

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102721\
 Data File : BF125977.D
 Acq On : 27 Oct 2021 22:30
 Operator : JU/CG
 Sample : M4343-01
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 METRO-SP

Manual Integrations
 APPROVED

mohammad
 10/29/2021 2:23:00 PM

Quant Time: Oct 28 09:01:27 2021
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102521.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 25 18:49:16 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.857	152	173226	20.000	ng	-0.01
21) Naphthalene-d8	8.139	136	691471	20.000	ng	#-0.02
39) Acenaphthene-d10	9.892	164	375615	20.000	ng	-0.02
64) Phenanthrene-d10	11.380	188	594757	20.000	ng	-0.01
76) Chrysene-d12	14.016	240	400894	20.000	ng	-0.02
86) Perylene-d12	15.480	264	382555	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.469	112	1054125	90.641	ng	-0.01
7) Phenol-d6	6.481	99	1321757	82.864	ng	-0.01
23) Nitrobenzene-d5	7.416	82	867077	64.771	ng	-0.02
42) 2,4,6-Tribromophenol	10.681	330	263088	80.347	ng	-0.01
45) 2-Fluorobiphenyl	9.216	172	1365295	64.279	ng	-0.02
79) Terphenyl-d14	12.963	244	1128708	46.054	ng	-0.02
Target Compounds						Qvalue
38) 1-Methylnaphthalene	8.951	142	58742	2.689	ng	92
46) 1,1'-Biphenyl	9.316	154	55785	2.028	ng	96
52) Acenaphthene	9.928	154	1008445	49.524	ng	99
55) Dibenzofuran	10.098	168	891525	29.313	ng	94
58) Fluorene	10.439	166	1037336	55.160	ng	100
71) Phenanthrene	11.410	178	3329834	107.897	ng	94
72) Anthracene	11.457	178	677417	21.985	ng	98
73) Carbazole	11.604	167	253541	8.656	ng	98
75) Fluoranthene	12.598	202	2548825	81.927	ng	98
78) Pyrene	12.822	202	2018181	54.096	ng	95
81) Benzo(a)anthracene	14.004	228	598394	22.178	ng	97
83) Chrysene	14.039	228	646276	23.674	ng	98
87) Indeno(1,2,3-cd)pyrene	16.921	276	71720	2.602	ng	# 90
88) Benzo(b)fluoranthene	15.051	252	488028m	19.327	ng	
89) Benzo(k)fluoranthene	15.080	252	170715m	7.038	ng	
90) Benzo(a)pyrene	15.415	252	231943	11.378	ng	99
92) Benzo(g,h,i)perylene	17.357	276	56259	2.412	ng	95

mohammad

10/29/2021 2:23:00 PM

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

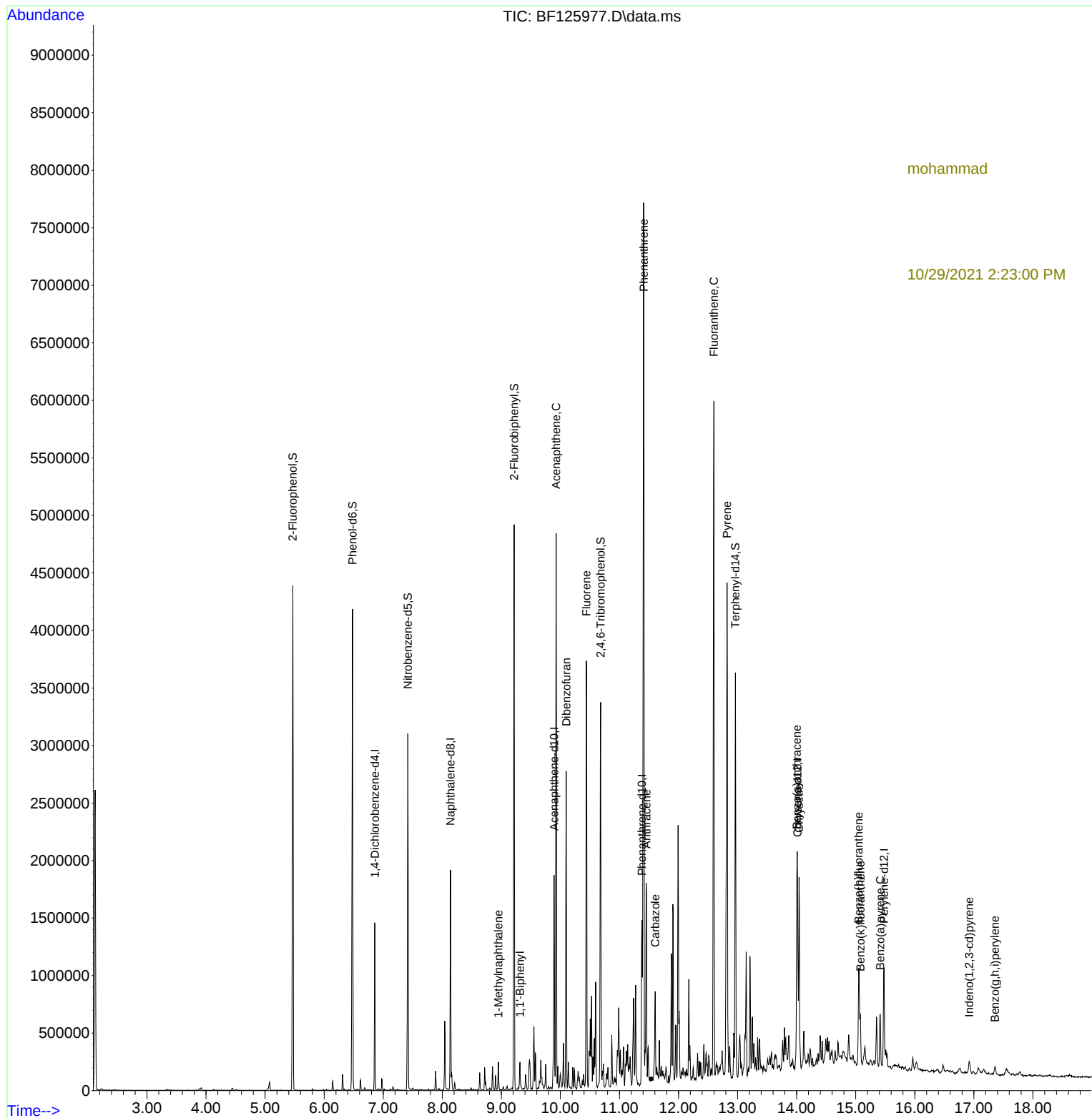
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102721\
Data File : BF125977.D
Acq On : 27 Oct 2021 22:30
Operator : JU/CG
Sample : M4343-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
METRO-SP

Manual Integrations
APPROVED

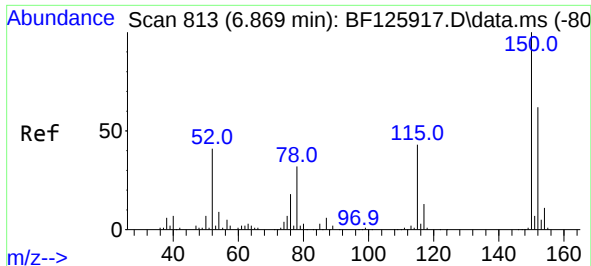
mohammad
10/29/2021 2:23:00 PM

Quant Time: Oct 28 09:01:27 2021
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102521.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 25 18:49:16 2021
Response via : Initial Calibration



mohammad

10/29/2021 2:23:00 PM



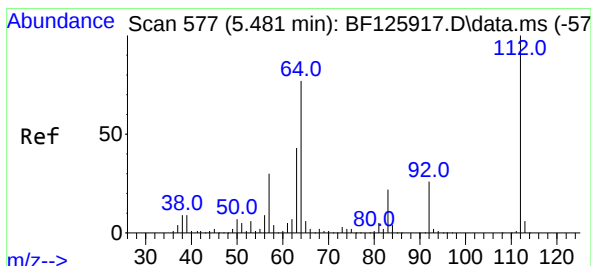
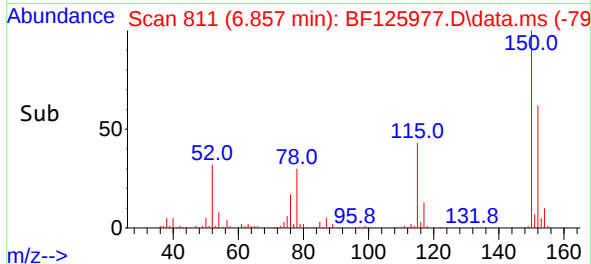
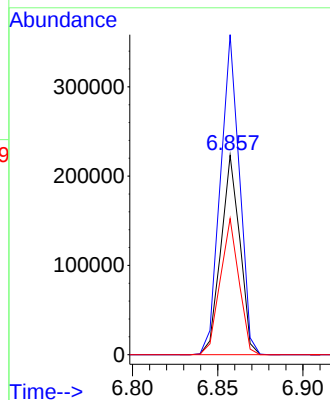
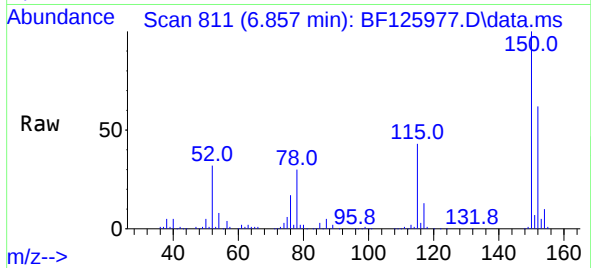
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.857 min Scan# 811
Delta R.T. -0.012 min
Lab File: BF125977.D
Acq: 27 Oct 2021 22:30

Tgt Ion:152 Resp: 173226
Ion Ratio Lower Upper
152 100
150 160.5 117.6 176.4
115 68.3 47.1 70.7

