

Supplementary Materials:

Development of a Non-Hydroxamate Dual MMP-7/-13 Inhibitor

Thomas Fischer and Rainer Riedl*

Institute of Chemistry and Biotechnology

Center for Organic and Medicinal Chemistry

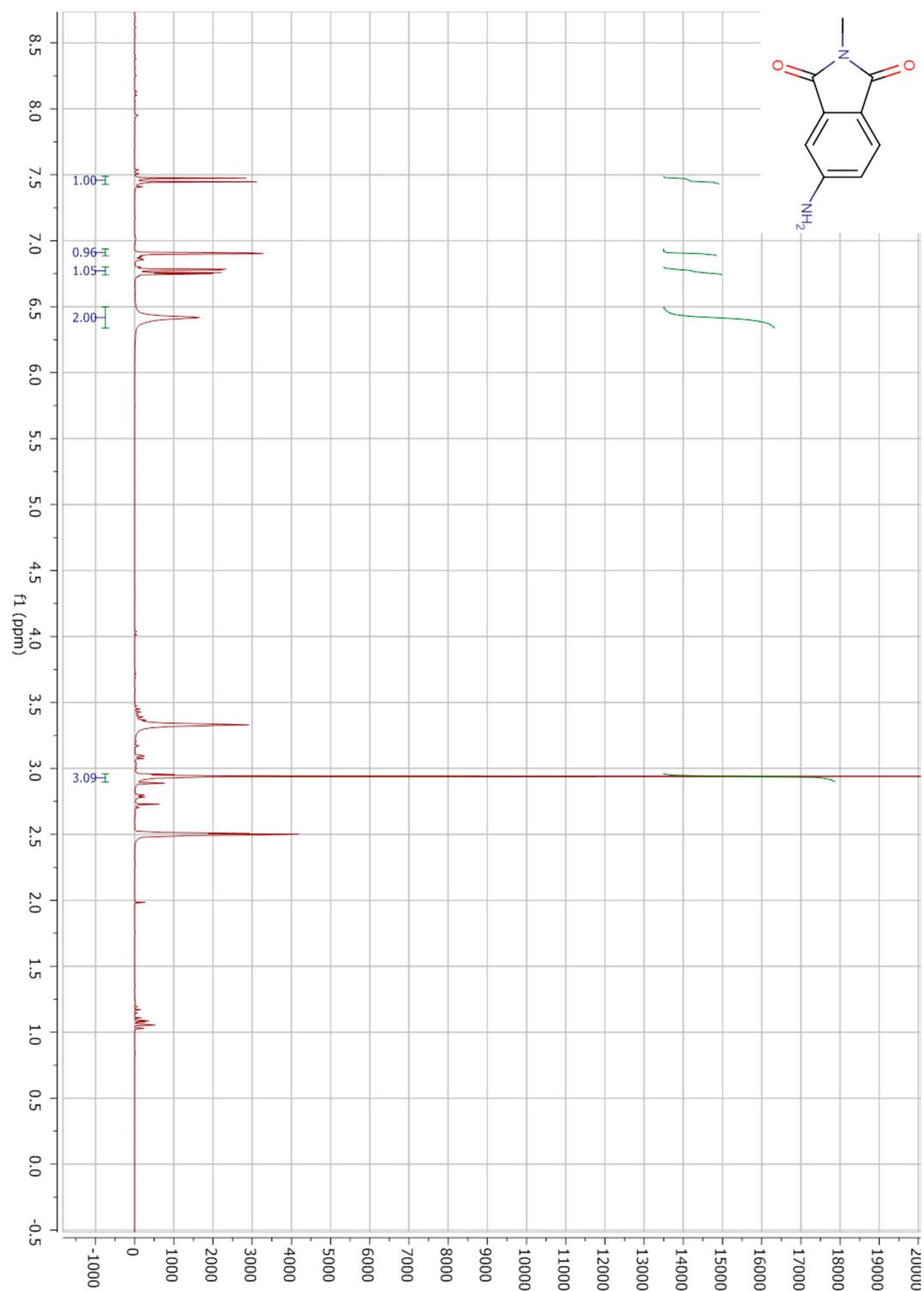
Zurich University of Applied Sciences ZHAW

Einsiedlerstrasse 31, 8820 Wädenswil, Switzerland

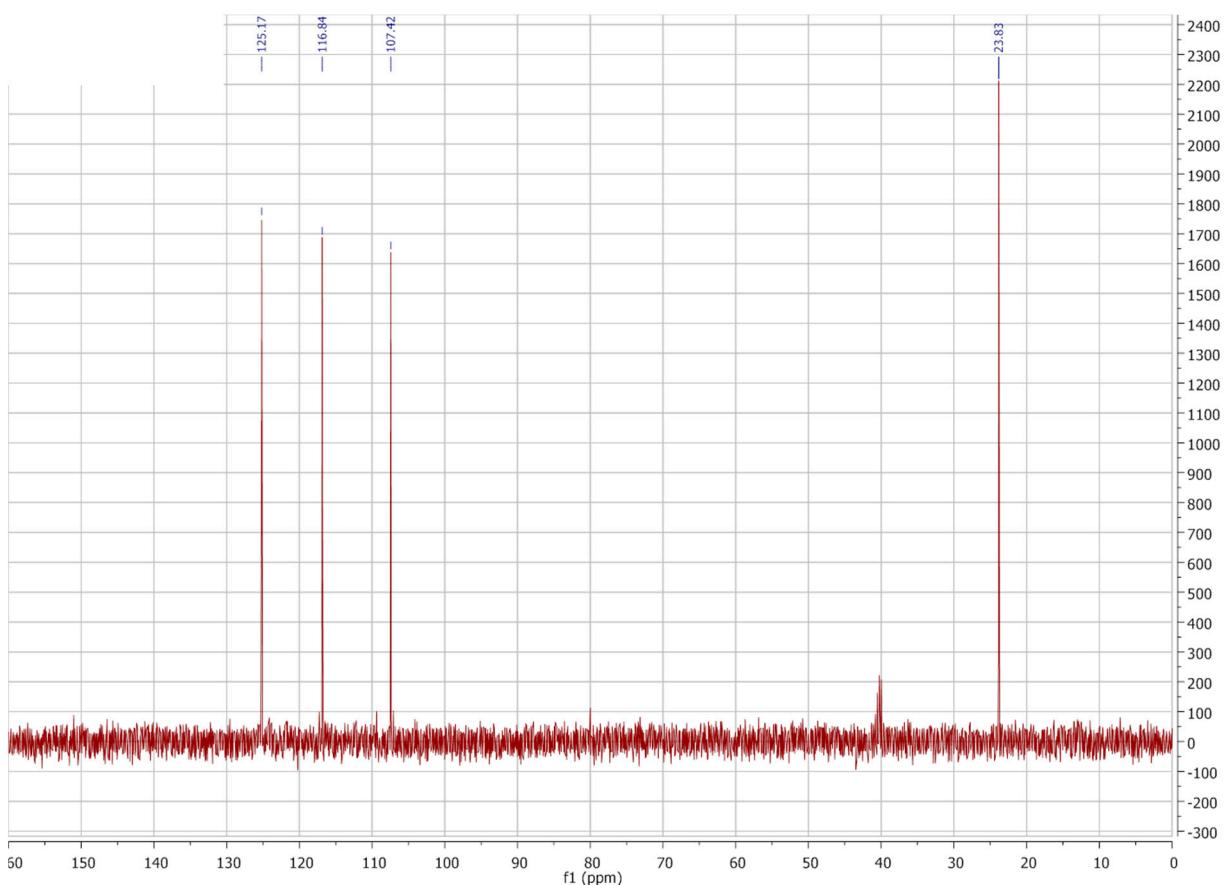
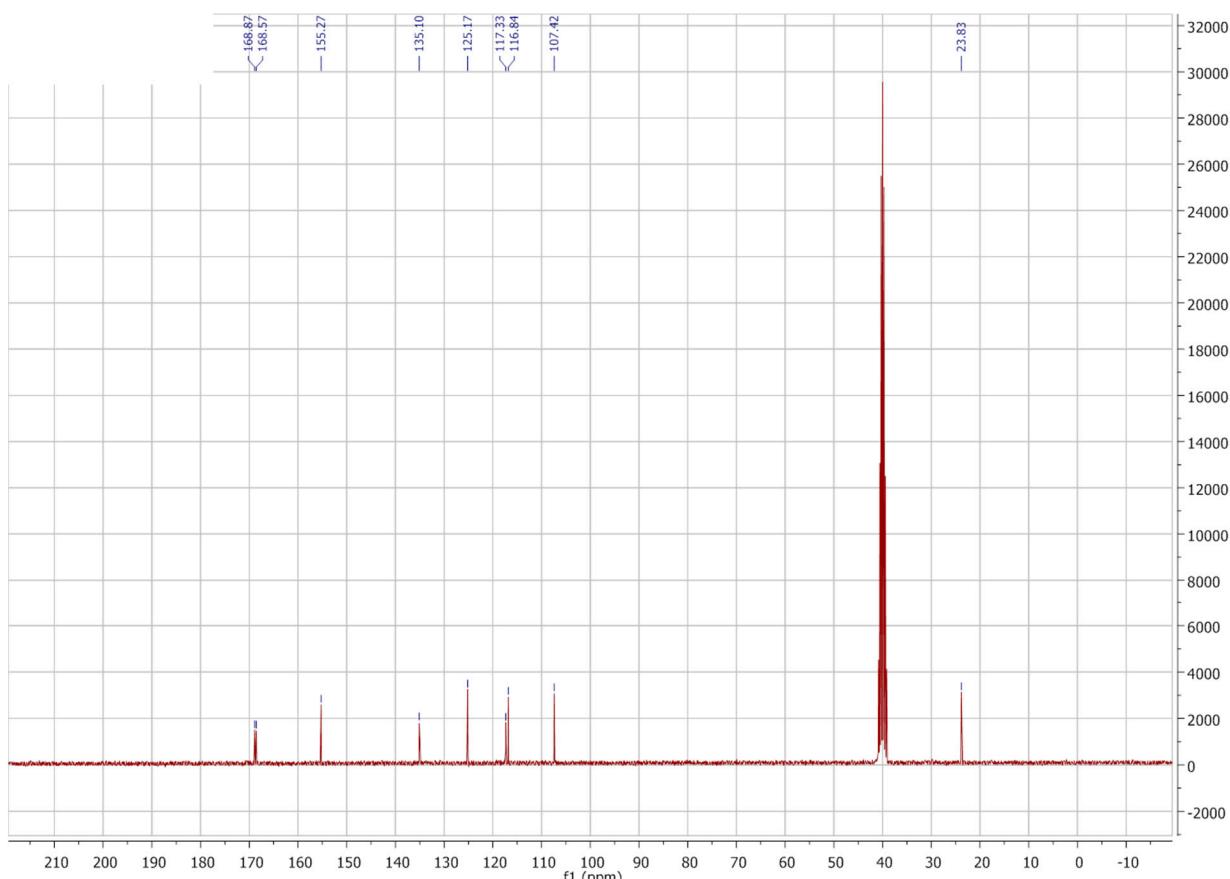
E-mail: rainer.riedl@zhaw.ch

