

Supporting Information

BF₃·OEt₂ catalyzed decarbonylative arylation/C-H functionalization of diazoamides with arylaldehydes: Synthesis of substituted 3-aryloxindoles

Sengodagounder Muthusamy* and Ammasi Prabu

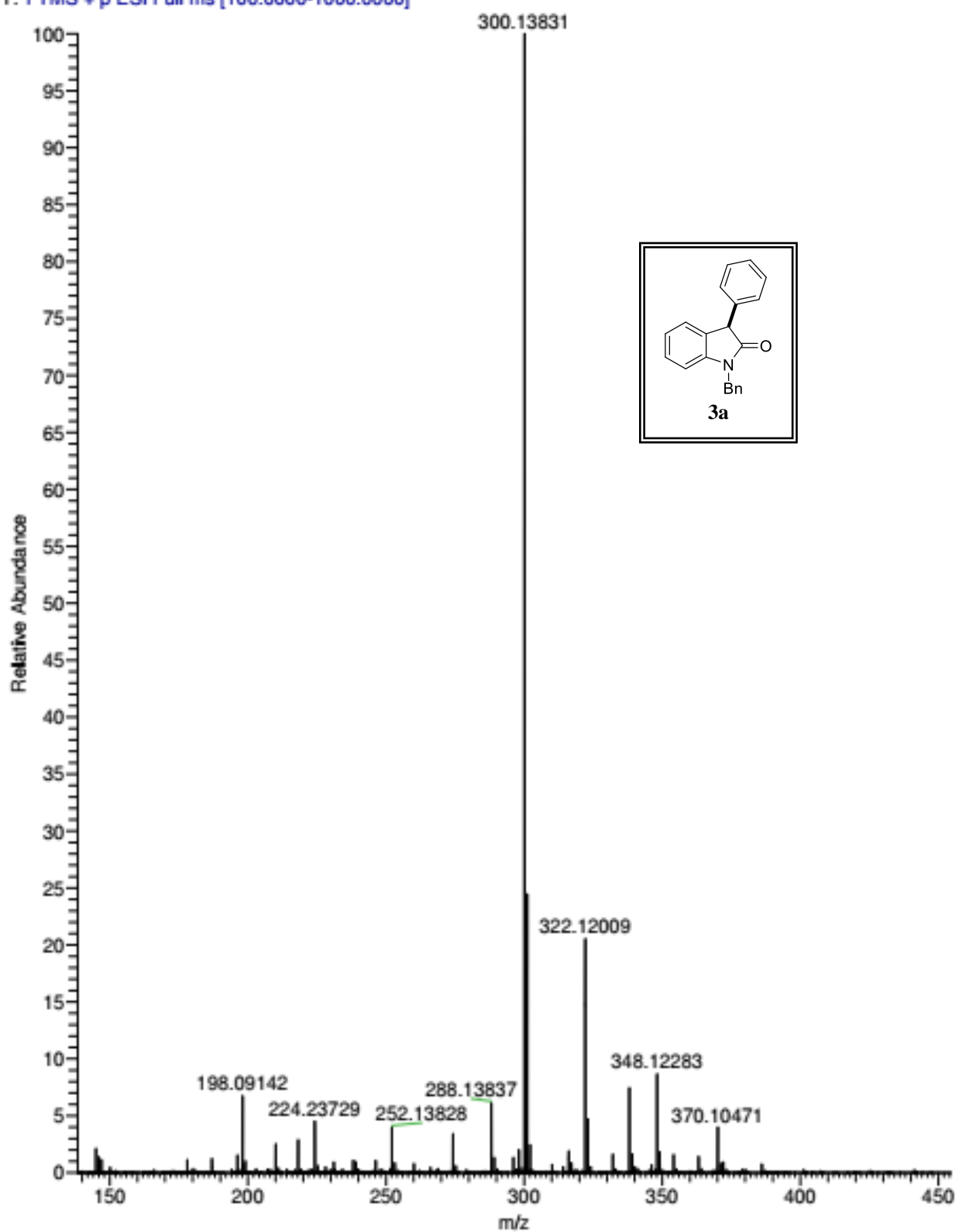
School of Chemistry, Bharathidasan University, Tiruchirappalli-620 024, India

* Tel: +91-431-2407053; Fax: +91-431-2407045; E-mail: muthu@bdu.ac.in

HRMS spectra for compounds **3**, **6**, **7** and **8**

Compound 3a

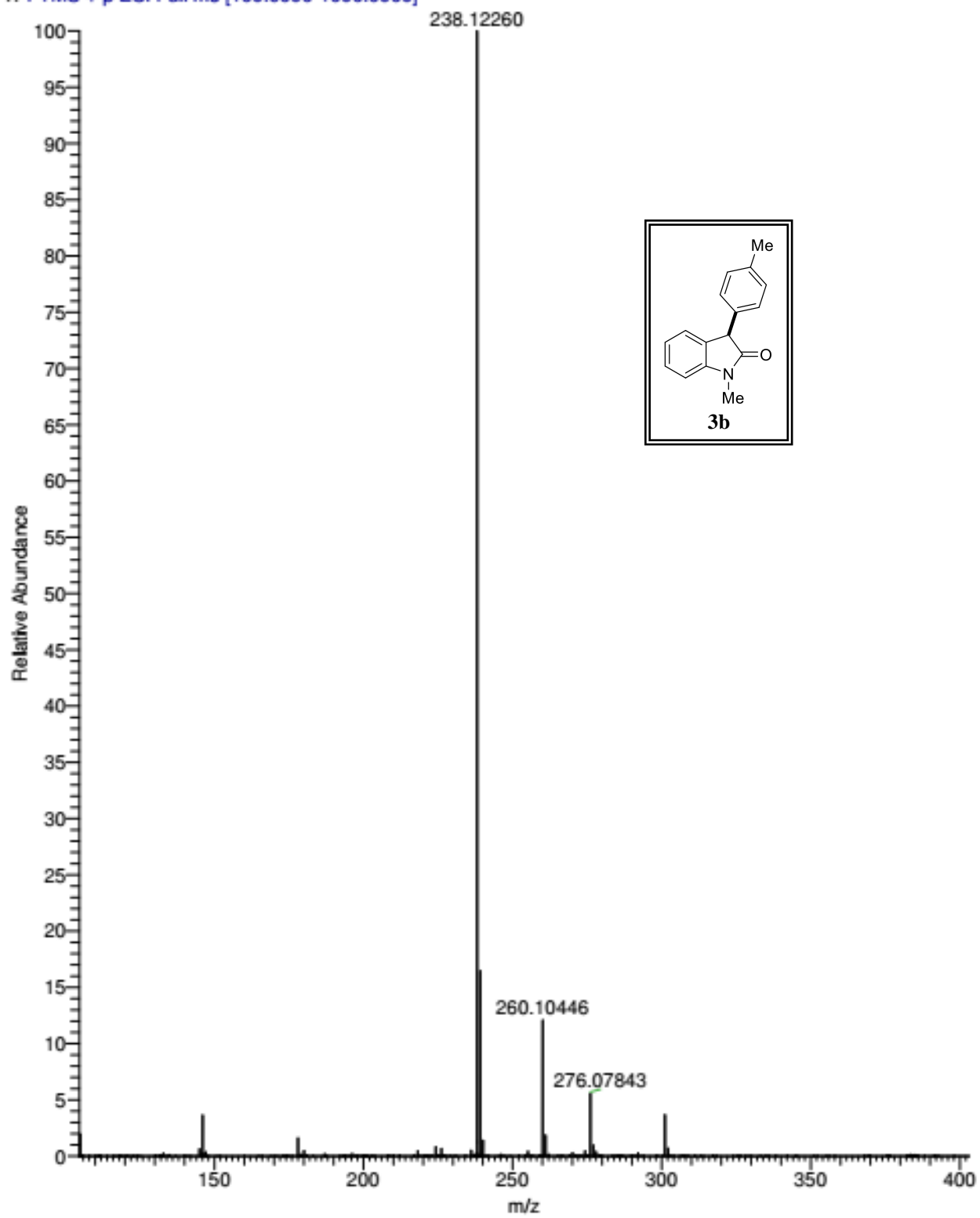
APR-541 #39 RT: 0.43 AV: 1 NL: 1.39E8
T: FTMS + p ESI Full ms [100.0000-1000.0000]



Compound 3b

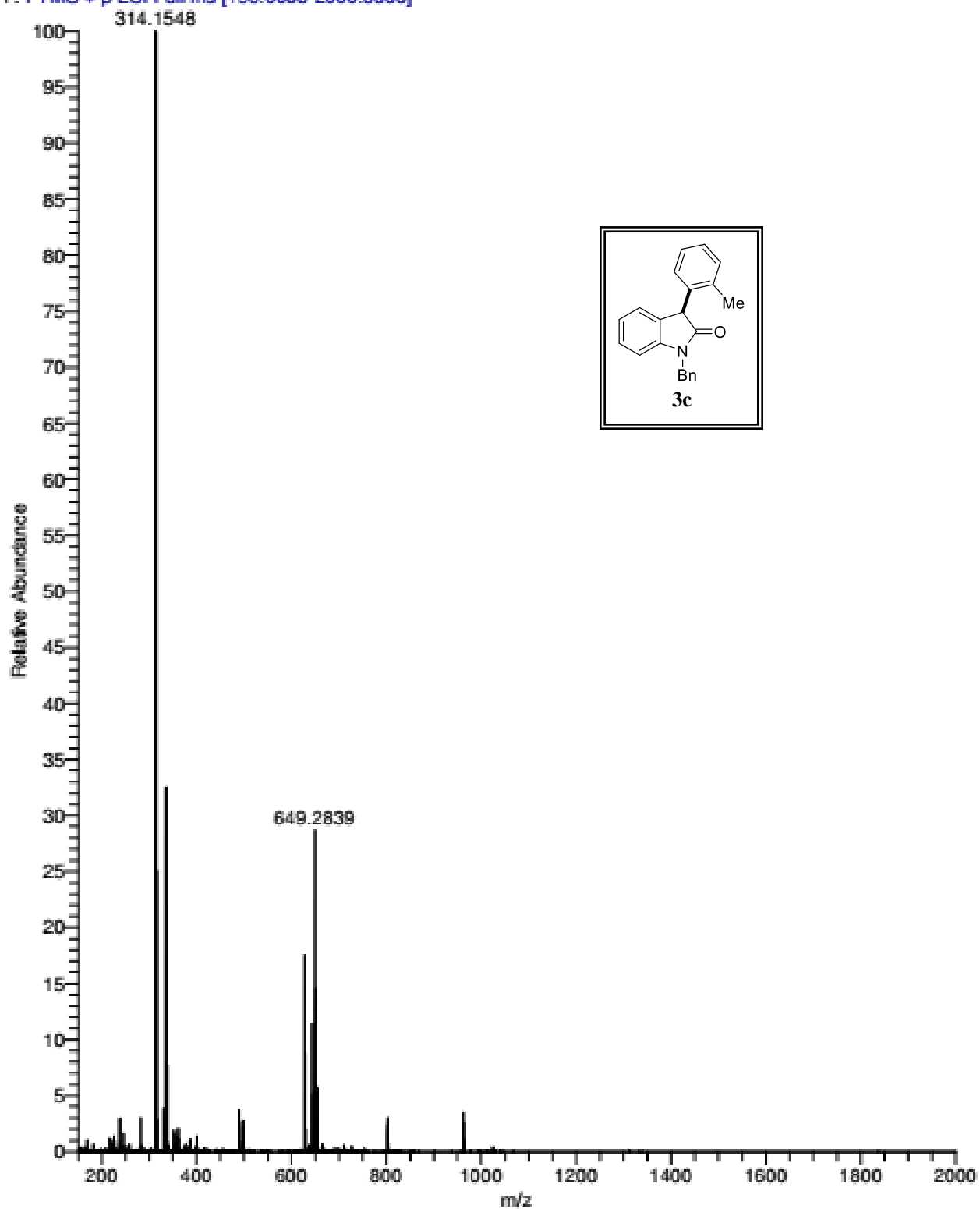
APR-414_20201124135840 #39 RT: 0.42 AV: 1 NL: 5.97E8

T: FTMS + p ESI Full ms [100.0000-1000.0000]



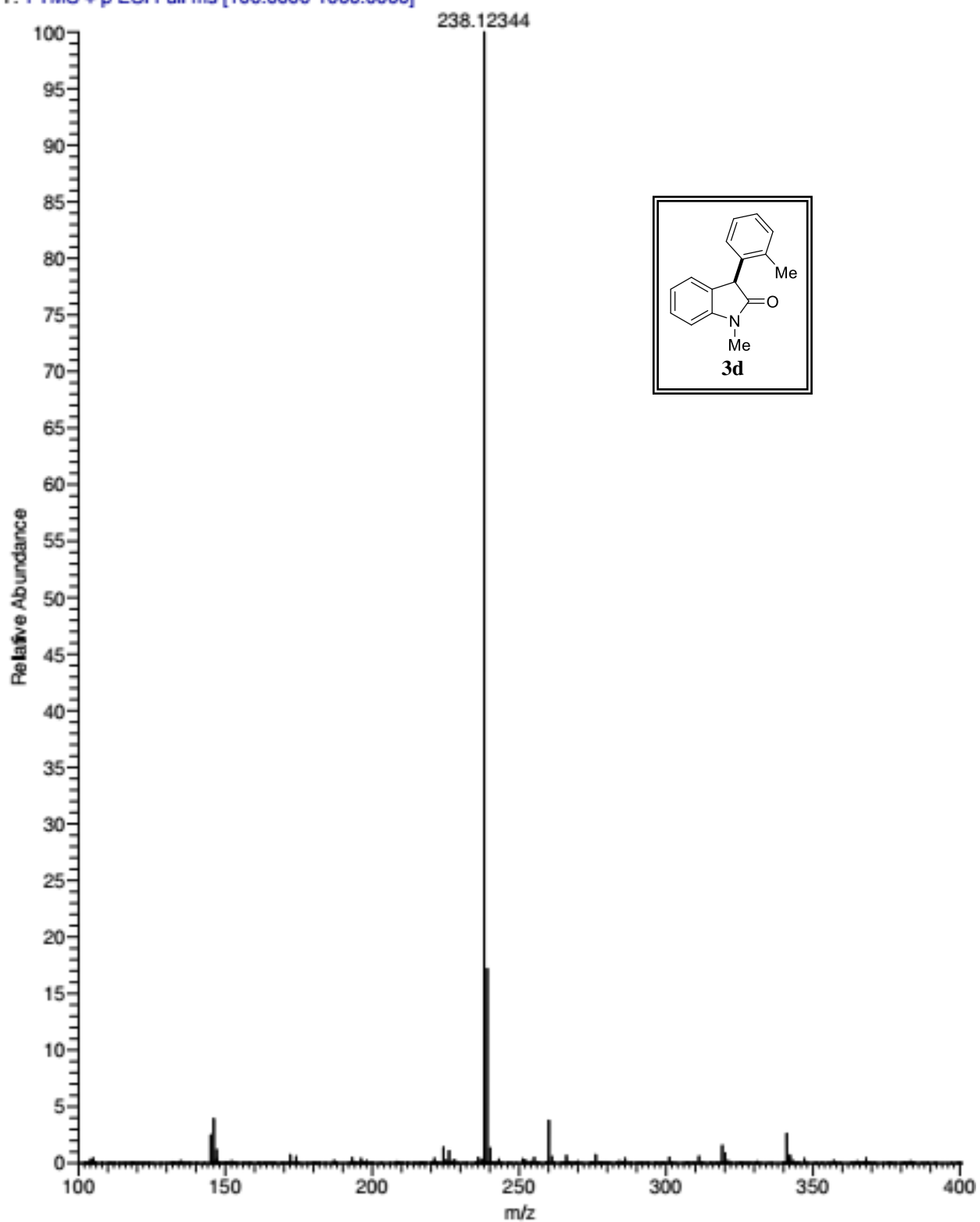
Compound 3c

APR-421 #56 RT: 0.55 AV: 1 NL: 8.10E8
T: FTMS + p ESI Full ms [150.0000-2000.0000]