Instrument :
BNA_F
ClientSampleId :
METRO-SP

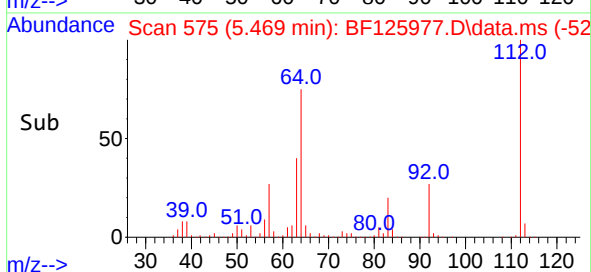
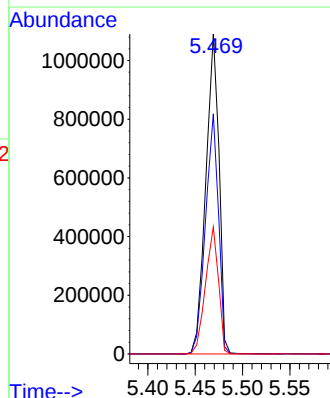
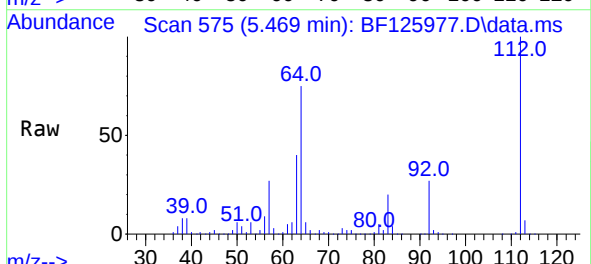
Manual Integrations
APPROVED

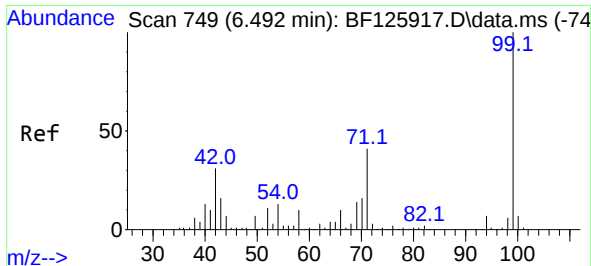
mohammad
10/29/2021 2:23:00 PM



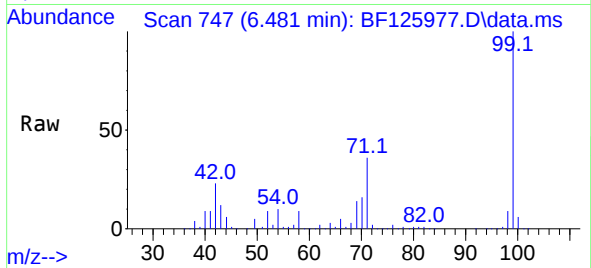
#5
2-Fluorophenol
Concen: 90.641 ng
RT: 5.469 min Scan# 575
Delta R.T. -0.012 min
Lab File: BF125977.D
Acq: 27 Oct 2021 22:30

Tgt Ion:112 Resp: 1054125
Ion Ratio Lower Upper
112 100
64 75.0 44.2 66.2#
63 39.7 26.2 39.2#

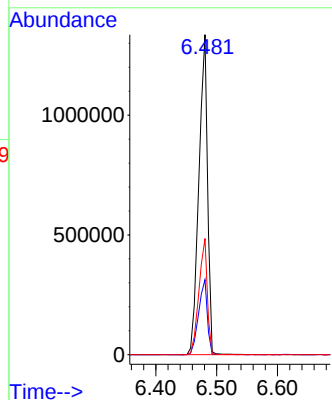




#7
Phenol-d6
Concen: 82.864 ng
RT: 6.481 min Scan# 747
Delta R.T. -0.012 min
Lab File: BF125977.D
Acq: 27 Oct 2021 22:30



Tgt Ion: 99 Resp: 1321757
Ion Ratio Lower Upper
99 100
42 23.4 23.5 35.3#
71 36.3 25.6 38.4



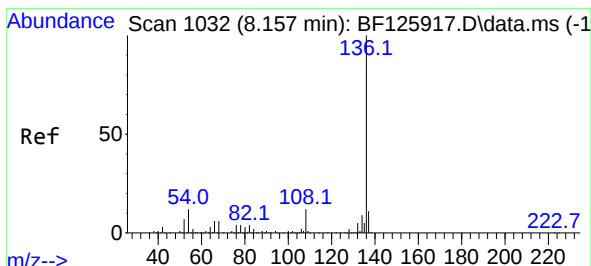
Instrument :
BNA_F
ClientSampleId :
METRO-SP

Manual Integrations
APPROVED

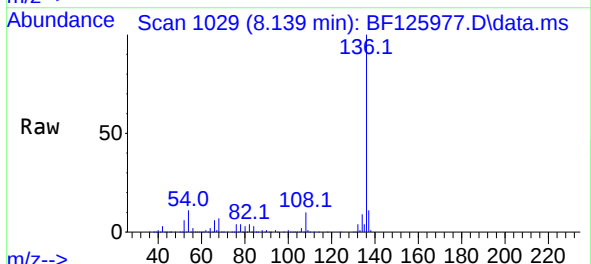
mohammad
10/29/2021 2:23:00 PM

mohammad

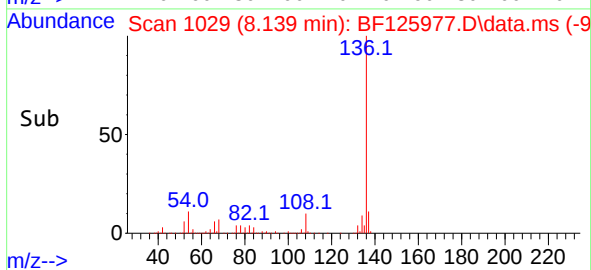
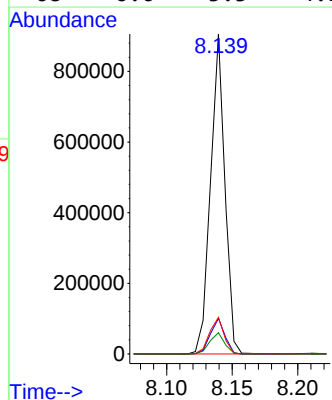
10/29/2021 2:23:00 PM

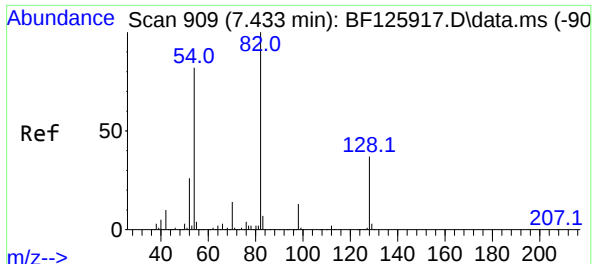


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.139 min Scan# 1029
Delta R.T. -0.018 min
Lab File: BF125977.D
Acq: 27 Oct 2021 22:30



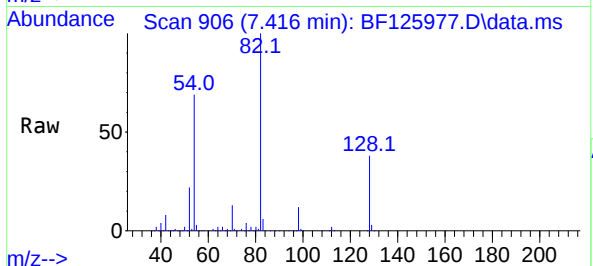
Tgt Ion: 136 Resp: 691471
Ion Ratio Lower Upper
136 100
137 11.1 9.8 14.6
54 11.5 6.4 9.6#
68 6.6 3.3 4.9#





#23
Nitrobenzene-d5
Concen: 64.771 ng
RT: 7.416 min Scan# 906
Delta R.T. -0.017 min
Lab File: BF125977.D
Acq: 27 Oct 2021 22:30

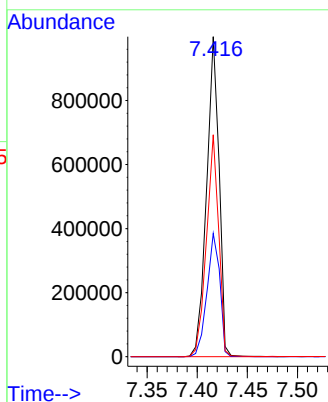
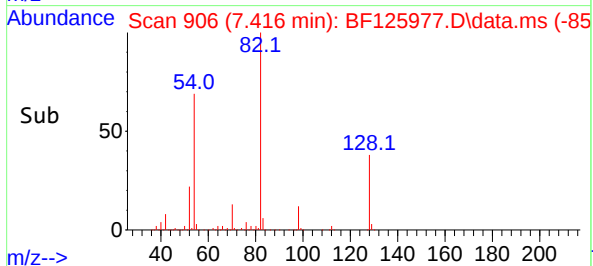
Instrument :
BNA_F
ClientSampleId :
METRO-SP



Tgt Ion: 82 Resp: 867077
Ion Ratio Lower Upper
82 100
128 38.5 40.6 60.8#
54 69.3 49.6 74.4