5-amino-2-methyl-2,3-dihydro-1H-isoindole-1,3-dione (11a**; ZHAWOC3444)**

NMR

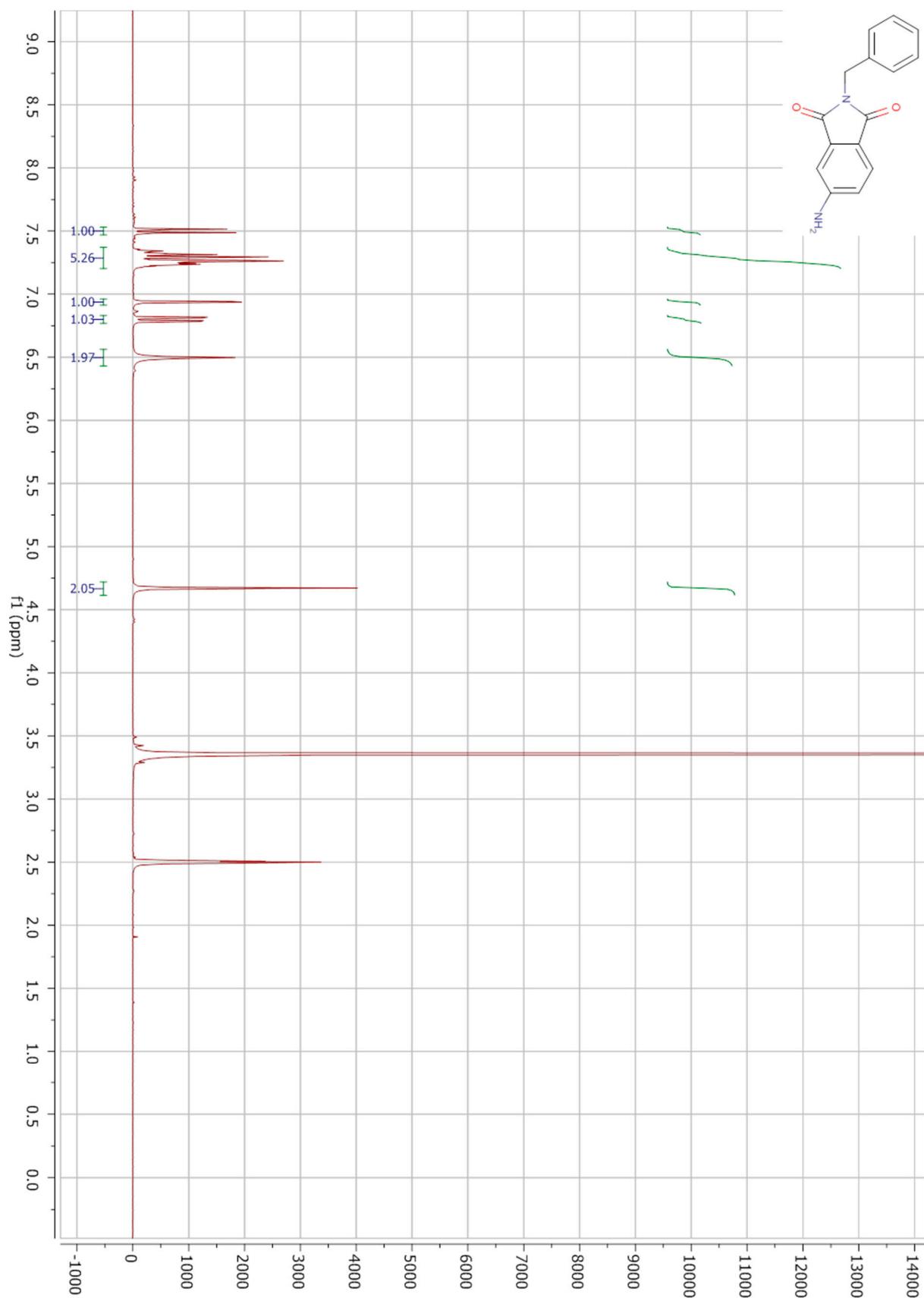


5-amino-2-methyl-2,3-dihydro-1H-isoindole-1,3-dione (11a**; ZHAWOC3444)**

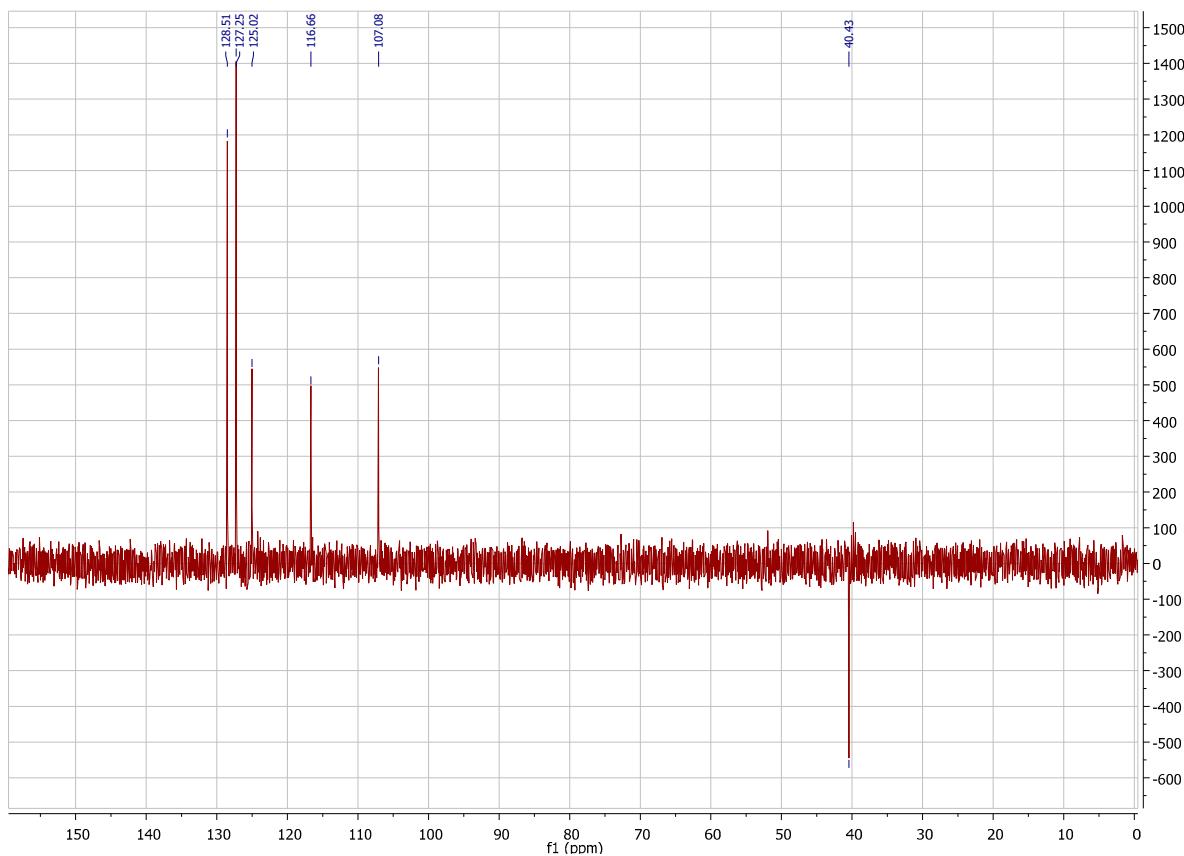
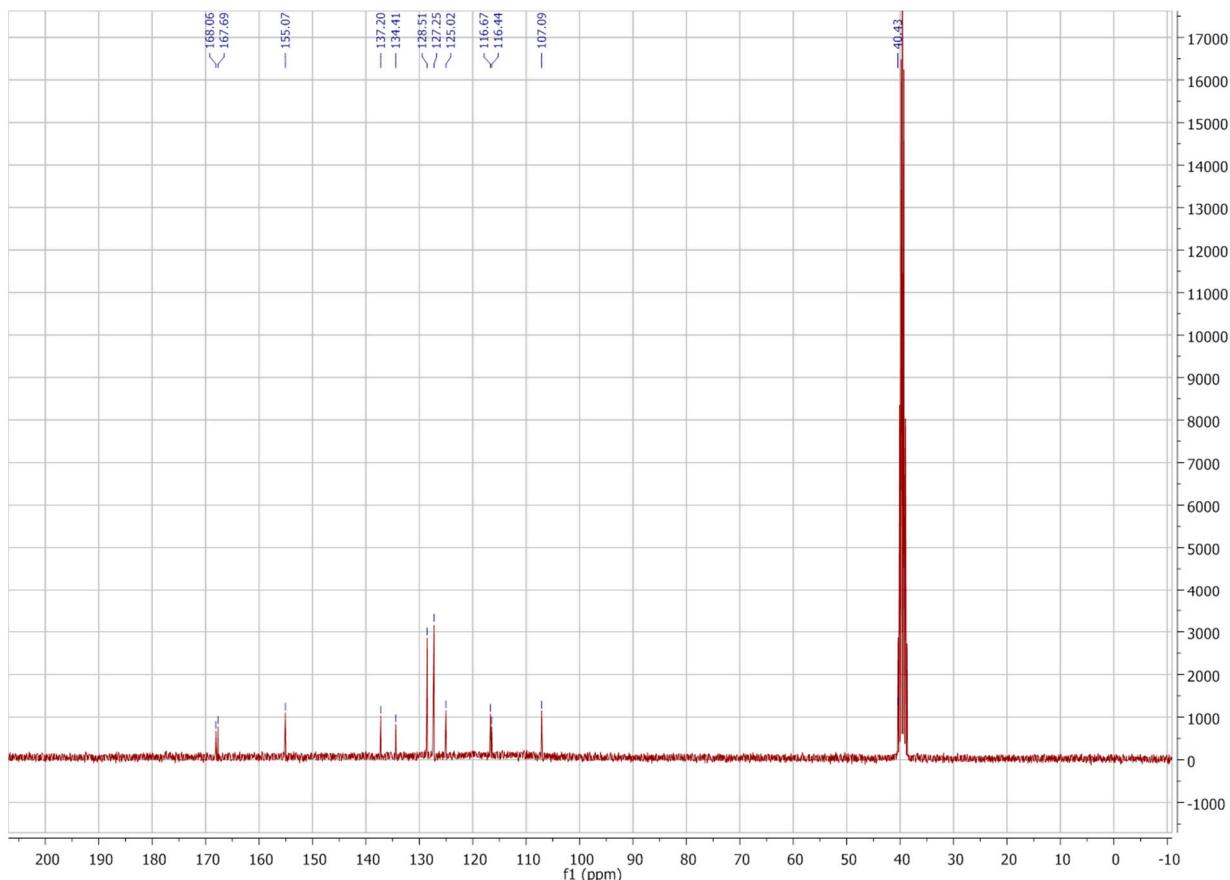