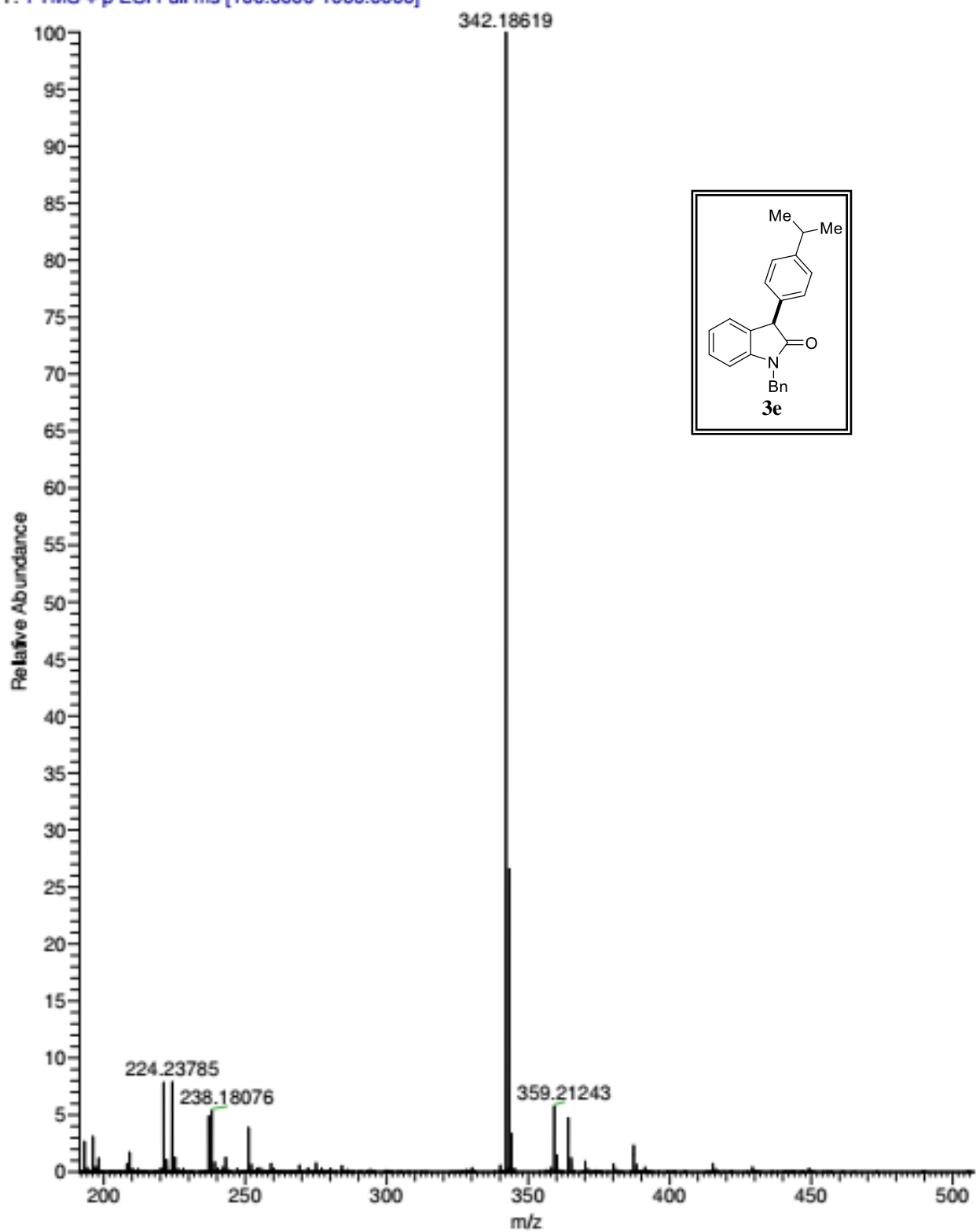
Compound 3d

APR-515 #53 RT: 0.52 AV: 1 NL: 6.31E8
T: FTMS + p ESI Full ms [100.0000-1000.0000]



Compound 3e

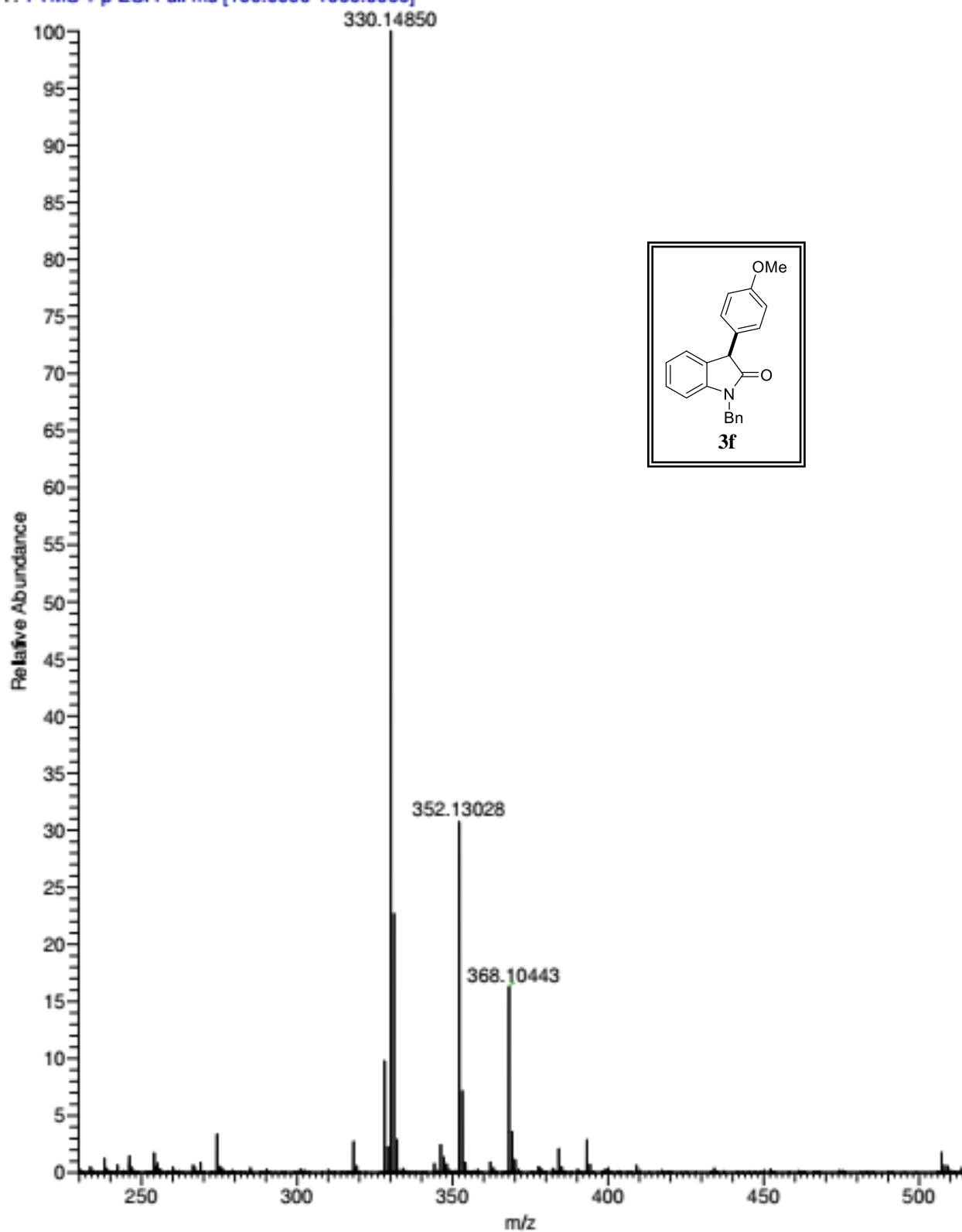
APR-424 #121 RT: 1.16 AV: 1 NL: 1.73E8
T: FTMS + p ESI Full ms [100.0000-1000.0000]



Compound 3f

APR-412_20201124135531 #43 RT: 0.47 AV: 1 NL: 6.55E7

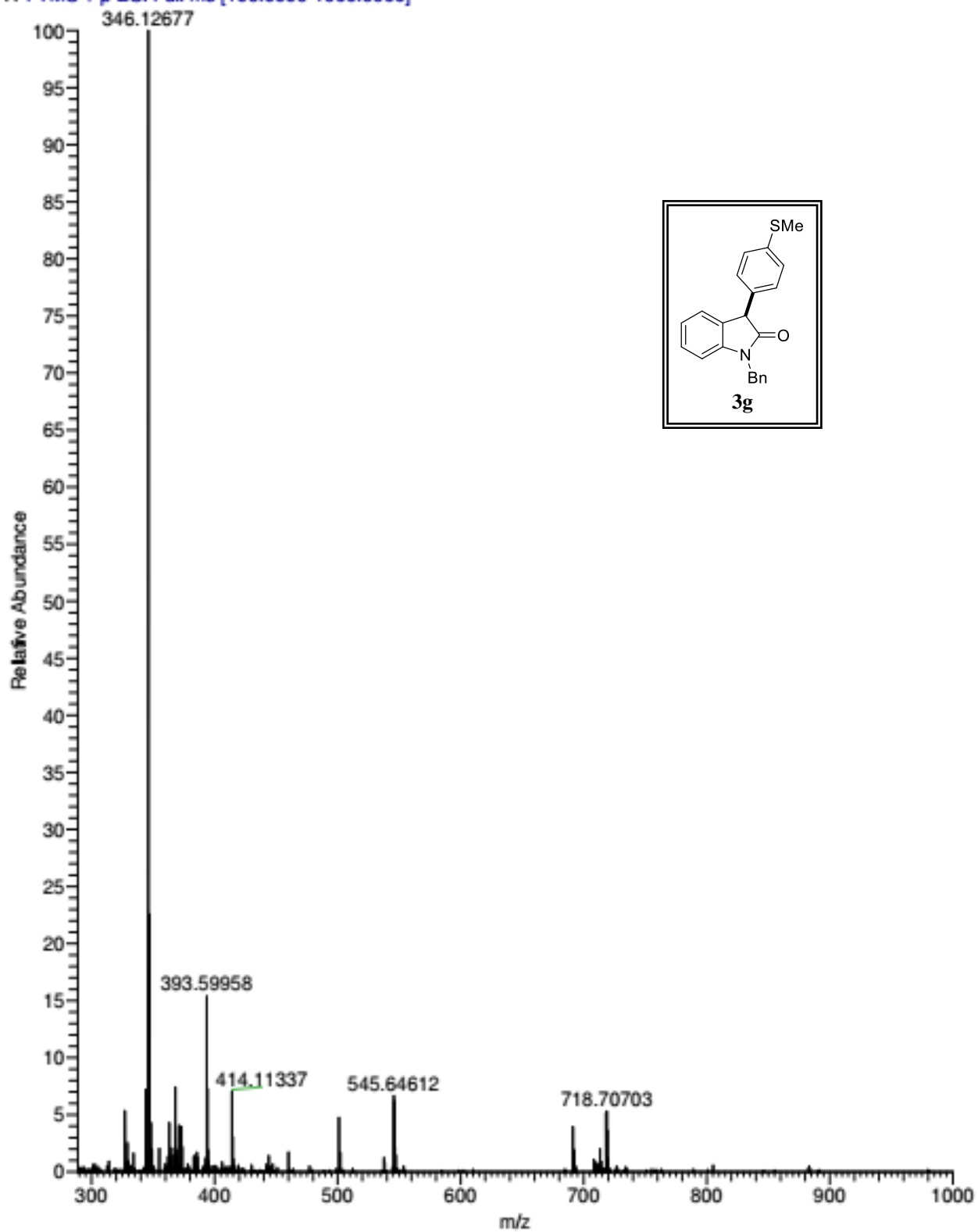
T: FTMS + p ESI Full ms [100.0000-1000.0000]



Compound 3g

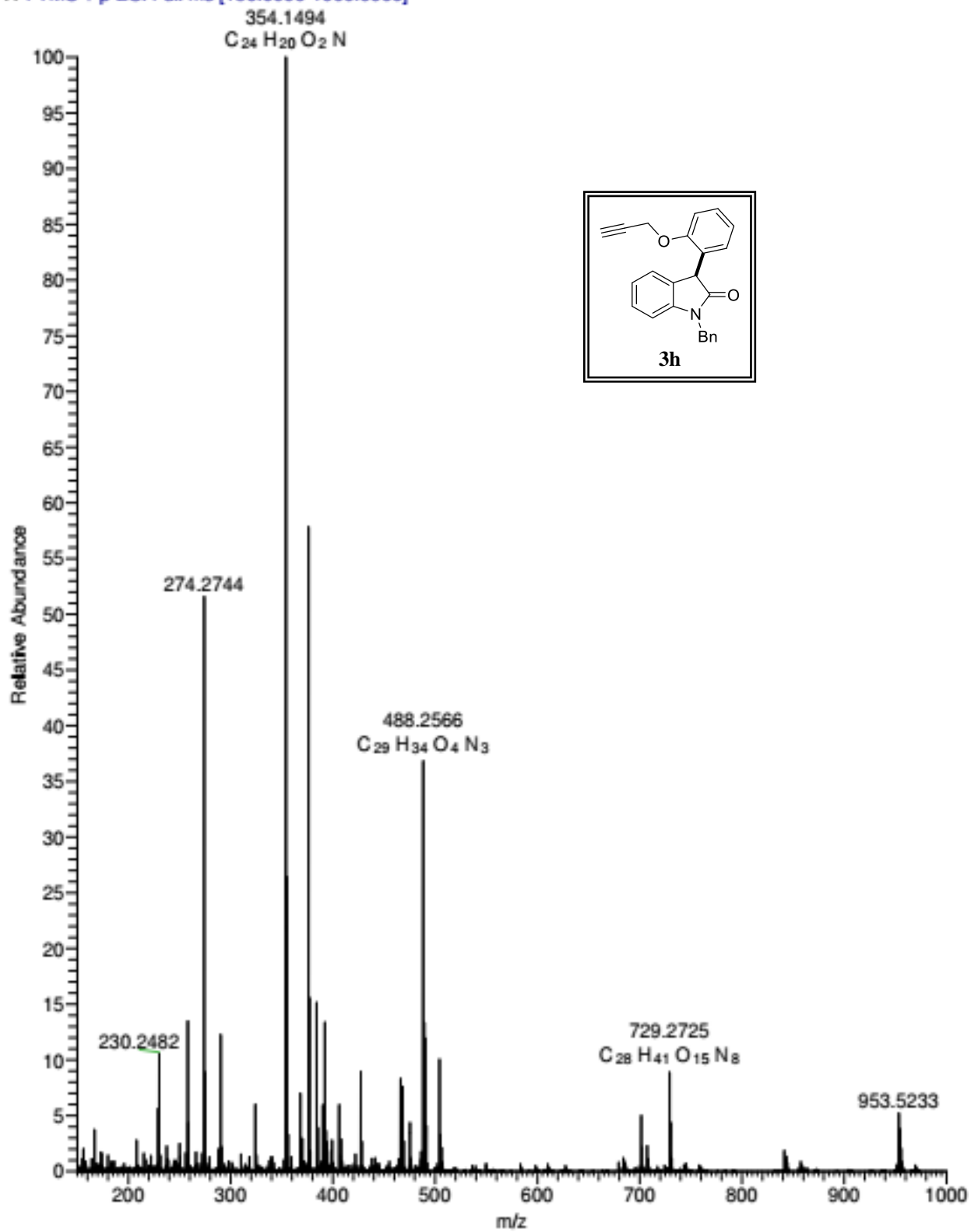
APR-581_20200220114717 #55 RT: 0.56 AV: 1 NL: 3.51E7

T: FTMS + p ESI Full ms [100.0000-1000.0000]



Compound 3h

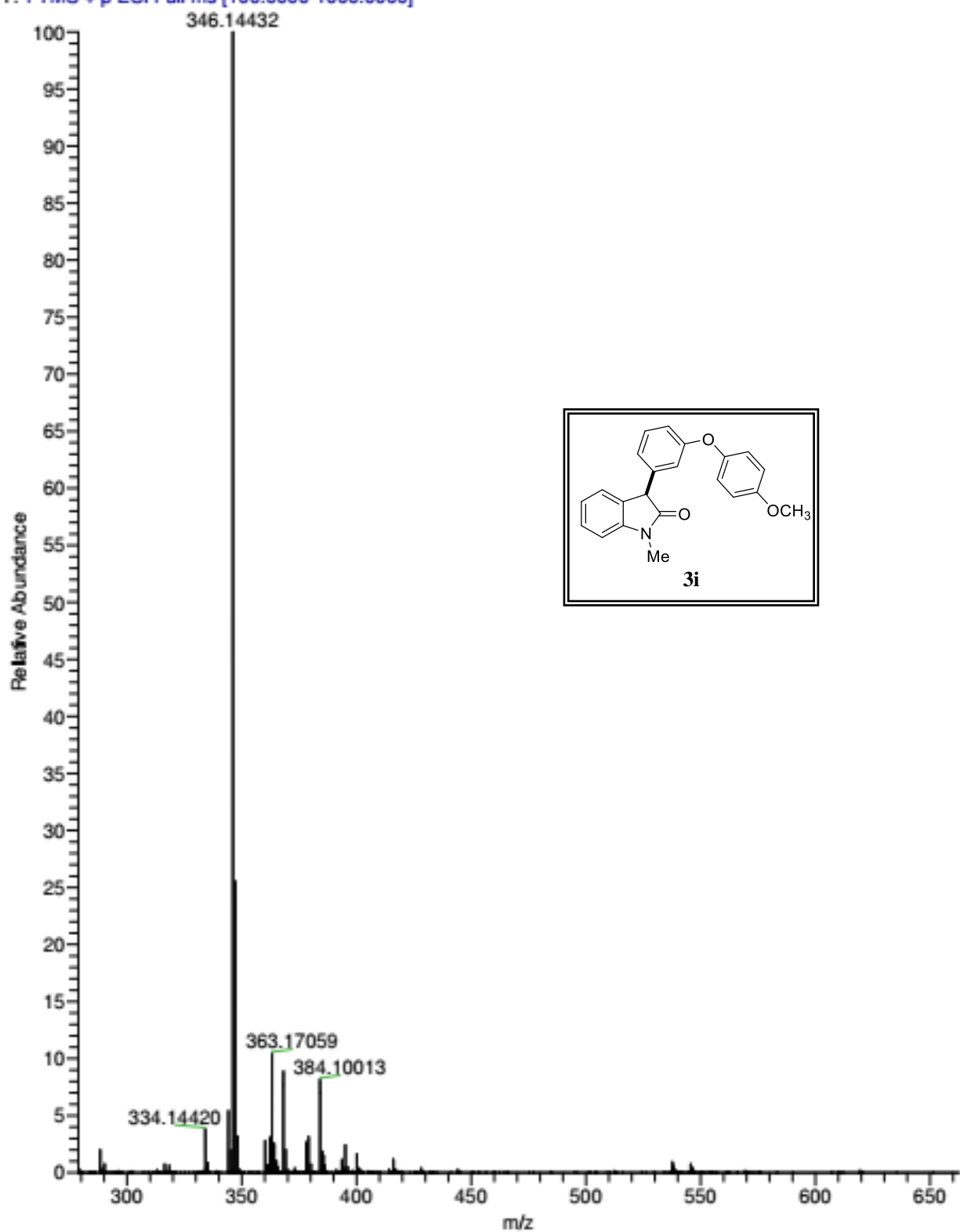
APR-401_20190702171520 #83 RT: 0.86 AV: 1 NL: 1.21E7
T: FTMS + p ESI Full ms [150.0000-1000.0000]