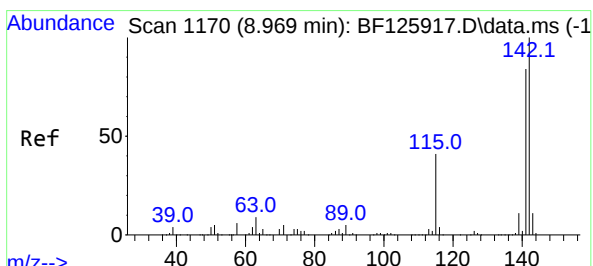
Manual Integrations
APPROVED

mohammad
10/29/2021 2:23:00 PM

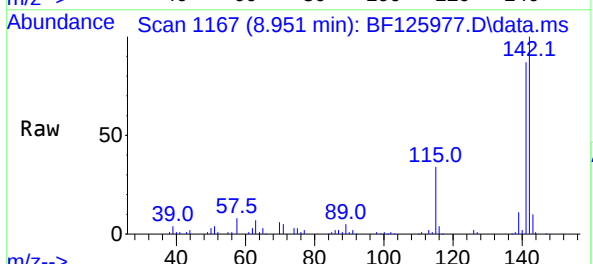


mohammad

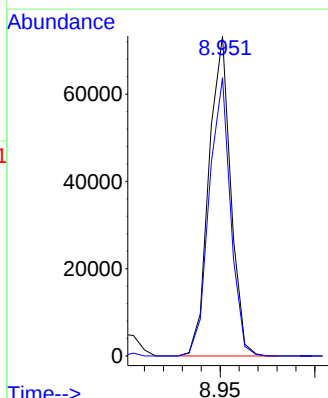
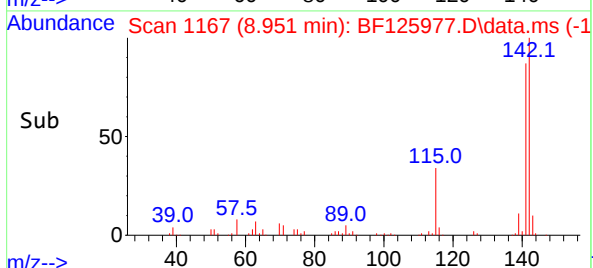
10/29/2021 2:23:00 PM

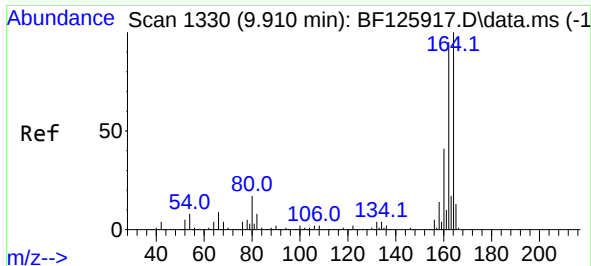


#38
1-Methylnaphthalene
Concen: 2.689 ng
RT: 8.951 min Scan# 1167
Delta R.T. -0.017 min
Lab File: BF125977.D
Acq: 27 Oct 2021 22:30

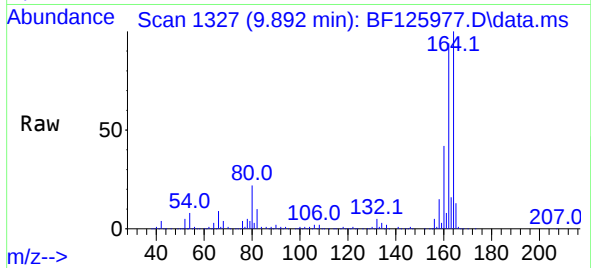


Tgt Ion: 142 Resp: 58742
Ion Ratio Lower Upper
142 100
141 87.0 76.0 114.0

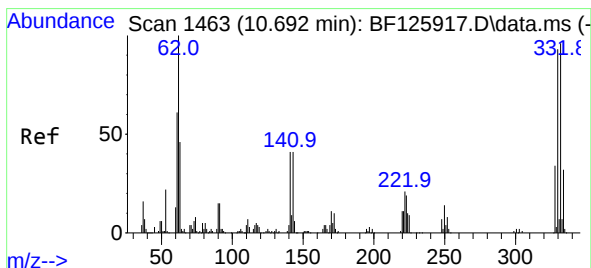
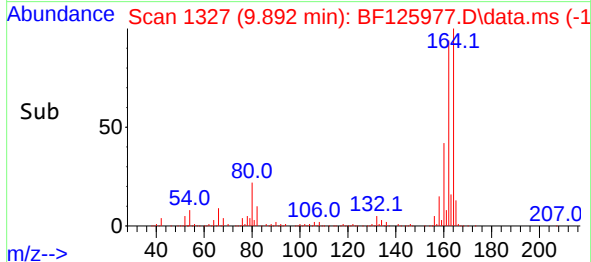
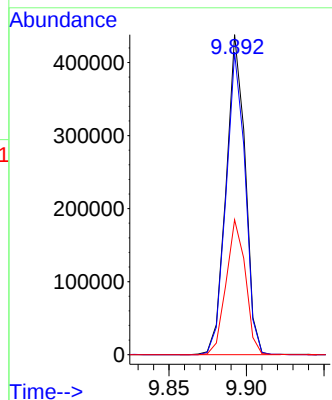




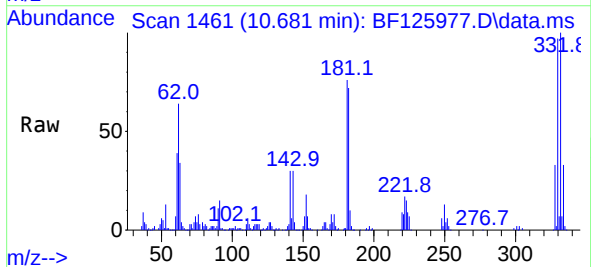
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.892 min Scan# 1327
Delta R.T. -0.018 min
Lab File: BF125977.D
Acq: 27 Oct 2021 22:30



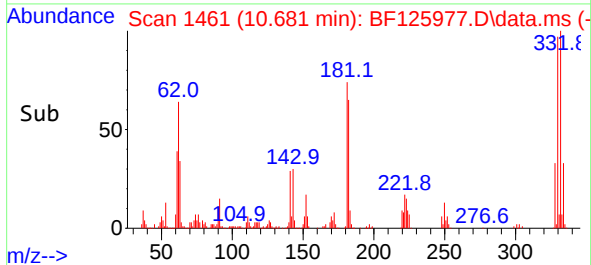
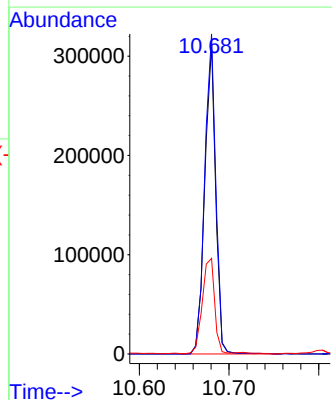
Tgt Ion:164 Resp: 375615
Ion Ratio Lower Upper
164 100
162 94.5 81.3 121.9
160 42.1 38.0 57.0



#42
2,4,6-Tribromophenol
Concen: 80.347 ng
RT: 10.681 min Scan# 1461
Delta R.T. -0.012 min
Lab File: BF125977.D
Acq: 27 Oct 2021 22:30



Tgt Ion:330 Resp: 263088
Ion Ratio Lower Upper
330 100
332 104.9 76.2 114.4
141 34.5 44.6 66.8#



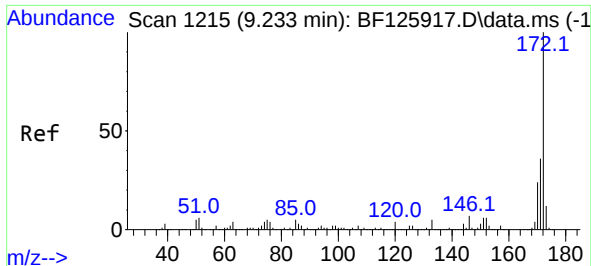
Instrument :
BNA_F
ClientSampleId :
METRO-SP

Manual Integrations
APPROVED

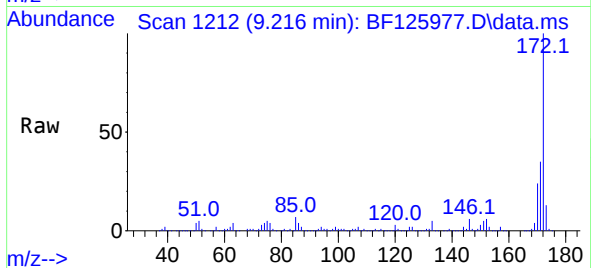
mohammad
10/29/2021 2:23:00 PM

mohammad

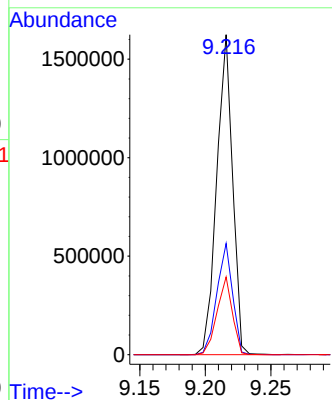
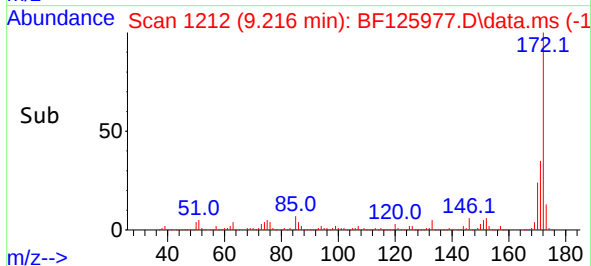
10/29/2021 2:23:00 PM



#45
2-Fluorobiphenyl
Concen: 64.279 ng
RT: 9.216 min Scan# 1212
Delta R.T. -0.017 min
Lab File: BF125977.D
Acq: 27 Oct 2021 22:30



Tgt Ion:172 Resp: 1365295
Ion Ratio Lower Upper
172 100
171 34.8 26.5 39.7
170 24.3 18.8 28.2



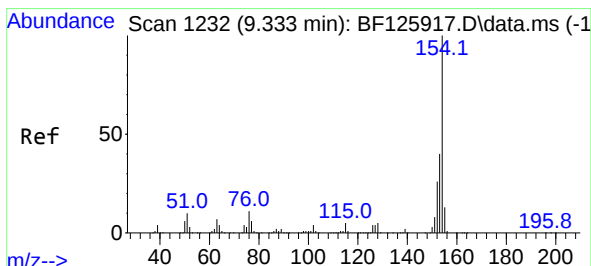
Instrument :
BNA_F
ClientSampleId :
METRO-SP