5-amino-2-benzyl-2,3-dihydro-1H-isoindole-1,3-dione (11b**; ZHAWOC899)**

NMR



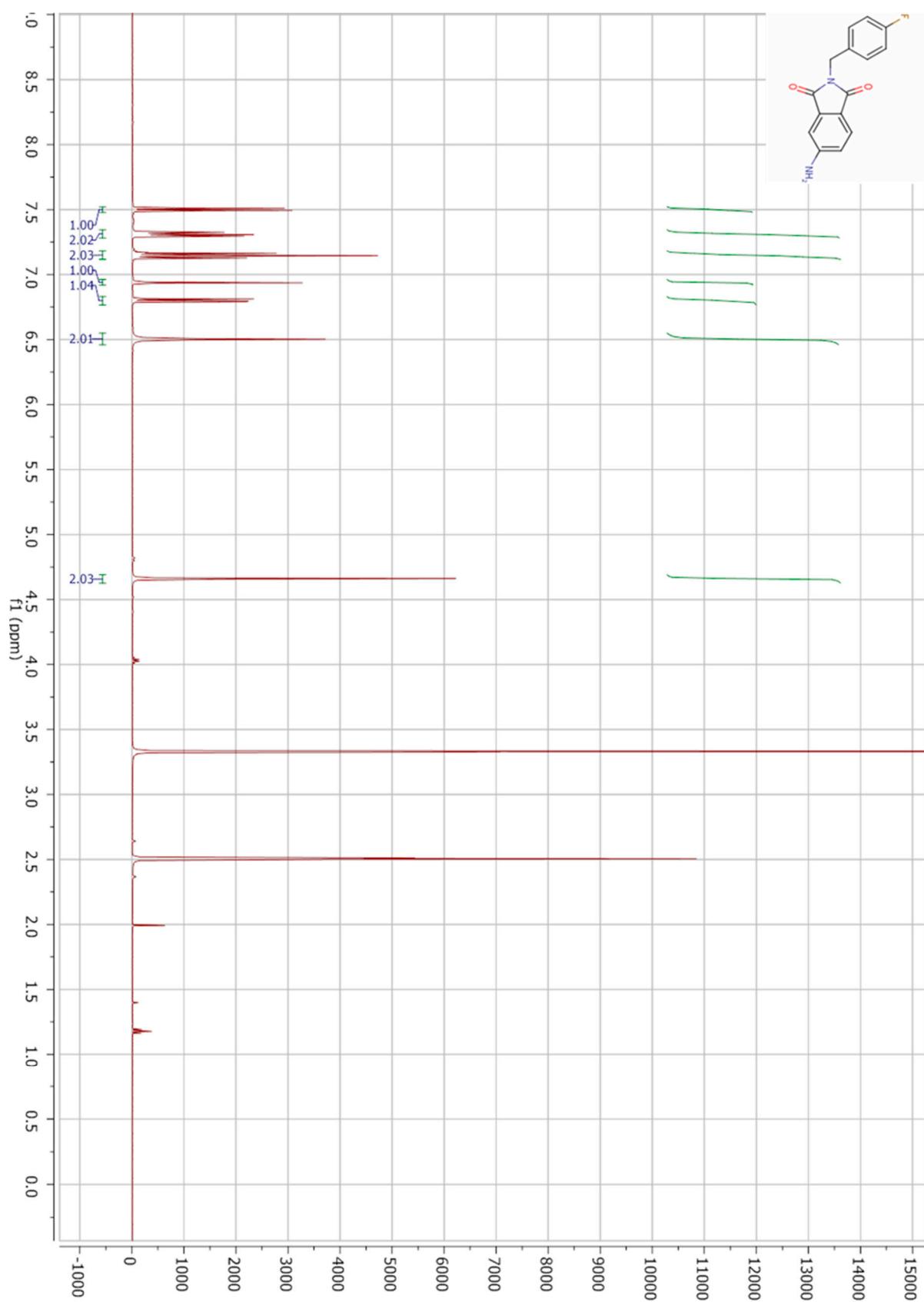
5-amino-2-benzyl-2,3-dihydro-1H-isoindole-1,3-dione (11b**; ZHAWOC899)**



5-amino-2-[(4-fluorophenyl)methyl]-2,3-dihydro-1H-isoindole-1,3-dione
ZHWOC3199)

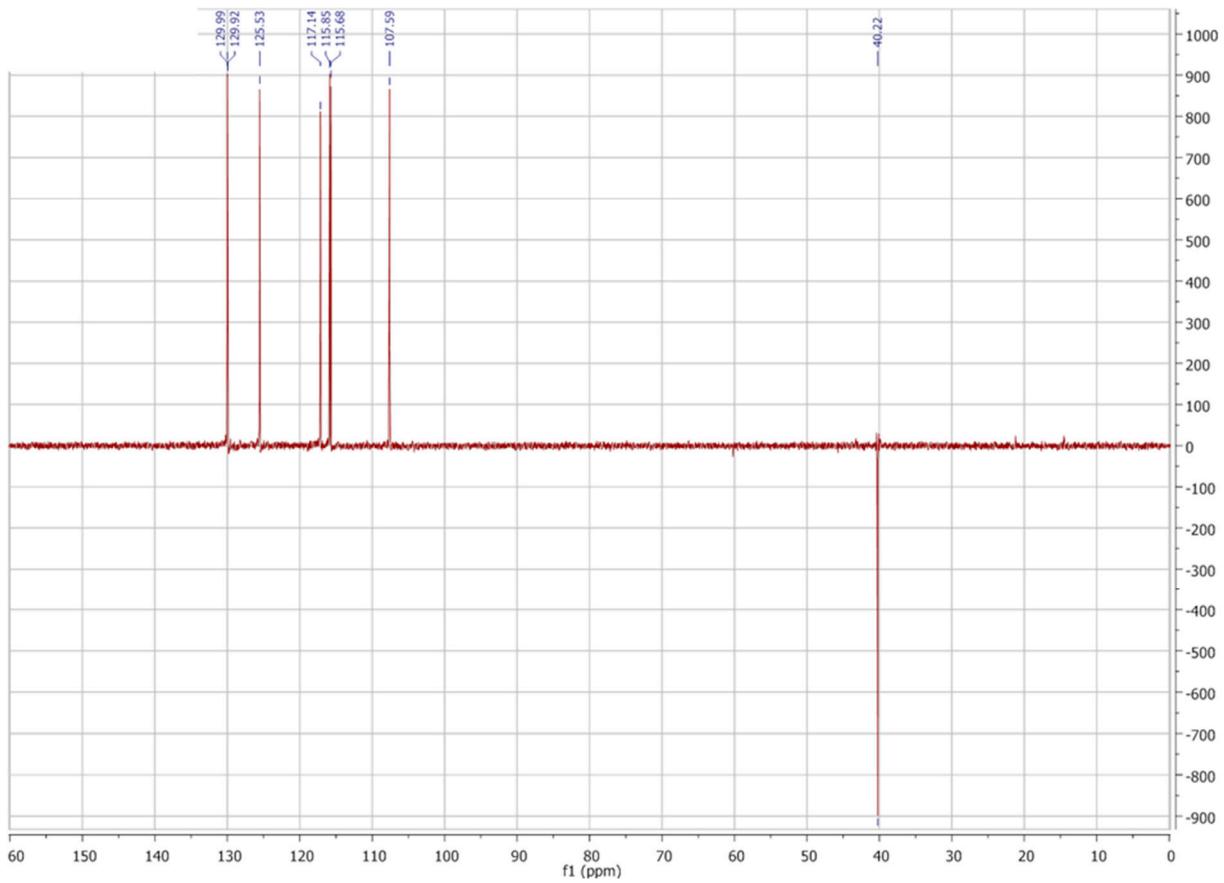
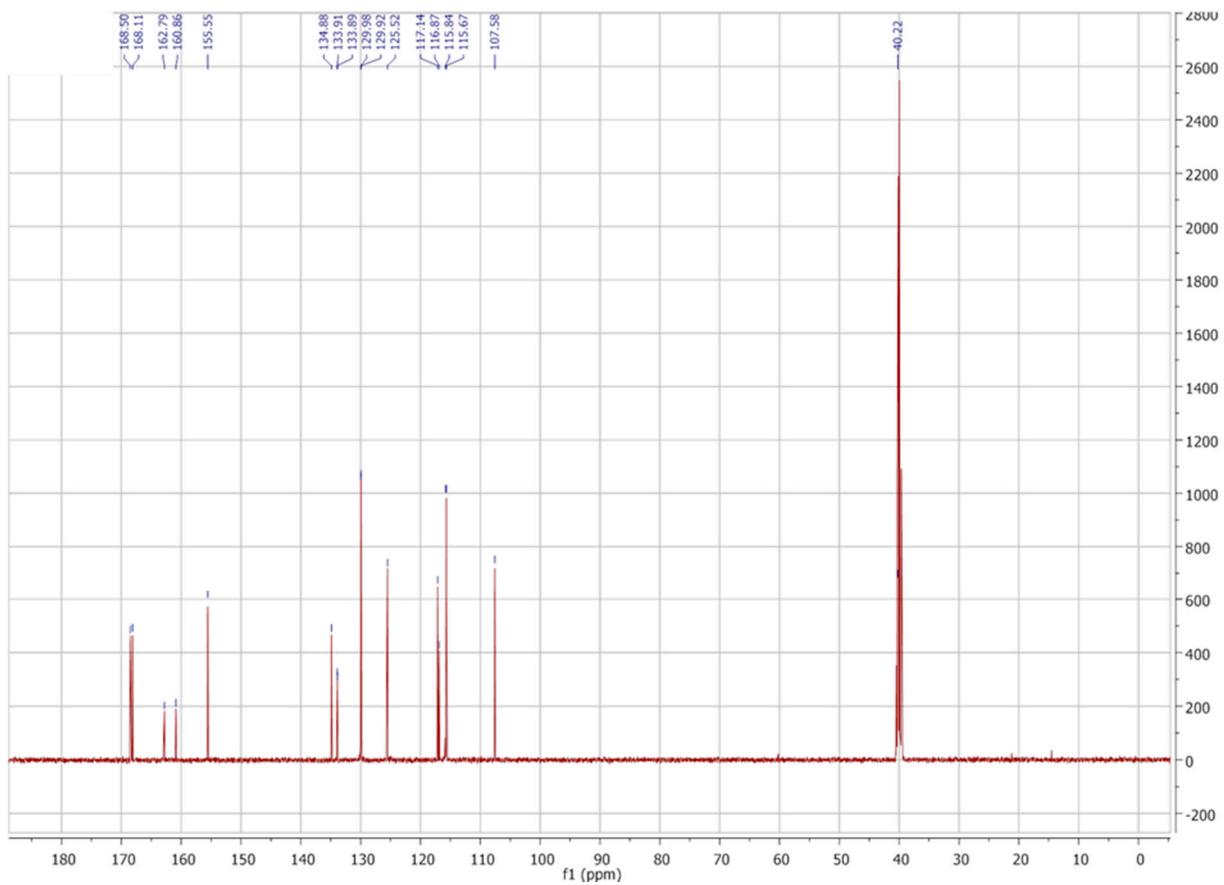
(11c;