Compound 3i

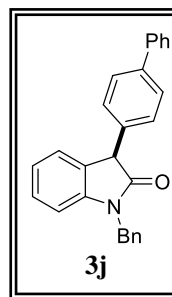
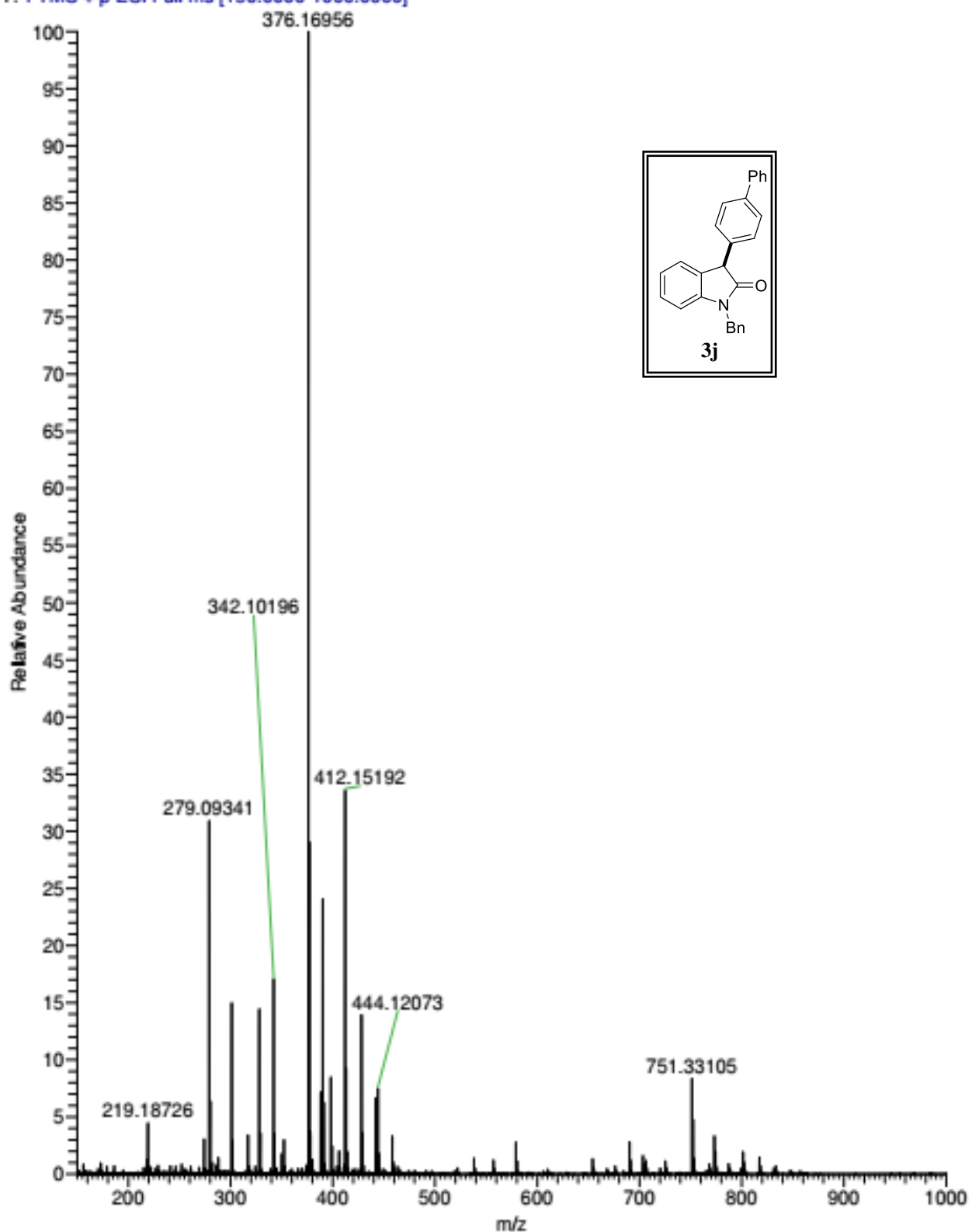
APR-462_20210303160934 #63 RT: 0.61 AV: 1 NL: 4.92E8

T: FTMS + p ESI Full ms [100.0000-1000.0000]



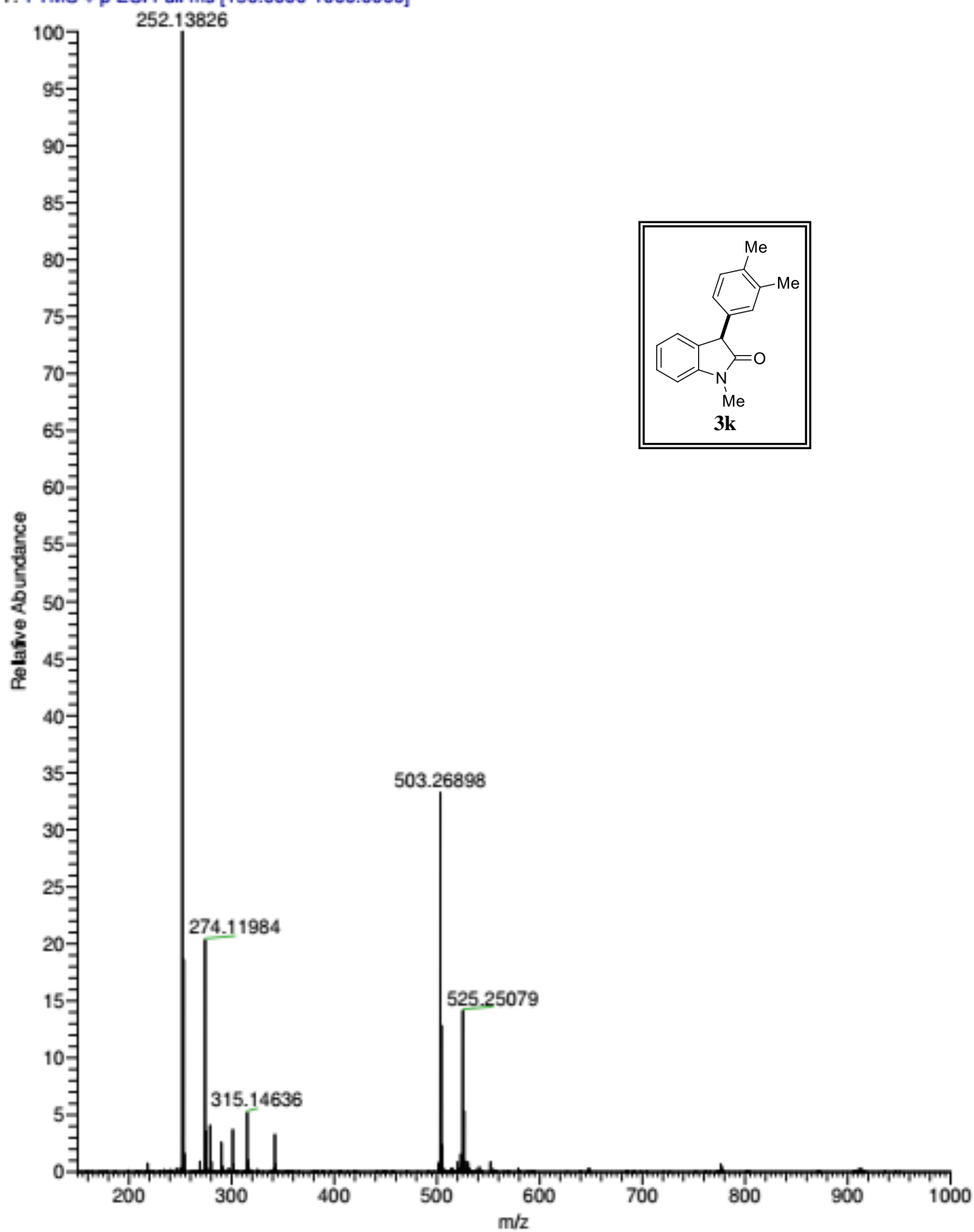
Compound 3j

APR-504 #25 RT: 0.29 AV: 1 NL: 3.13E7
T: FTMS + p ESI Full ms [150.0000-1000.0000]



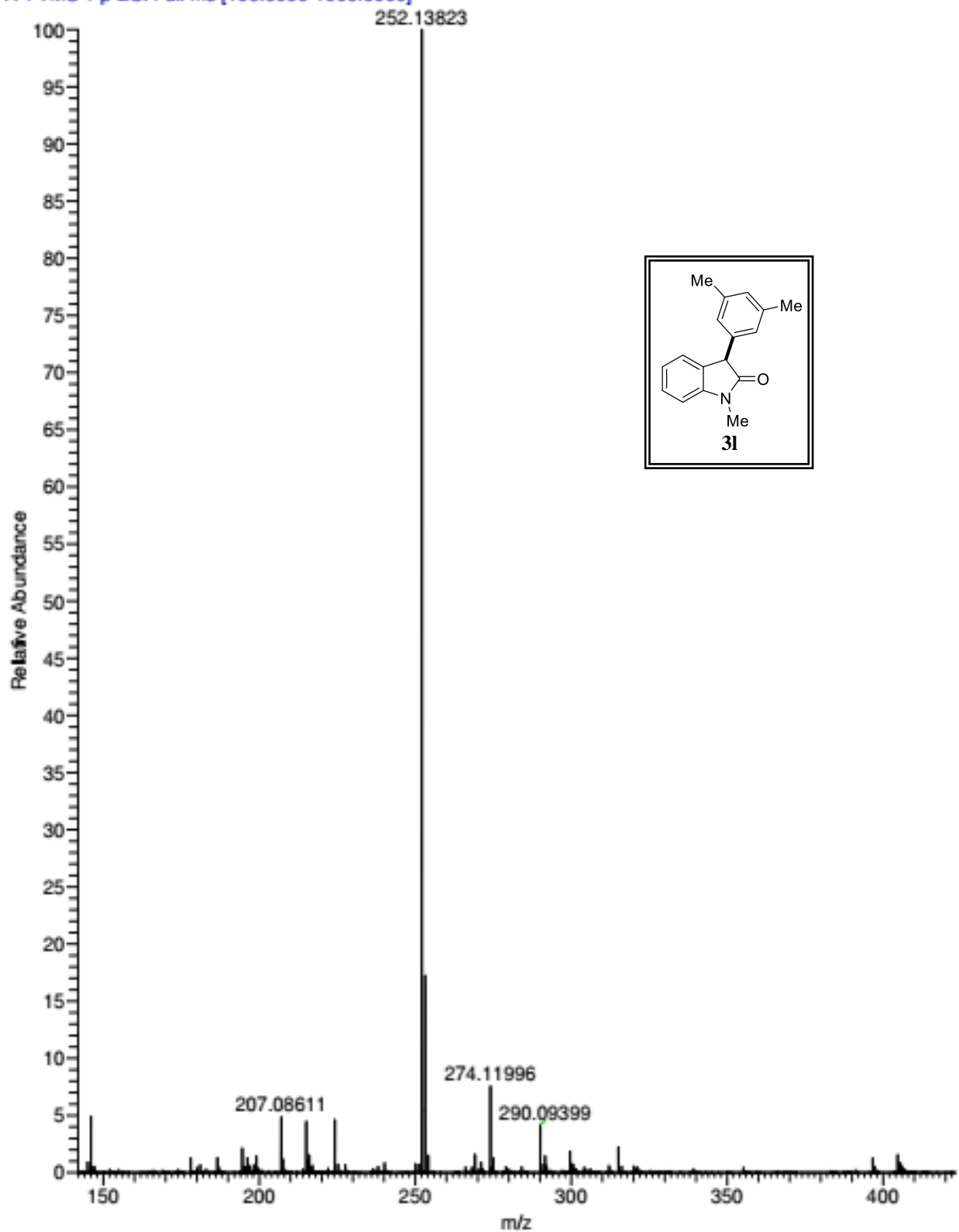
Compound 3k

APR-501 #35 RT: 0.36 AV: 1 NL: 1.45E9
T: FTMS + p ESI Full ms [150.0000-1000.0000]



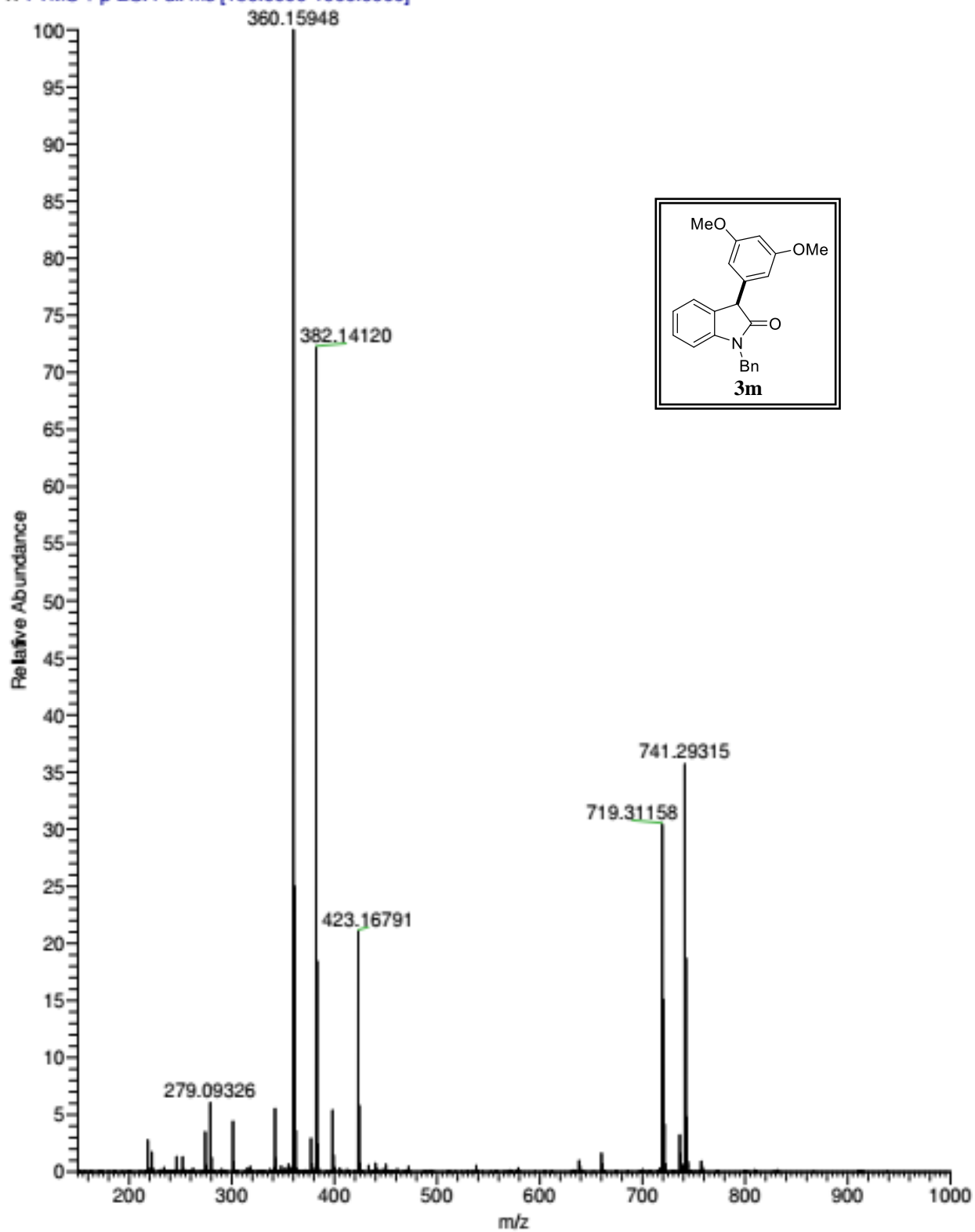
Compound 31

APR-500 #59 RT: 0.63 AV: 1 NL: 1.34E8
T: FTMS + p ESI Full ms [100.0000-1000.0000]