Manual Integrations
APPROVED

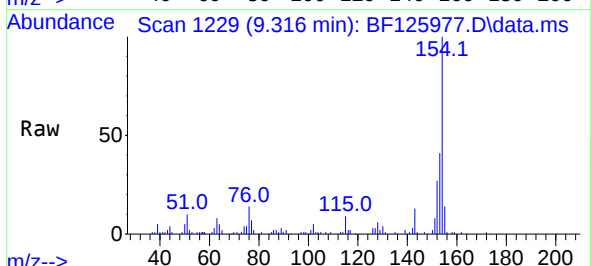
mohammad
10/29/2021 2:23:00 PM

mohammad

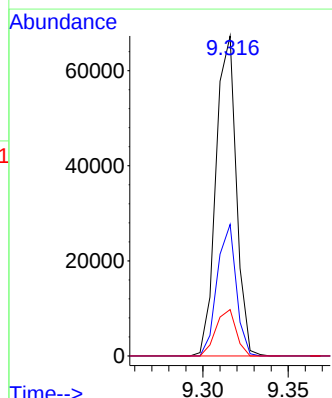
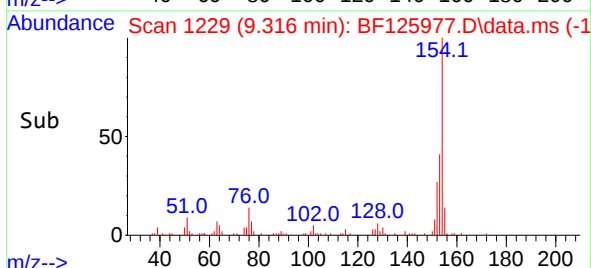
10/29/2021 2:23:00 PM

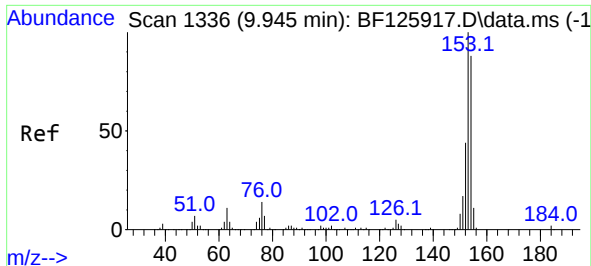


#46
1,1'-Biphenyl
Concen: 2.028 ng
RT: 9.316 min Scan# 1229
Delta R.T. -0.017 min
Lab File: BF125977.D
Acq: 27 Oct 2021 22:30



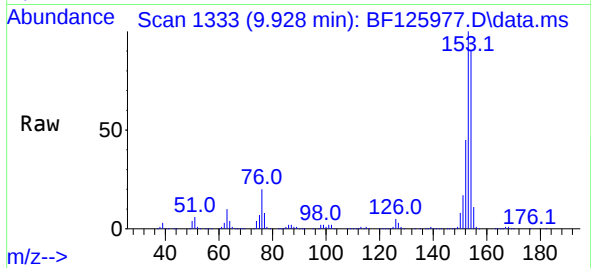
Tgt Ion:154 Resp: 55785
Ion Ratio Lower Upper
154 100
153 41.1 20.0 60.0
76 14.5 0.0 30.3





#52
Acenaphthene
Concen: 49.524 ng
RT: 9.928 min Scan# 1333
Delta R.T. -0.017 min
Lab File: BF125977.D
Acq: 27 Oct 2021 22:30

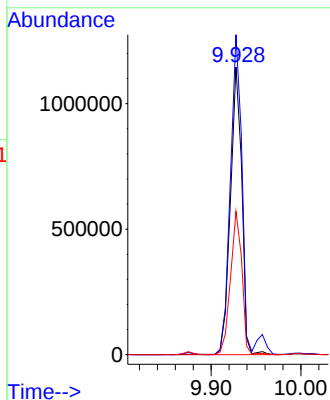
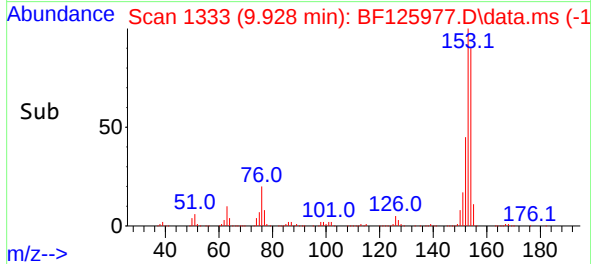
Instrument :
BNA_F
ClientSampleId :
METRO-SP



Tgt Ion:154 Resp: 1008445
Ion Ratio Lower Upper
154 100
153 111.3 89.4 134.2
152 49.8 40.5 60.7

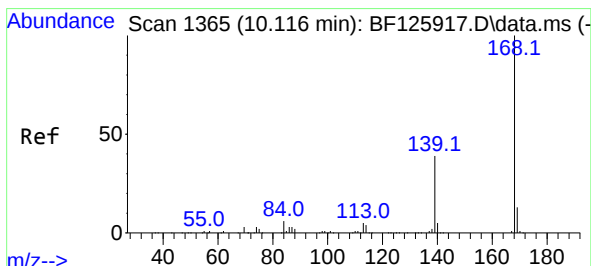
Manual Integrations
APPROVED

mohammad
10/29/2021 2:23:00 PM

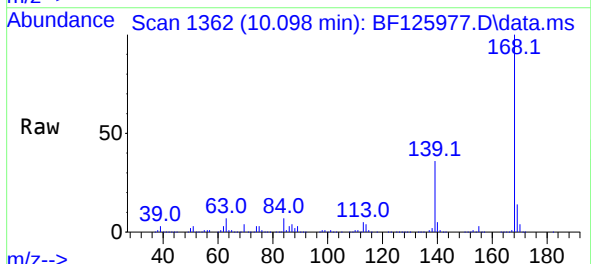


mohammad

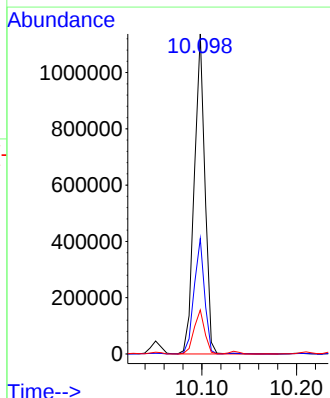
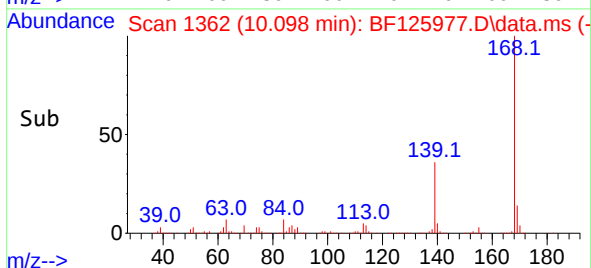
10/29/2021 2:23:00 PM

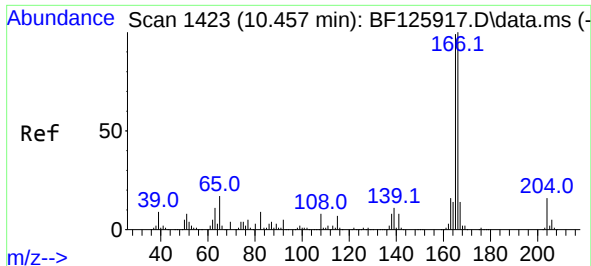


#55
Dibenzofuran
Concen: 29.313 ng
RT: 10.098 min Scan# 1362
Delta R.T. -0.017 min
Lab File: BF125977.D
Acq: 27 Oct 2021 22:30



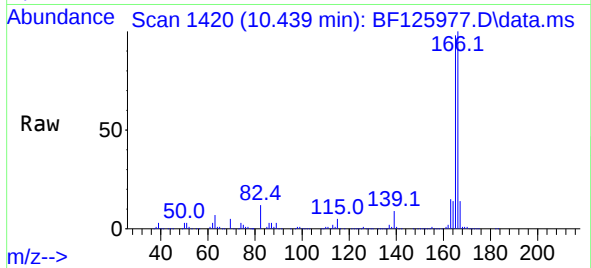
Tgt Ion:168 Resp: 891525
Ion Ratio Lower Upper
168 100
139 36.0 32.7 49.1
169 13.8 11.2 16.8





#58
Fluorene
Concen: 55.160 ng
RT: 10.439 min Scan# 1420
Delta R.T. -0.018 min
Lab File: BF125977.D
Acq: 27 Oct 2021 22:30

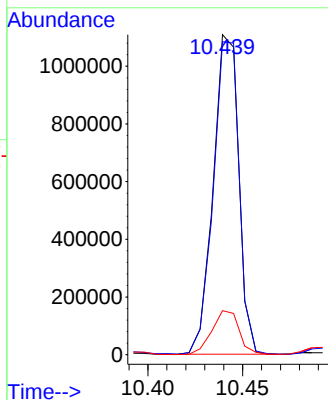
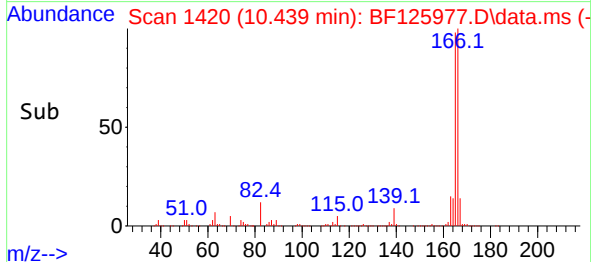
Instrument :
BNA_F
ClientSampleId :
METRO-SP



Tgt Ion:166 Resp: 1037336
Ion Ratio Lower Upper
166 100
165 97.8 78.1 117.1
167 13.8 11.1 16.7

