Jagrut Upadhyay 06/27/2022



#92
Benzo(g,h,i)perylene
Concen: 5.938 ng m
RT: 17.174 min Scan# 2531
Delta R.T. 0.006 min
Lab File: BF128983.D
Acq: 24 Jun 2022 12:07

Tgt Ion:276 Resp: 68811
Ion Ratio Lower Upper
276 100
277 23.7 19.1 28.7
138 17.0 18.0 27.0#