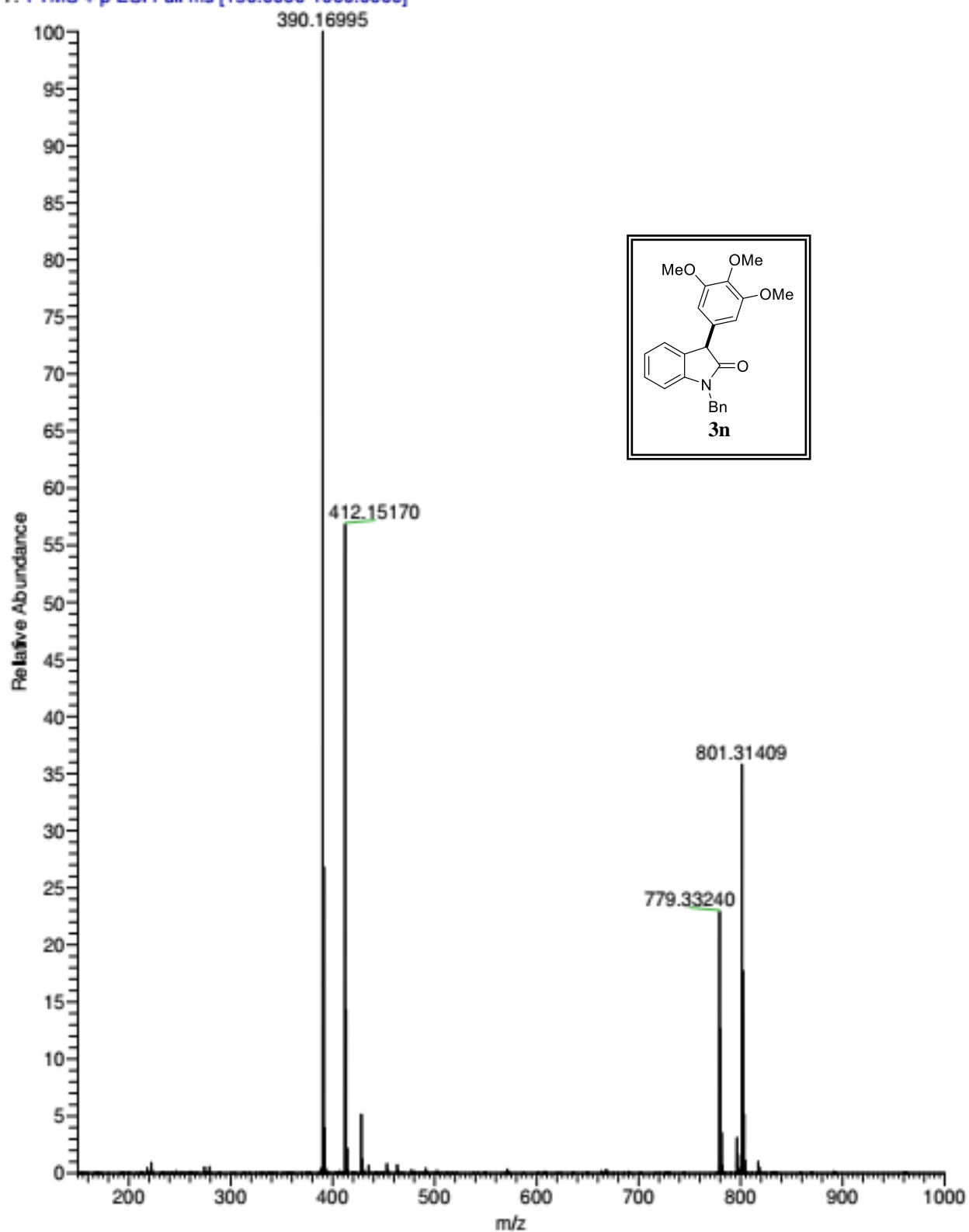
Compound 3m

APR-502 #35 RT: 0.38 AV: 1 NL: 4.34E8
T: FTMS + p ESI Full ms [150.0000-1000.0000]



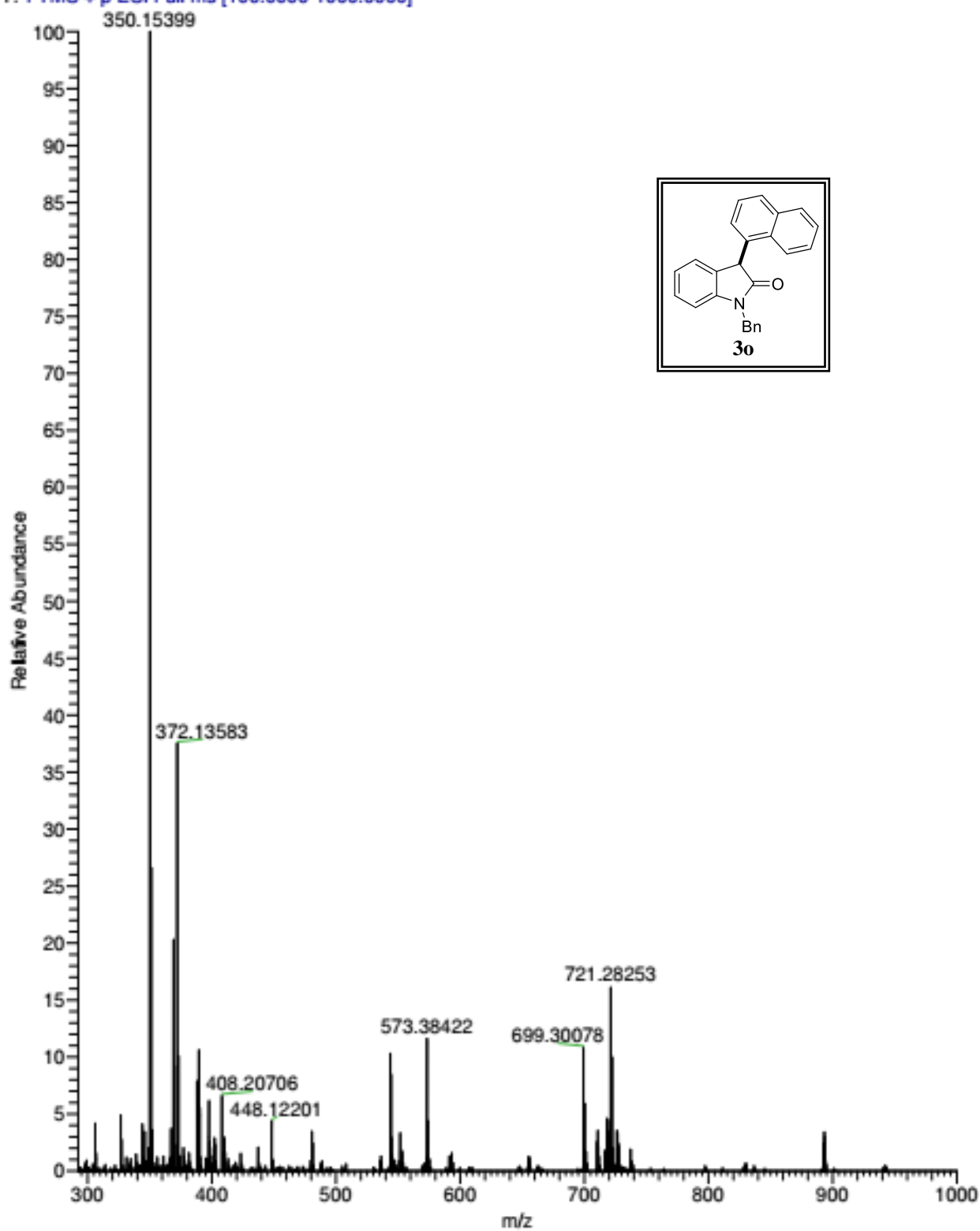
Compound 3n

APR-503 #33 RT: 0.36 AV: 1 NL: 9.91E8
T: FTMS + p ESI Full ms [150.0000-1000.0000]



Compound 3o

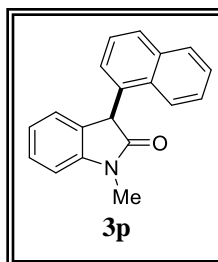
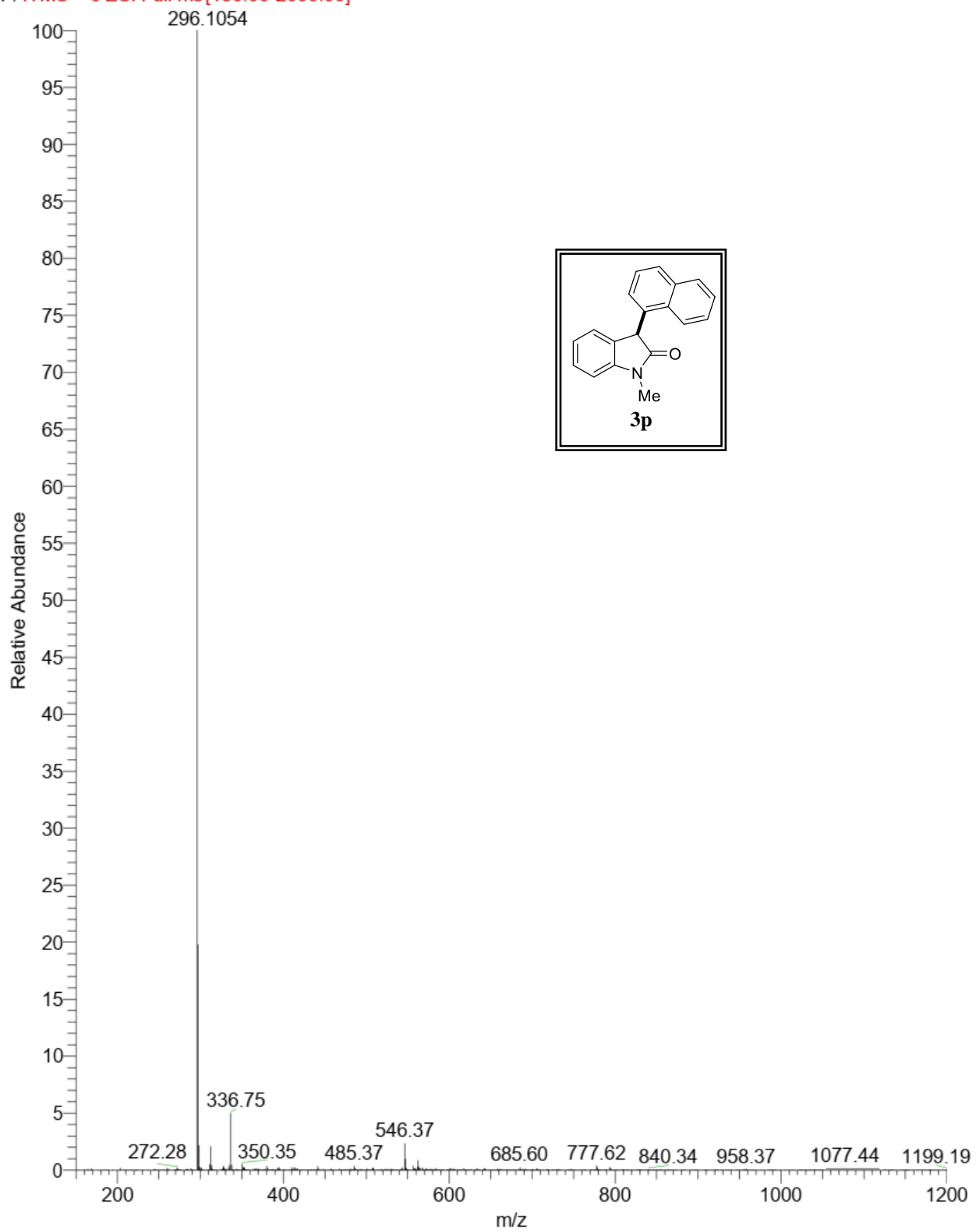
APR-620 #63 RT: 0.64 AV: 1 NL: 2.83E7
T: FTMS + p ESI Full ms [100.0000-1000.0000]



Compound 3p

APR-819_220211174005 #192 RT: 2.57 AV: 1 NL: 1.79E7

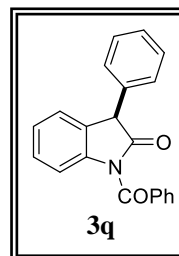
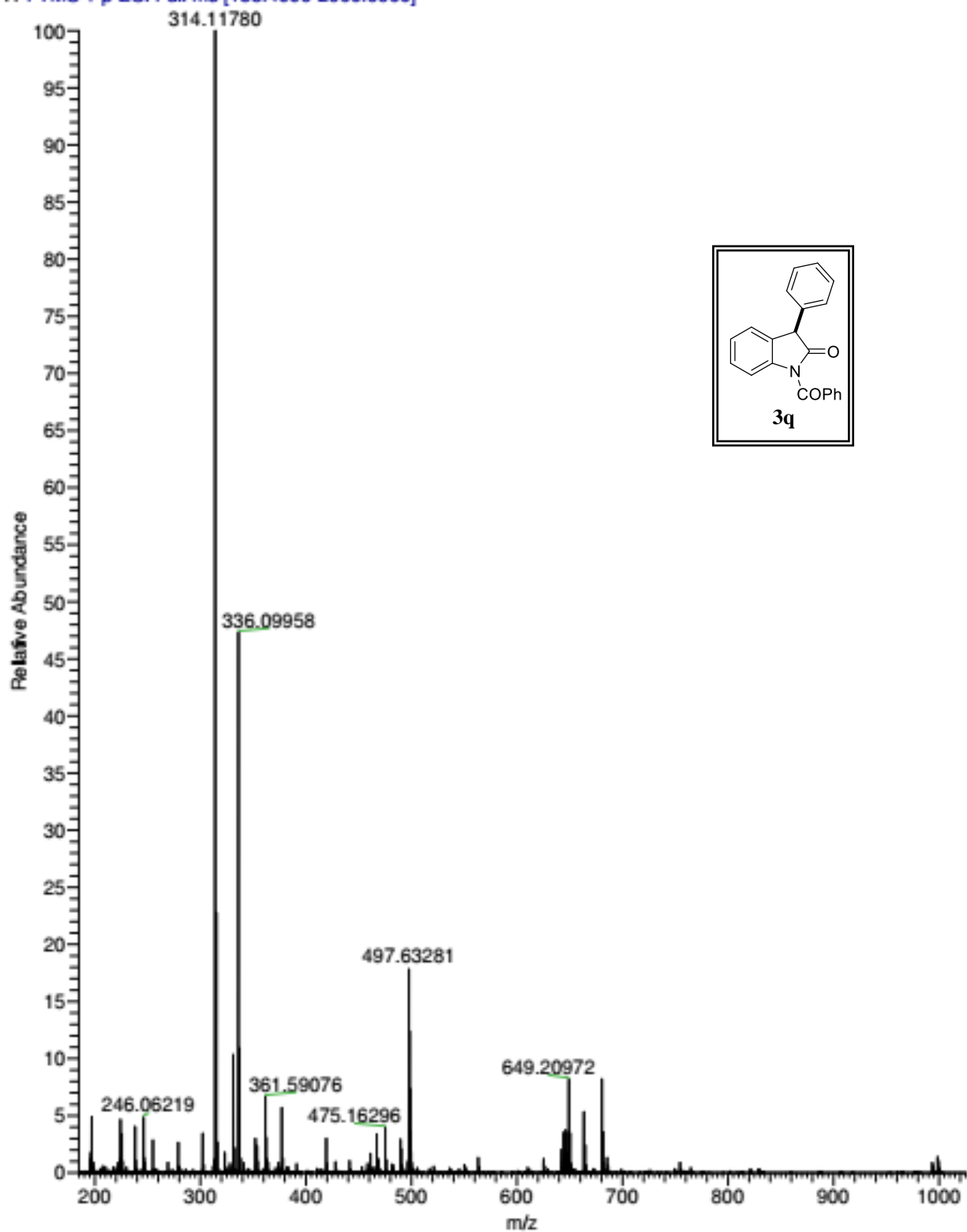
F: ITMS + c ESI Full ms[150.00-2000.00]



Compound 3q

APR-704_20210311133649 #58 RT: 0.56 AV: 1 NL: 2.17E8

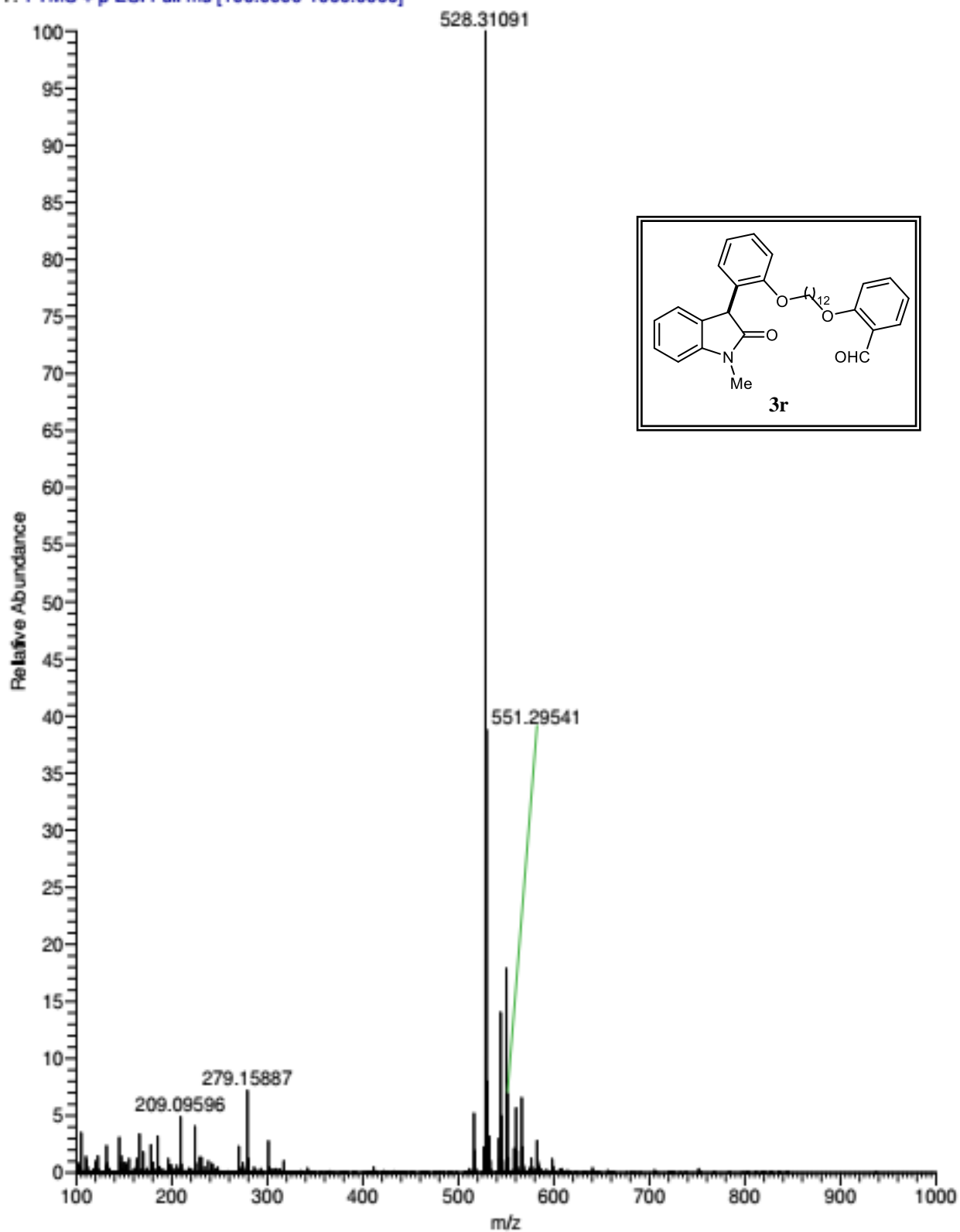
T: FTMS + p ESI Full ms [133.4000-2000.0000]