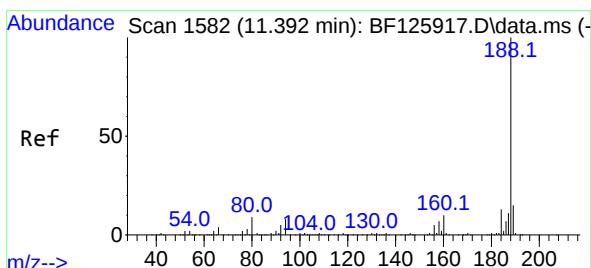
Manual Integrations
APPROVED

mohammad
10/29/2021 2:23:00 PM

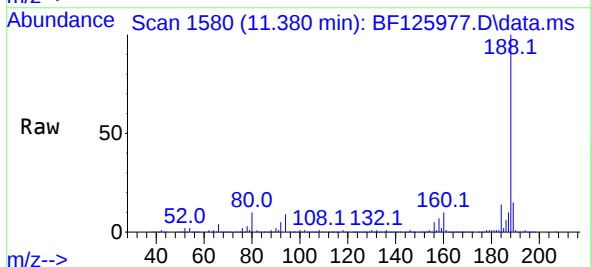


mohammad

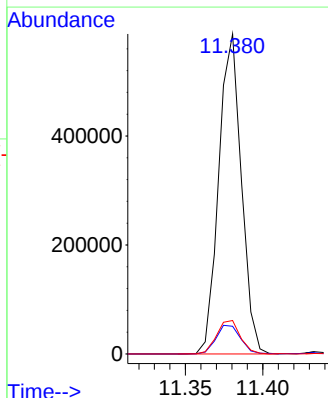
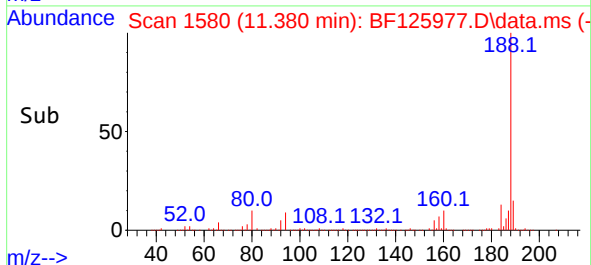
10/29/2021 2:23:00 PM

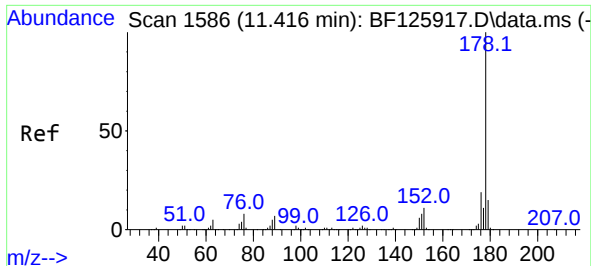


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.380 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BF125977.D
Acq: 27 Oct 2021 22:30



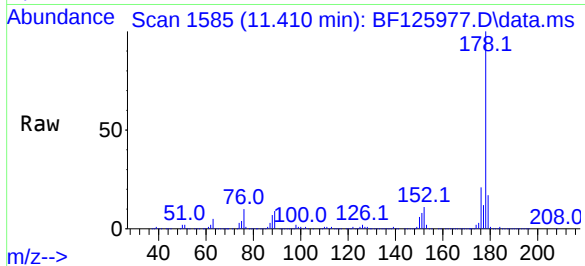
Tgt Ion:188 Resp: 594757
Ion Ratio Lower Upper
188 100
94 8.6 6.7 10.1
80 10.5 7.5 11.3





#71
Phenanthrene
Concen: 107.897 ng
RT: 11.410 min Scan# 1585
Delta R.T. -0.006 min
Lab File: BF125977.D
Acq: 27 Oct 2021 22:30

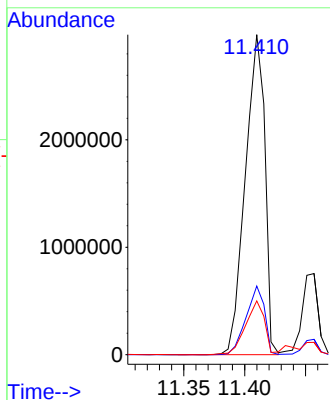
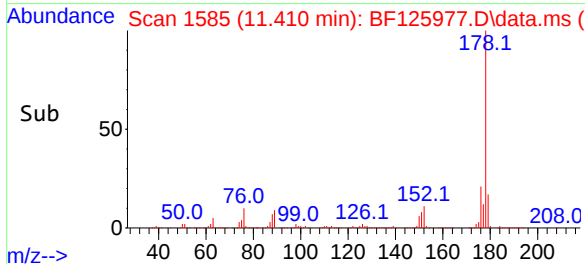
Instrument :
BNA_F
ClientSampled :
METRO-SP



Tgt Ion:178 Resp: 3329834
Ion Ratio Lower Upper
178 100
176 21.5 14.7 22.1
179 16.8 11.5 17.3

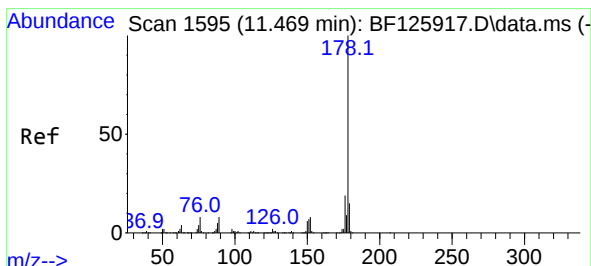
Manual Integrations
APPROVED

mohammad
10/29/2021 2:23:00 PM

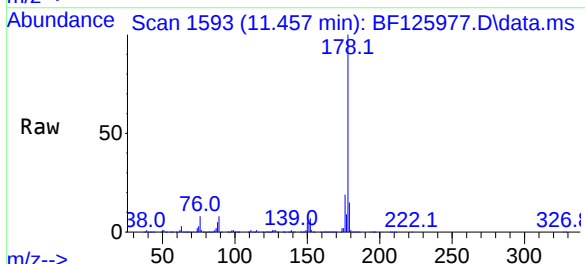


mohammad

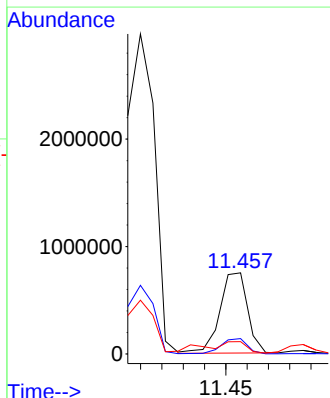
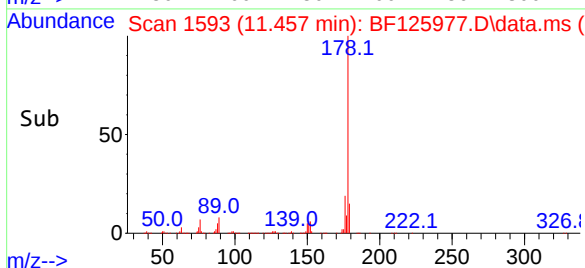
10/29/2021 2:23:00 PM

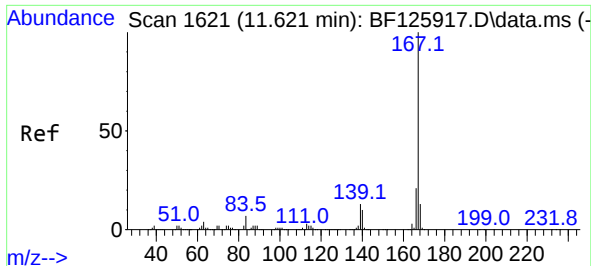


#72
Anthracene
Concen: 21.985 ng
RT: 11.457 min Scan# 1593
Delta R.T. -0.012 min
Lab File: BF125977.D
Acq: 27 Oct 2021 22:30



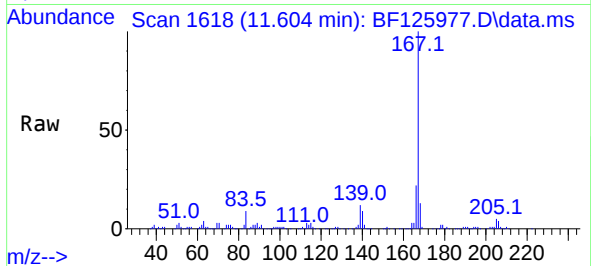
Tgt Ion:178 Resp: 677417
Ion Ratio Lower Upper
178 100
176 19.0 14.3 21.5
179 15.1 12.2 18.4





#73
 Carbazole
 Concen: 8.656 ng
 RT: 11.604 min Scan# 1618
 Delta R.T. -0.017 min
 Lab File: BF125977.D
 Acq: 27 Oct 2021 22:30

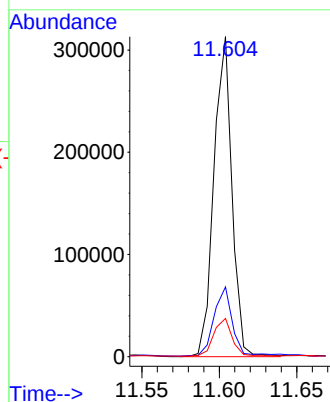
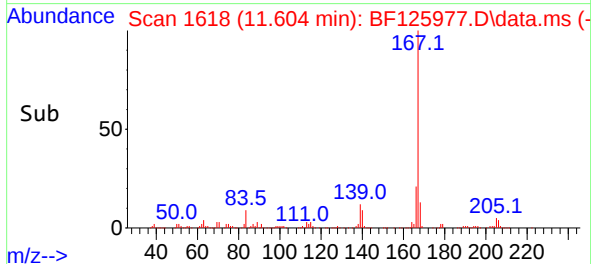
Instrument :
 BNA_F
 ClientSampleId :
 METRO-SP



Tgt Ion:167 Resp: 253541
 Ion Ratio Lower Upper
 167 100
 166 21.8 17.4 26.0
 139 12.0 11.0 16.4