NMR



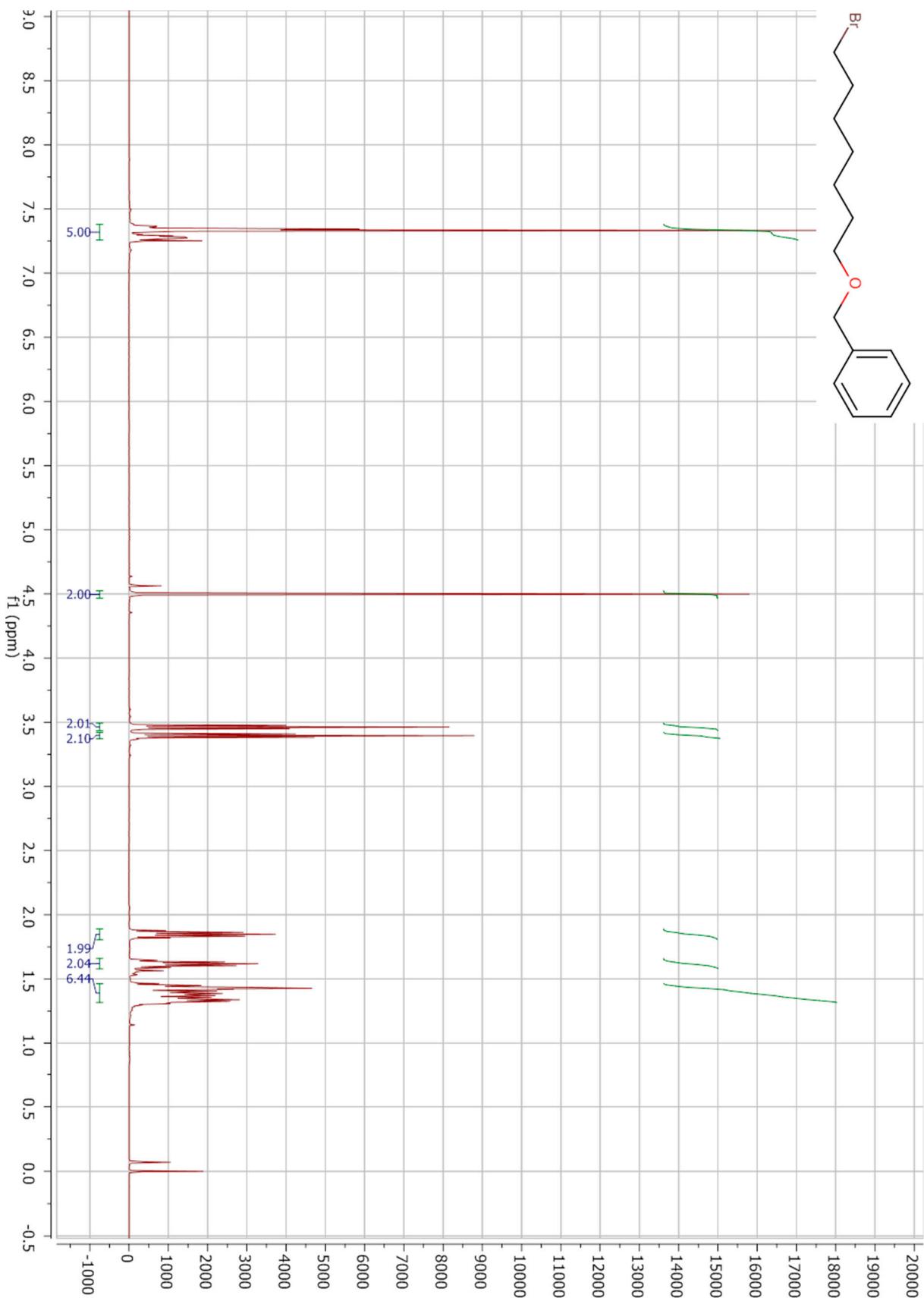
*5-amino-2-[(4-fluorophenyl)methyl]-2,3-dihydro-1*H*-isoindole-1,3-dione*
ZHAWOC3199)

(11c;

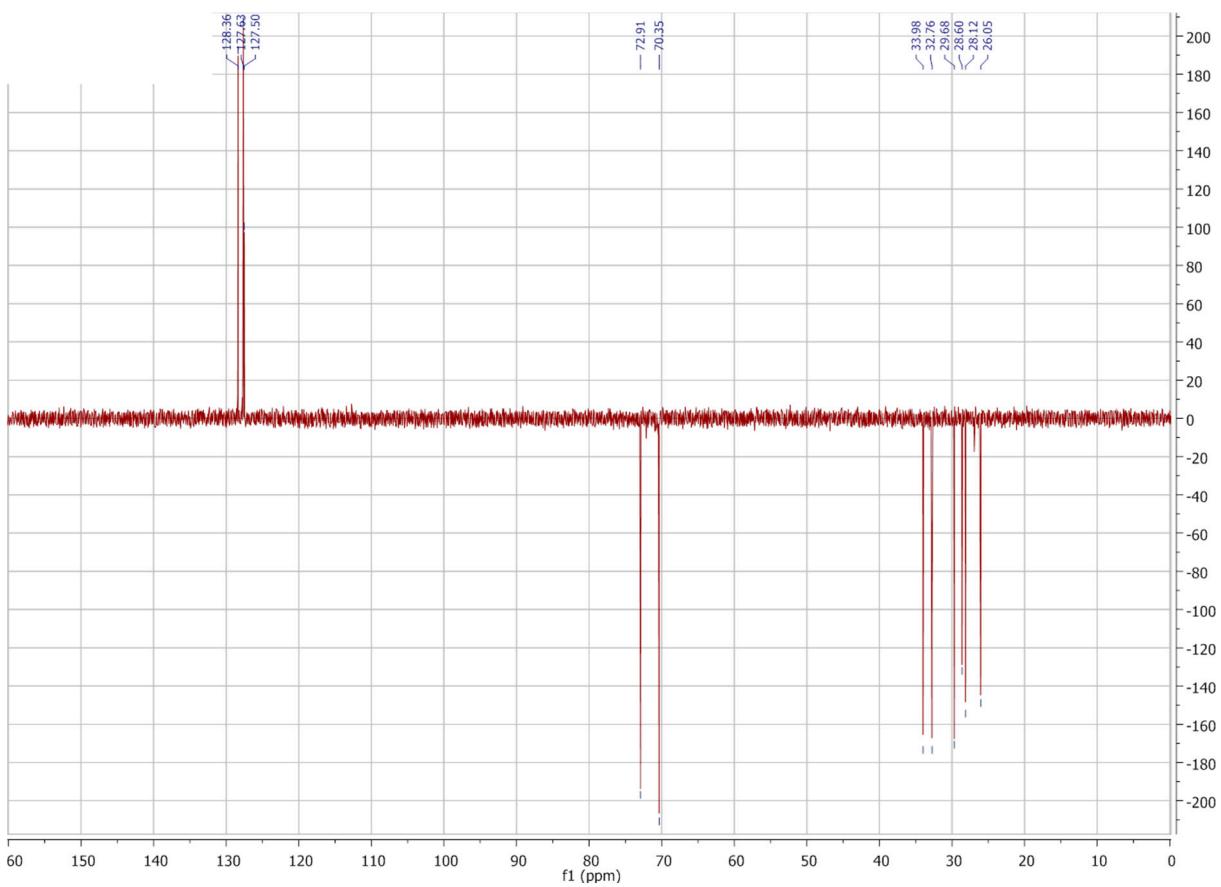
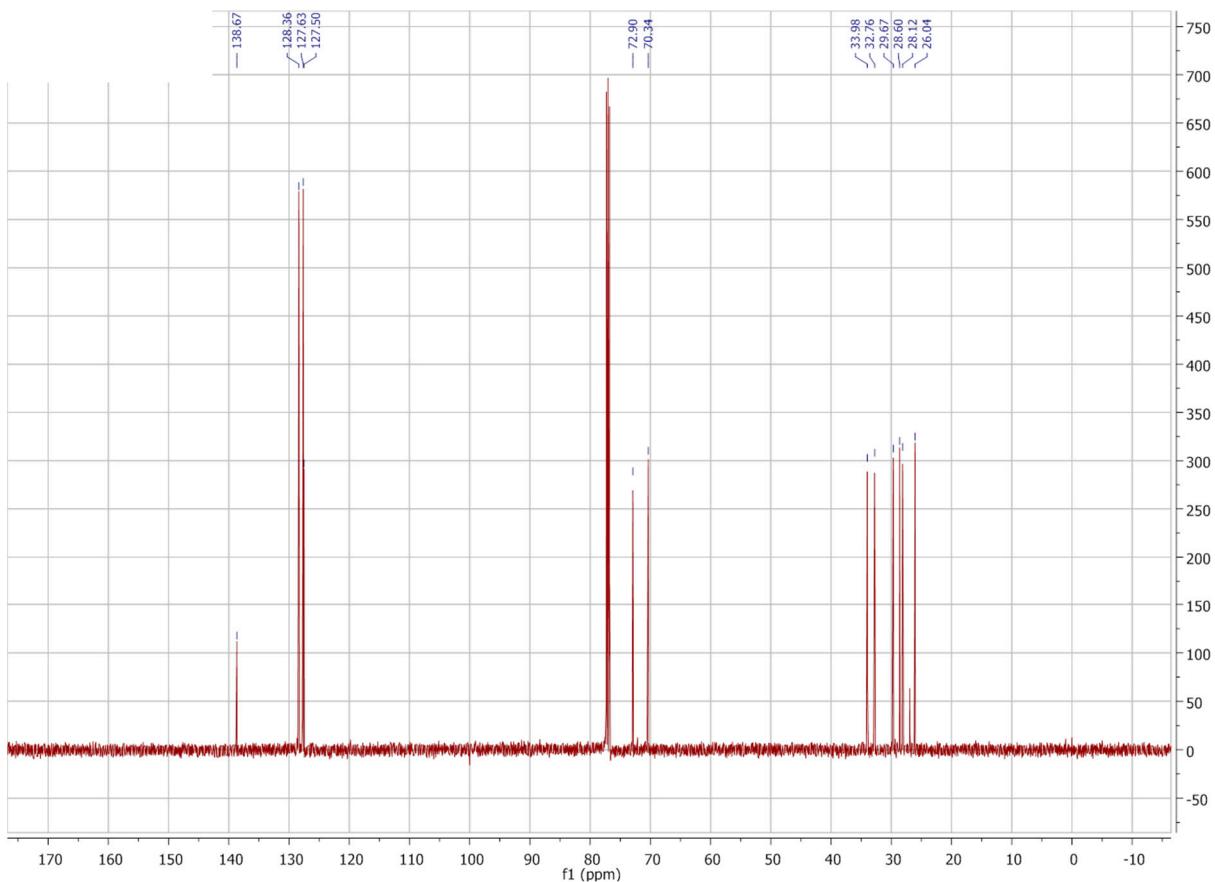


{[(7-bromoheptyl)oxy]methyl}benzene (**7a**; ZHAWOC7096)

