

Supplementary Material

Epoxide ring-opening approach to the synthesis of diverse trisubstituted cyclopentanes

Evgeni A. Larin,^{a*} Yuri M. Atroshchenko^b

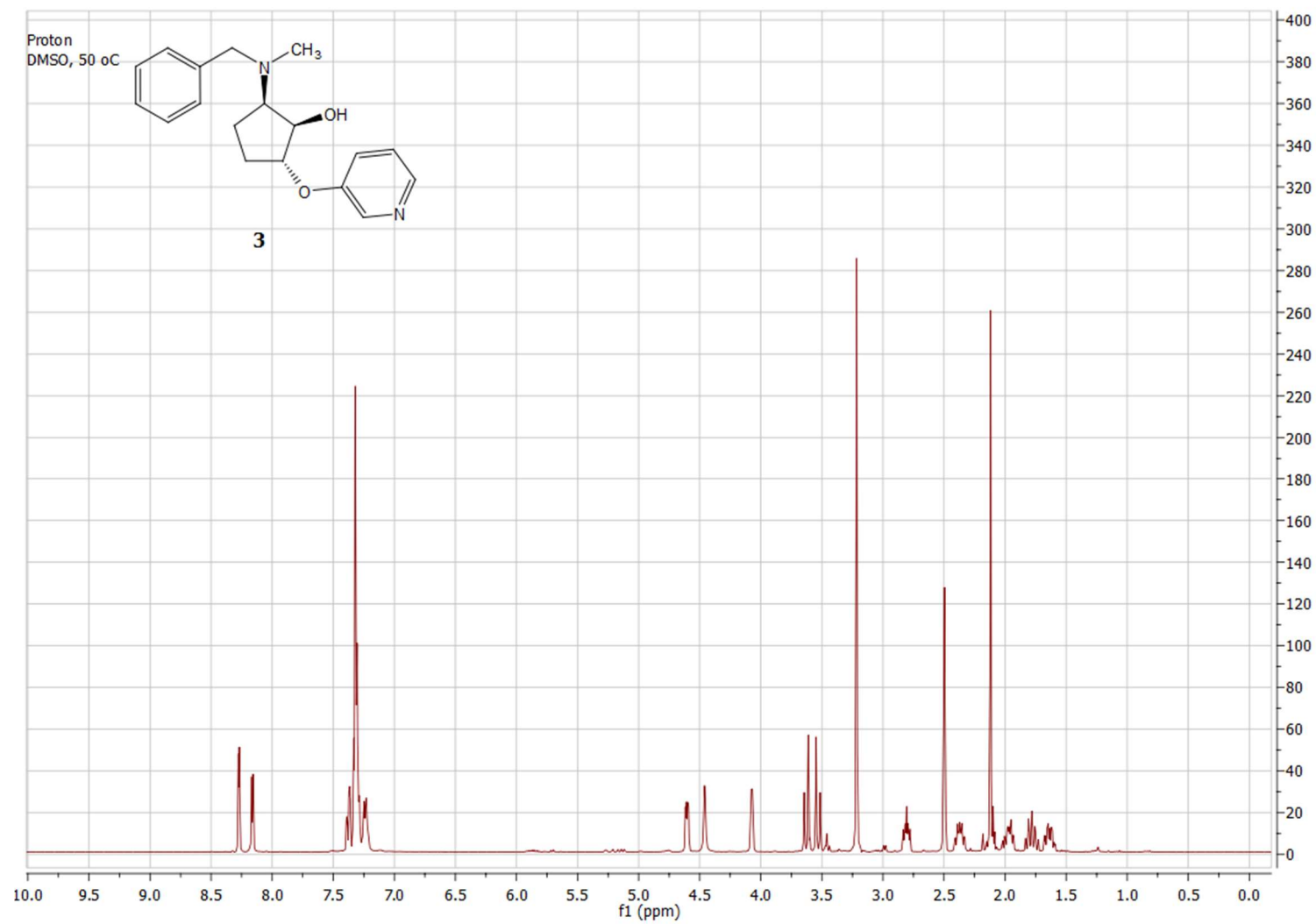
^a *Organic Synthesis Laboratory, NST LLC, 20 Geroev Panfilovtsev Str., Moscow, 125480, Russian Federation.*

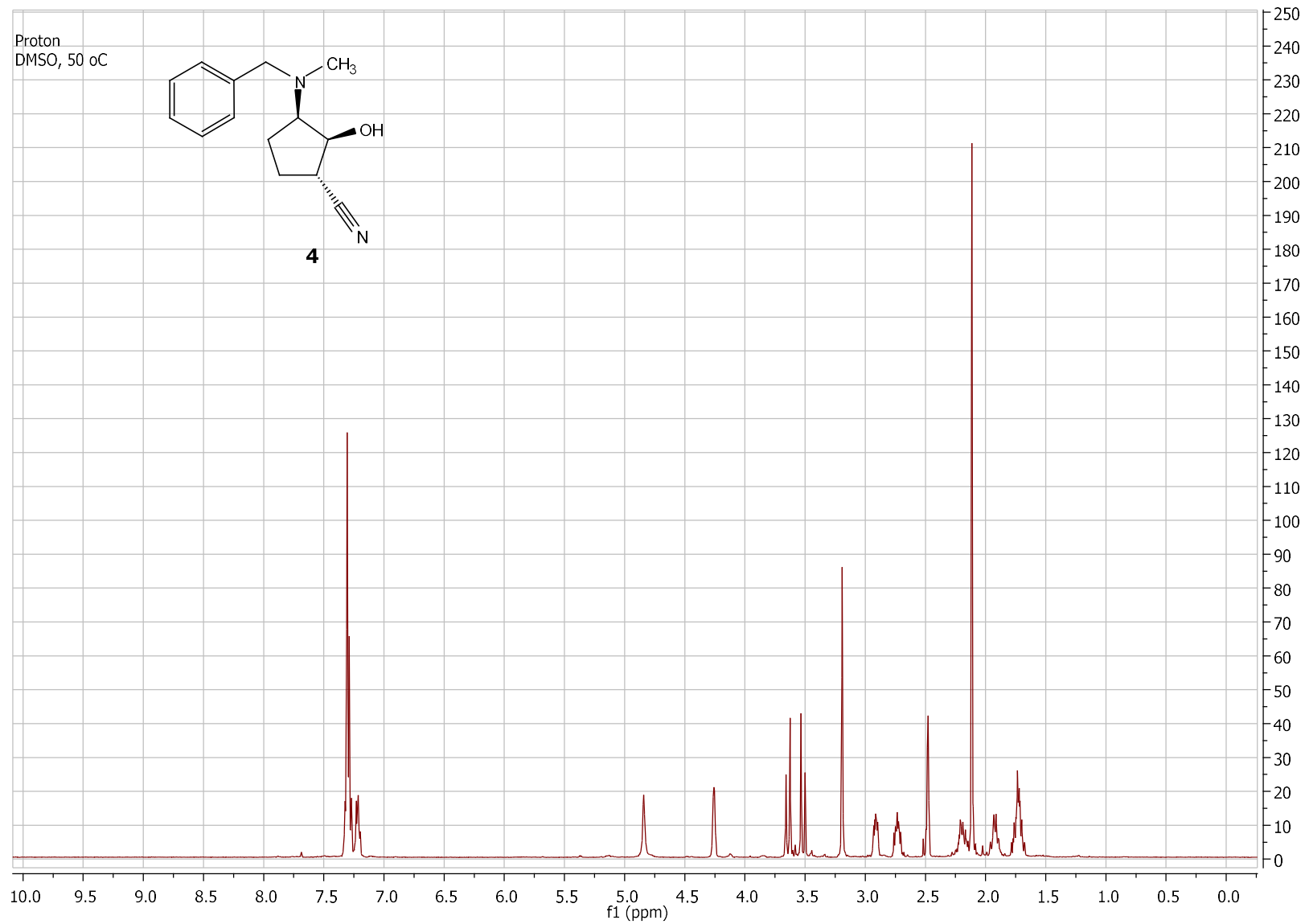
^b *Chemistry Department, L.N. Tolstoy Tula State Pedagogical University, 125 Lenin Av., Tula, 300026, Russian Federation.*