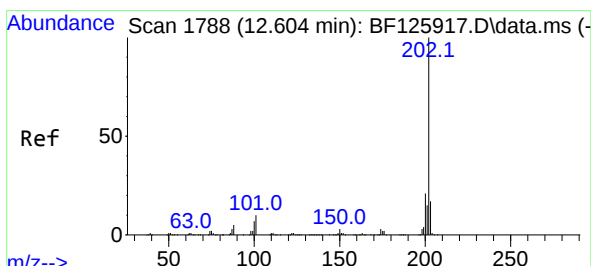
Manual Integrations
 APPROVED

mohammad
 10/29/2021 2:23:00 PM

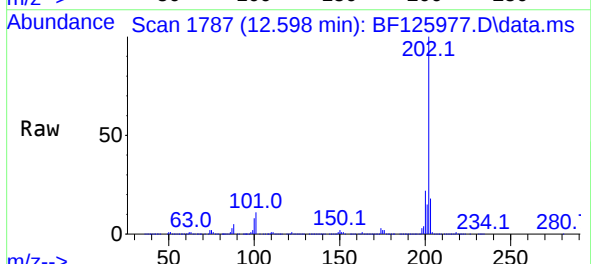


mohammad

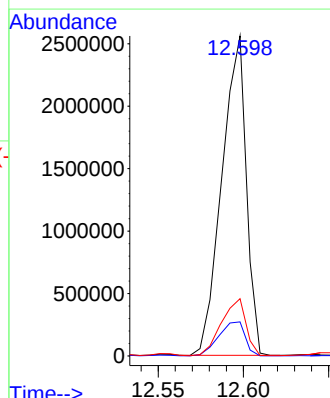
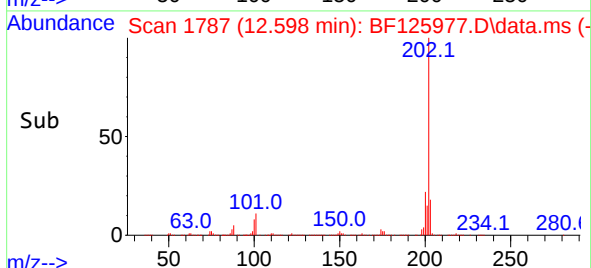
10/29/2021 2:23:00 PM

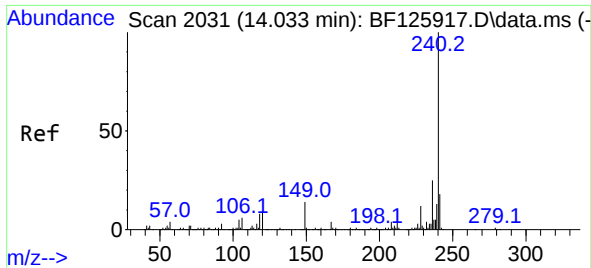


#75
 Fluoranthene
 Concen: 81.927 ng
 RT: 12.598 min Scan# 1787
 Delta R.T. -0.006 min
 Lab File: BF125977.D
 Acq: 27 Oct 2021 22:30



Tgt Ion:202 Resp: 2548825
 Ion Ratio Lower Upper
 202 100
 101 10.6 0.0 30.7
 203 17.9 0.0 36.3





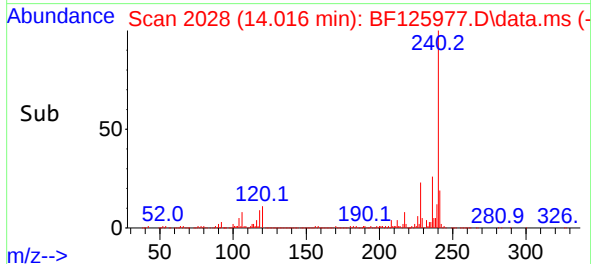
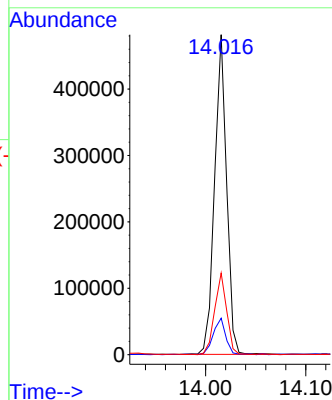
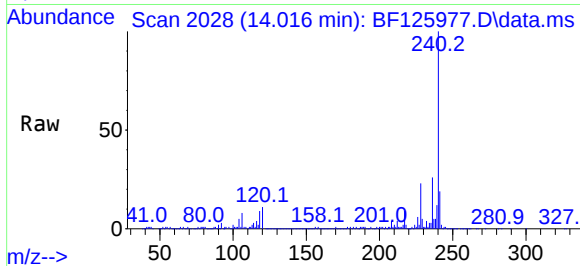
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.016 min Scan# 2028
Delta R.T. -0.017 min
Lab File: BF125977.D
Acq: 27 Oct 2021 22:30

Tgt Ion:	240	Resp:	400894
Ion Ratio	Lower	Upper	
240	100		
120	11.4	10.8	16.2
236	25.5	21.6	32.4

Instrument :
BNA_F
ClientSampleId :
METRO-SP

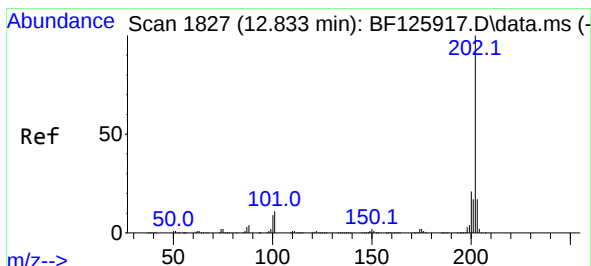
Manual Integrations
APPROVED

mohammad
10/29/2021 2:23:00 PM



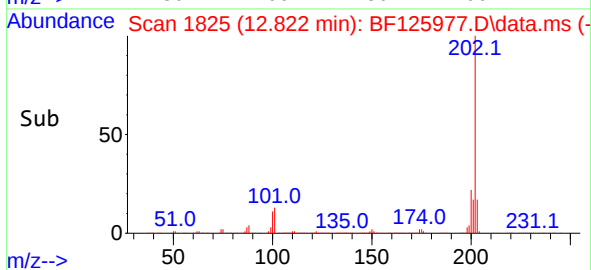
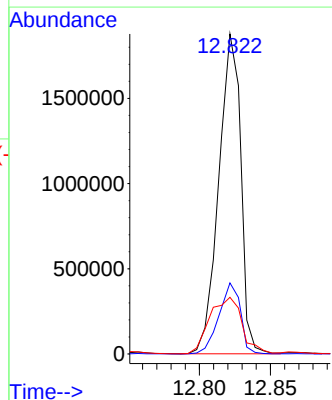
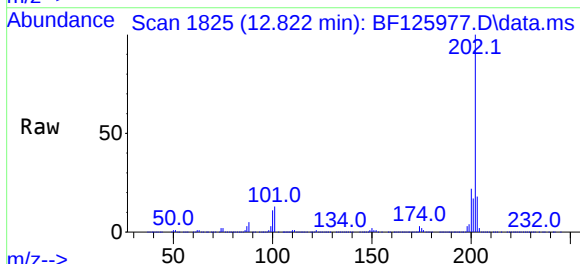
mohammad

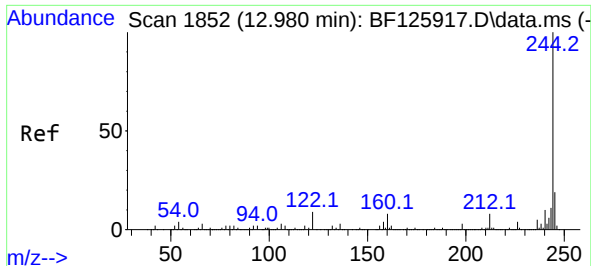
10/29/2021 2:23:00 PM



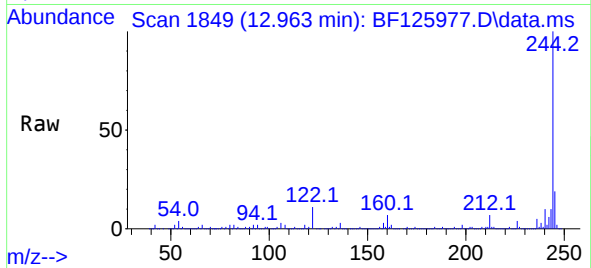
#78
Pyrene
Concen: 54.096 ng
RT: 12.822 min Scan# 1825
Delta R.T. -0.012 min
Lab File: BF125977.D
Acq: 27 Oct 2021 22:30

Tgt Ion:	202	Resp:	2018181
Ion Ratio	Lower	Upper	
202	100		
200	22.2	15.3	22.9
203	17.7	13.4	20.0

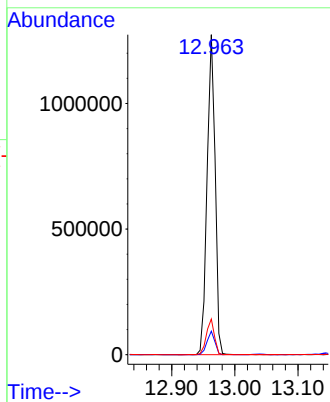
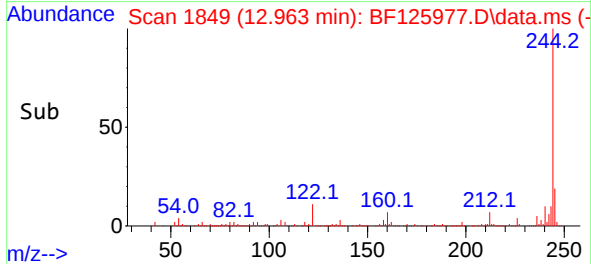




#79
Terphenyl-d14
Concen: 46.054 ng
RT: 12.963 min Scan# 1849
Delta R.T. -0.017 min
Lab File: BF125977.D
Acq: 27 Oct 2021 22:30



Tgt Ion:244 Resp: 1128708
Ion Ratio Lower Upper
244 100
212 7.4 5.9 8.9
122 11.2 9.0 13.4



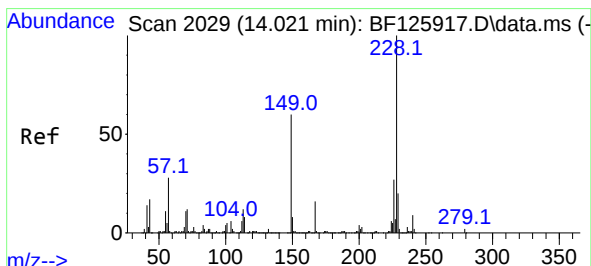
Instrument :
BNA_F
ClientSampleId :
METRO-SP