Compound 3r

APR-440_20201124140410 #47 RT: 0.51 AV: 1 NL: 1.15E8

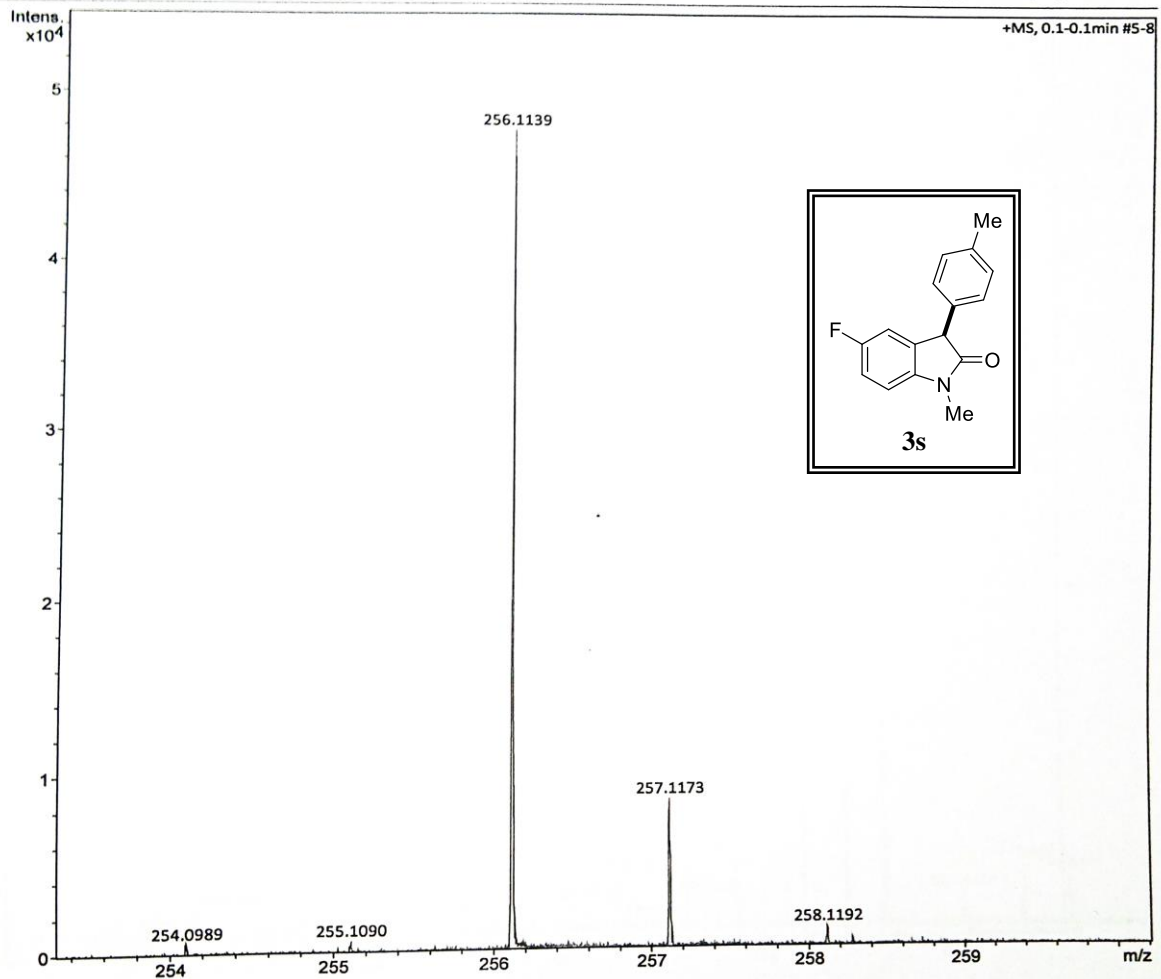
T: FTMS + p ESI Full ms [100.0000-1000.0000]



Compound 3s

Acquisition Parameter

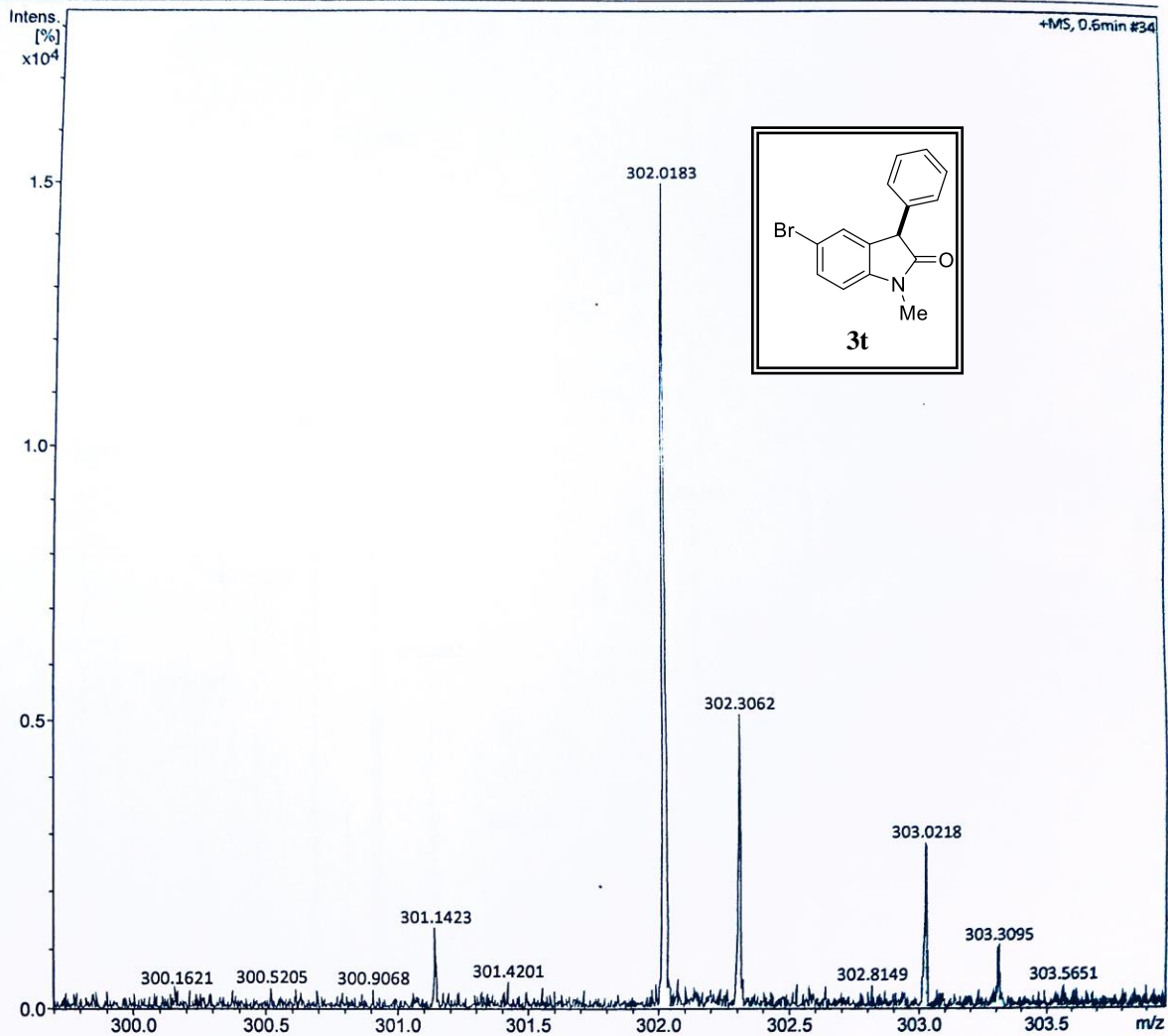
Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.3 Bar
Focus	Not active	Set Capillary	3000 V	Set Dry Heater	180 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	4.0 l/min
Scan End	2500 m/z	Set Charging Voltage	0 V	Set Divert Valve	Waste
		Set Corona	0 nA	Set APCI Heater	0 °C



Compound 3t

Acquisition Parameter

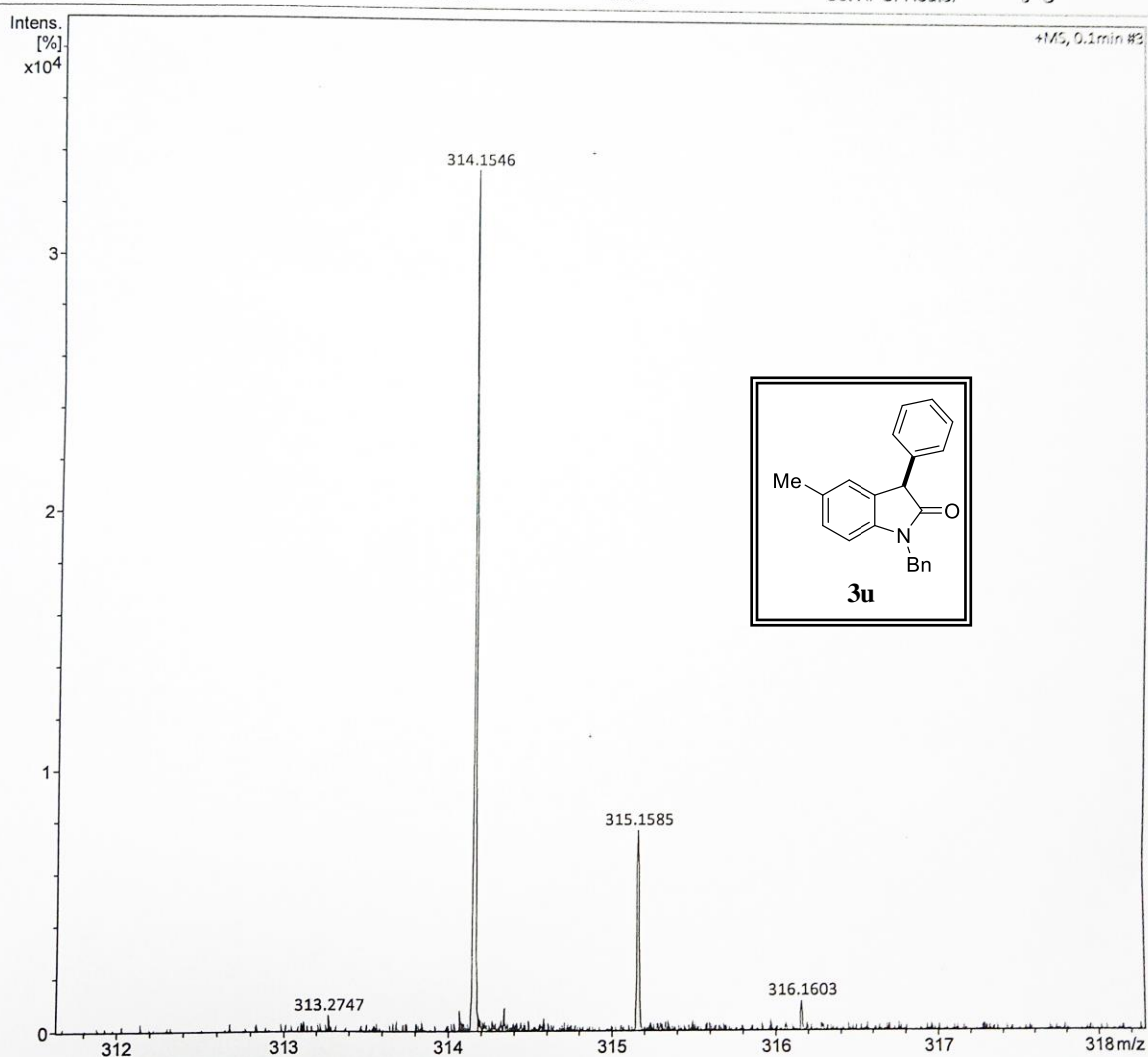
Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.3 Bar
Focus	Not active	Set Capillary	3000 V	Set Dry Heater	180 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	4.0 l/min
Scan End	1500 m/z	Set Charging Voltage	0 V	Set Divert Valve	Waste
		Set Corona	0 nA	Set APCI Heater	0 °C



Compound 3u

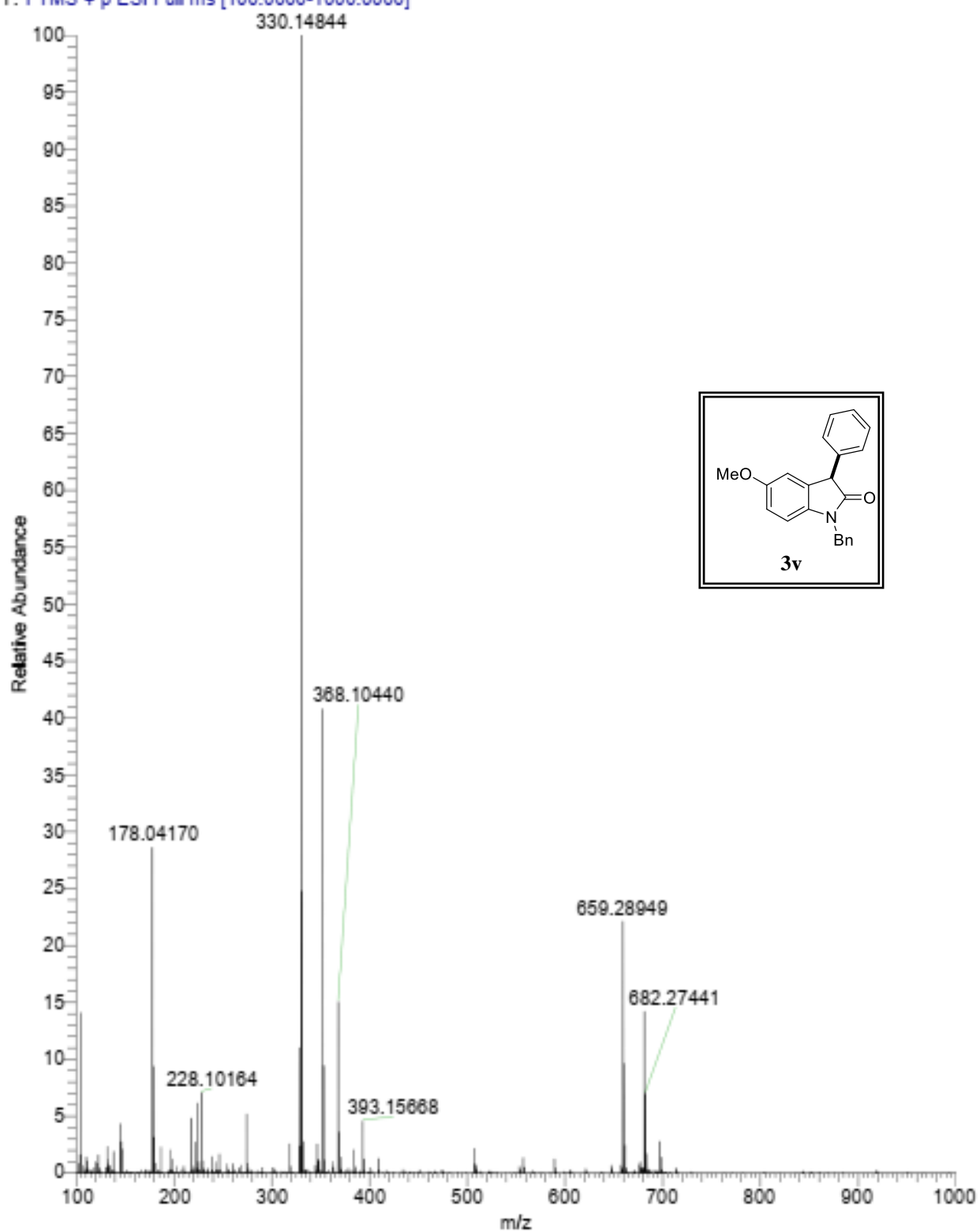
Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.3 Bar
Focus	Not active	Set Capillary	4500 V	Set Dry Heater	120 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	4.0 l/min
Scan End	1500 m/z	Set Charging Voltage	0 V	Set Divert Valve	Waste
		Set Corona	0 nA	Set APCI Heater	0 °C