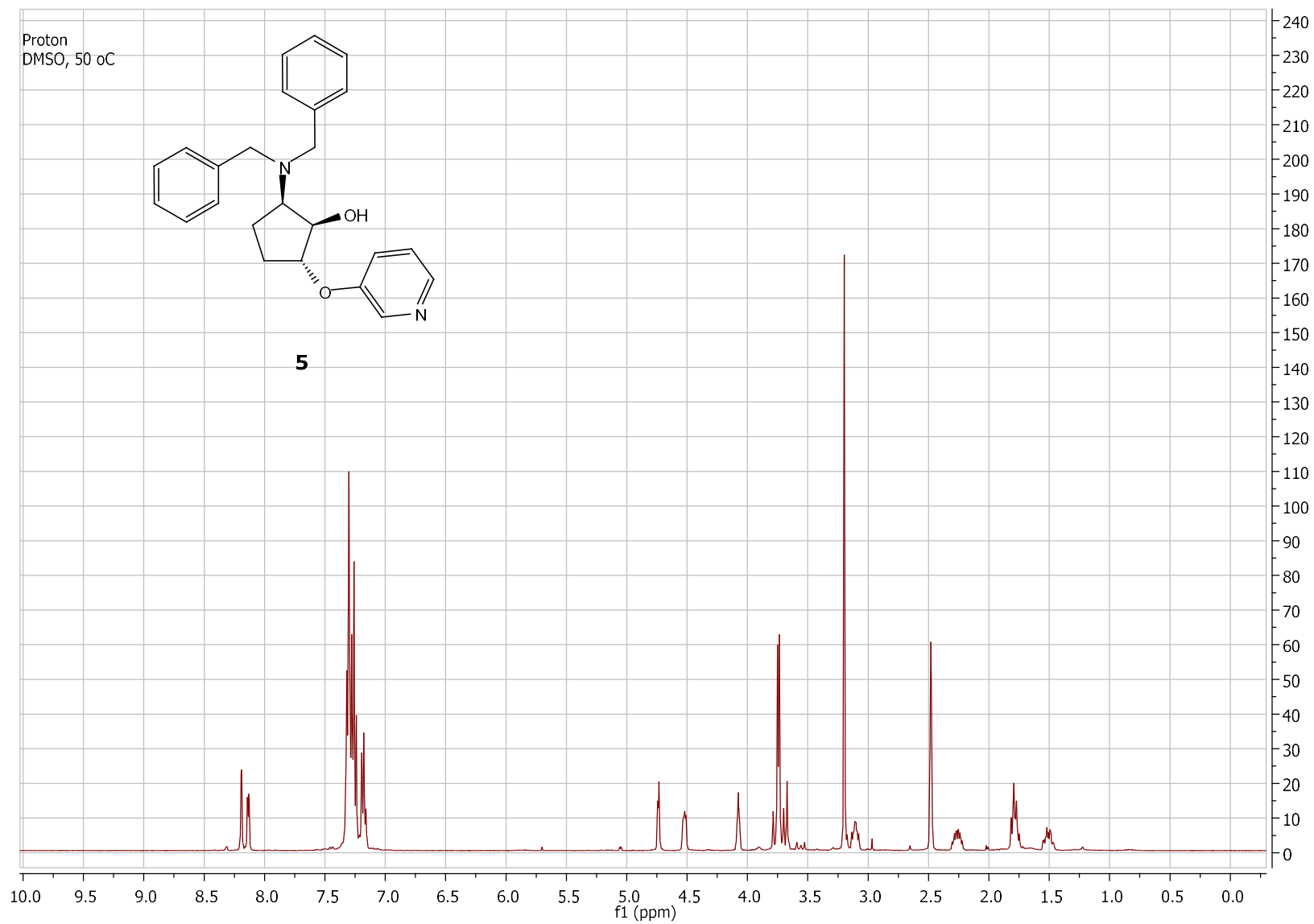
E-mail: elarin@asinex.com

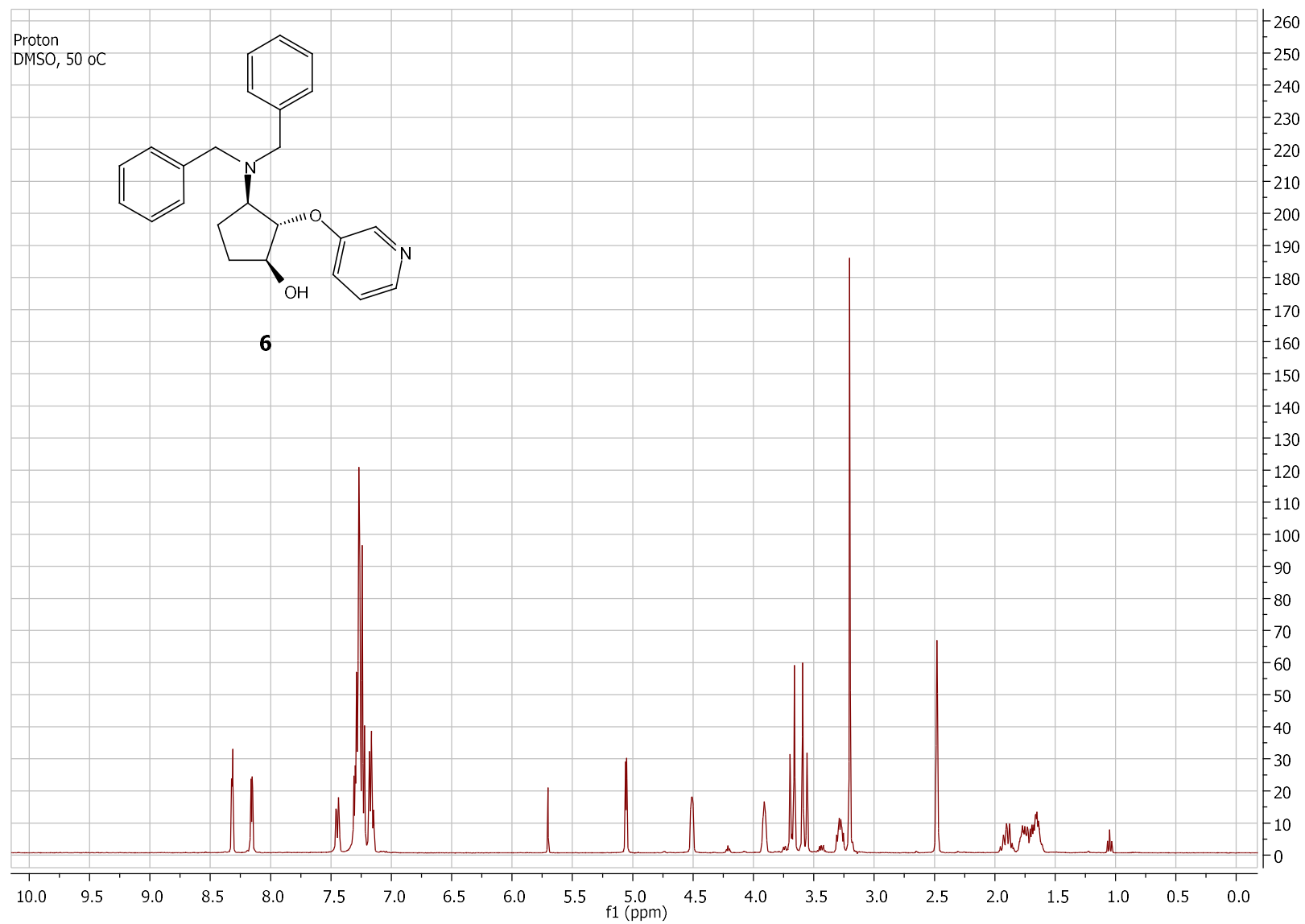
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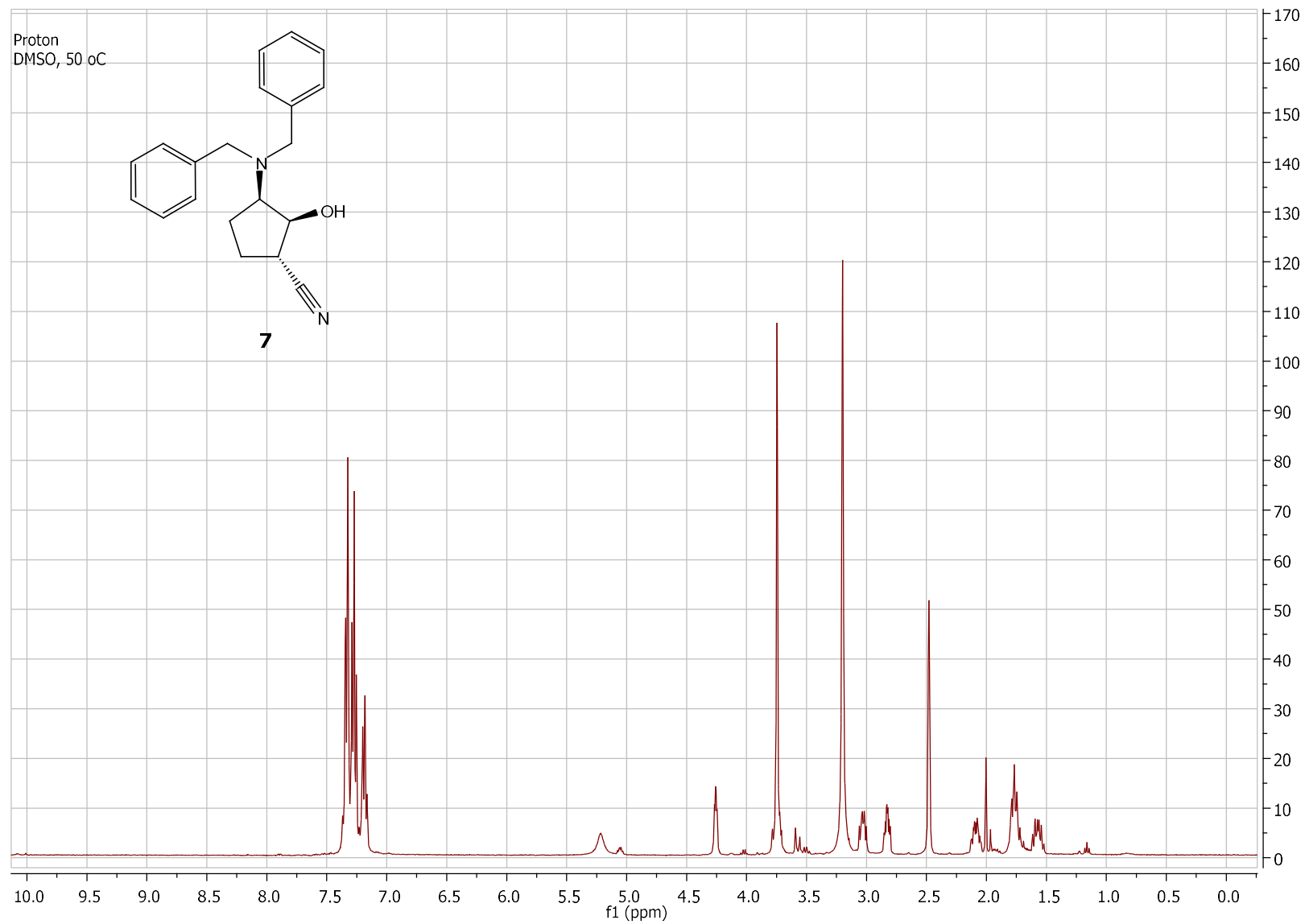
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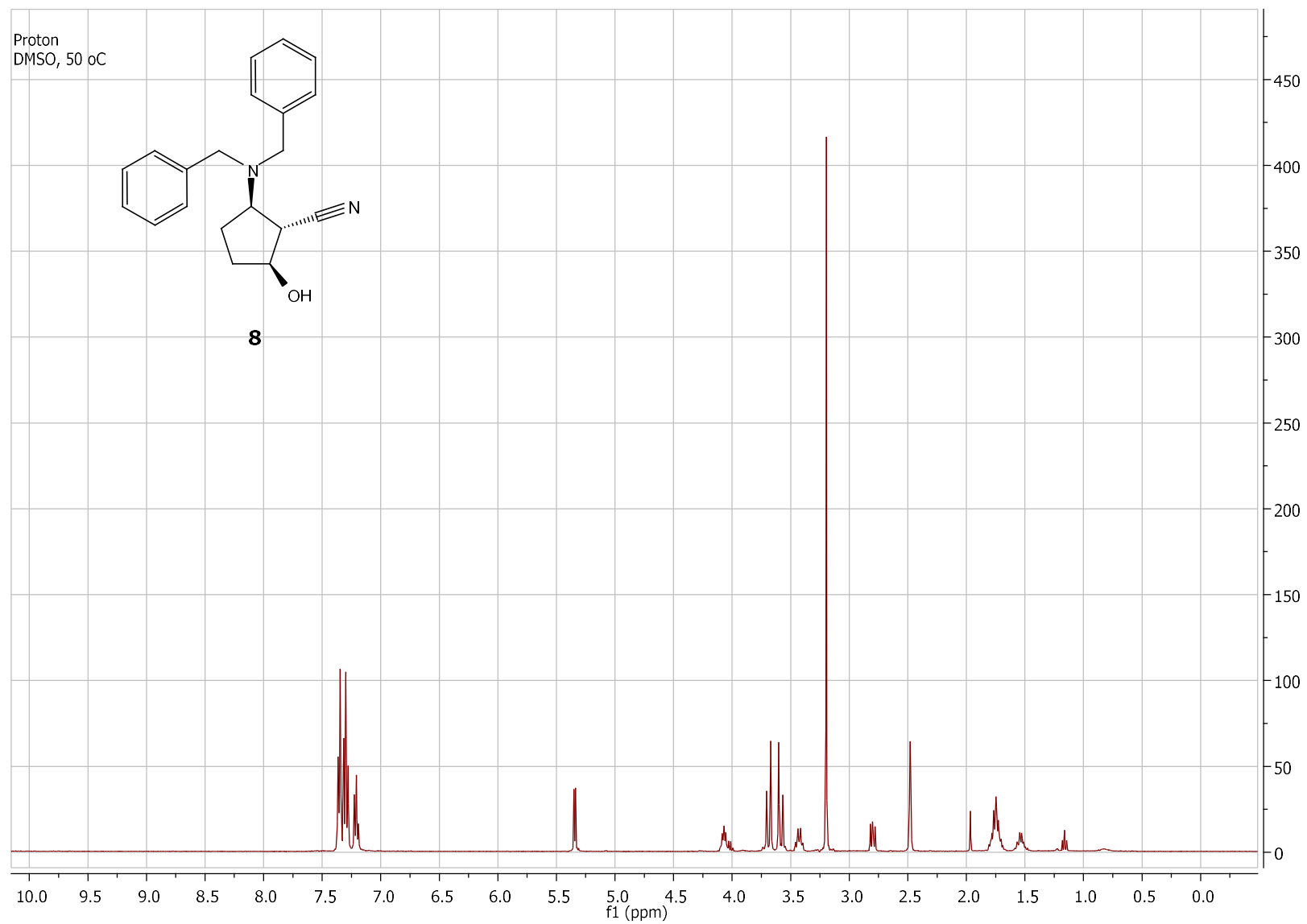