NMR

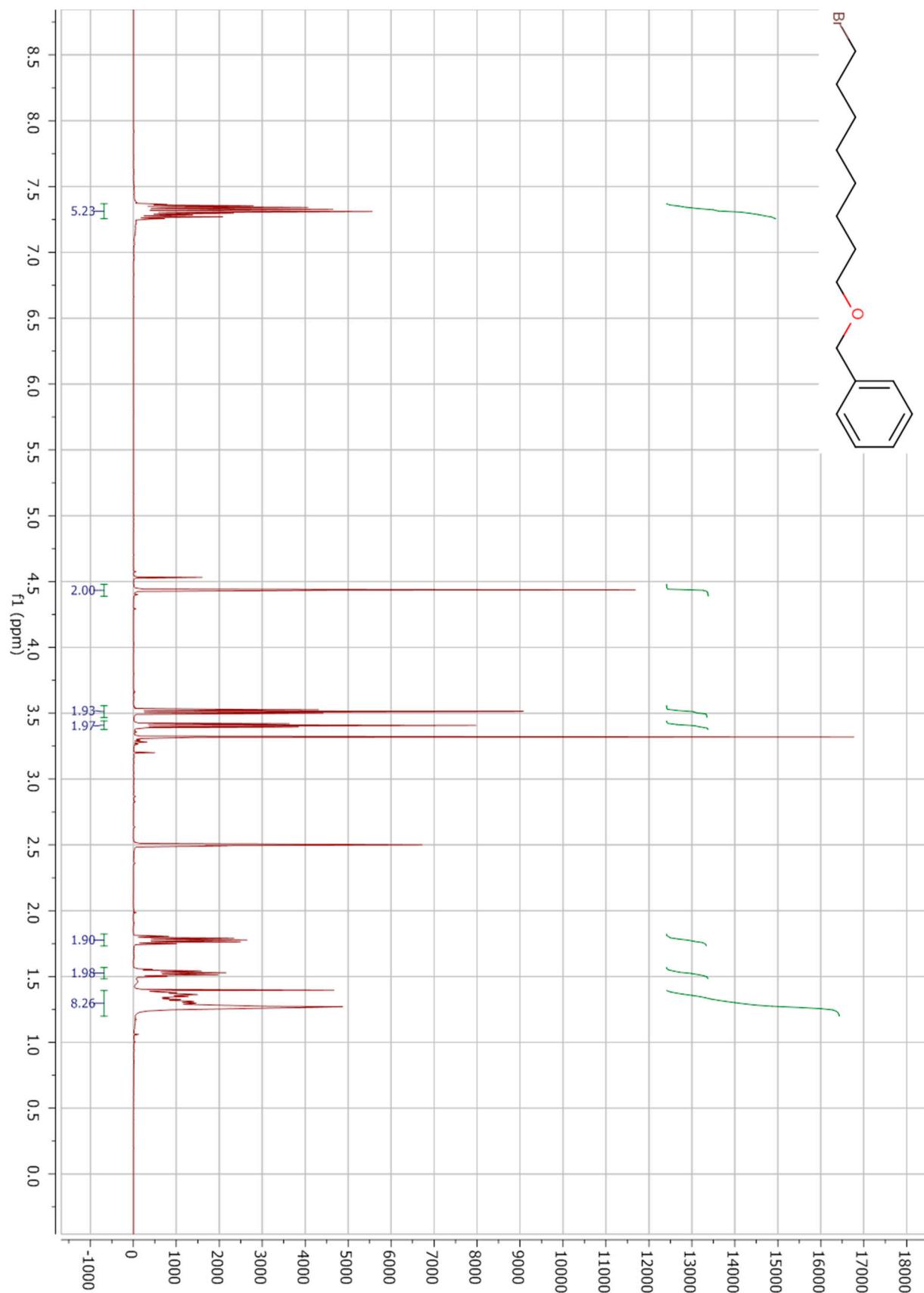


{[(7-bromoheptyl)oxy]methyl}benzene (7a; ZHAWOC7096)

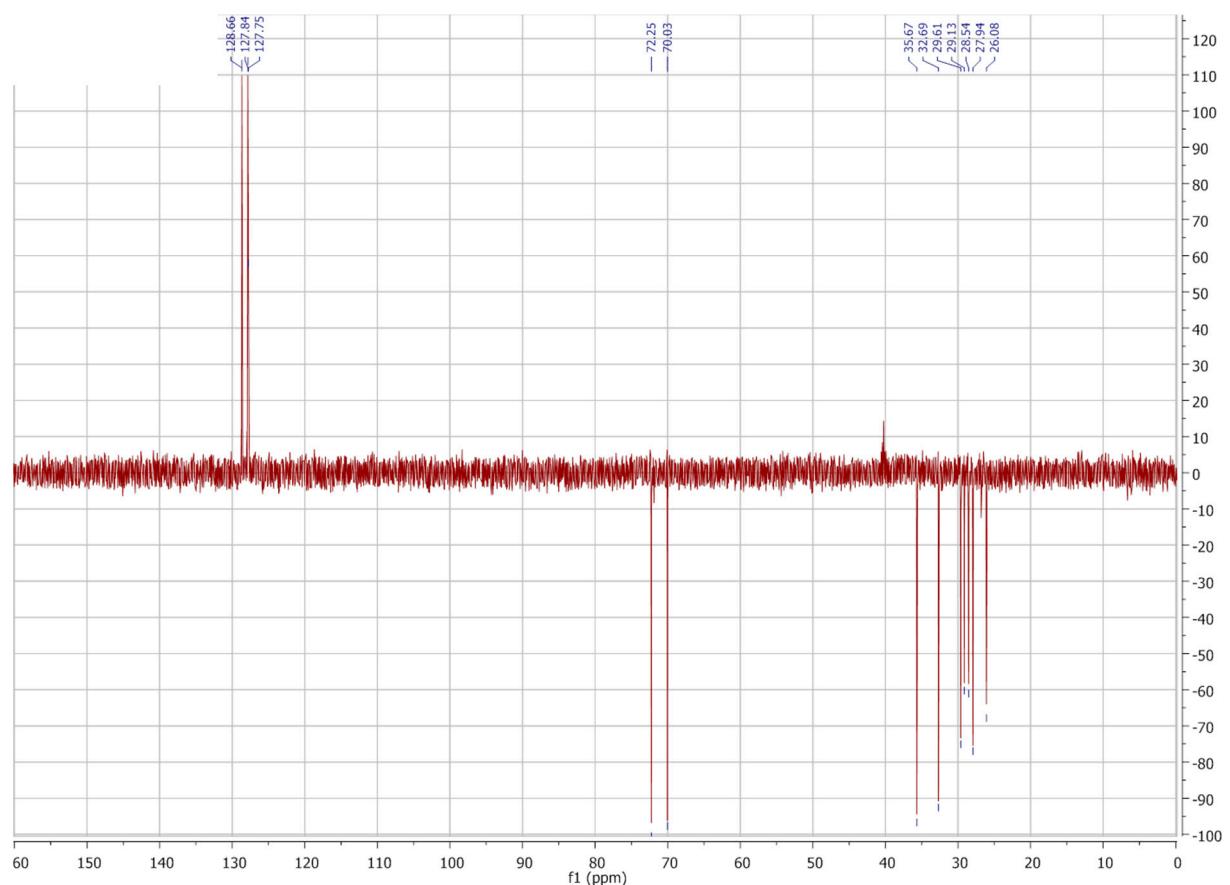
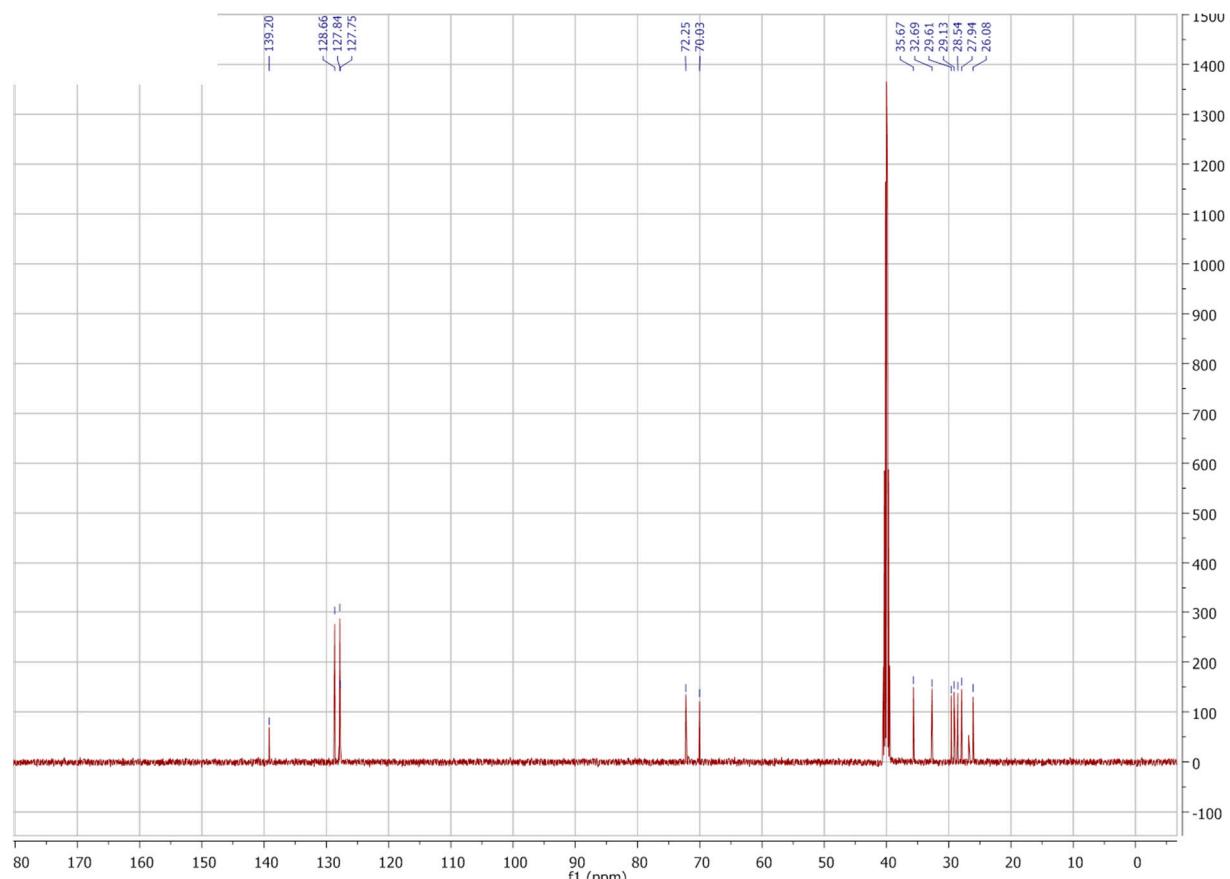


{[(8-bromo{octyl})oxy]methyl}benzene (**7b**; ZHAWOC6856)