Manual Integrations
APPROVED

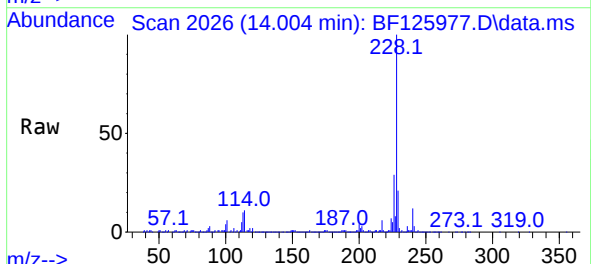
mohammad
10/29/2021 2:23:00 PM

mohammad

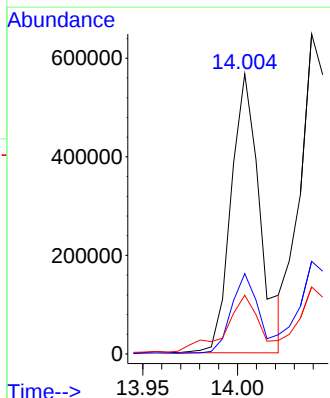
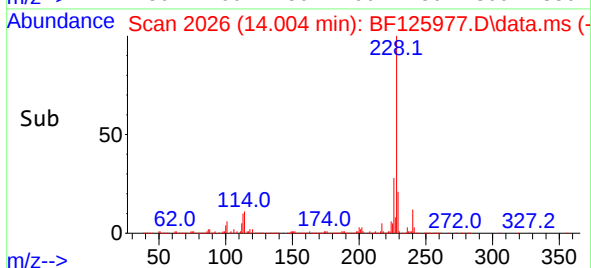
10/29/2021 2:23:00 PM

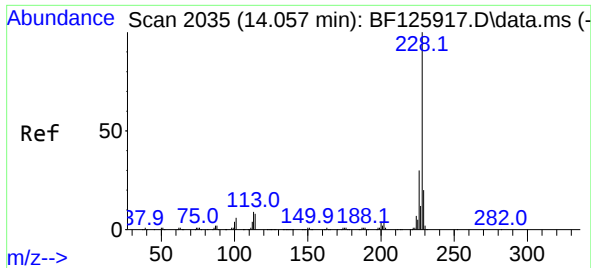


#81
Benzo(a)anthracene
Concen: 22.178 ng
RT: 14.004 min Scan# 2026
Delta R.T. -0.017 min
Lab File: BF125977.D
Acq: 27 Oct 2021 22:30



Tgt Ion:228 Resp: 598394
Ion Ratio Lower Upper
228 100
226 28.7 21.6 32.4
229 21.0 15.6 23.4





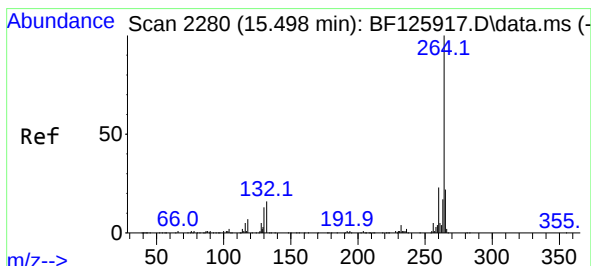
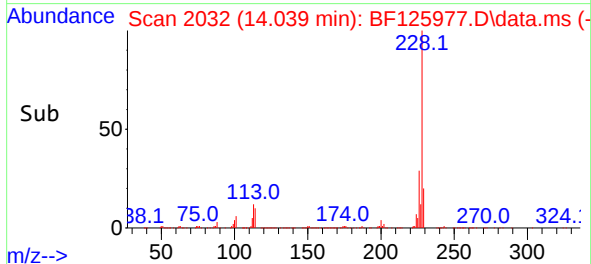
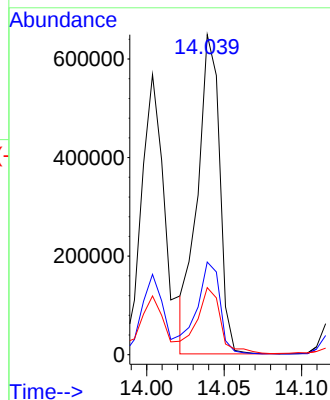
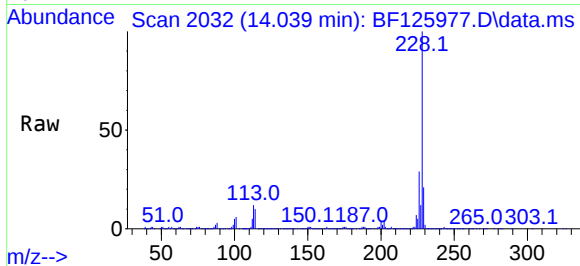
#83
Chrysene
Concen: 23.674 ng
RT: 14.039 min Scan# 2032
Delta R.T. -0.017 min
Lab File: BF125977.D
Acq: 27 Oct 2021 22:30

Tgt Ion:	228	Resp:	646276
Ion Ratio	Lower	Upper	
228	100		
226	29.0	22.6	34.0
229	21.0	15.9	23.9

Instrument :
BNA_F
ClientSampled :
METRO-SP

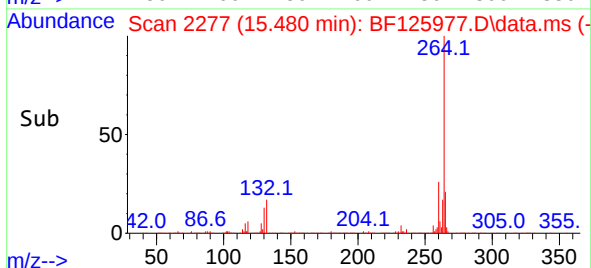
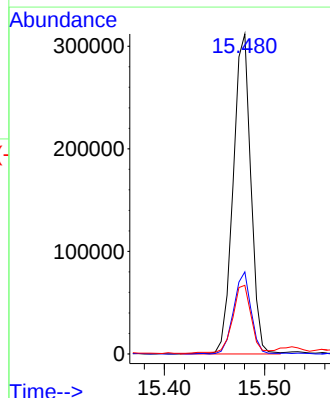
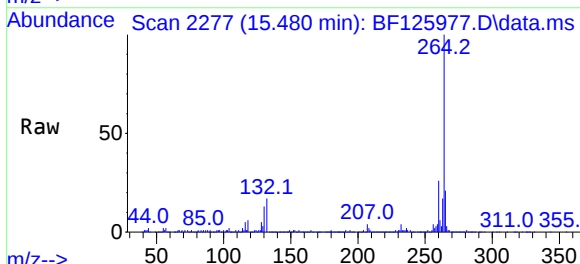
Manual Integrations
APPROVED

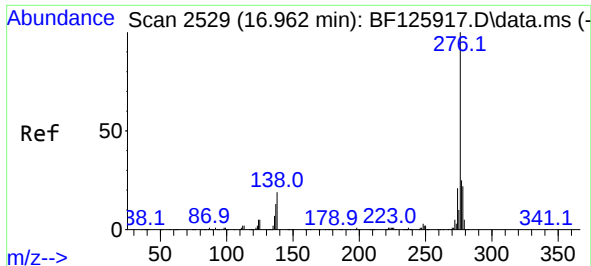
mohammad
10/29/2021 2:23:00 PM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.480 min Scan# 2277
Delta R.T. -0.017 min
Lab File: BF125977.D
Acq: 27 Oct 2021 22:30

Tgt Ion:	264	Resp:	382555
Ion Ratio	Lower	Upper	
264	100		
260	25.7	19.6	29.4
265	21.4	17.2	25.8





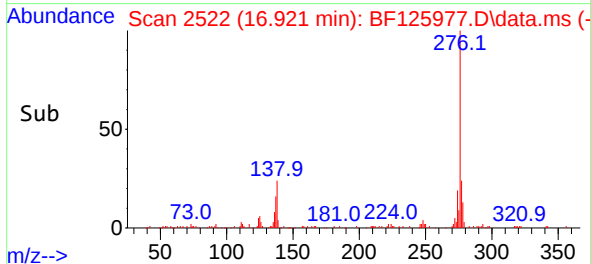
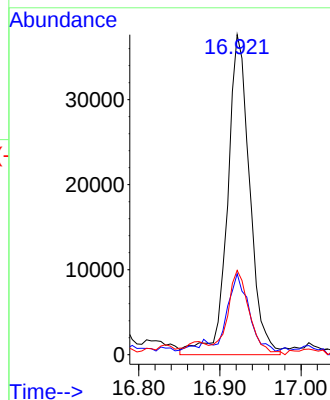
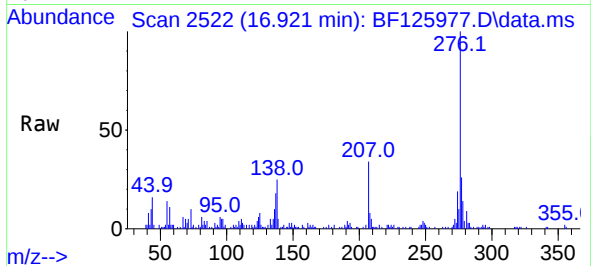
#87
 Indeno(1,2,3-cd)pyrene
 Concen: 2.602 ng
 RT: 16.921 min Scan# 2522
 Delta R.T. -0.041 min
 Lab File: BF125977.D
 Acq: 27 Oct 2021 22:30

Tgt Ion: 276 Resp: 71720
 Ion Ratio Lower Upper
 276 100
 138 22.5 24.1 36.1#
 277 25.9 18.8 28.2