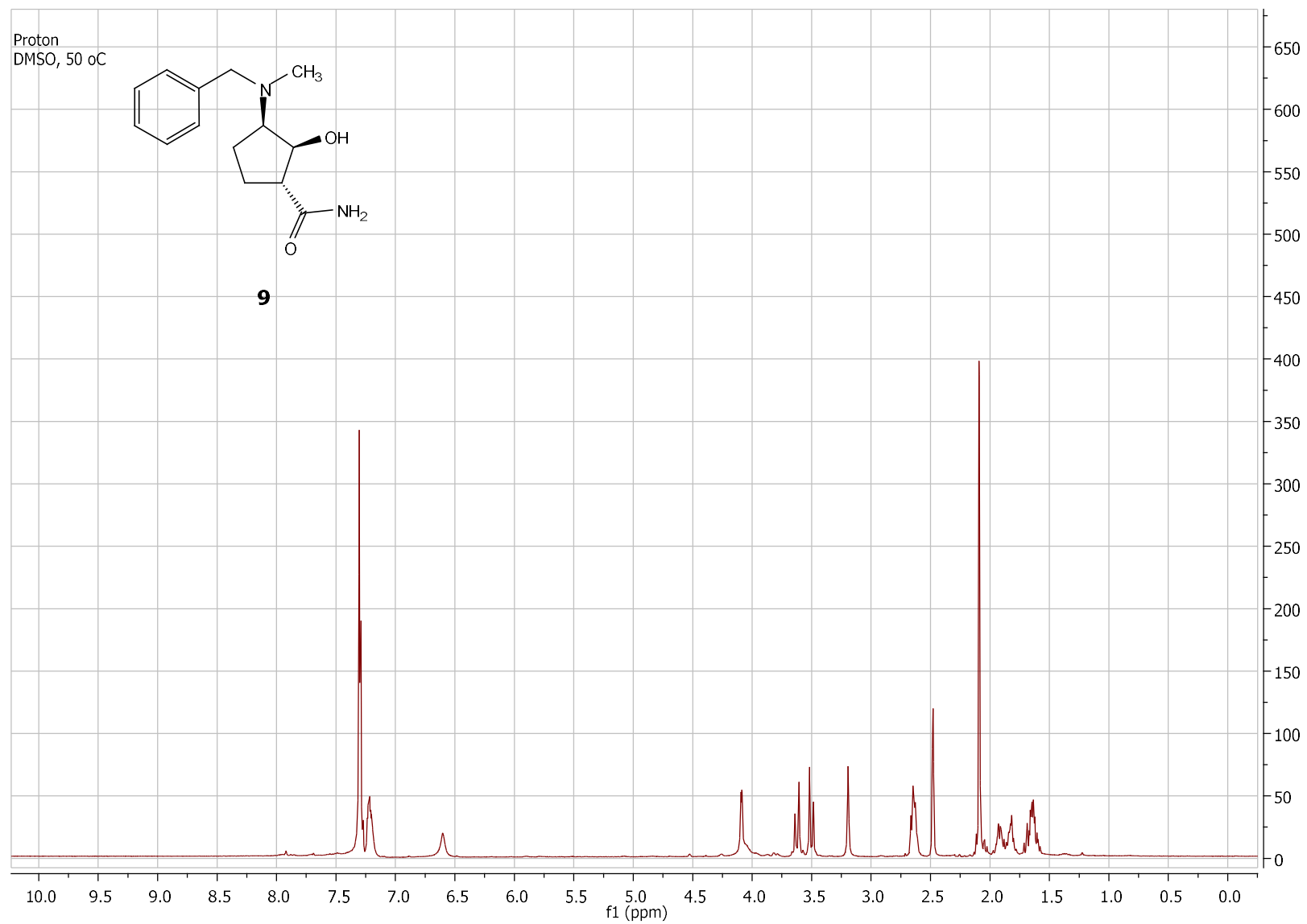


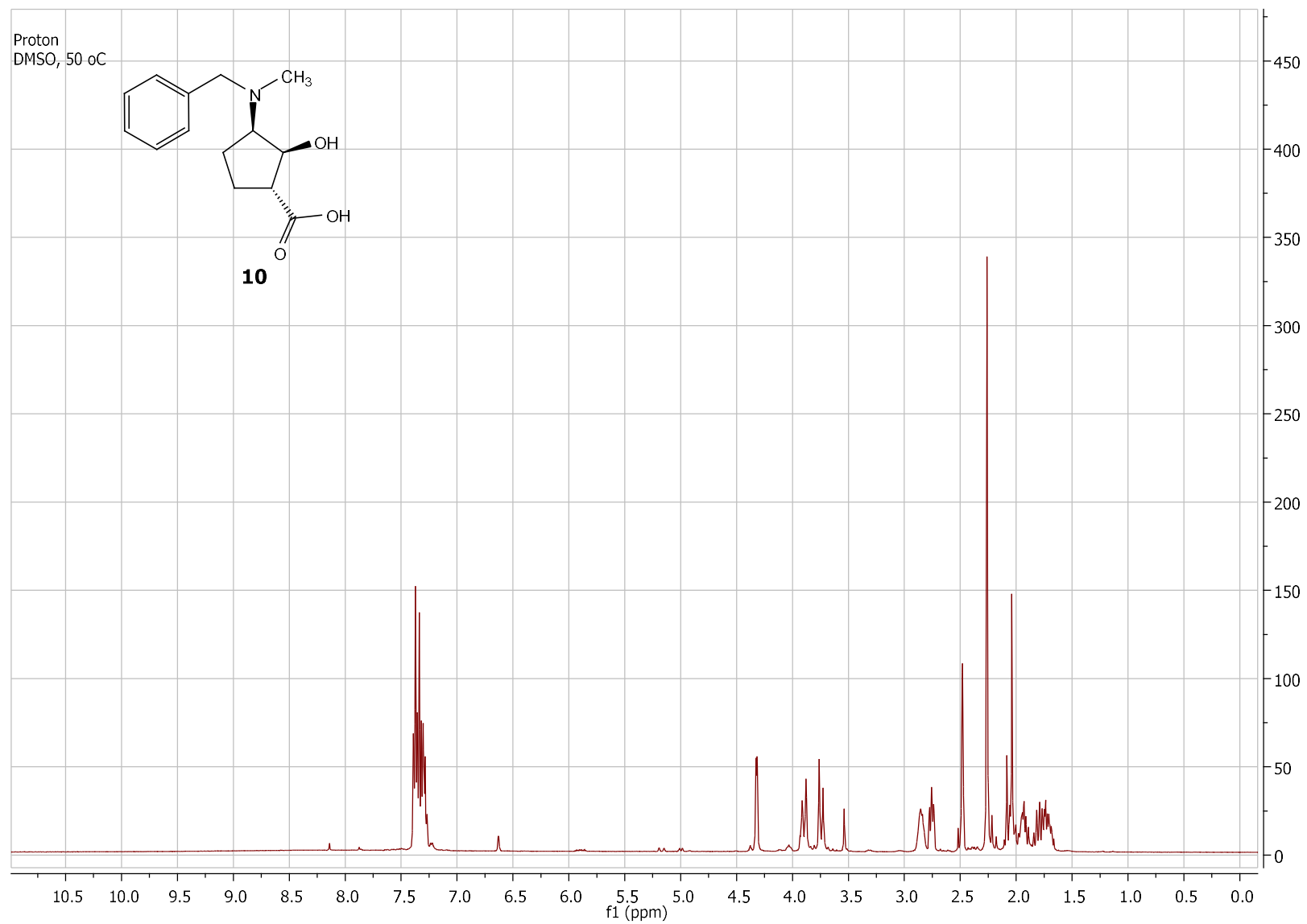


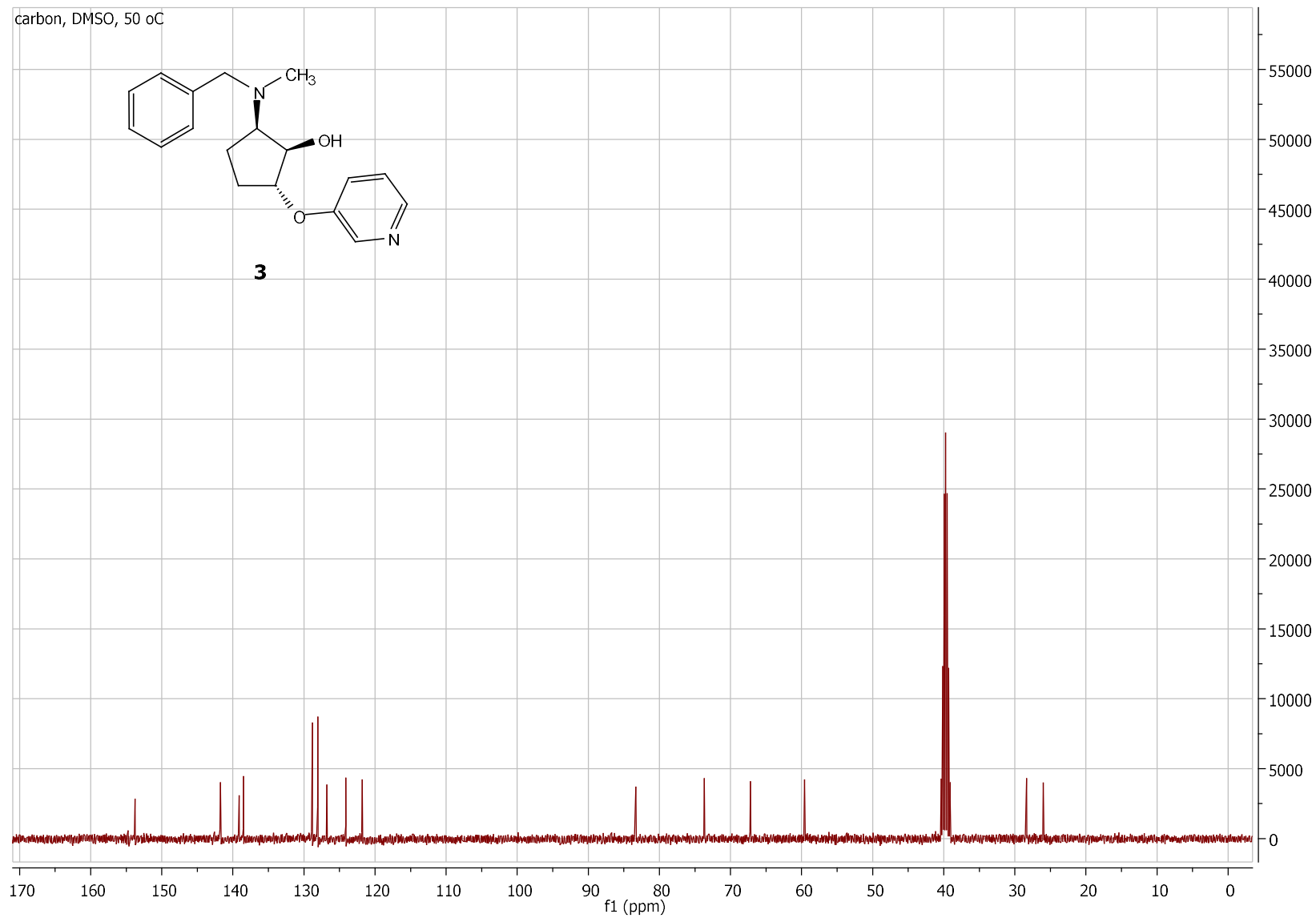


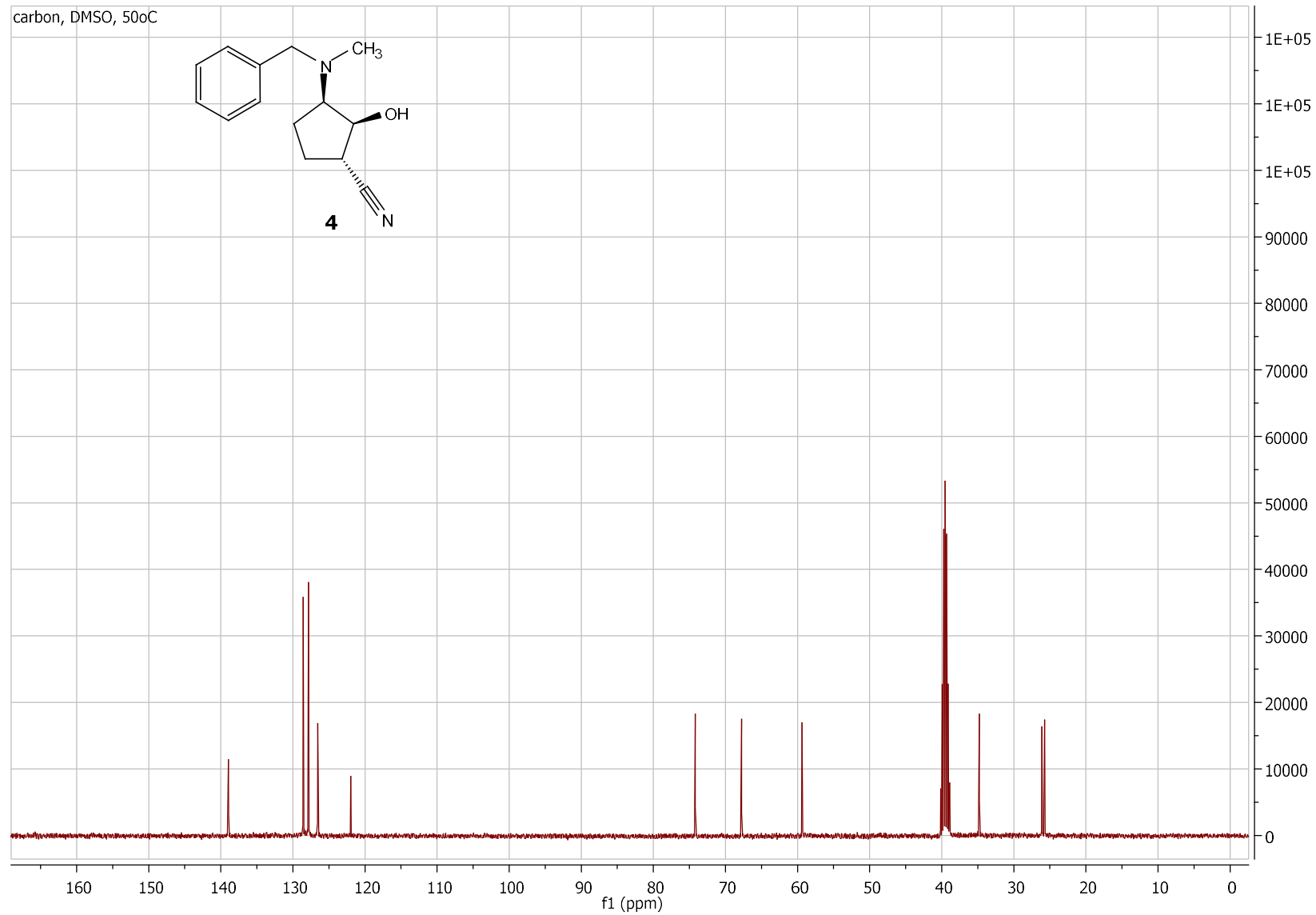


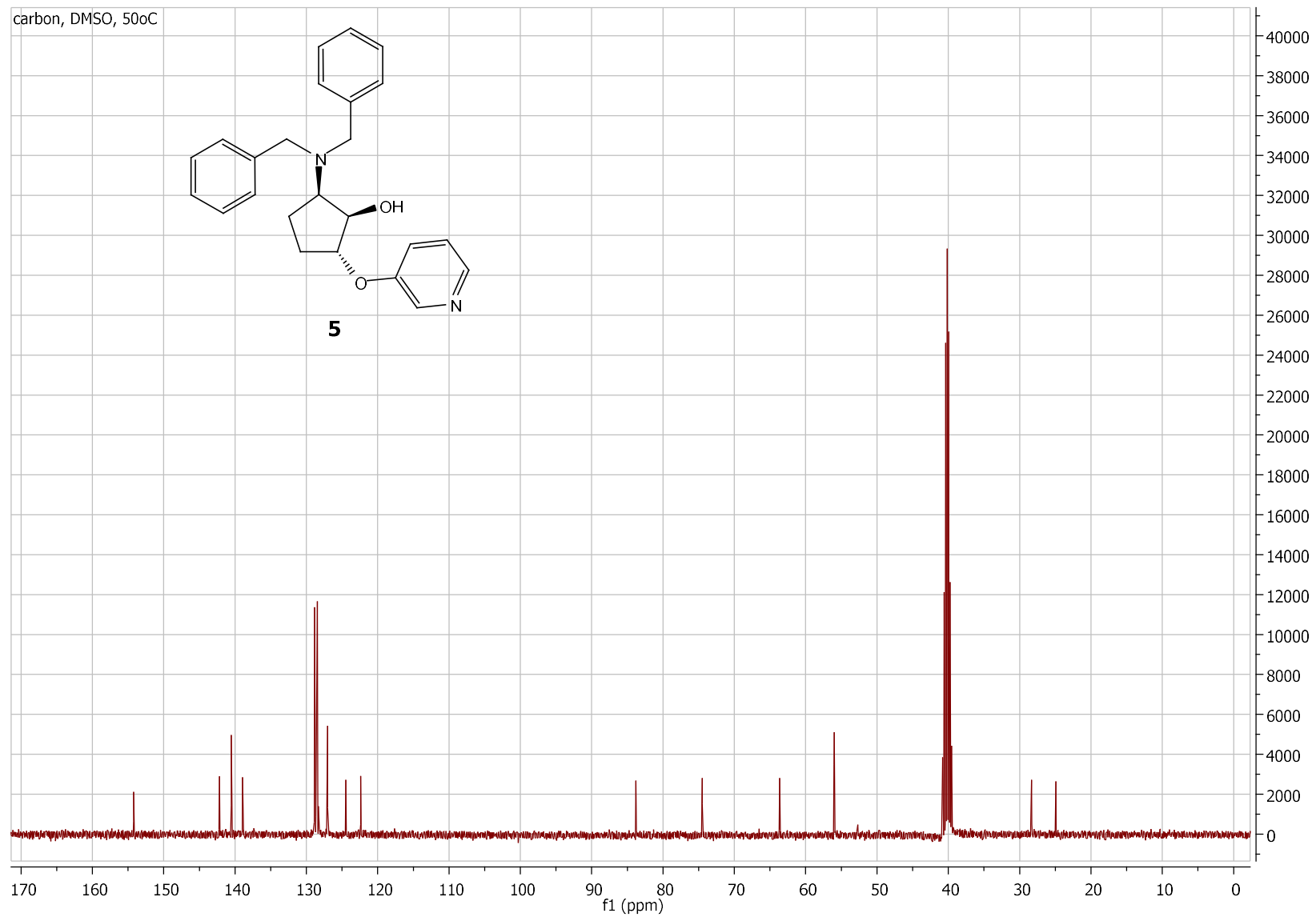