Compound 3v

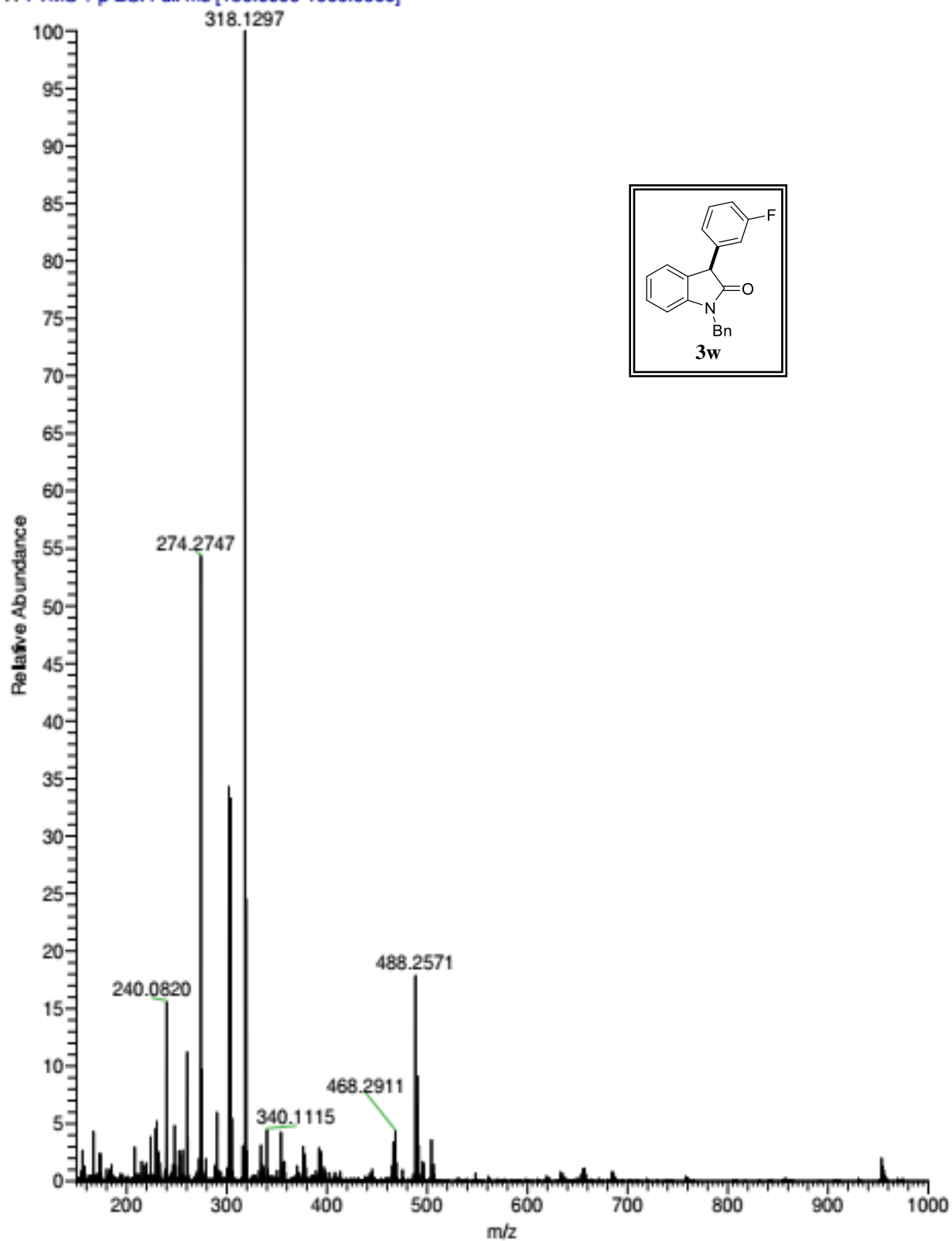
APR-785_20201124135639 #39 RT: 0.43 AV: 1 NL: 8.14E7
T: FTMS + p ESI Full ms [100.0000-1000.0000]



Compound 3w

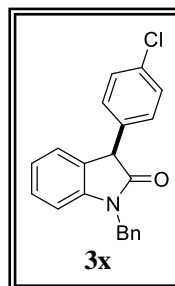
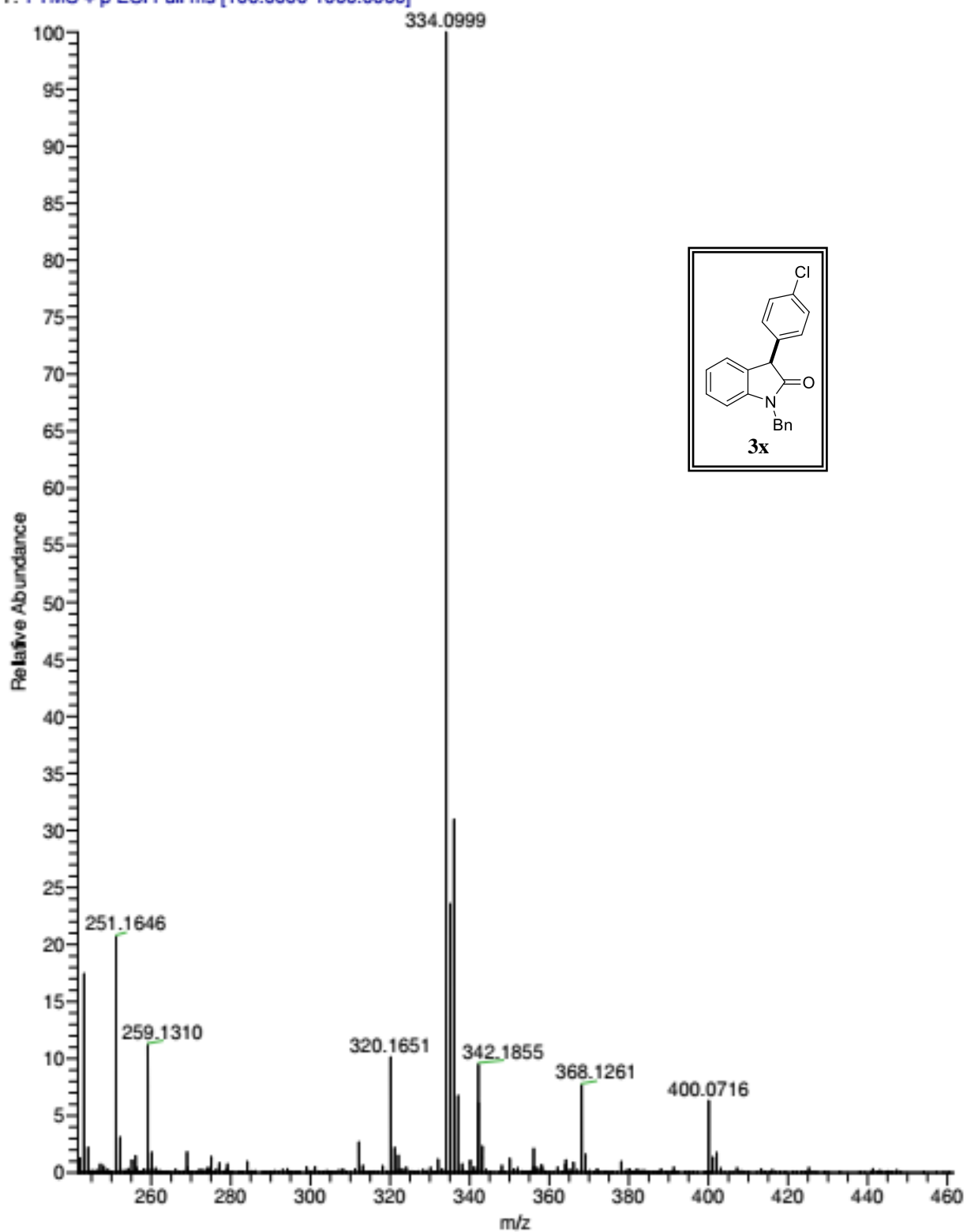
APR-426_20190702174234 #97 RT: 1.00 AV: 1 NL: 1.28E7

T: FTMS + p ESI Full ms [150.0000-1000.0000]



Compound 3x

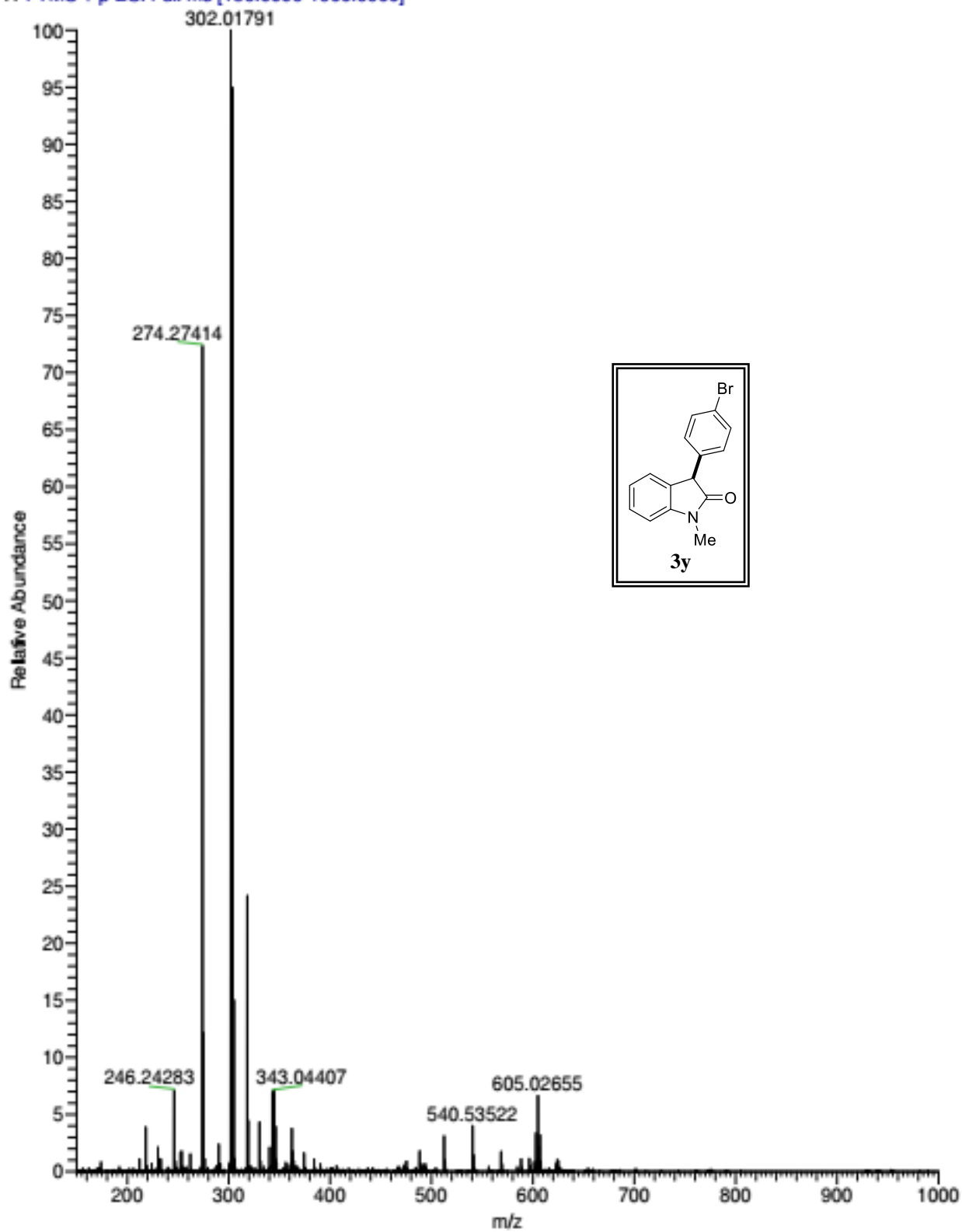
APR-527 #49 RT: 0.48 AV: 1 NL: 3.81E7
T: FTMS + p ESI Full ms [100.0000-1000.0000]



Compound 3y

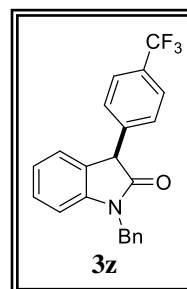
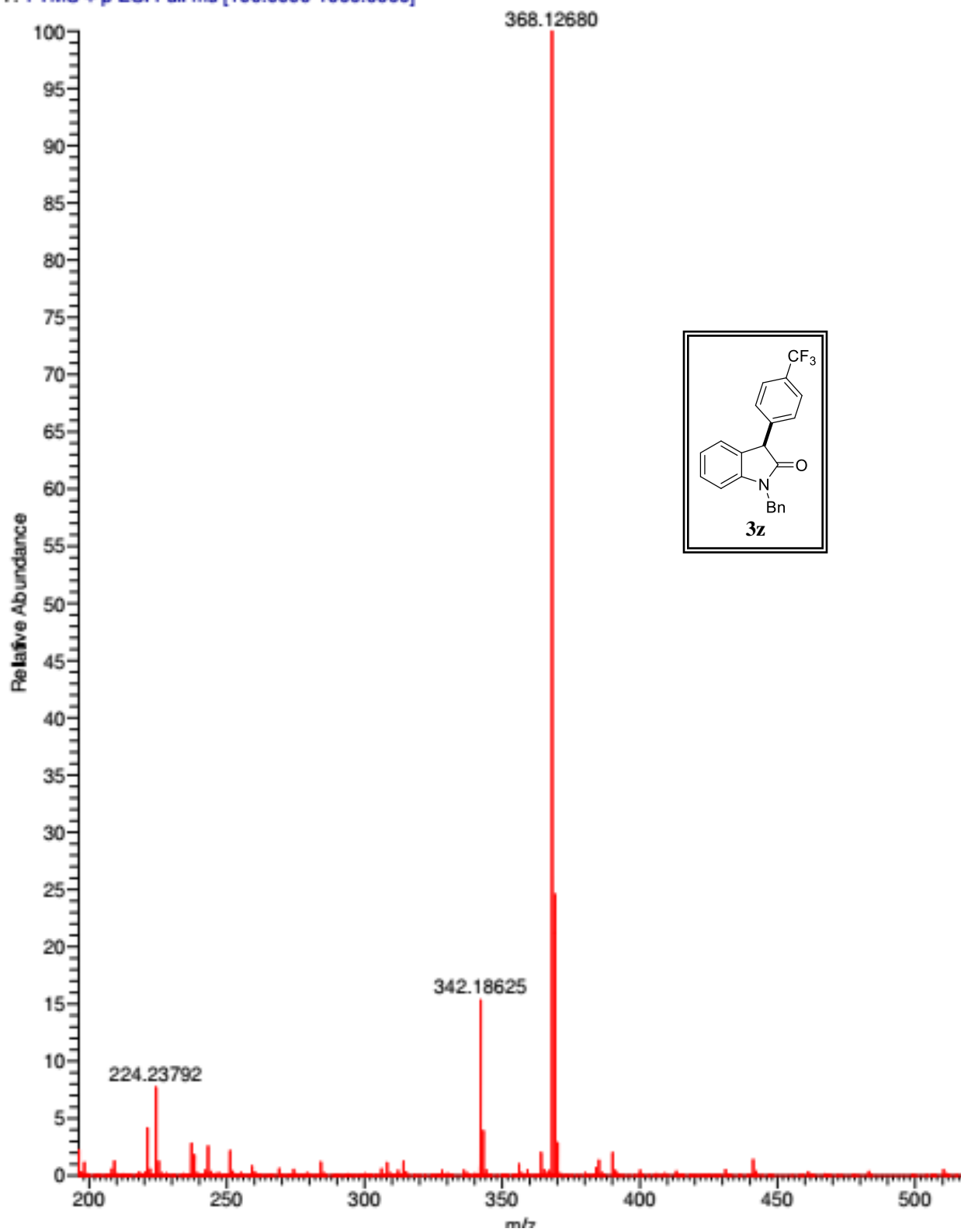
APR-425_20190702173945 #47 RT: 0.49 AV: 1 NL: 1.88E8

T: FTMS + p ESI Full ms [150.0000-1000.0000]