Instrument :
 BNA_F
 ClientSampleId :
 METRO-SP

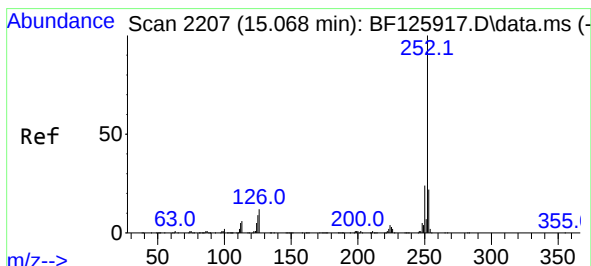
Manual Integrations
 APPROVED

mohammad
 10/29/2021 2:23:00 PM



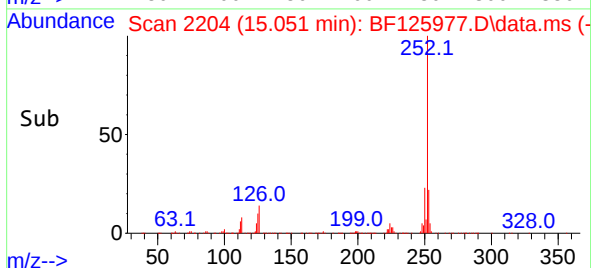
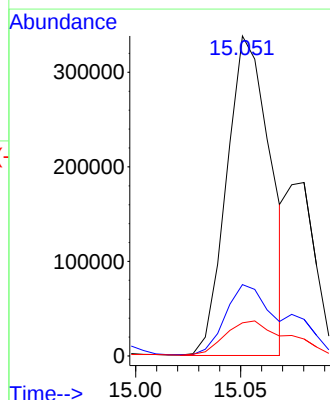
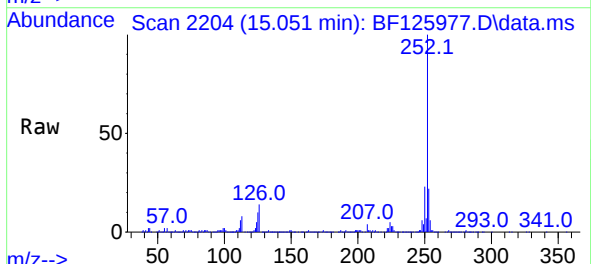
mohammad

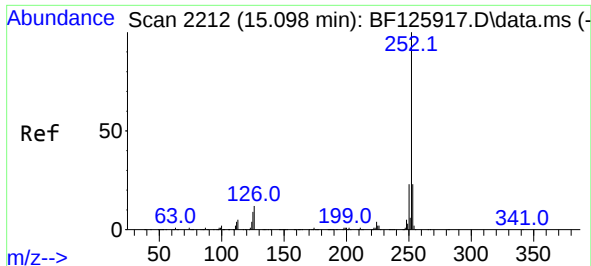
10/29/2021 2:23:00 PM



#88
 Benzo(b)fluoranthene
 Concen: 19.327 ng m
 RT: 15.051 min Scan# 2204
 Delta R.T. -0.017 min
 Lab File: BF125977.D
 Acq: 27 Oct 2021 22:30

Tgt Ion: 252 Resp: 488028
 Ion Ratio Lower Upper
 252 100
 253 22.3 16.8 25.2
 125 10.3 9.8 14.8





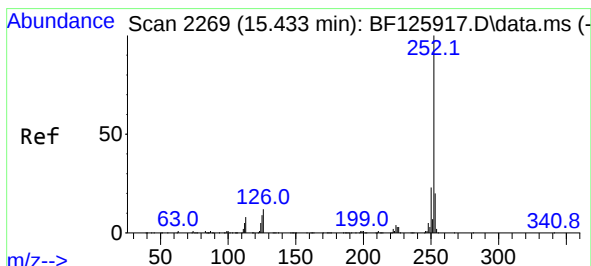
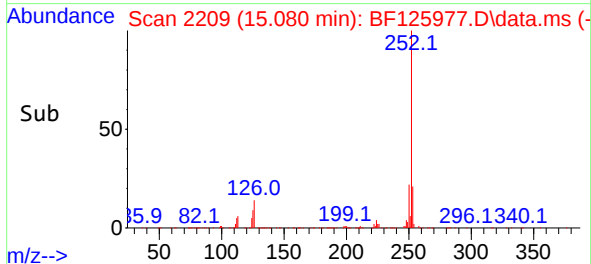
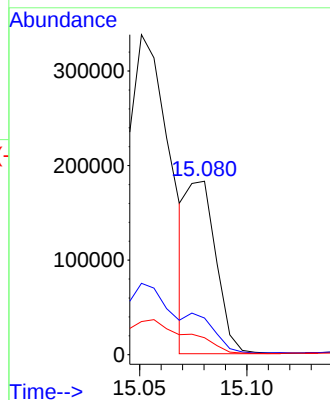
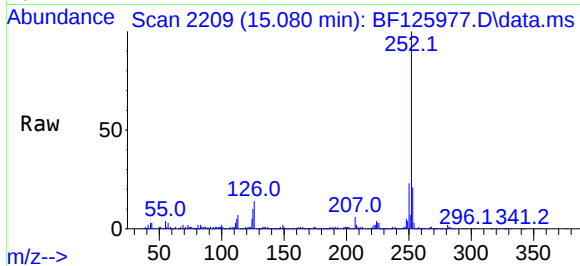
#89
Benzo(k)fluoranthene
Concen: 7.038 ng m
RT: 15.080 min Scan# 2209
Delta R.T. -0.017 min
Lab File: BF125977.D
Acq: 27 Oct 2021 22:30

Tgt Ion:	252	Resp:	170715
Ion Ratio	Lower	Upper	
252	100		
253	21.1	17.8	26.8
125	9.8	7.2	10.8

Instrument :
BNA_F
ClientSampleId :
METRO-SP

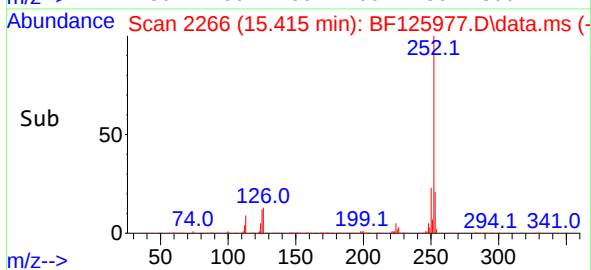
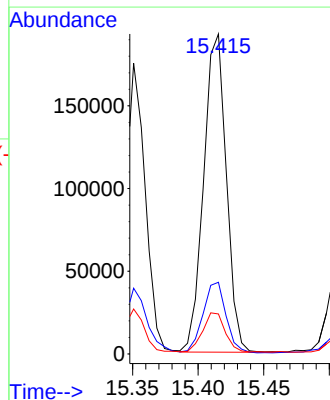
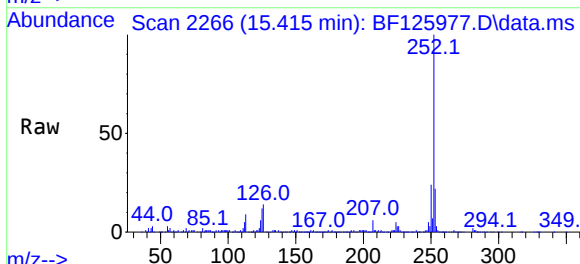
Manual Integrations
APPROVED

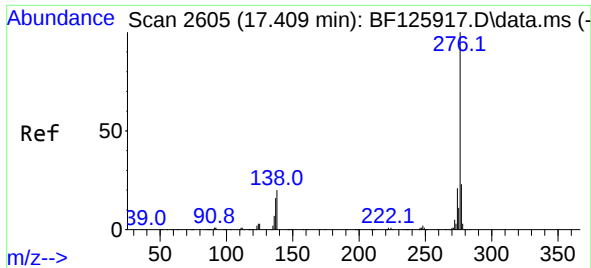
mohammad
10/29/2021 2:23:00 PM



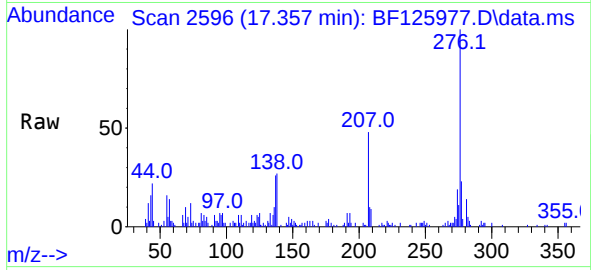
#90
Benzo(a)pyrene
Concen: 11.378 ng
RT: 15.415 min Scan# 2266
Delta R.T. -0.017 min
Lab File: BF125977.D
Acq: 27 Oct 2021 22:30

Tgt Ion:	252	Resp:	231943
Ion Ratio	Lower	Upper	
252	100		
253	22.4	18.4	27.6
125	12.5	9.9	14.9

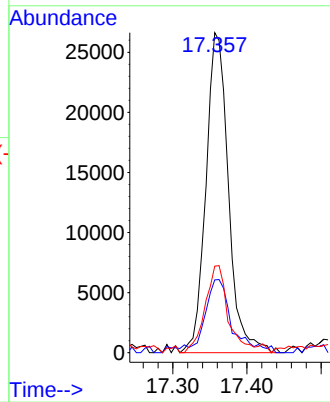
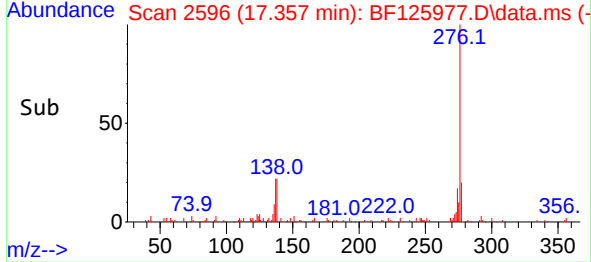




#92
 Benzo(g,h,i)perylene
 Concen: 2.412 ng
 RT: 17.357 min Scan# 2596
 Delta R.T. -0.053 min
 Lab File: BF125977.D
 Acq: 27 Oct 2021 22:30



Tgt Ion:	276	Resp:	56259
Ion Ratio	Lower	Upper	
276	100		
277	22.8	22.0	33.0
138	27.0	22.2	33.4



Instrument :
 BNA_F
 ClientSampleId :
 METRO-SP

Manual Integrations
 APPROVED

mohammad
 10/29/2021 2:23:00 PM

mohammad

10/29/2021 2:23:00 PM