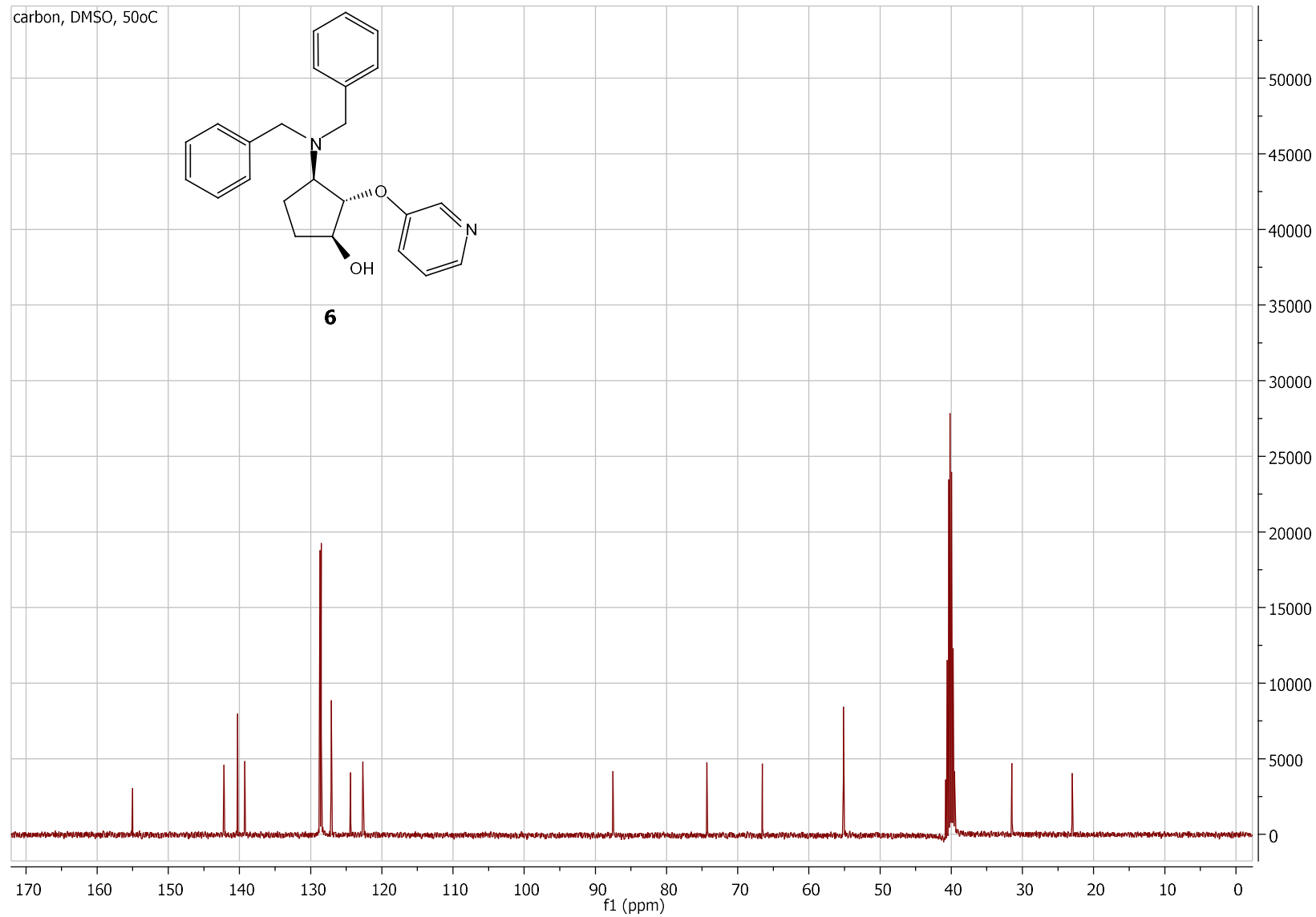


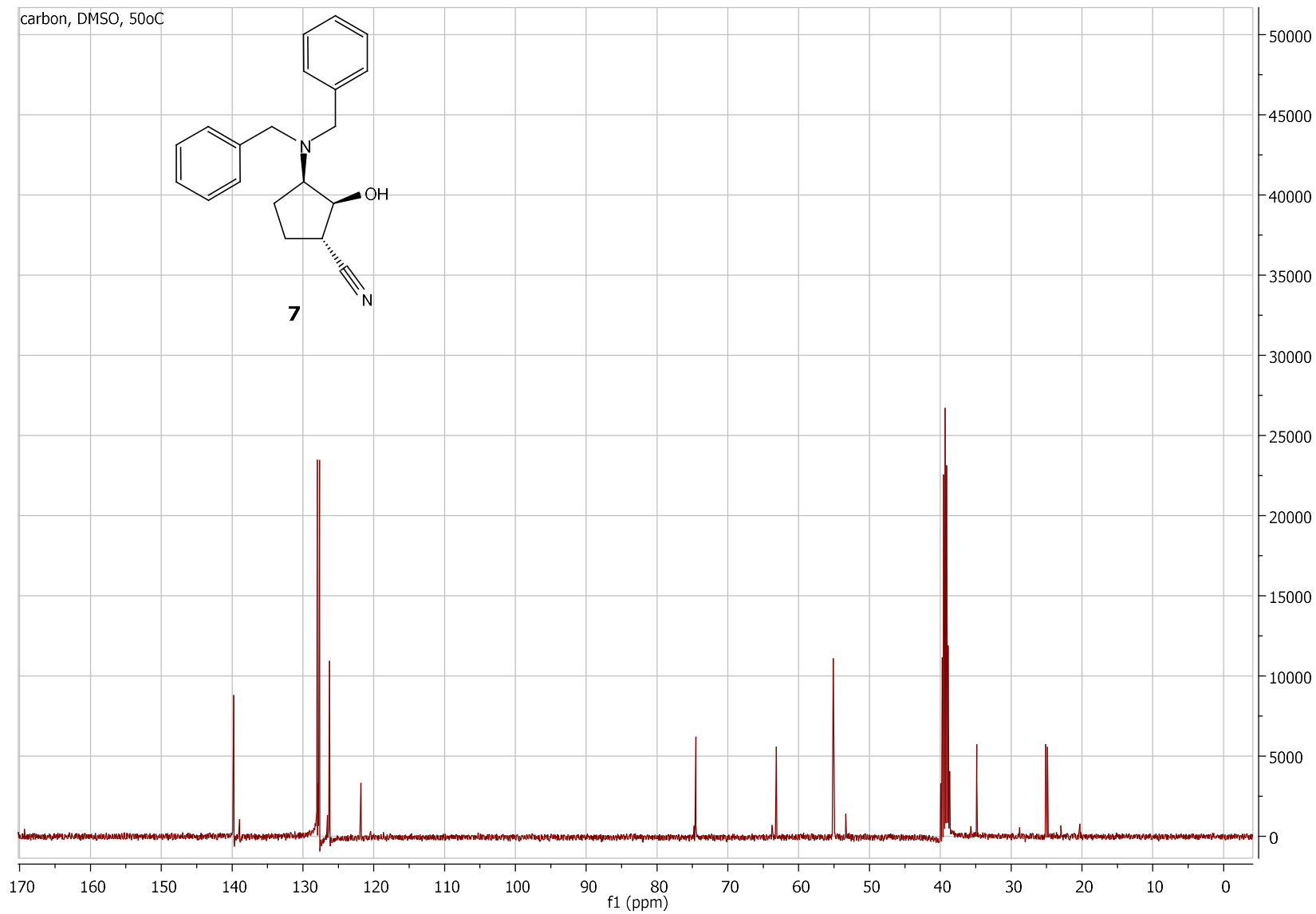


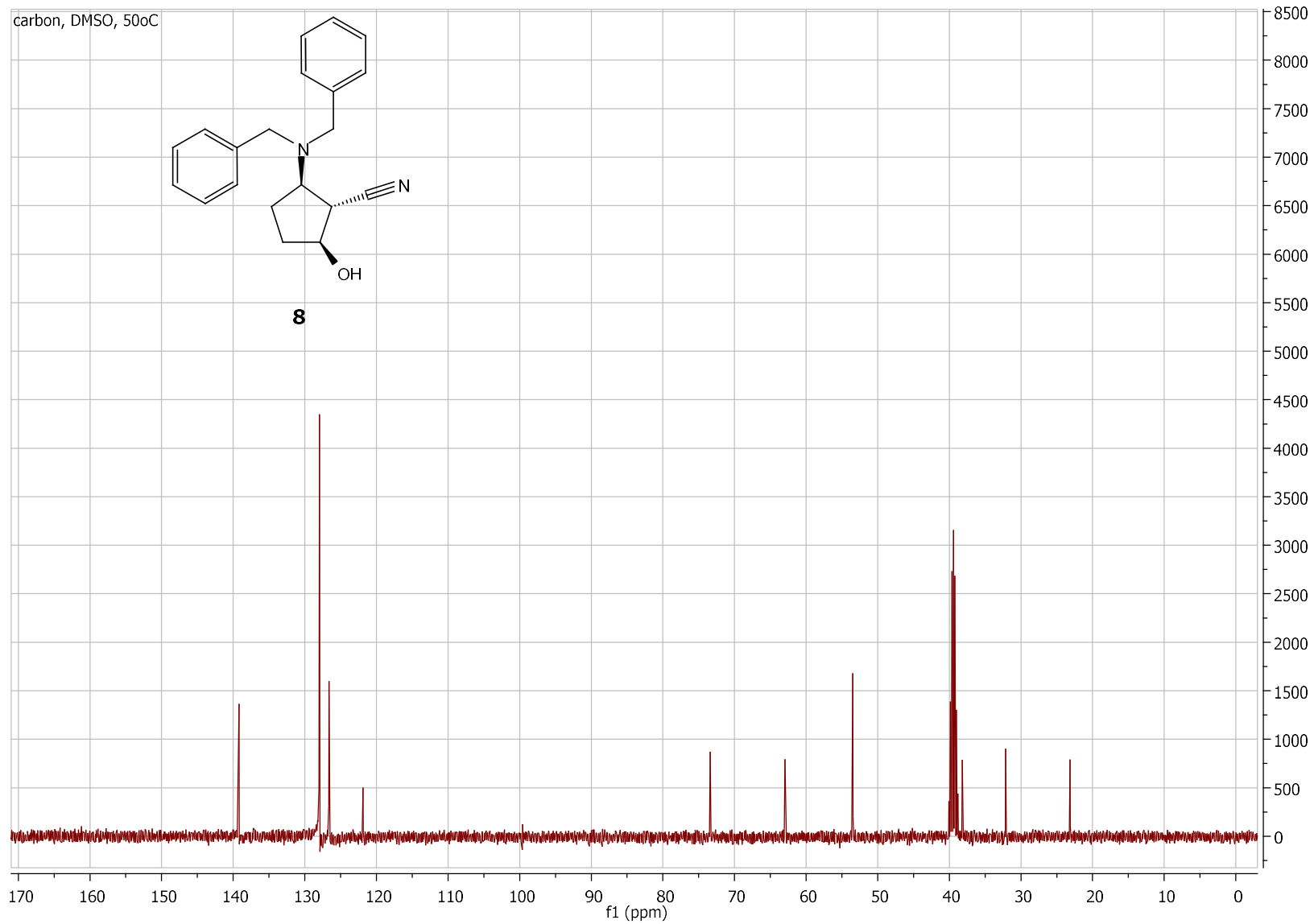


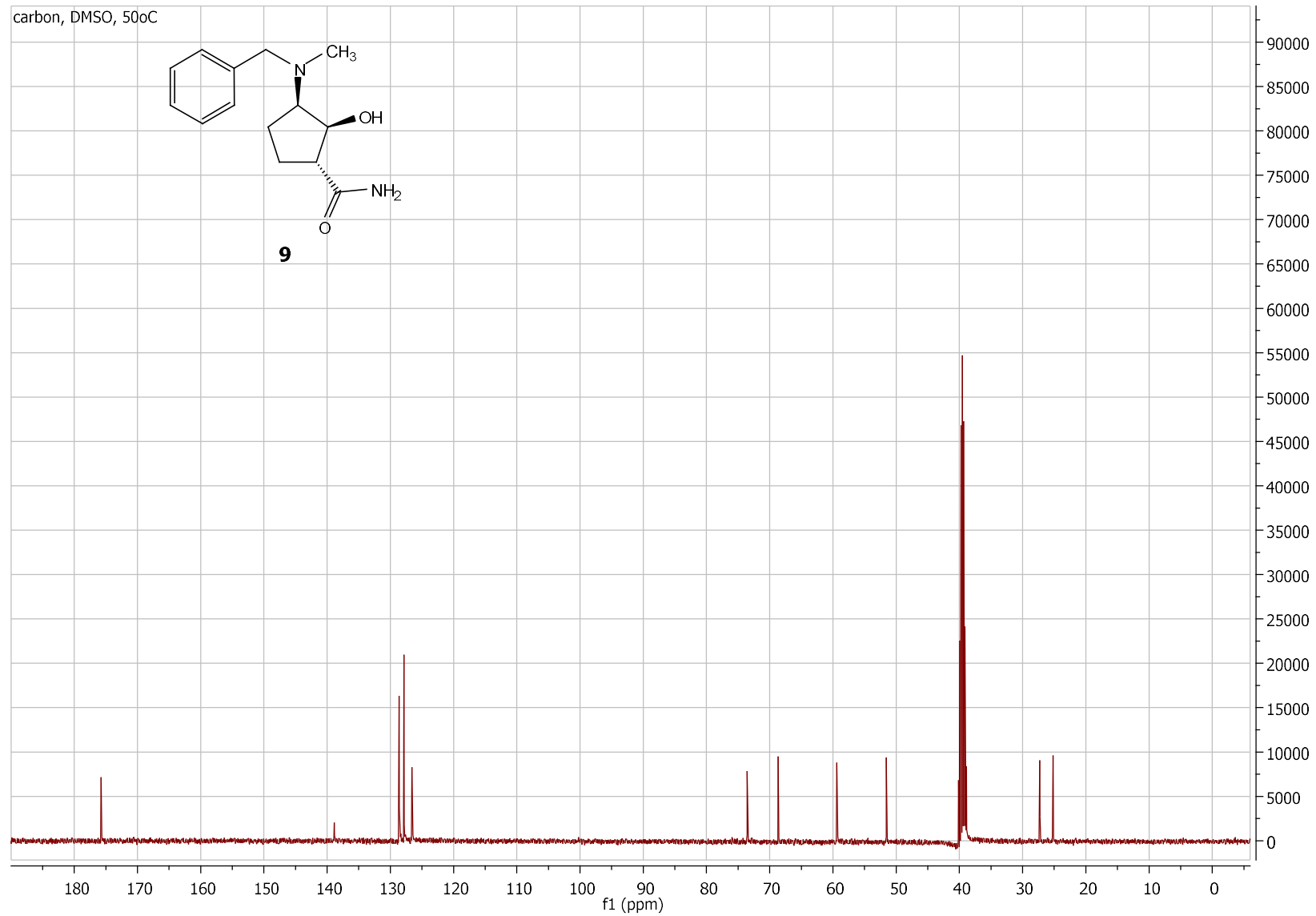


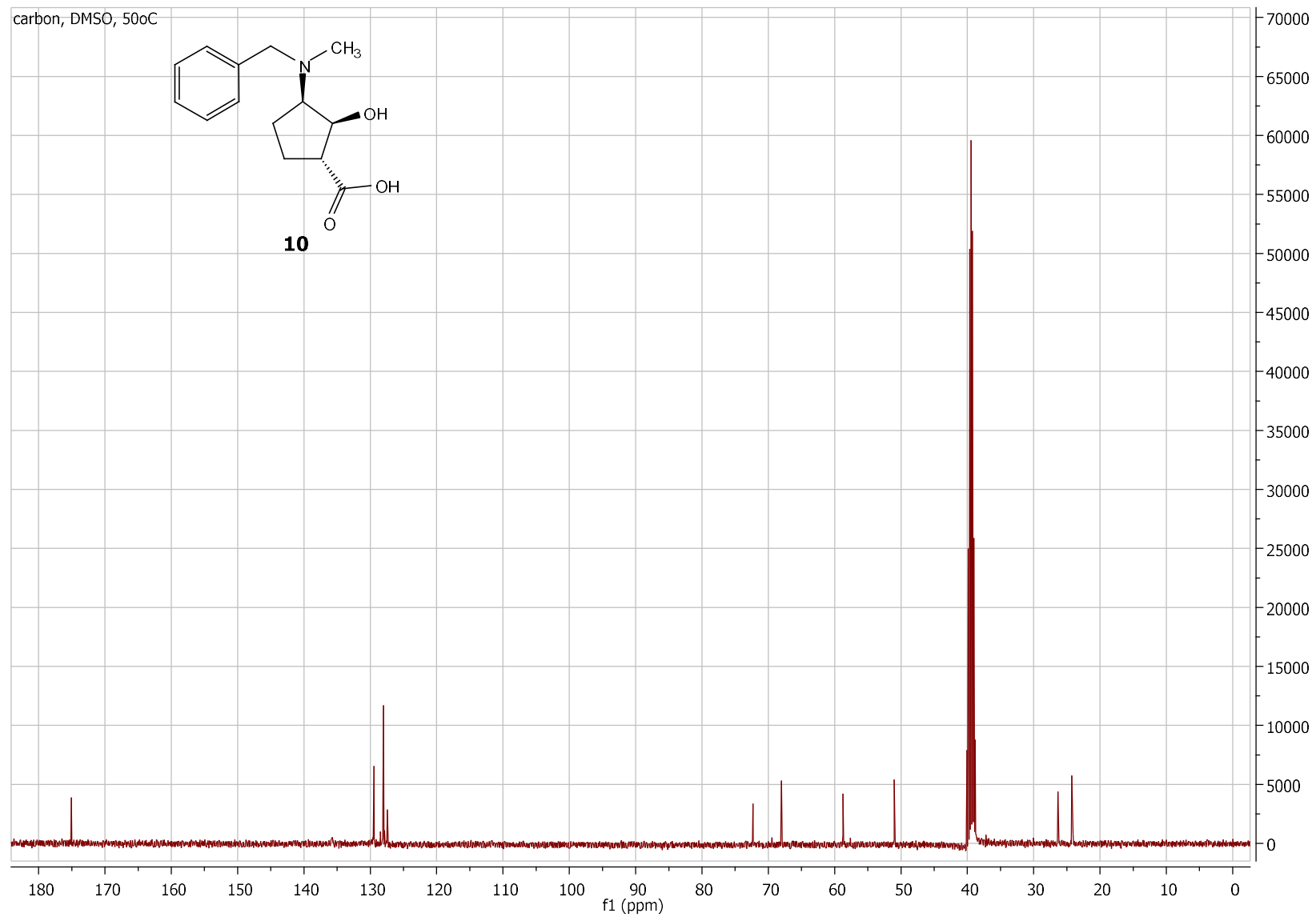


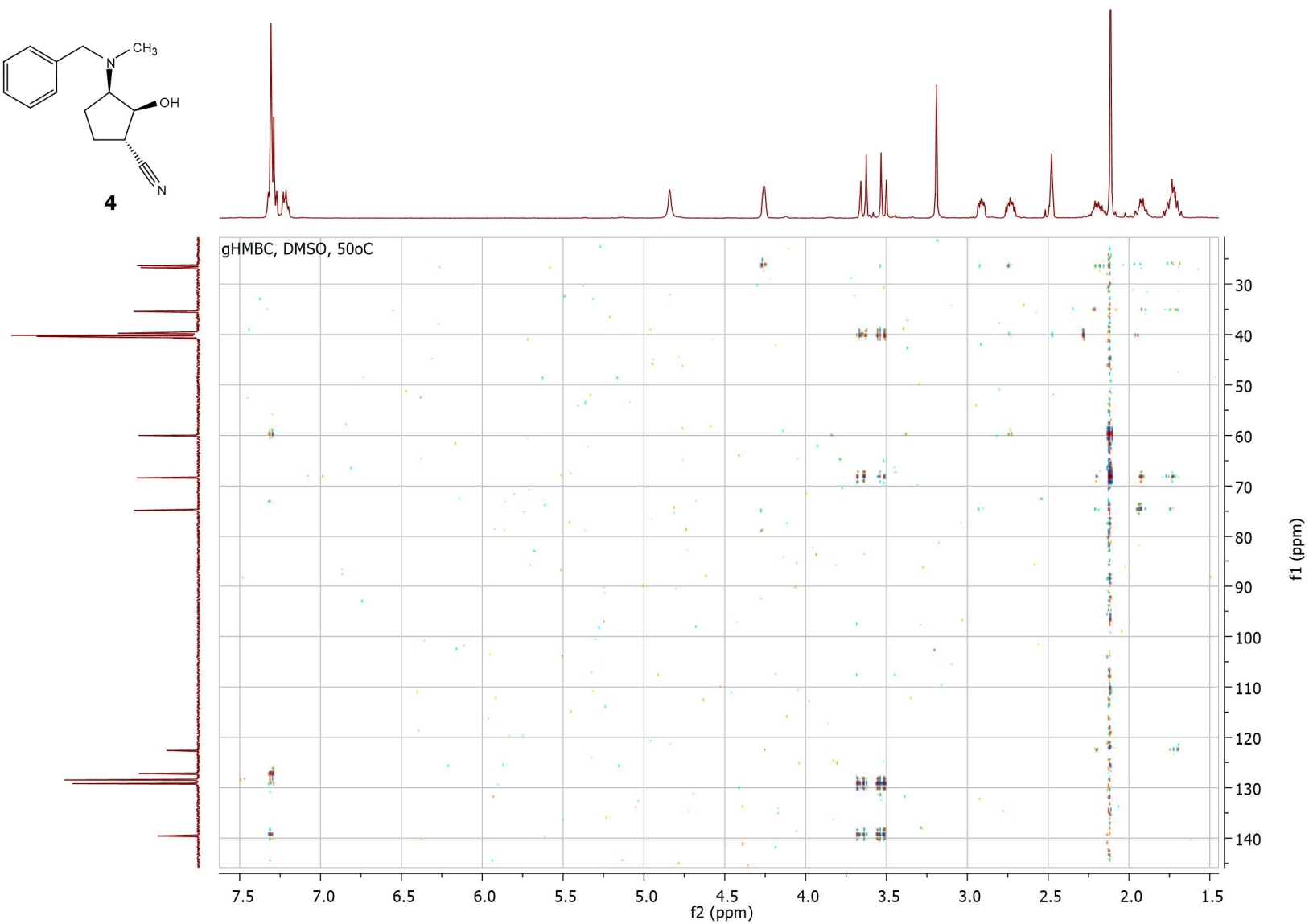