Compound 3z

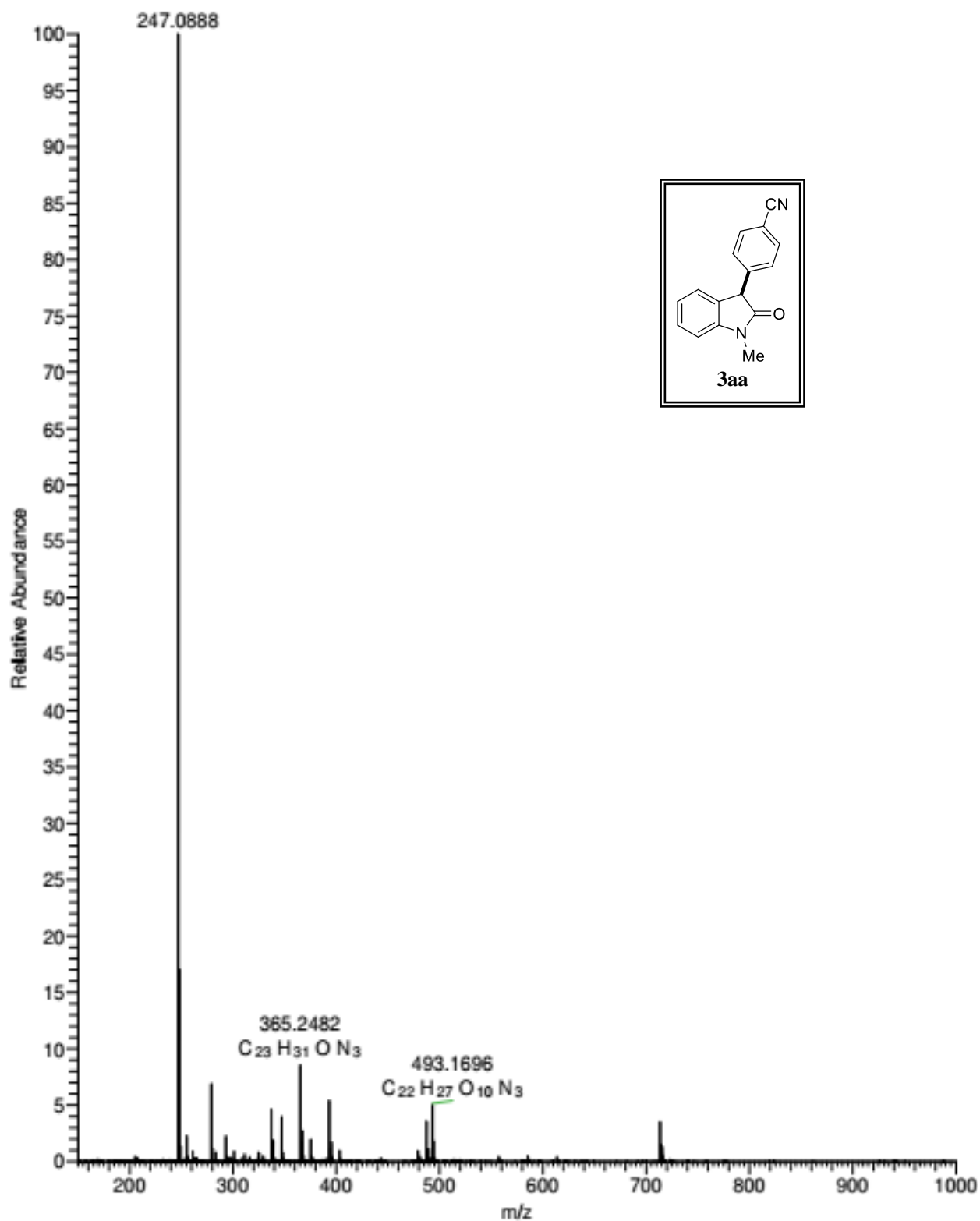
APR-435 #55 RT: 0.53 AV: 1 NL: 1.78E8
T: FTMS + p ESI Full ms [100.0000-1000.0000]



Compound 3aa

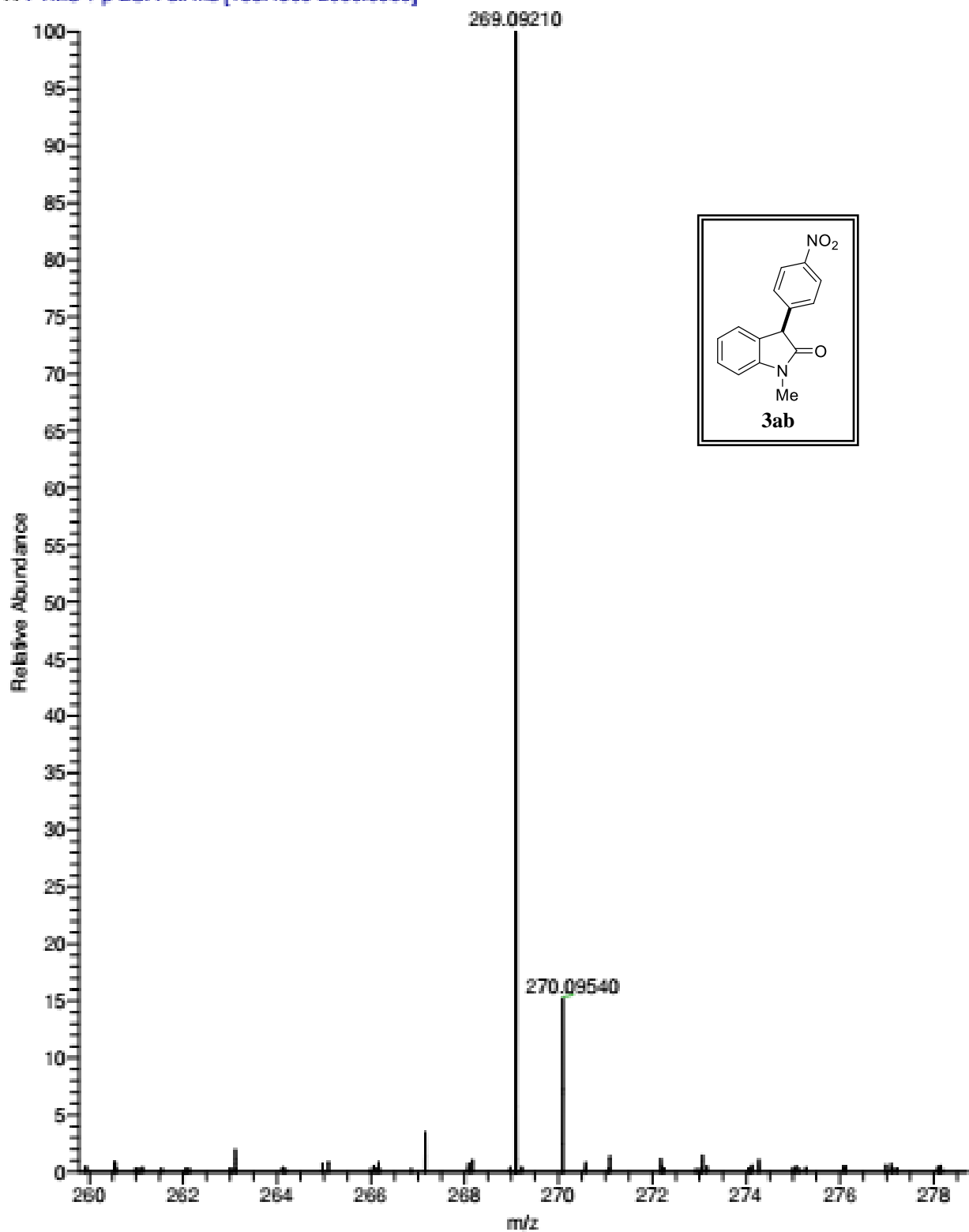
APR-427_20190702174519 #34 RT: 0.36 AV: 1 NL: 1.11E9

T: FTMS - p ESI Full ms [150.0000-1000.0000]



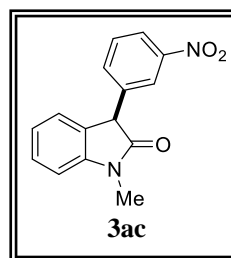
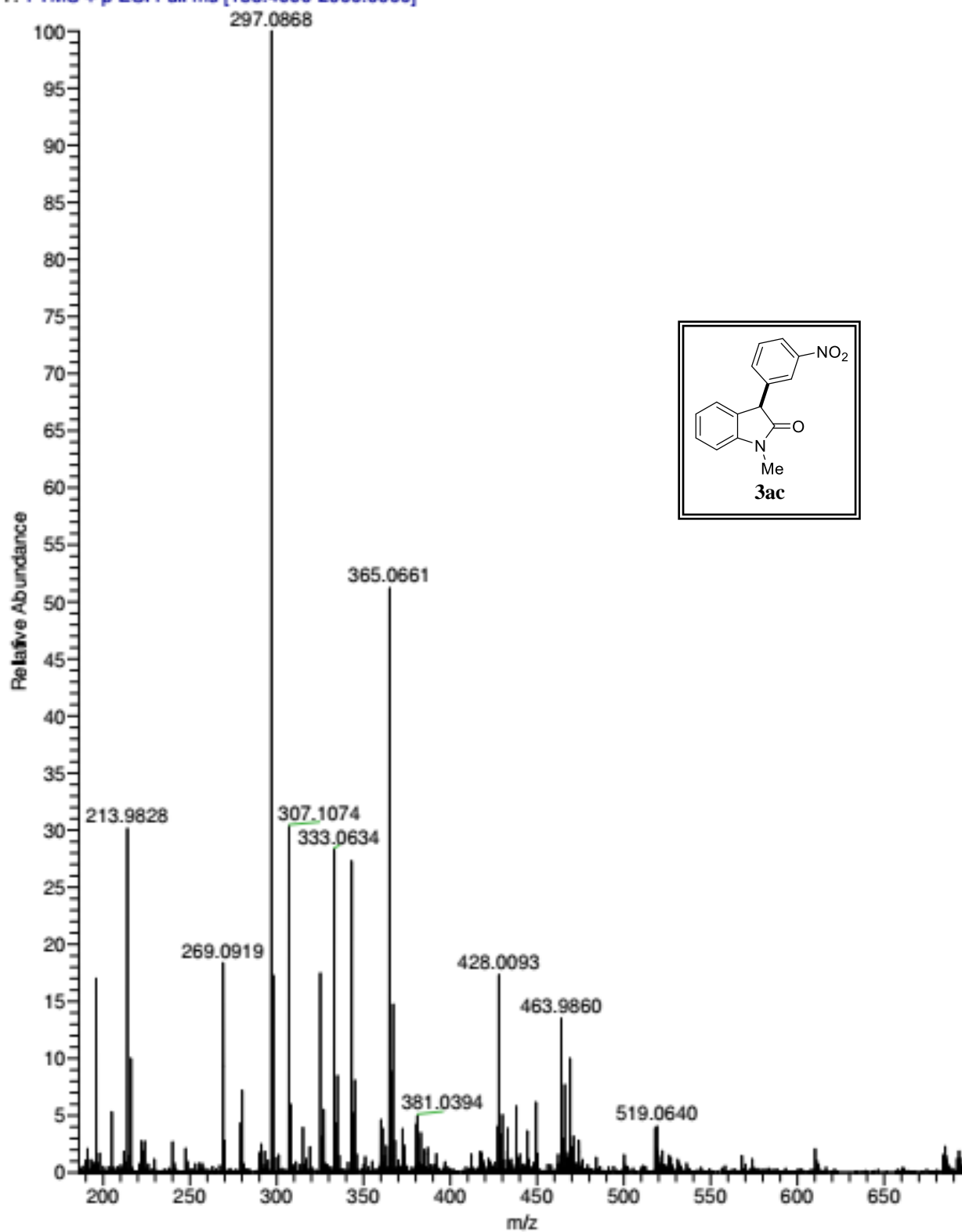
Compound 3ab

APR-832 20210509111039 #28 RT: 0.27 AV: 1 NL: 1.24E7
T: FTMS + p ESI Full ms [133.4000-2000.0000]



Compound 3ac

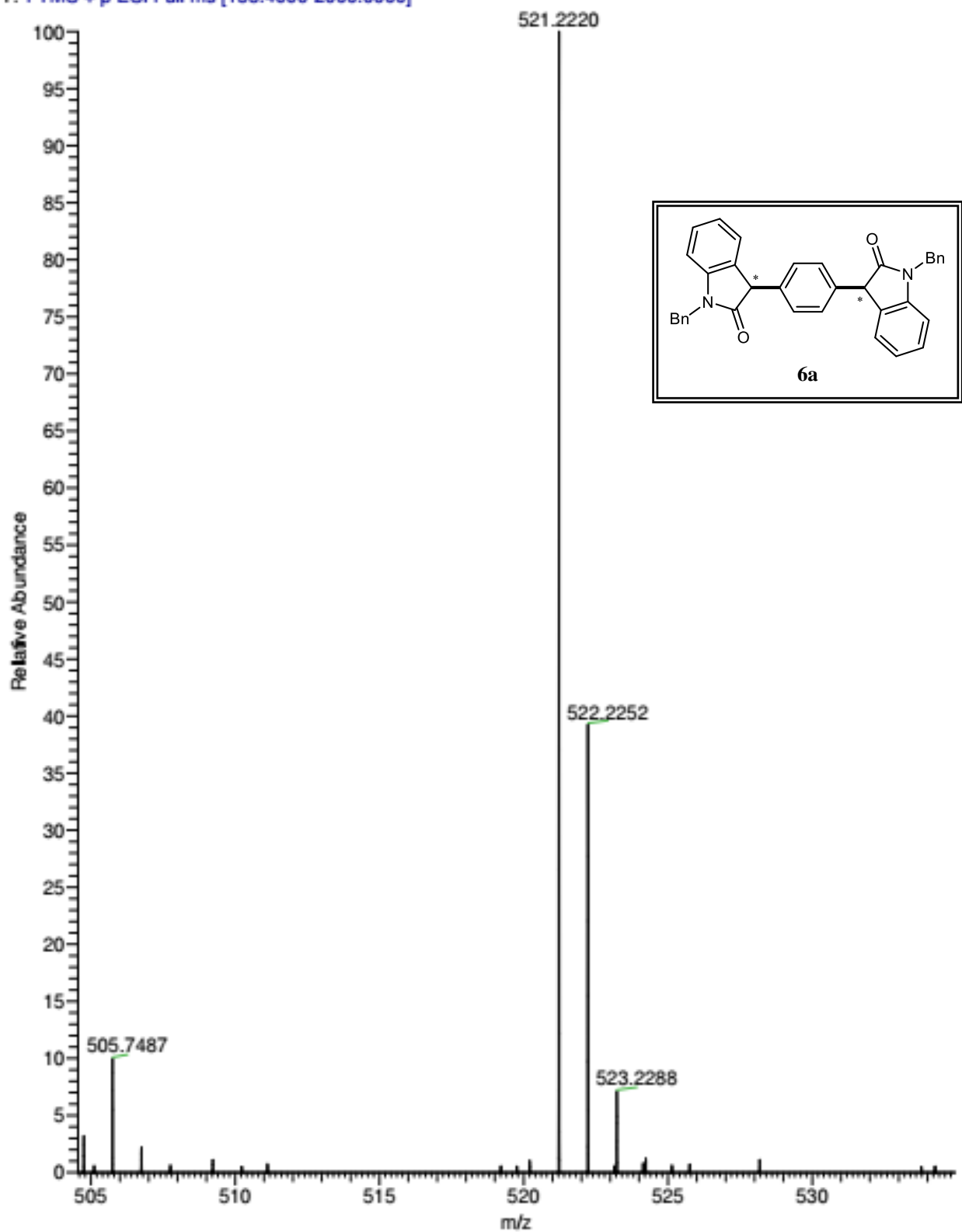
APR-636 #48 RT: 0.47 AV: 1 NL: 7.16E7
T: FTMS + p ESI Full ms [133.4000-2000.0000]



Compound 6a

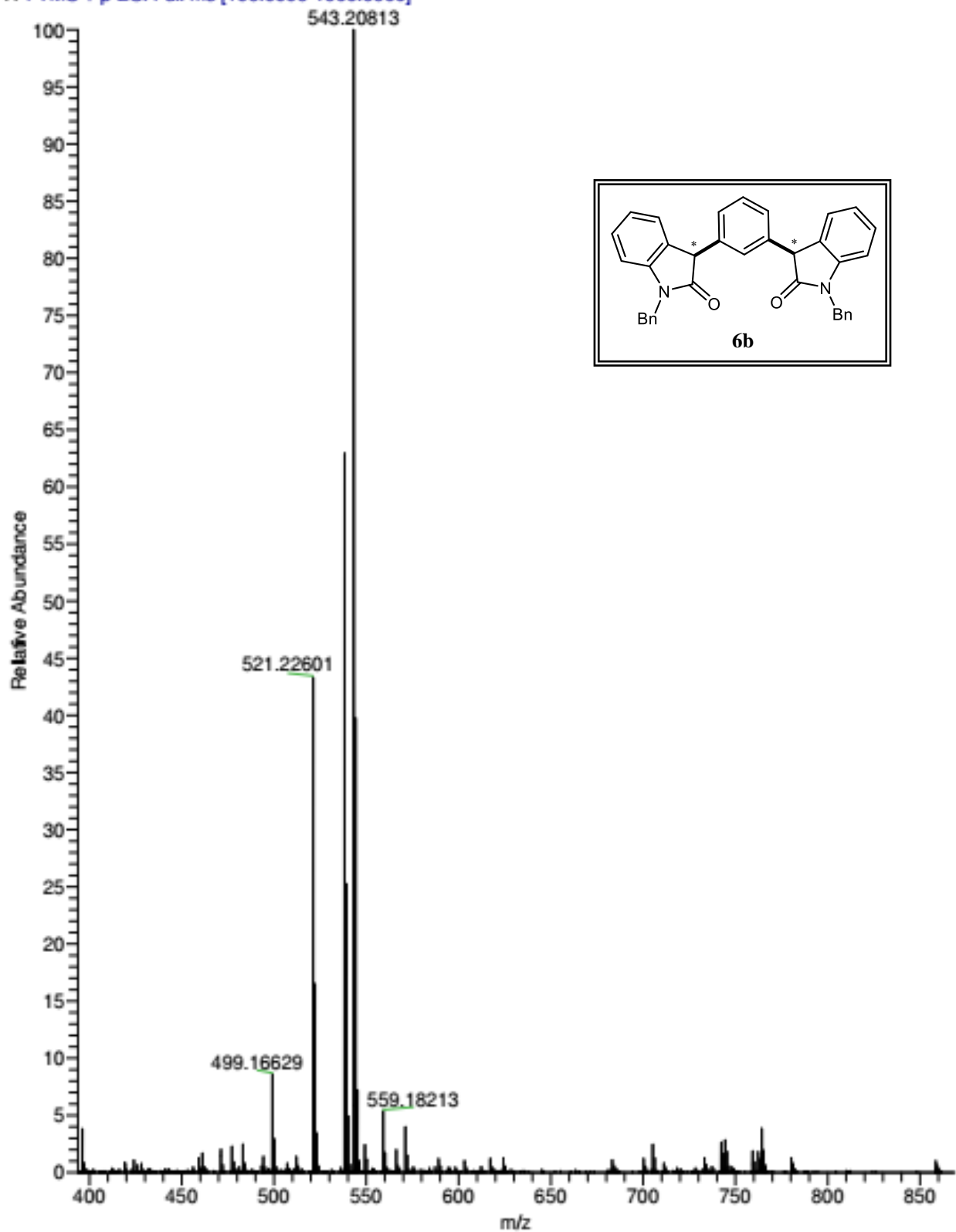
APR-612_20210509110611 #83 RT: 0.81 AV: 1 NL: 6.80E6