NMR

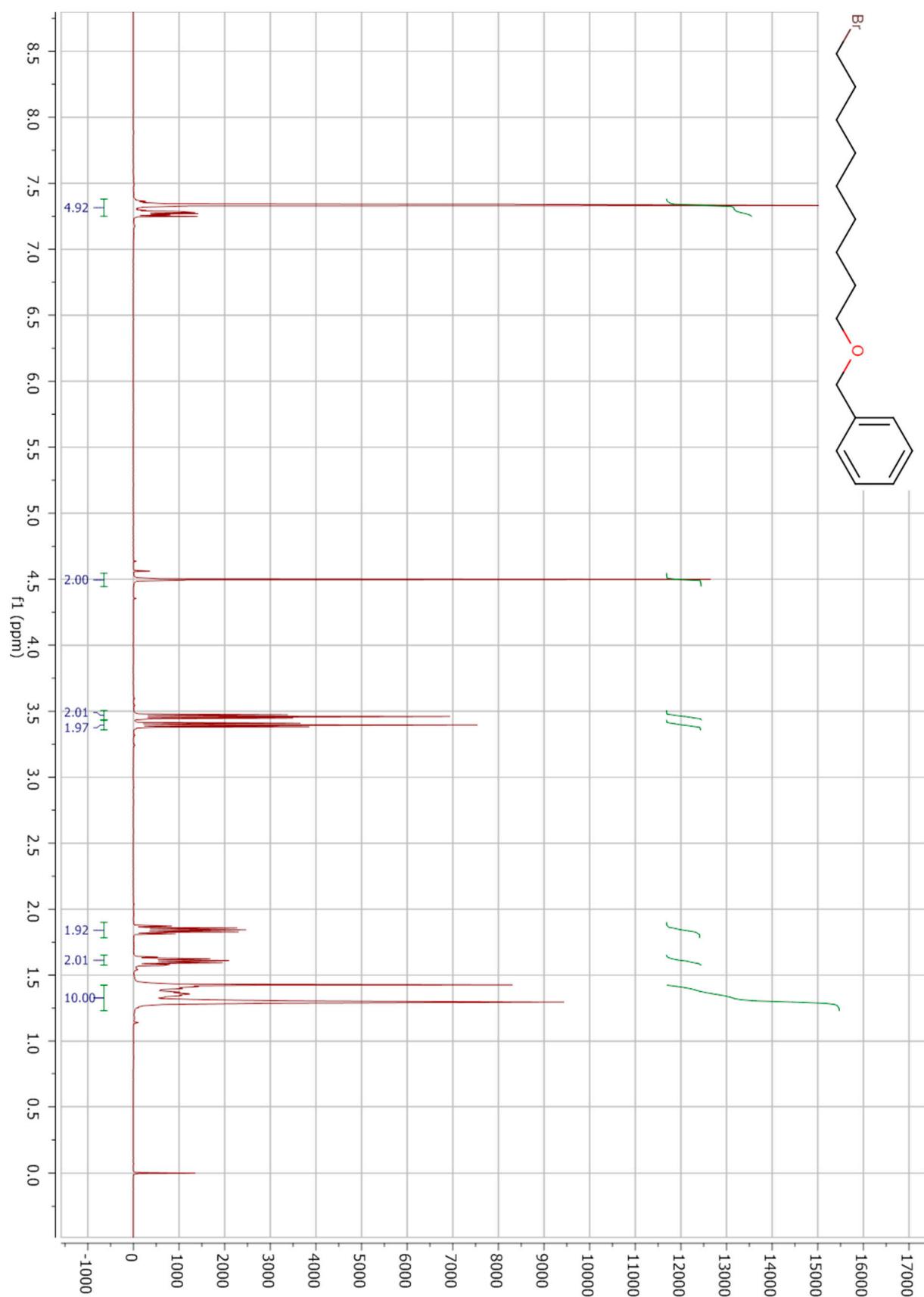


*{[(8-bromoocetyl)oxy]methyl}benzene (**7b**; ZHAWOC6856)*

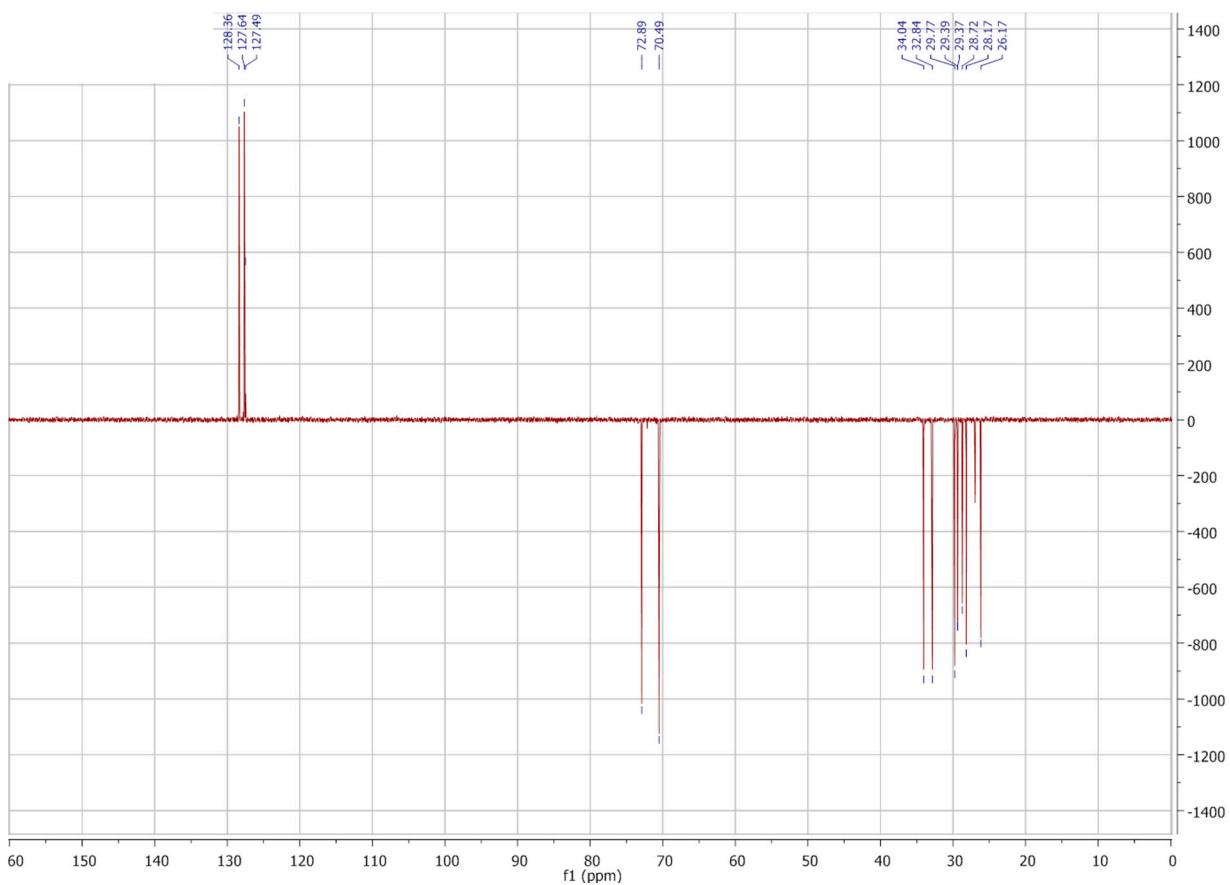
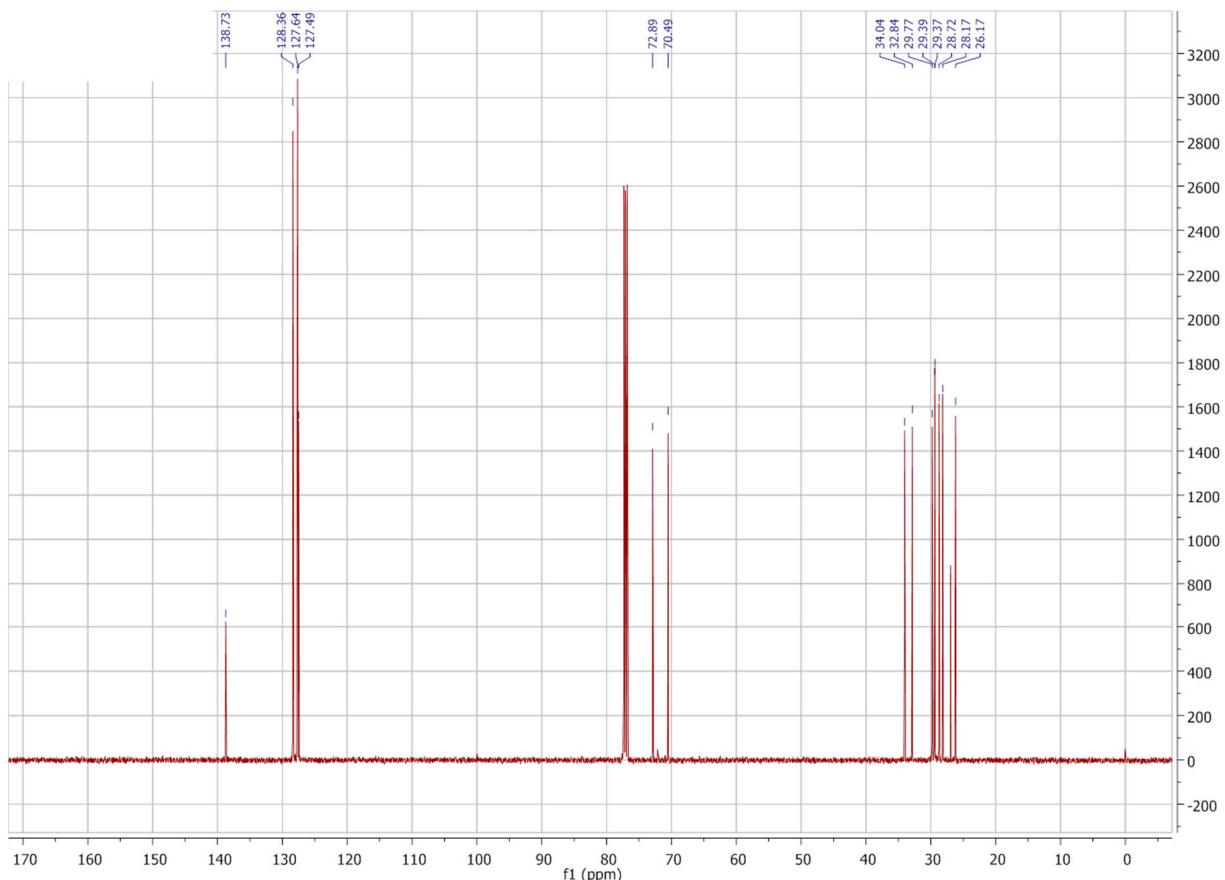


{[(9-bromononyl)oxy]methyl}benzene (**7c**; ZHAWOC6852)

NMR

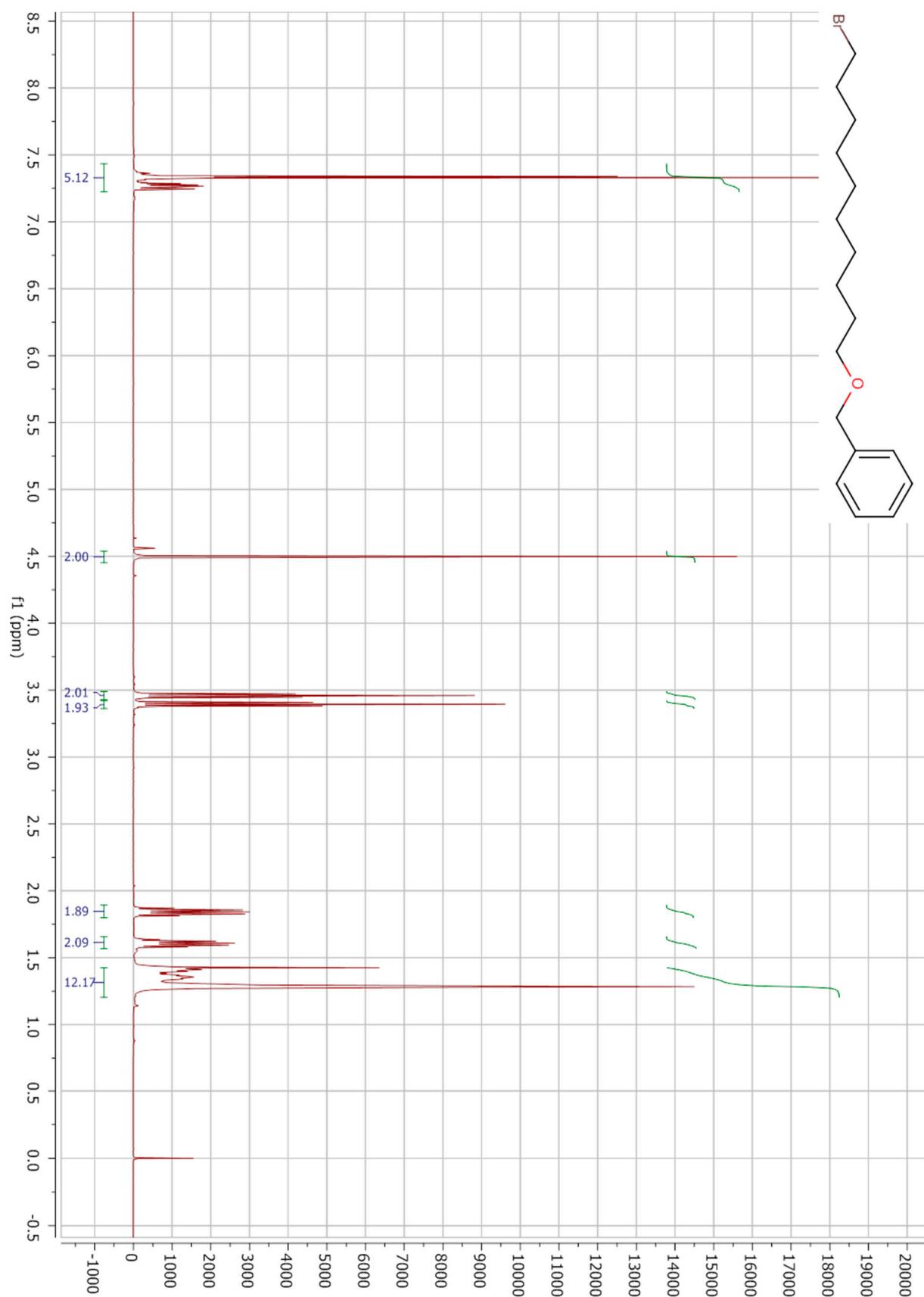


{[(9-bromononyl)oxy]methyl}benzene (**7c**; ZHAWOC6852)