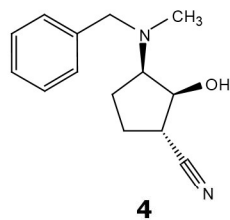


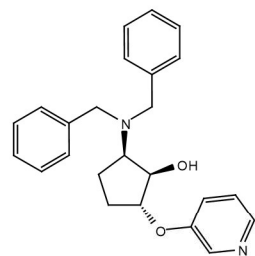
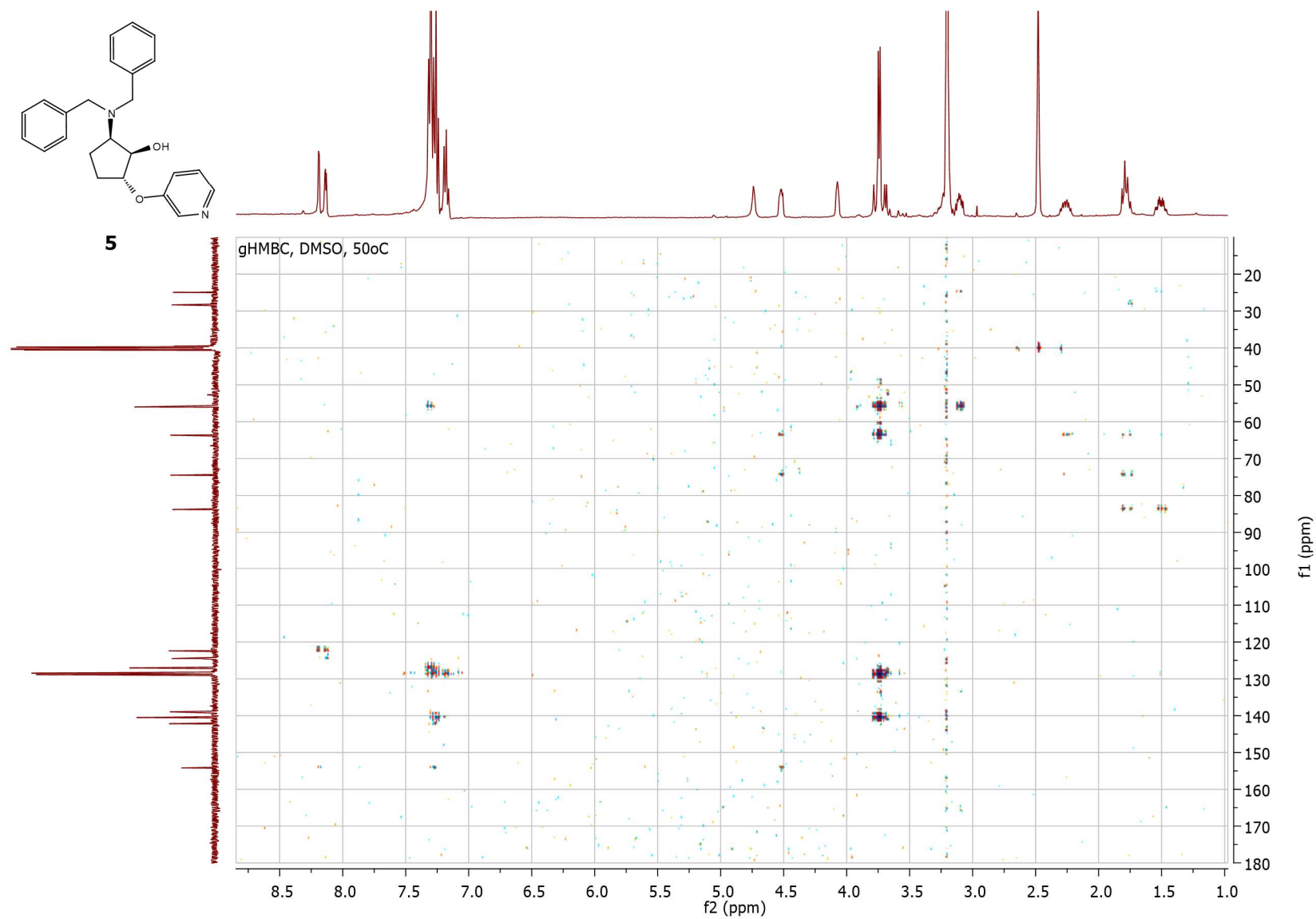


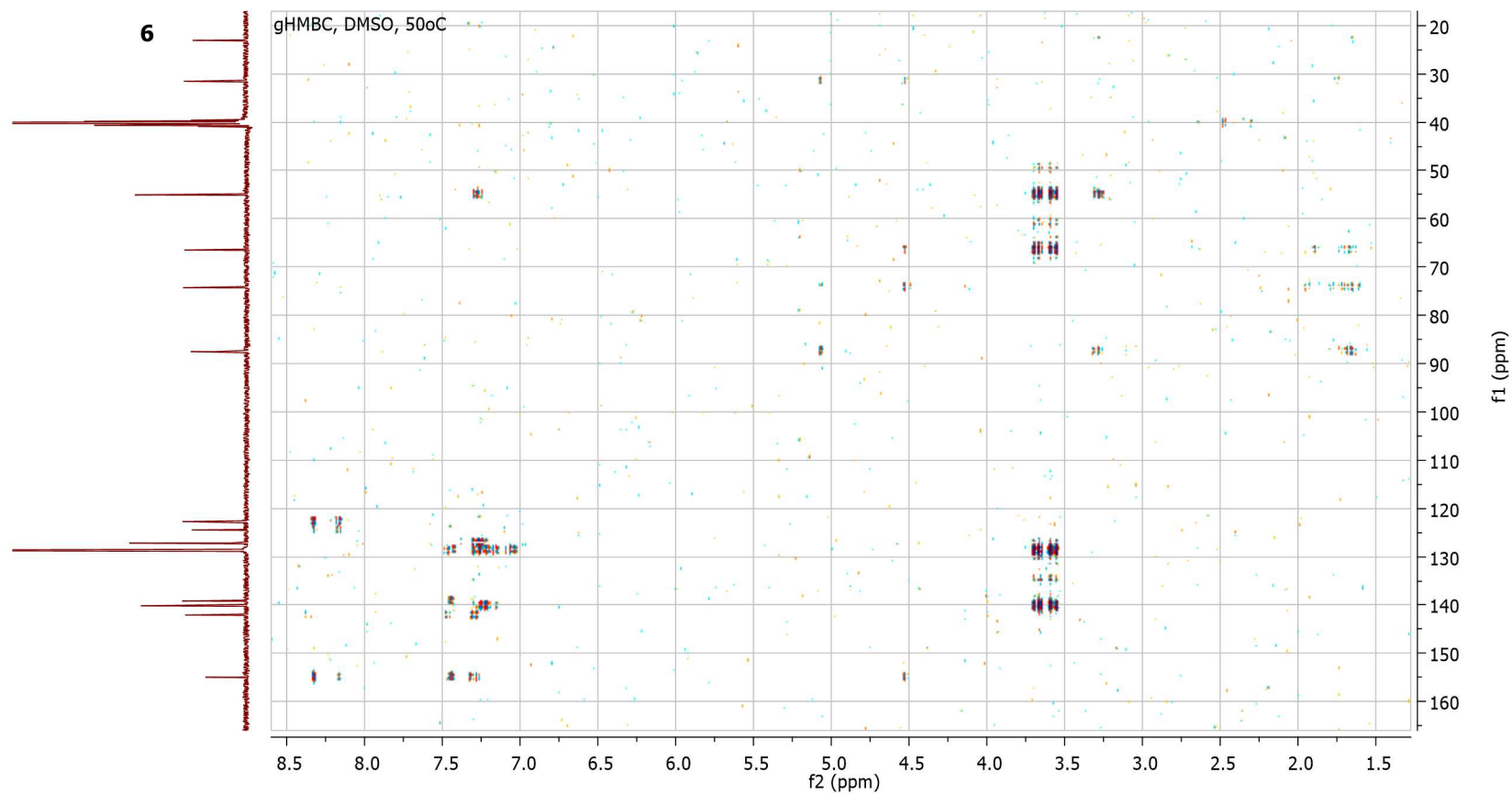
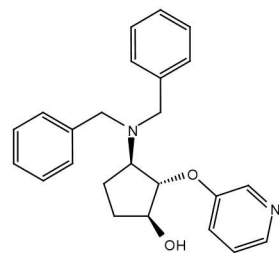