T: FTMS + p ESI Full ms [133.4000-2000.0000]



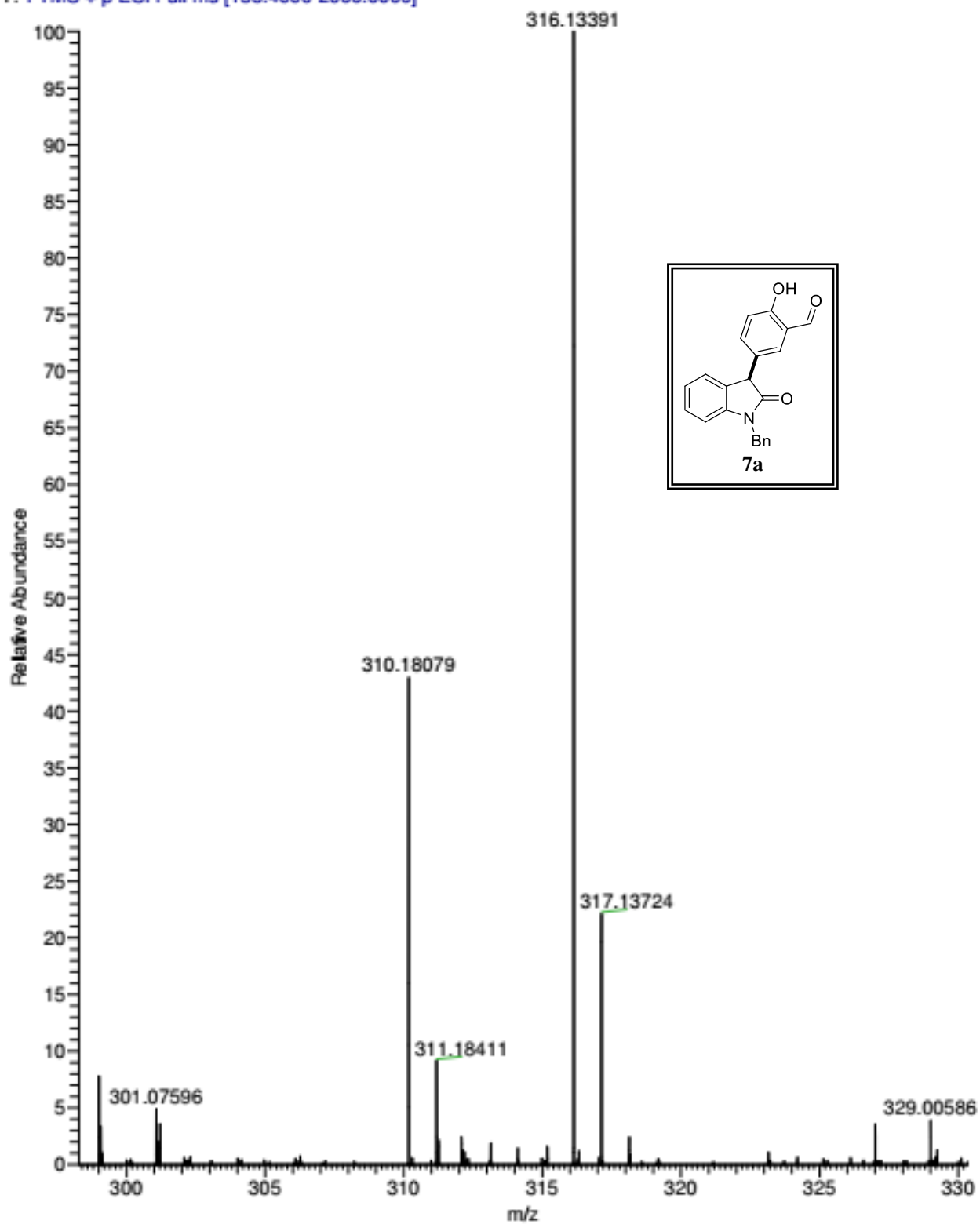
Compound **6b**

APR-684 #49 RT: 0.49 AV: 1 NL: 3.99E7
T: FTMS + p ESI Full ms [100.0000-1000.0000]



Compound 7a

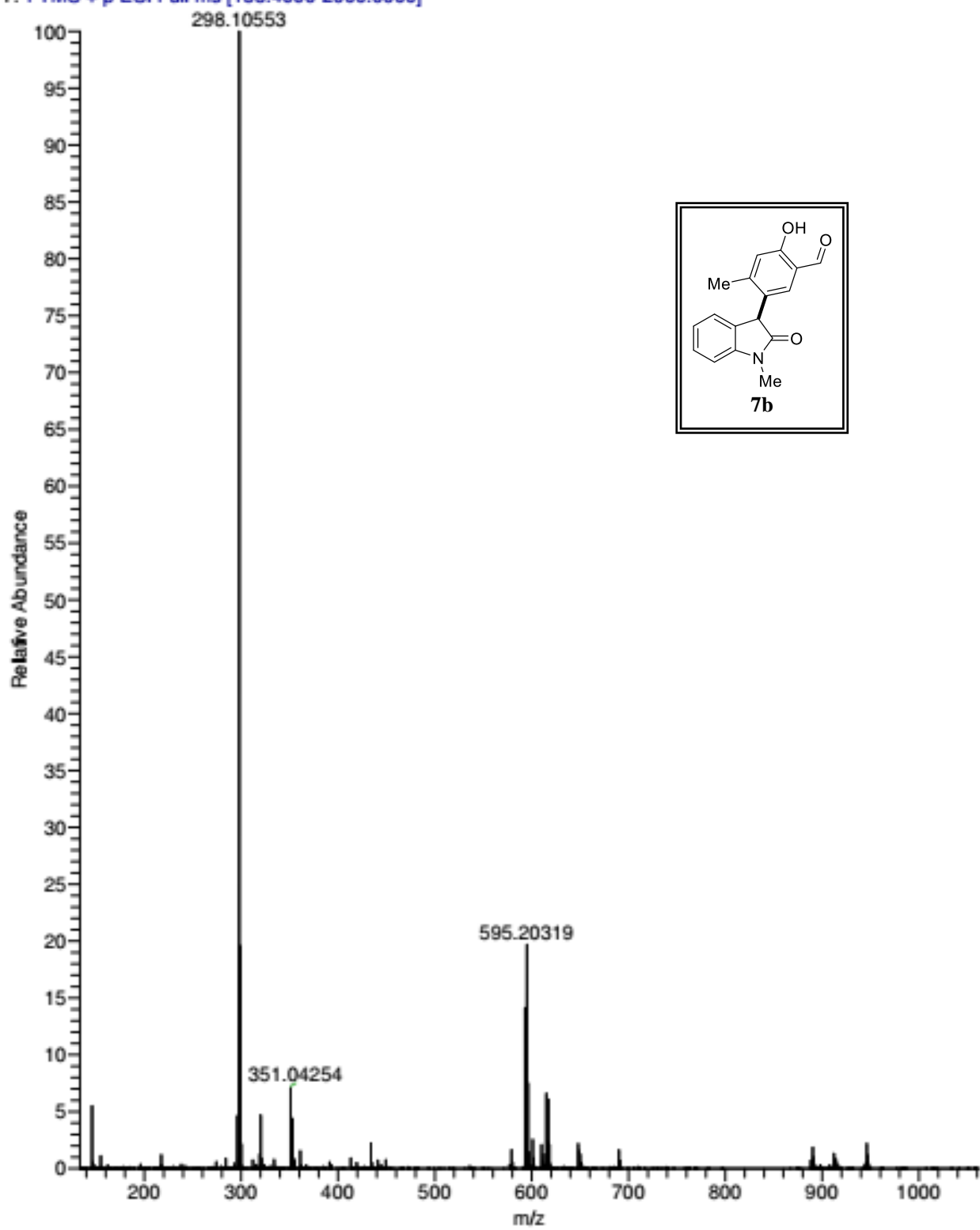
APR-705 #64 RT: 0.63 AV: 1 NL: 4.73E6
T: FTMS + p ESI Full ms [133.4000-2000.0000]



Compound 7b

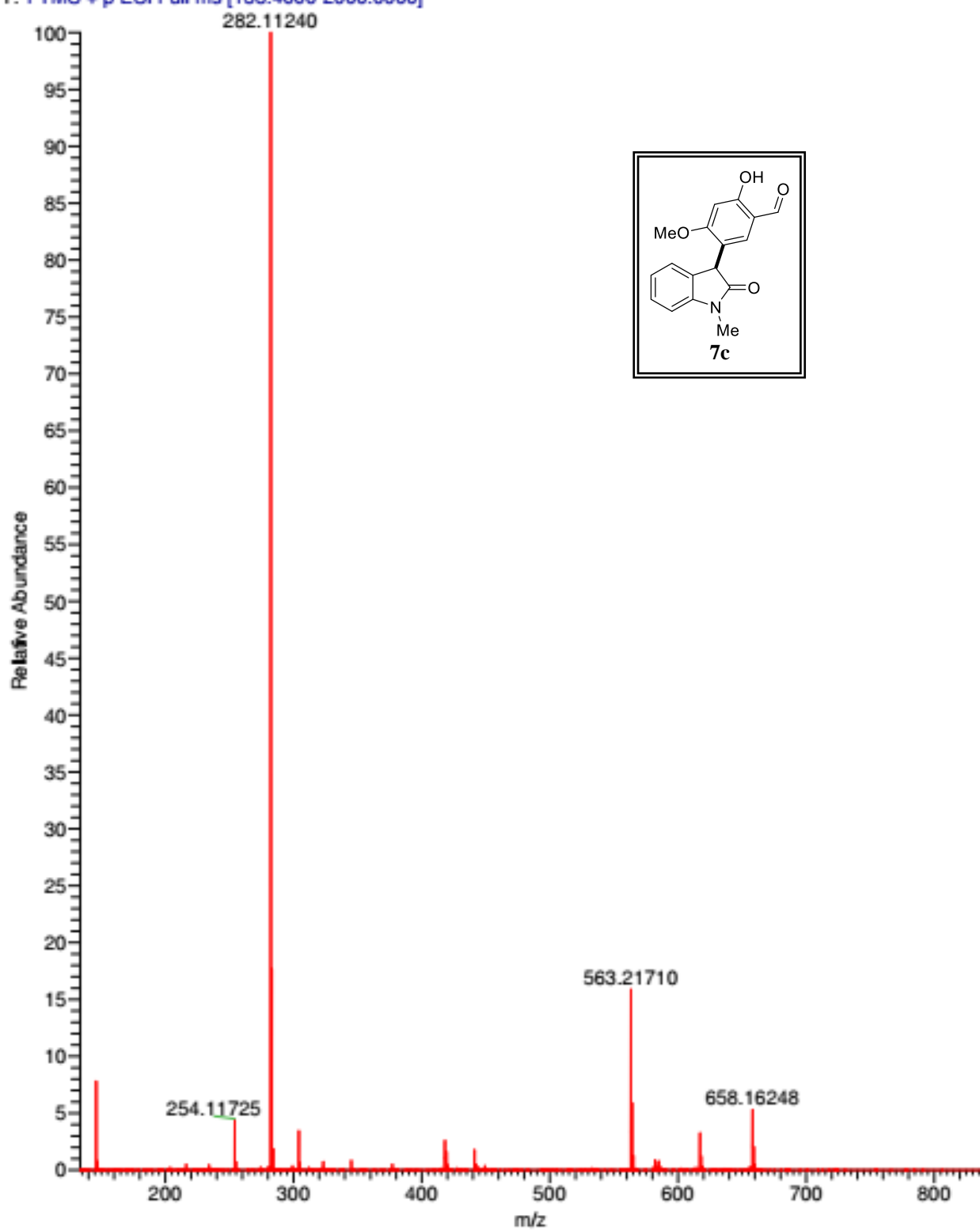
APR-737_20210505163259 #40 RT: 0.39 AV: 1 NL: 1.09E9

T: FTMS + p ESI Full ms [133.4000-2000.0000]



Compound 7c

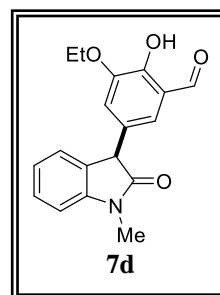
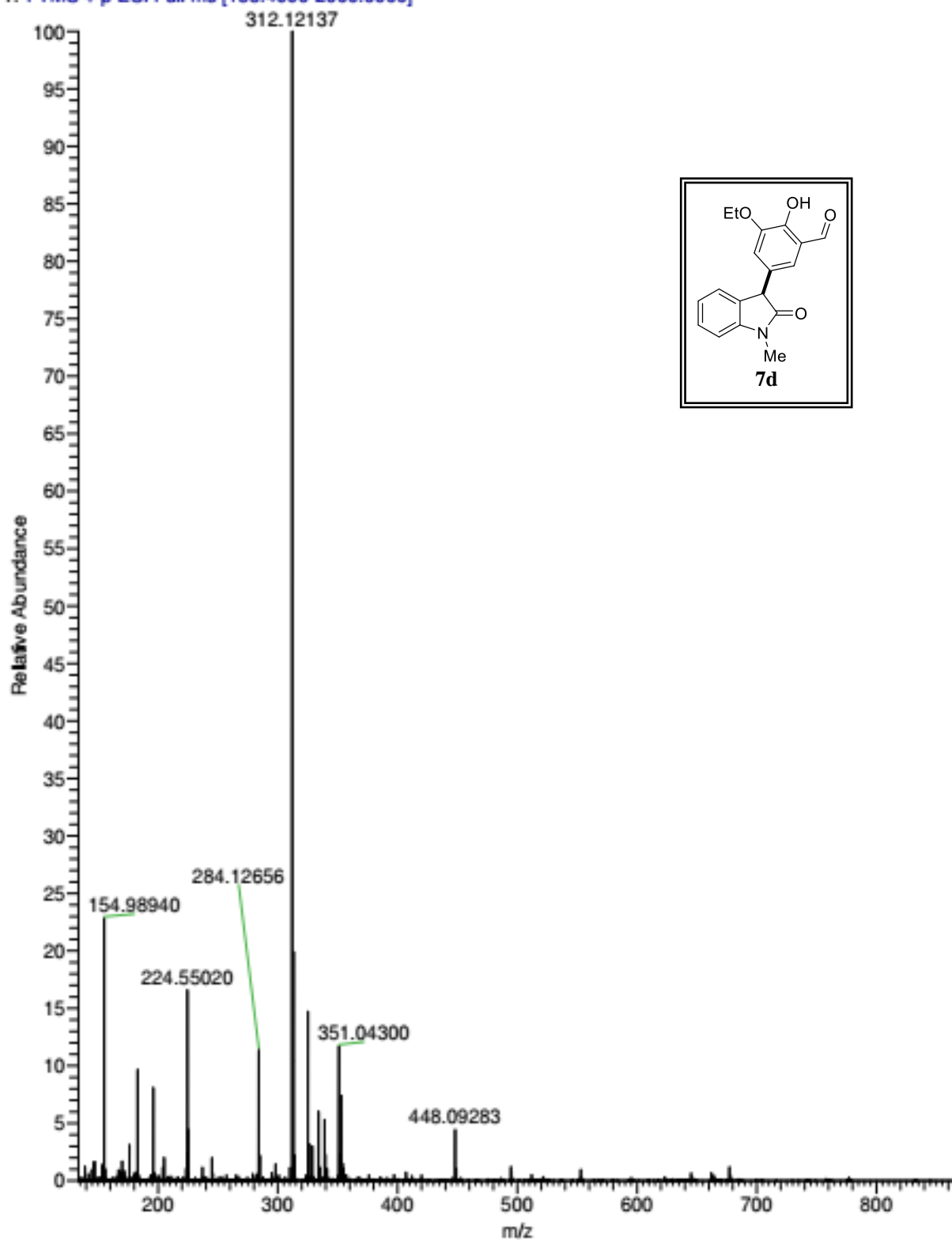
APR-735 #40 RT: 0.39 AV: 1 NL: 2.56E9
T: FTMS + p ESI Full ms [133.4000-2000.0000]



Compound 7d

APR-739_20210505164136 #94 RT: 0.91 AV: 1 NL: 2.00E8

T: FTMS + p ESI Full ms [133.4000-2000.0000]



Compound 8

APR-815_220211174005 #605 RT: 5.60 AV: 1 NL: 4.33E7

F: ITMS + c ESI Full ms[150.00-2000.00]