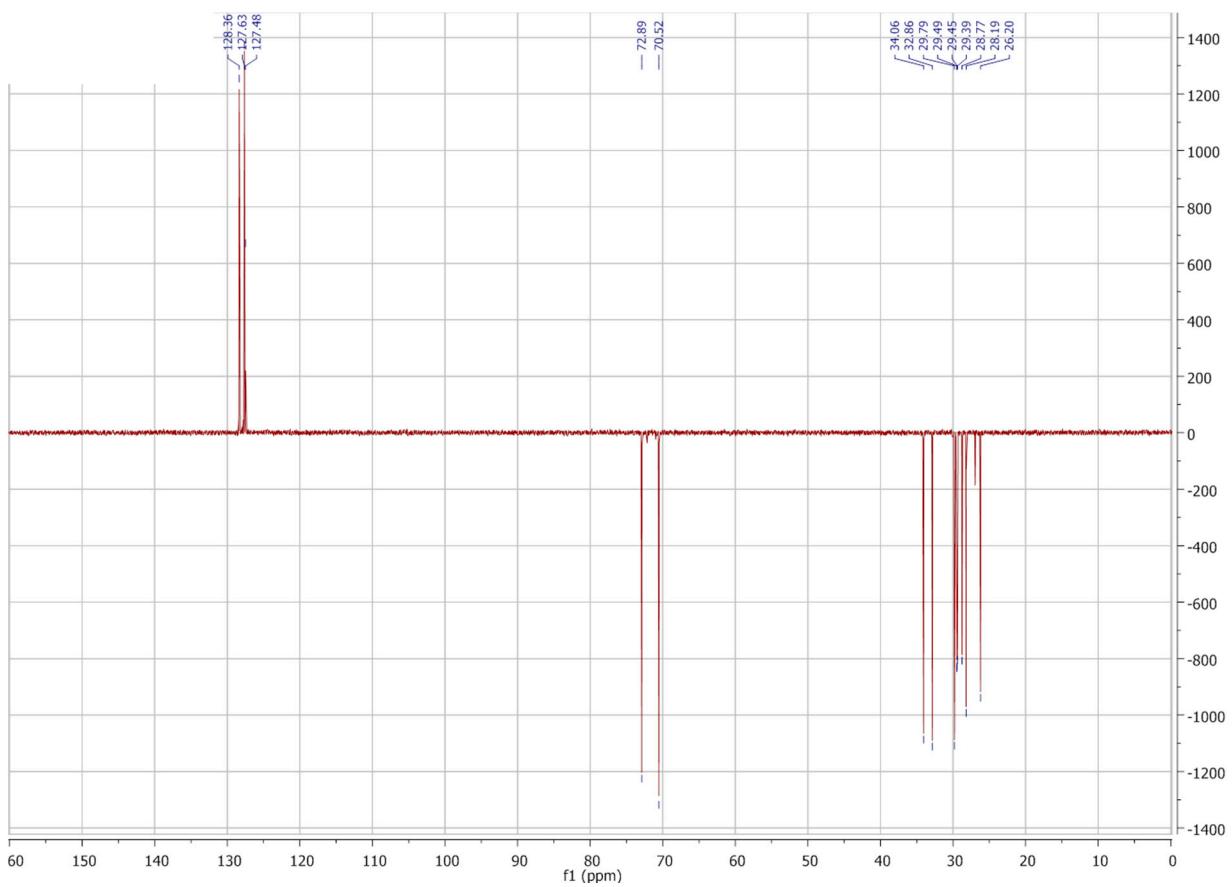
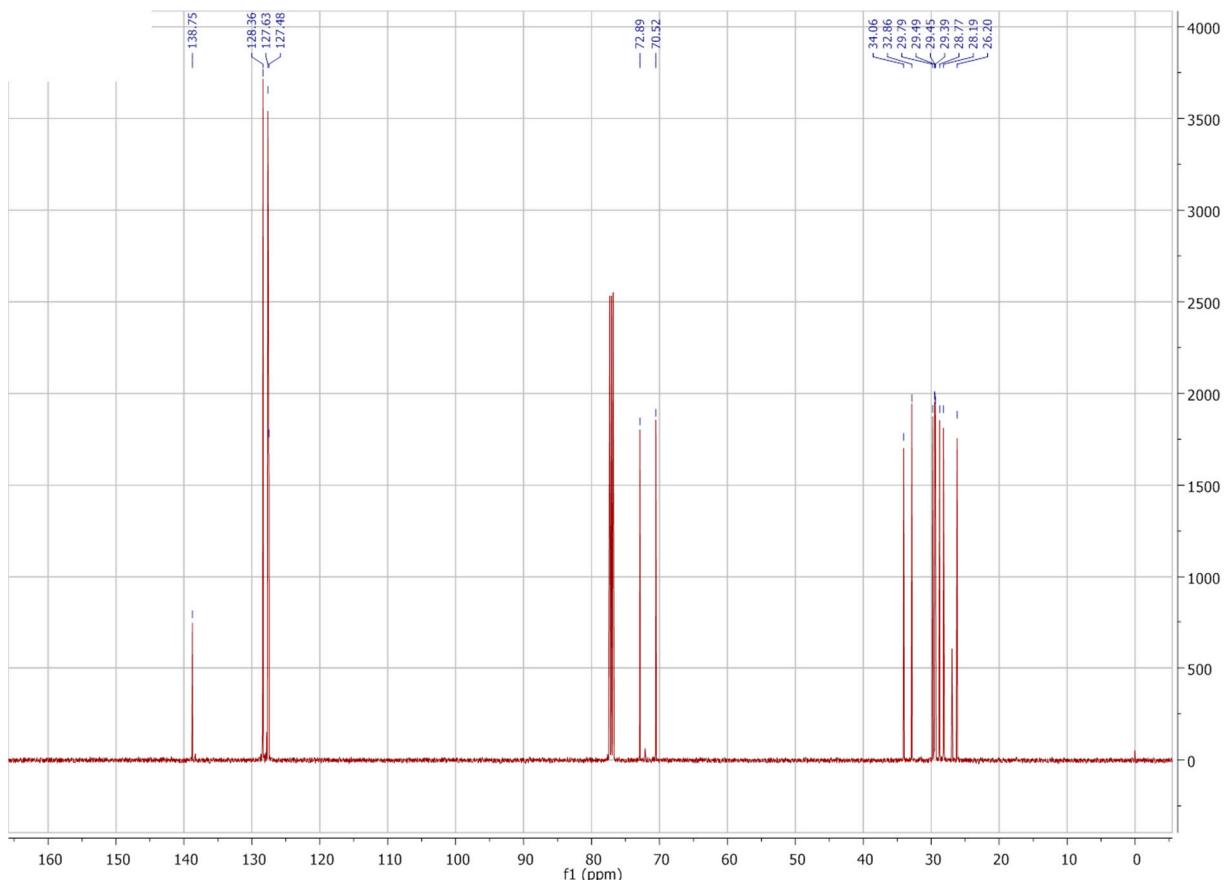


{[(10-bromodecyl)oxy]methyl}benzene (**7d**; ZHAWOC6853)

NMR

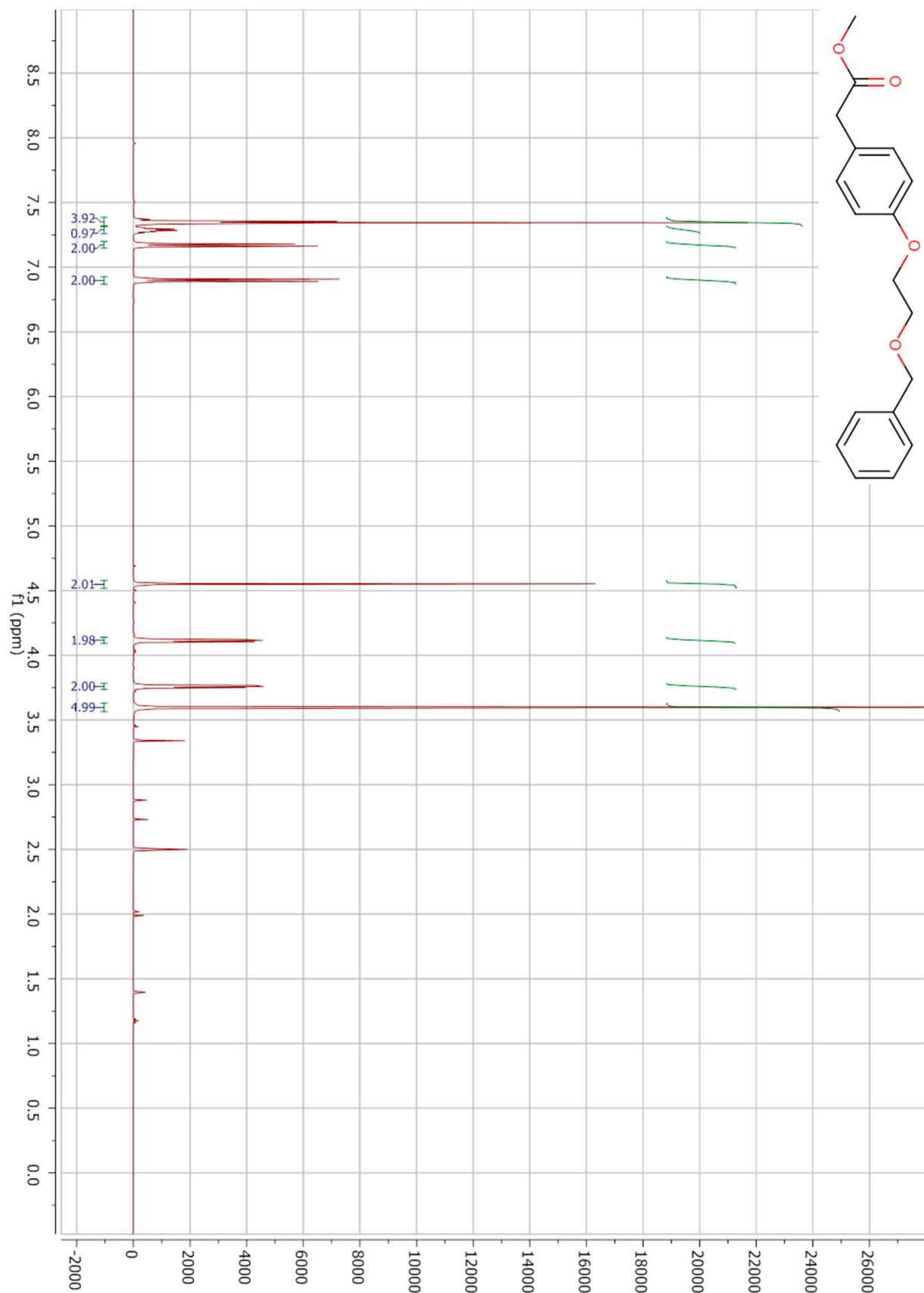


{[(10-bromodecyl)oxy]methyl}benzene (7d; ZHAWOC6853)