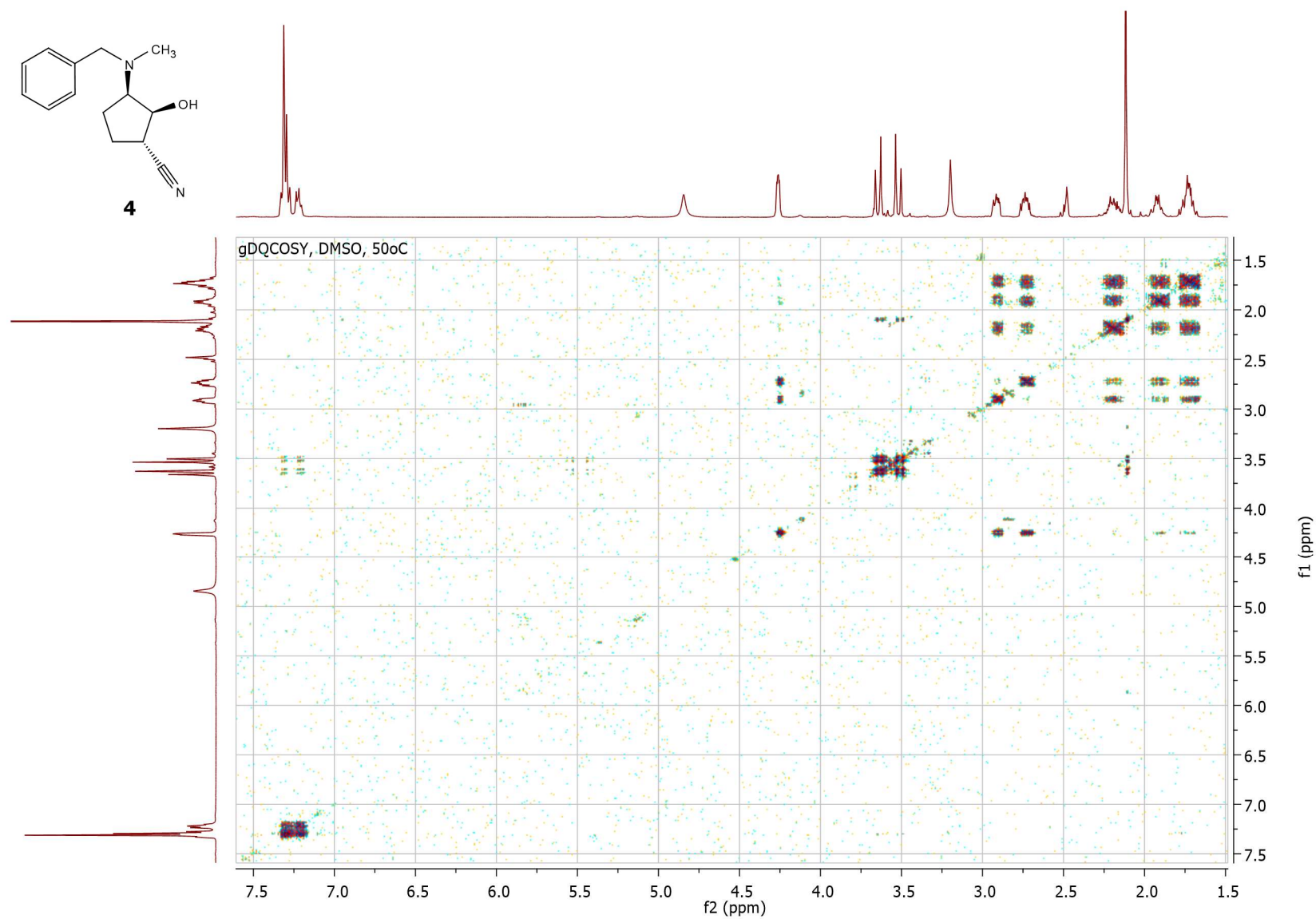
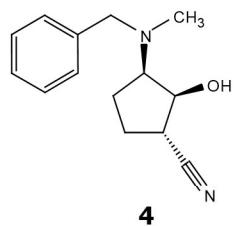


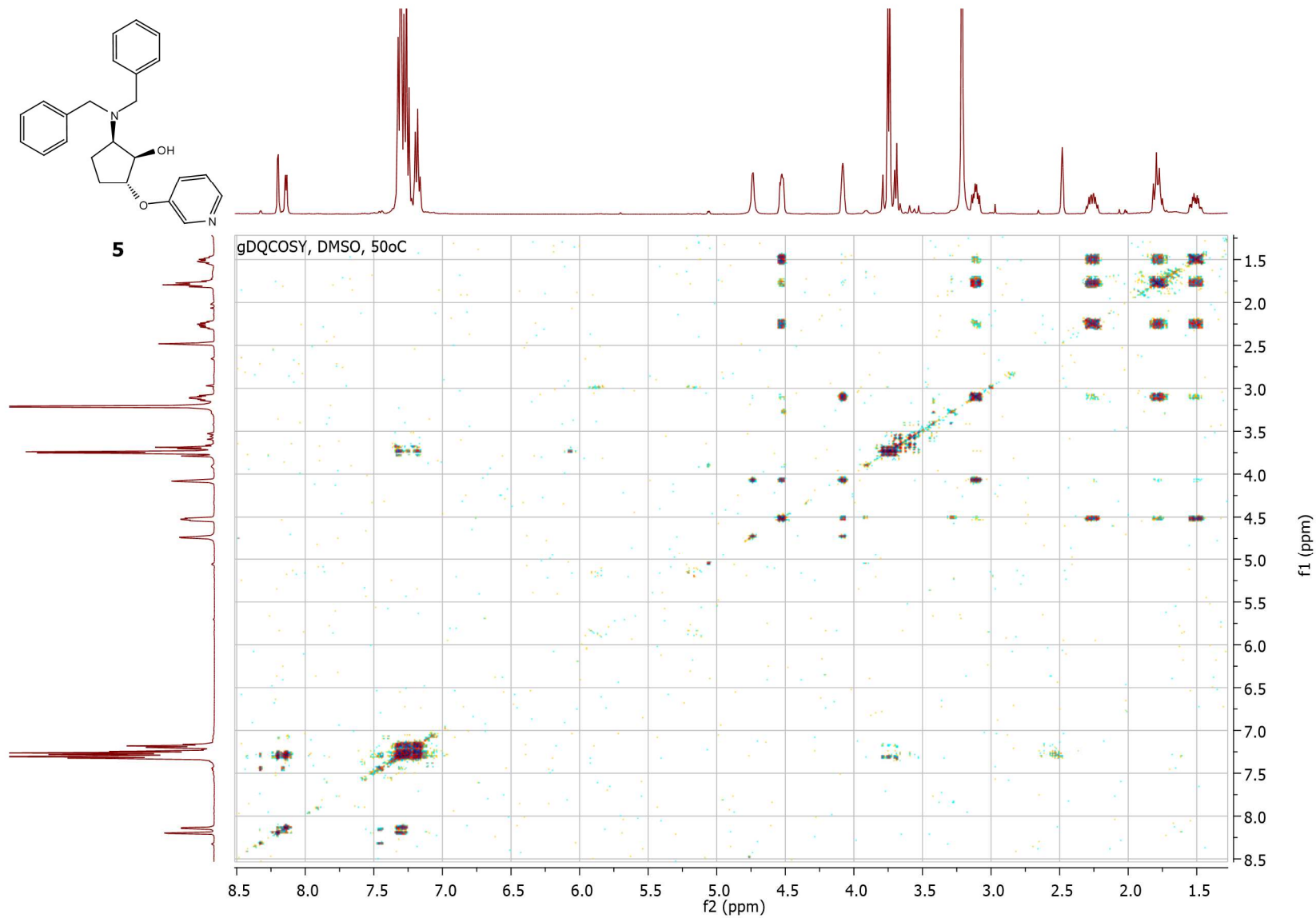


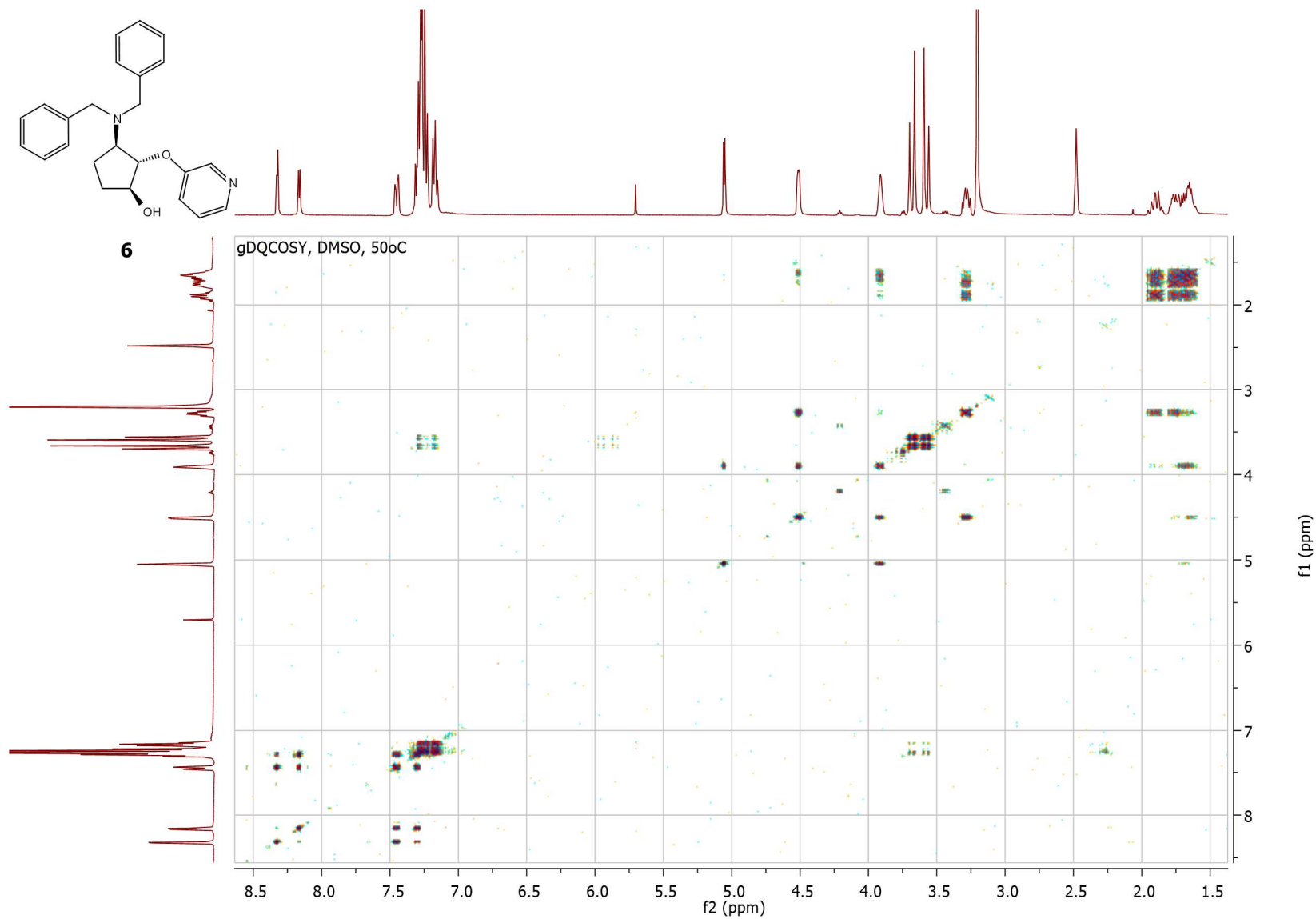


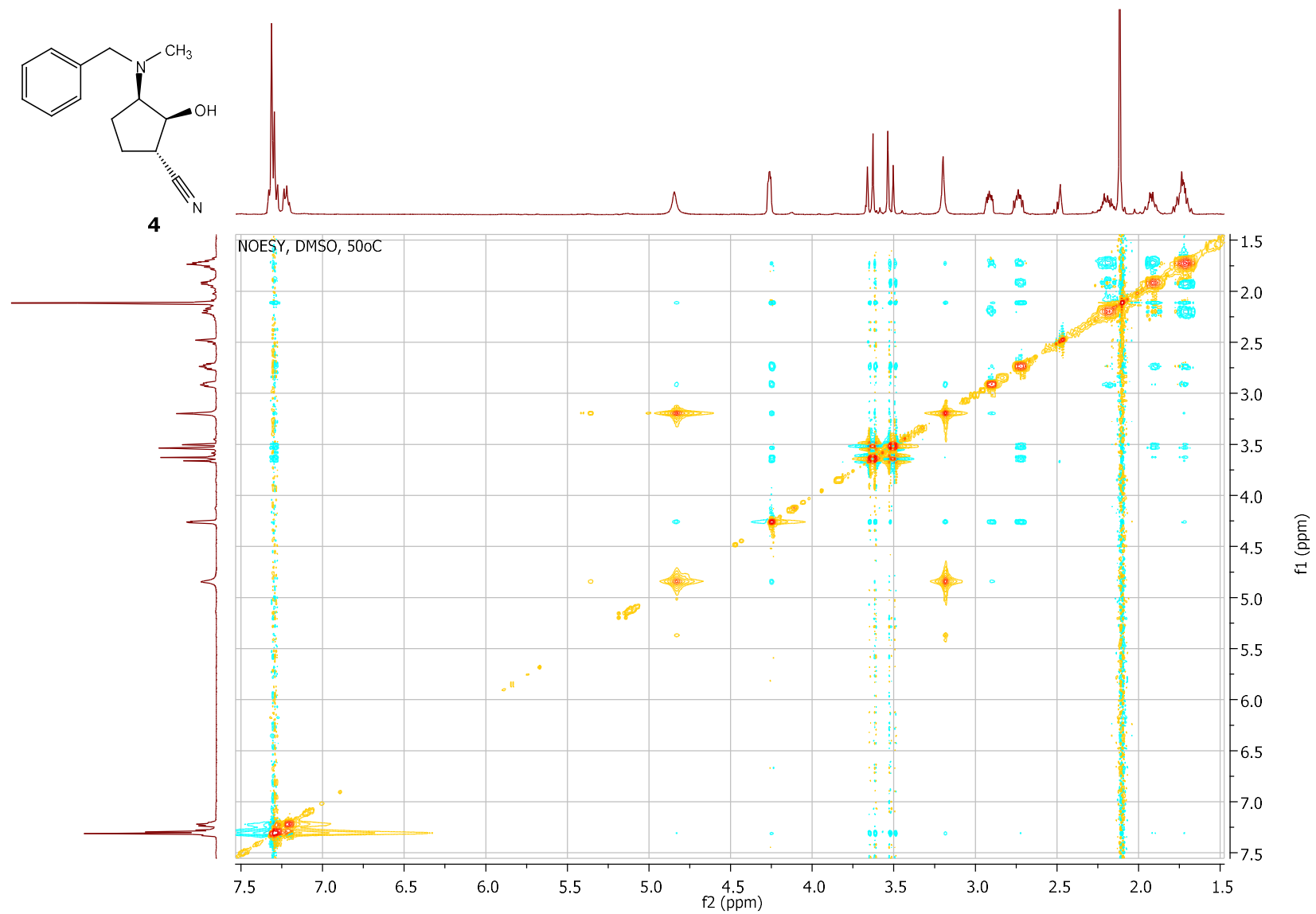
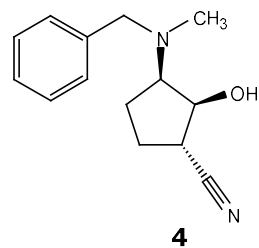
**5**

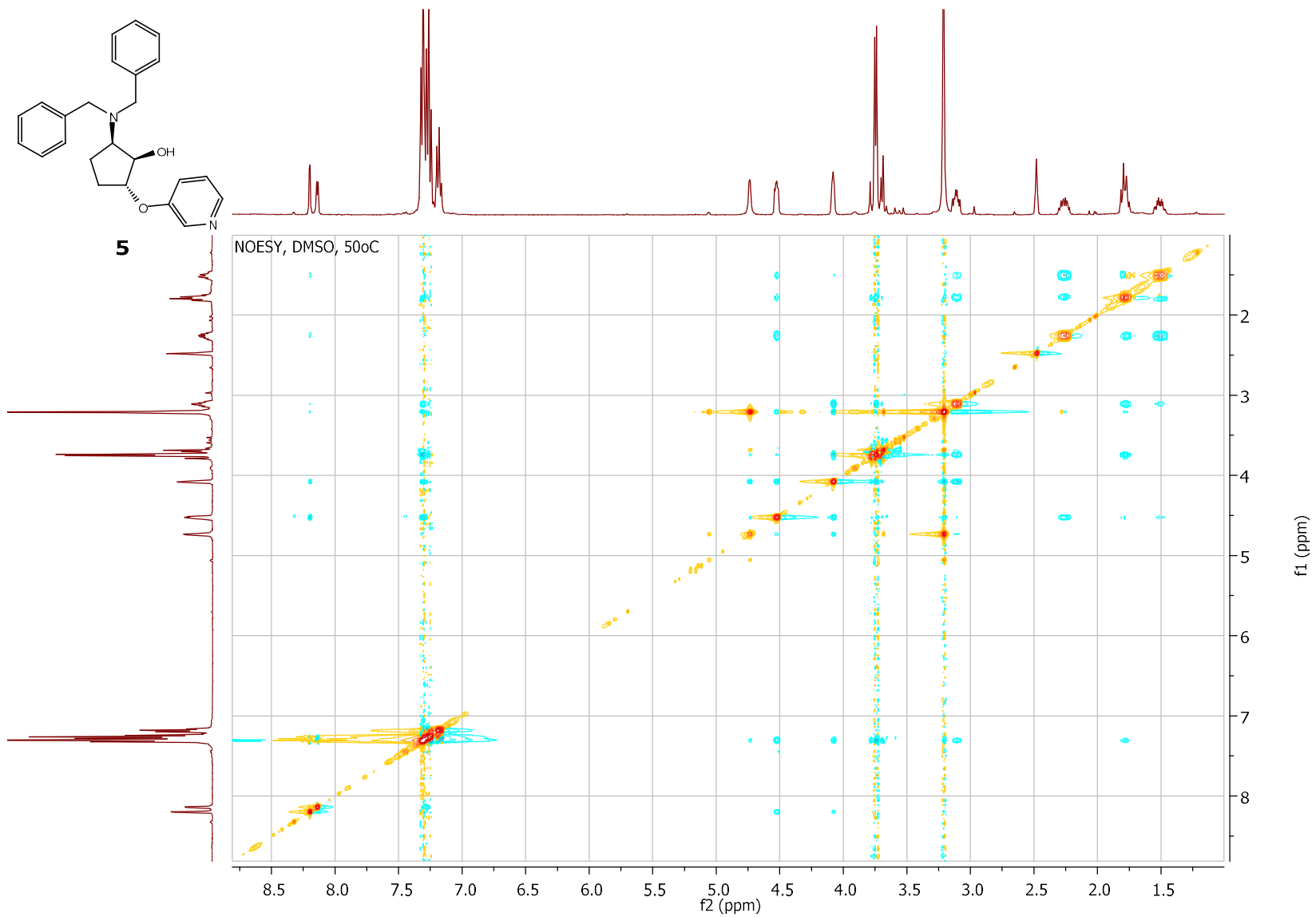


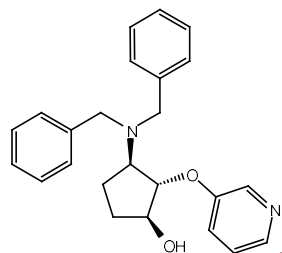
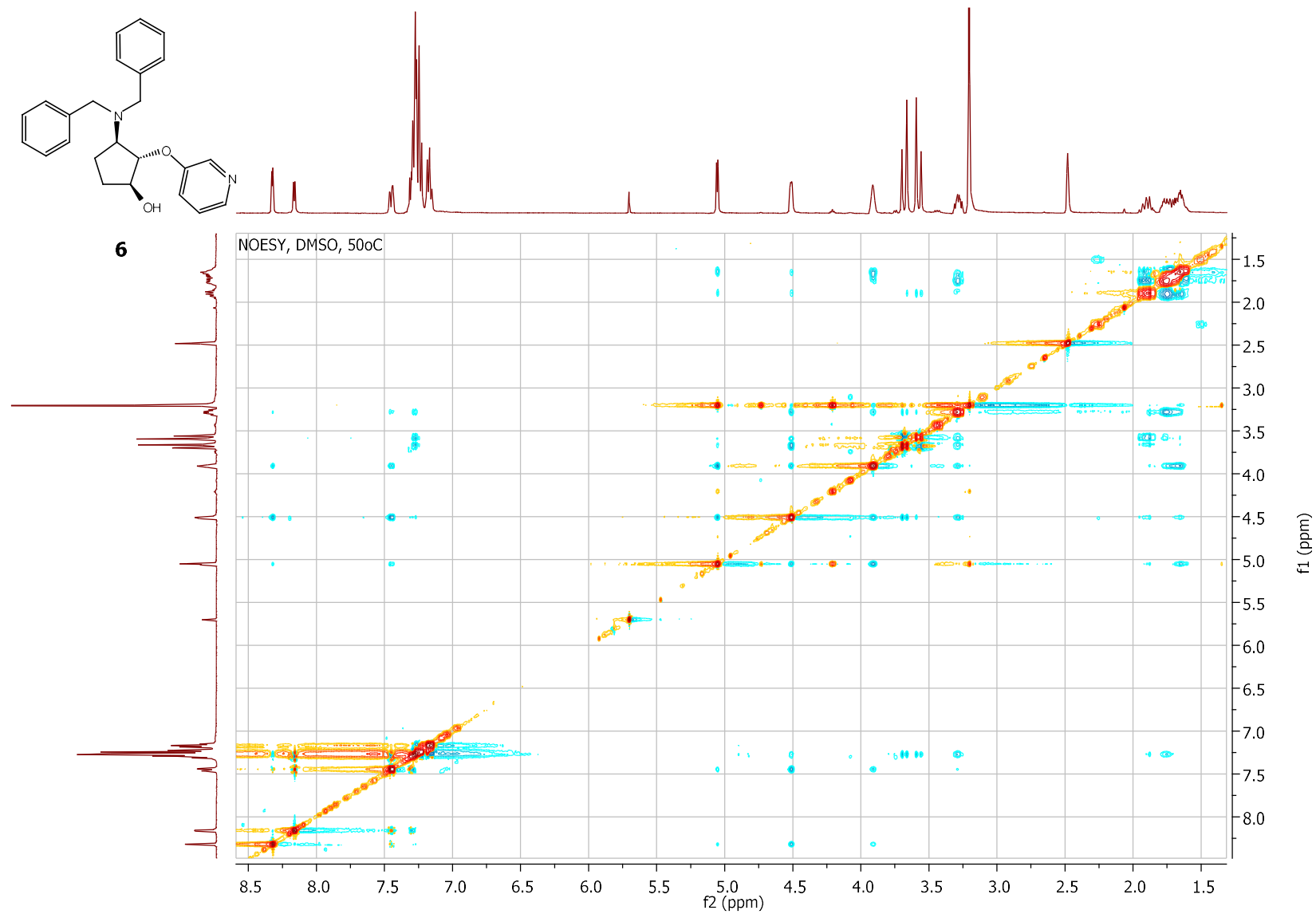










**6**

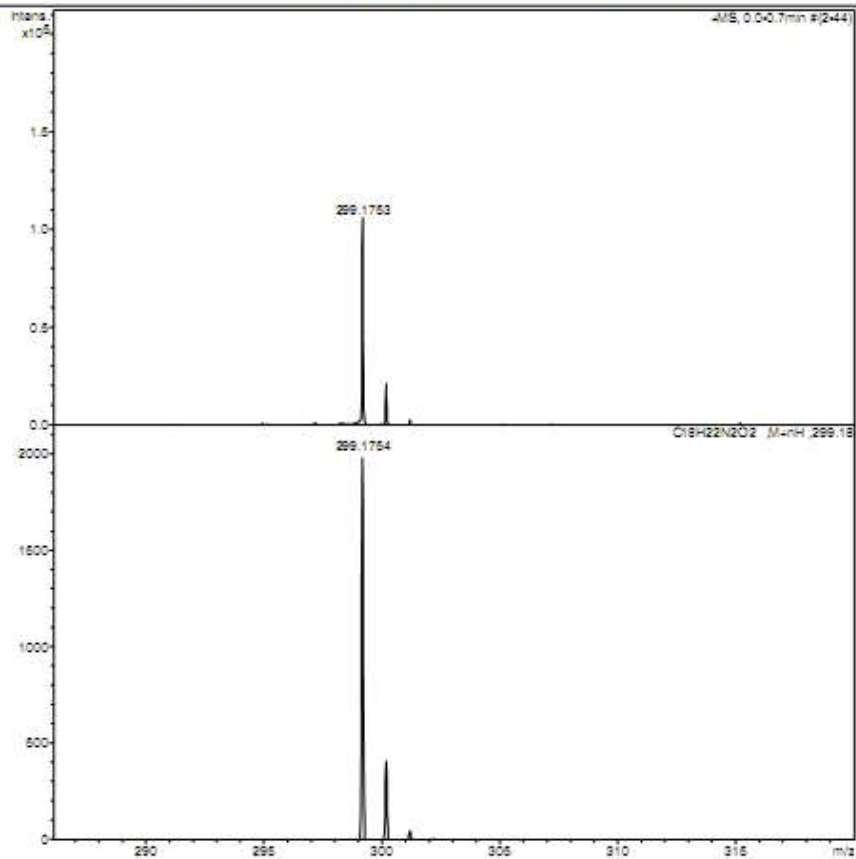
HRMS Report for 3

Analysis Info
Analysis Name: D:\Data\Koldyrkina\2015\Dubovi\1201005.d
Method: tune_low.m
Sample Name: /LPIKLEA01088
Comment: C18H22N2O2 mw 298 CH3CN dls added

Acquisition Date: 01.12.2015 19:27:34
Operator: BDAL@DE
Instrument / Ser#: micrOTOF 10248

Acquisition Parameter

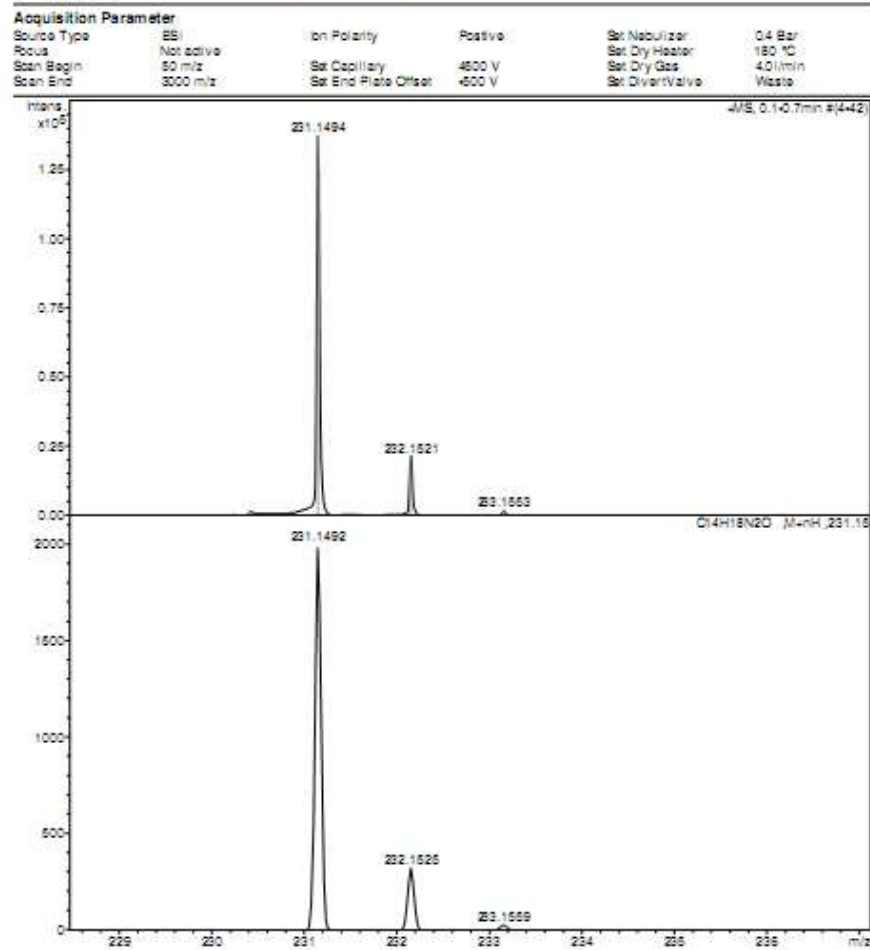
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Focus	Not active			Set Dry Heater	180 °C
Scan Begin	50 m/z	Set Capillary	4500 V	Set Dry Gas	4.0 l/min
Scan End	3000 m/z	Set End Plate Offset	+500 V	Set Divert Valve	Waste



HRMS Report for 4

Analysis Info
Analysis Name: D:\Data\Kolotyrkins\2015\Dutov\1201001.d
Method: tune_low.m
Sample Name: /LPK LEA01085
Comment: C14H18N2O mw 230.3 CH3CN db added

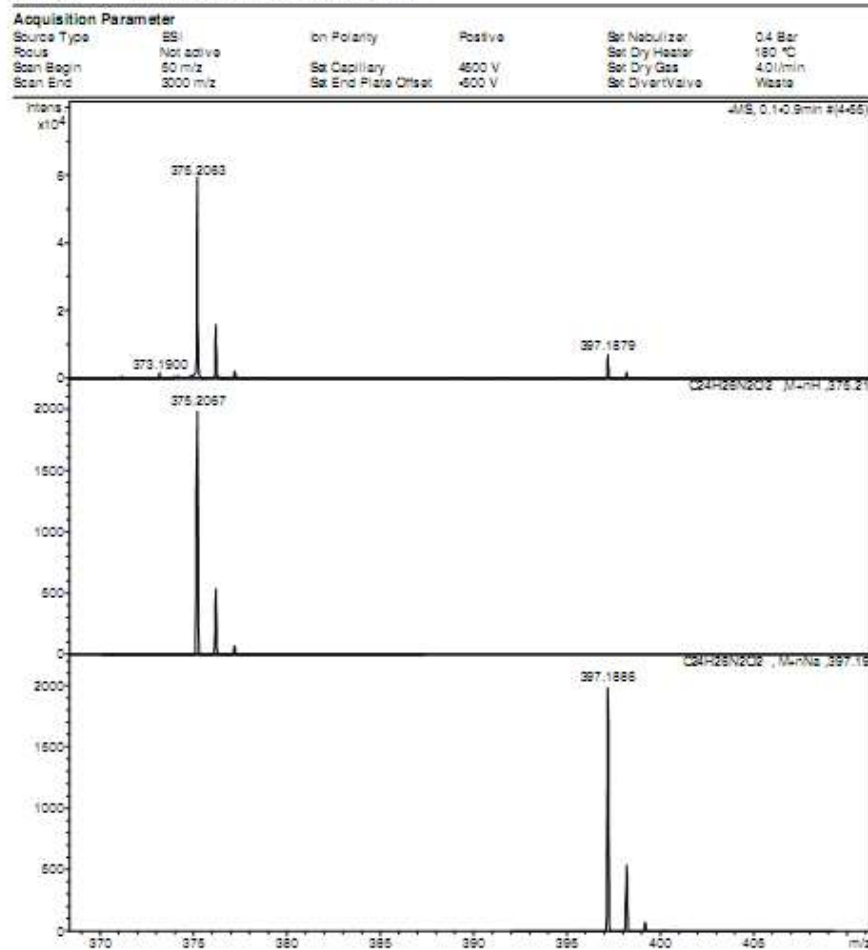
Acquisition Date: 01.12.2015 19:04:30
Operator: BDAL@DE
Instrument / Ser#: micrOTOF 10248



HRMS Report for 5

Analysis Info
Analysis Name D:\Data\Kolotyrkina\2015\Datav\1201008.d
Method tune_low.m
Sample Name /LPIK LEAD1089
Comment C24H26N2O2 mw 374 CH3CN o/b added

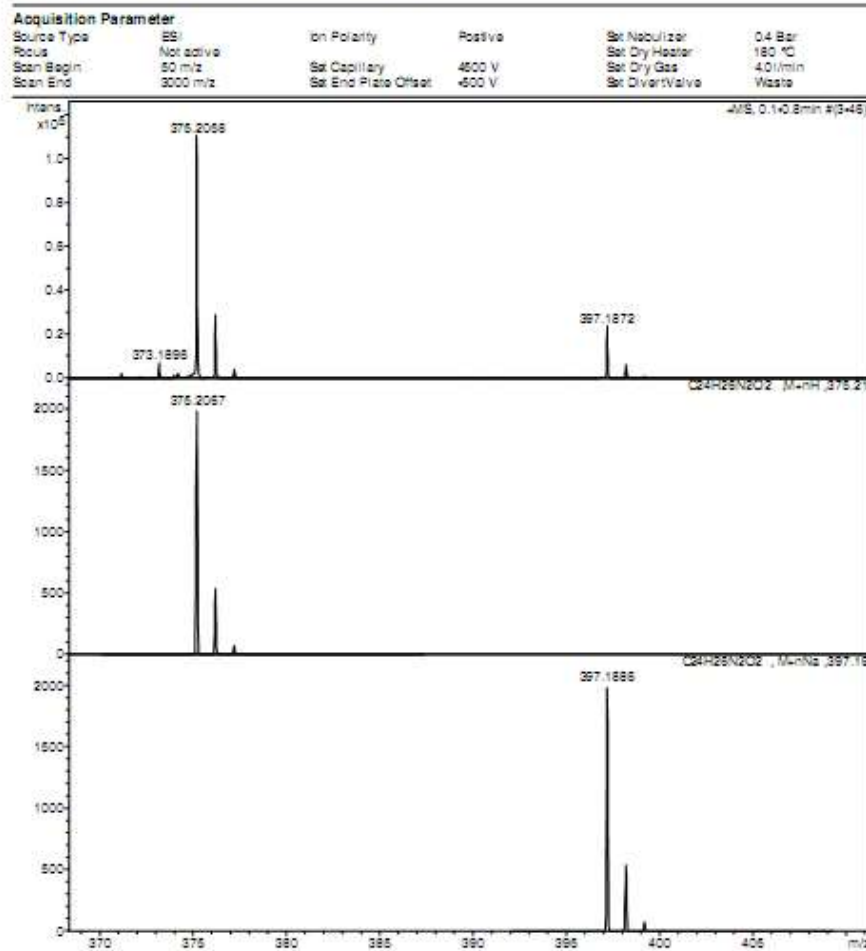
Acquisition Date 01.12.2015 19:34:08
Operator BDAL@DE
Instrument / Ser# micrOTOF 10248



HRMS Report for 6

Analysis Info
Analysis Name: D:\Data\Kolodyrkin\2015\Dotov\1201007.d
Method: tune_low.m
Sample Name: /LPIK LEA01070
Comment: C24H28N2O2 mw 374 CH3CN dib added

Acquisition Date: 01_12_2015 19:39:18
Operator: BDAL@DE
Instrument / Ser#: micrOTOF 10248



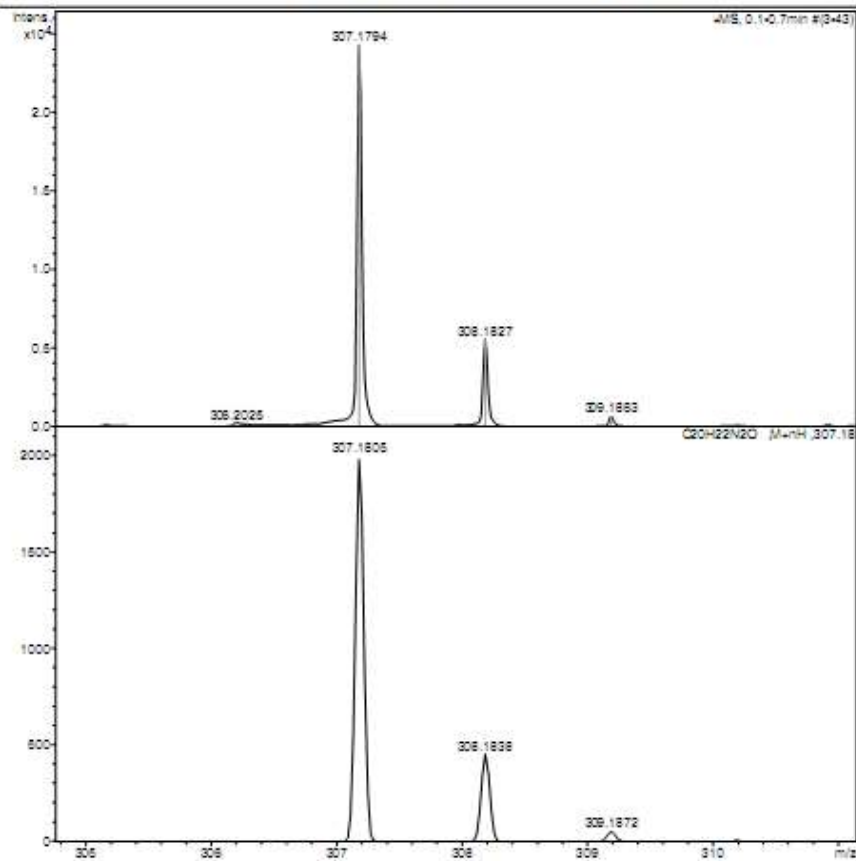
HRMS Report for 7

Analysis Info
Analysis Name: D:\Data\Kolobyrkina\2015\Dubov\1201002.d
Method: tune_low.m
Sample Name: /LPIK LEA01068
Comment: C20H22N2O mw 308 CH3CN dls added

Acquisition Date: 01.12.2015 19:13:24
Operator: BDAL@DE
Instrument / Ser#: micrOTOF 10248

Acquisition Parameter

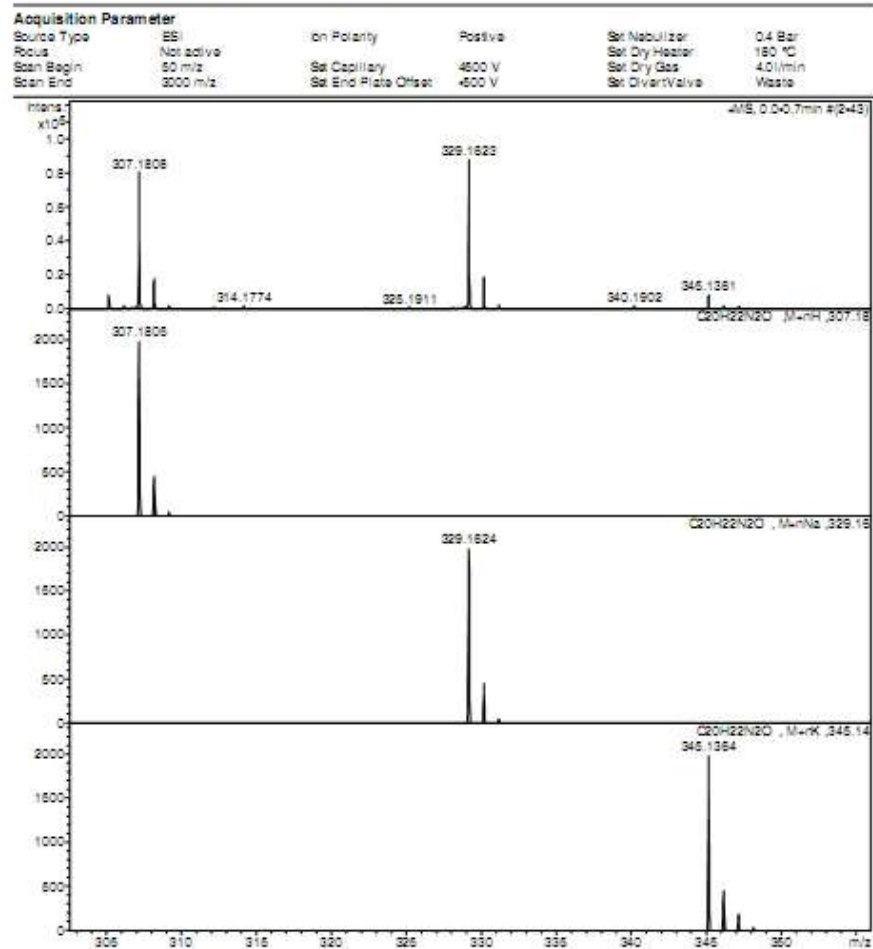
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Focus	Not active			Set Dry Heater	180 °C
Scan Begin	60 m/z	Set Capillary	4500 V	Set Dry Gas	4.0 l/min
Scan End	3000 m/z	Set End Plate Offset	+500 V	Set Divert Valve	Waste



HRMS Report for 8

Analysis Info
Analysis Name: D:\Data\Kolatyrkina\2015\Datov\1201004.d
Method: Tune_Low.m
Sample Name: /LPIK LEA01087
Comment: C20H22N2O mw 308 CH3CN dib added

Acquisition Date: 01.12.2015 19:21:48
Operator: BDAL@DE
Instrument / Ser#: micrOTOF 10248



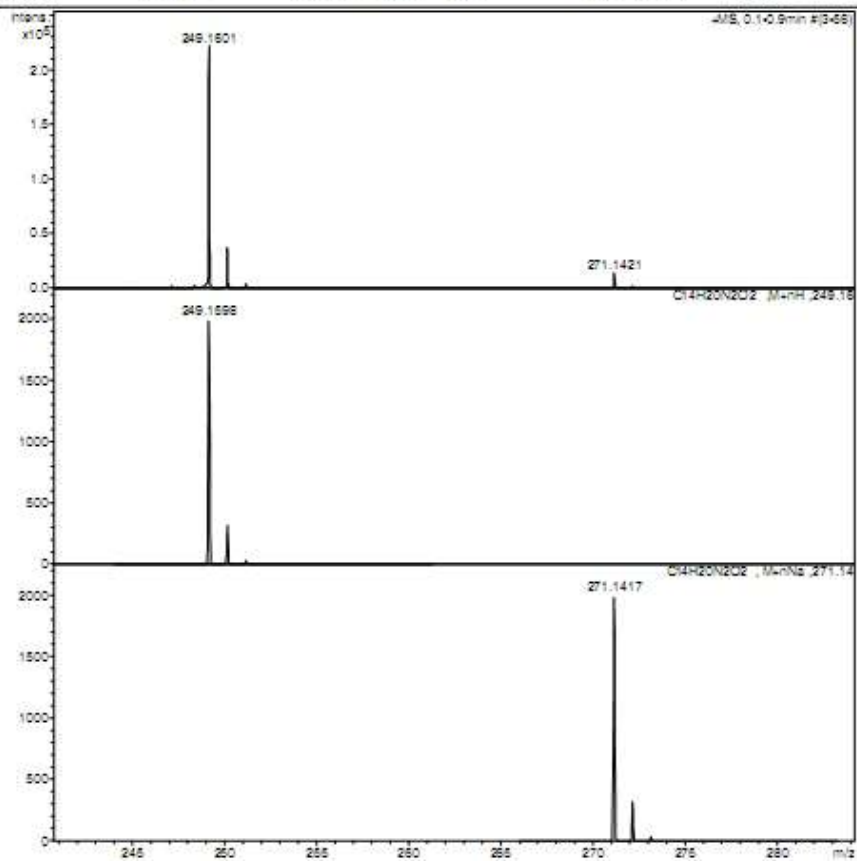
HRMS Report for 9

Analysis Info
Analysis Name: D:\Data\Kolotyrkina\2015\Dotov\1201009.d
Method: tune_low.m
Sample Name: /LPIK LEA01072
Comment: C14H20N2O2 mw 248 CH3CN d/b added

Acquisition Date: 01.12.2015 19:49:48
Operator: BDAL@DE
Instrument / Ser#: micrOTOF 10248

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.4 Bar
Focus	Not active			Set Dry Heater	180 °C
Scan Begin	50 m/z	Set Capillary	4500 V	Set Dry Gas	4.0 l/min
Scan End	3000 m/z	Set End Plate Offset	500 V	Set Divert Valve	Waste



HRMS Report for 10

Analysis Info
 Analysis Name: D:\Data\Kolodiykina\2015\Dotov\1201008.d
 Method: tune_low.m
 Sample Name: /LPIKLEA01071
 Comment: C14H19NO3 mw 249 CH3CN clb added
 Acquisition Date: 01.12.2015 19:44:17
 Operator: BDAL@DE
 Instrument / Ser#: micrOTOF 10248

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.4 Bar
Focus	Not active			Set Dry Heater	180 °C
Scan Begin	50 m/z	Set Capillary	4500 V	Set Dry Gas	4.0 l/min
Scan End	3000 m/z	Set End Plate Offset	-500 V	Set Divert Valve	Waste