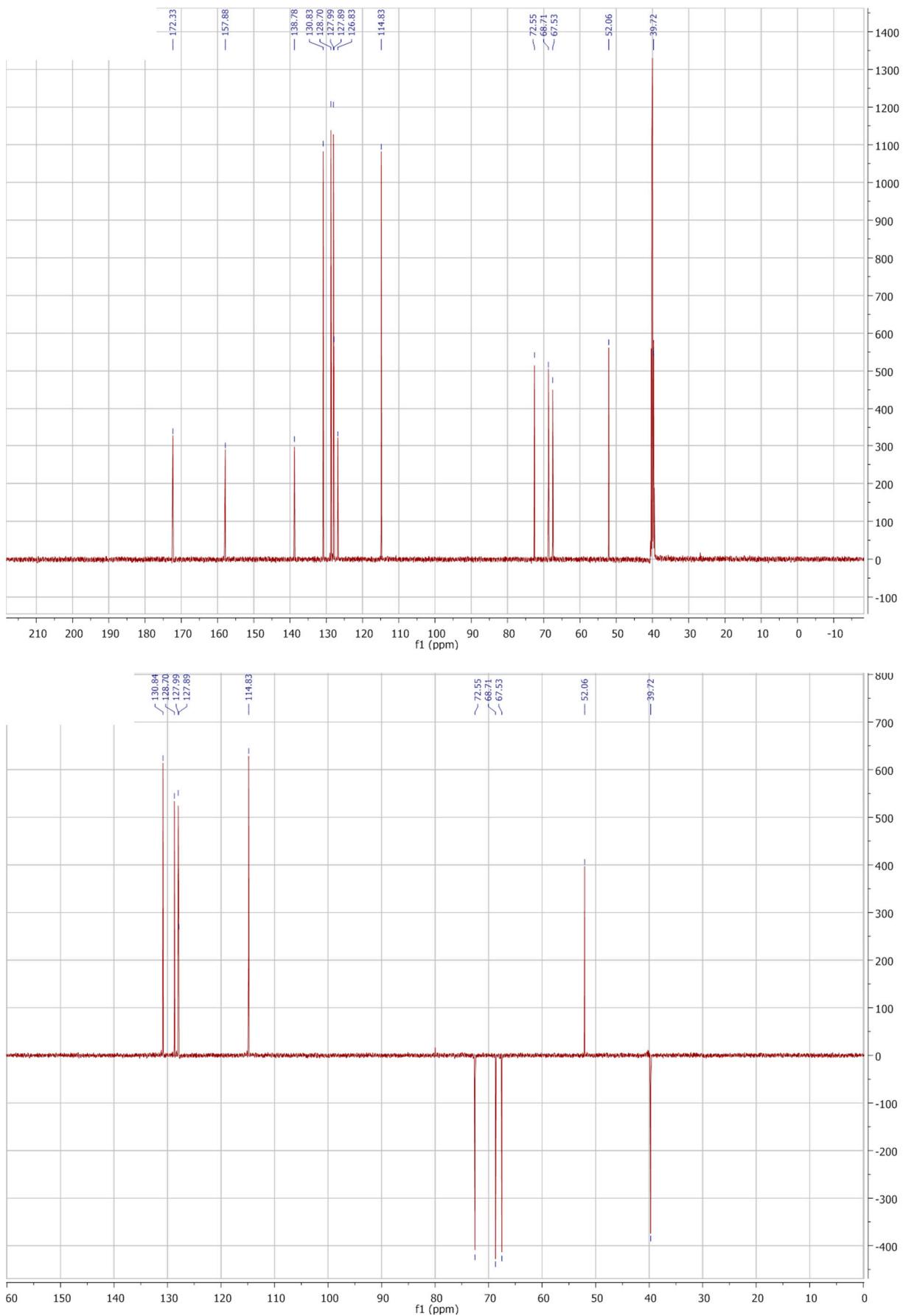


*Methyl 2-{4-[2-(benzyloxy)ethoxy]phenyl}acetate (**8a**; ZHAWOC7100)*

NMR

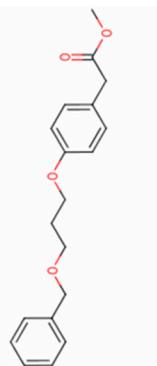
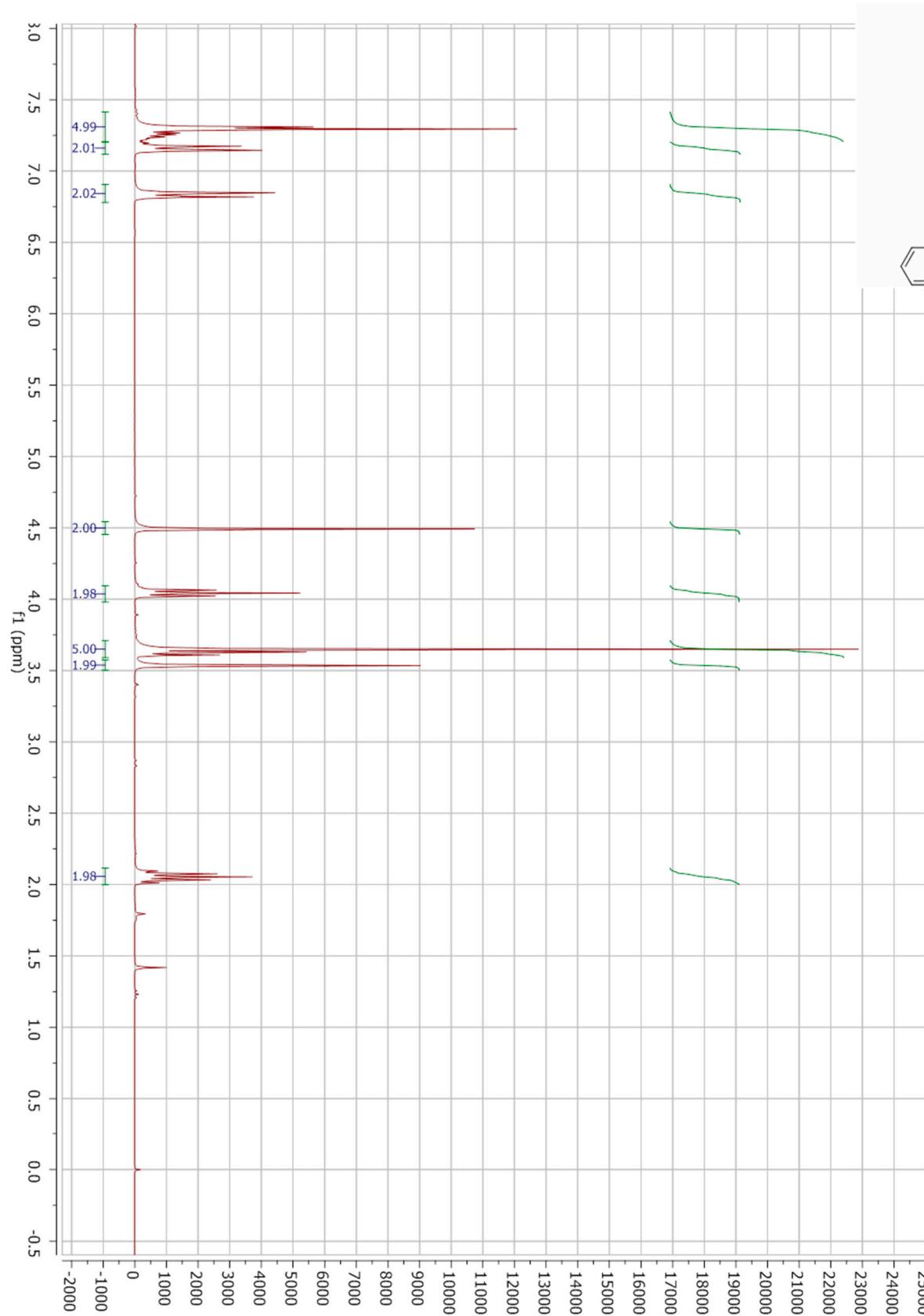


*Methyl 2-{4-[2-(benzyloxy)ethoxy]phenyl}acetate (**8a**; ZHAWOC7100)*

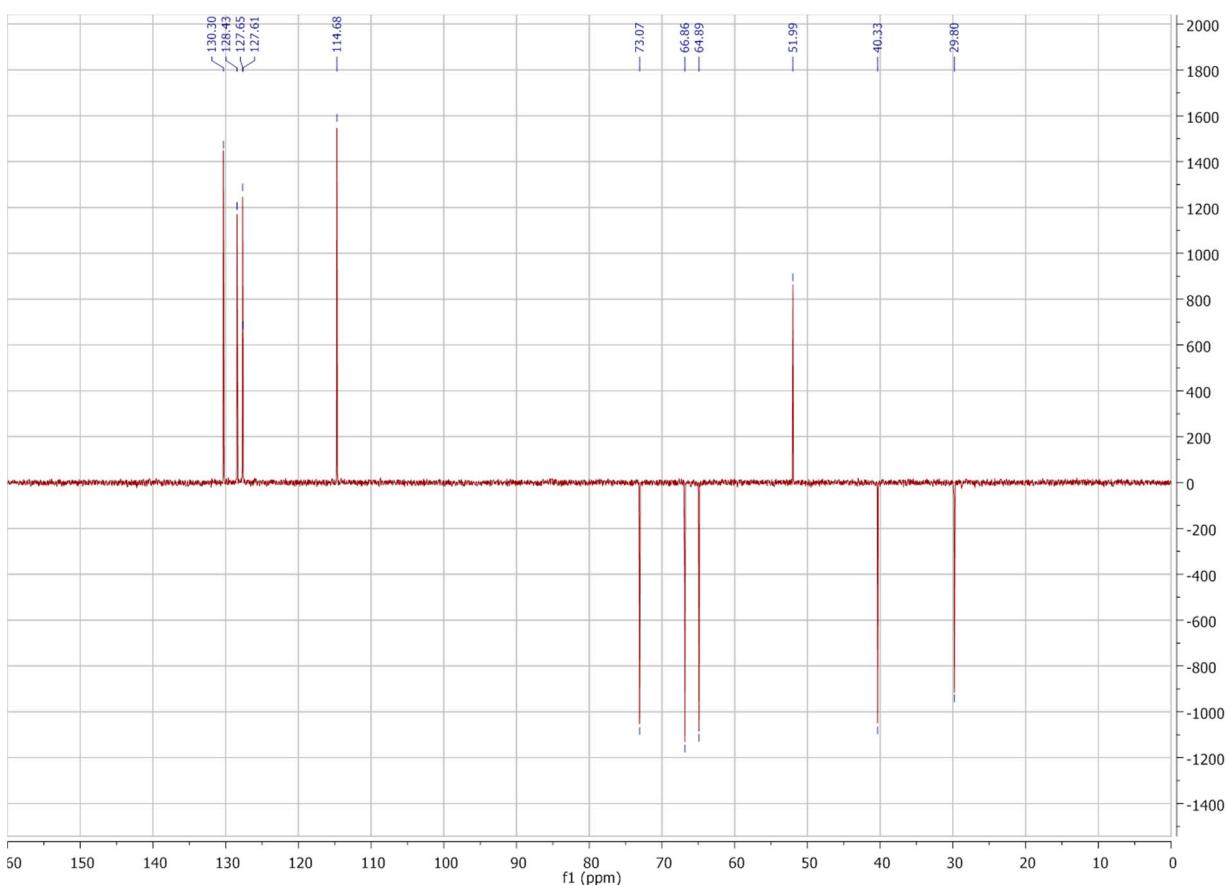
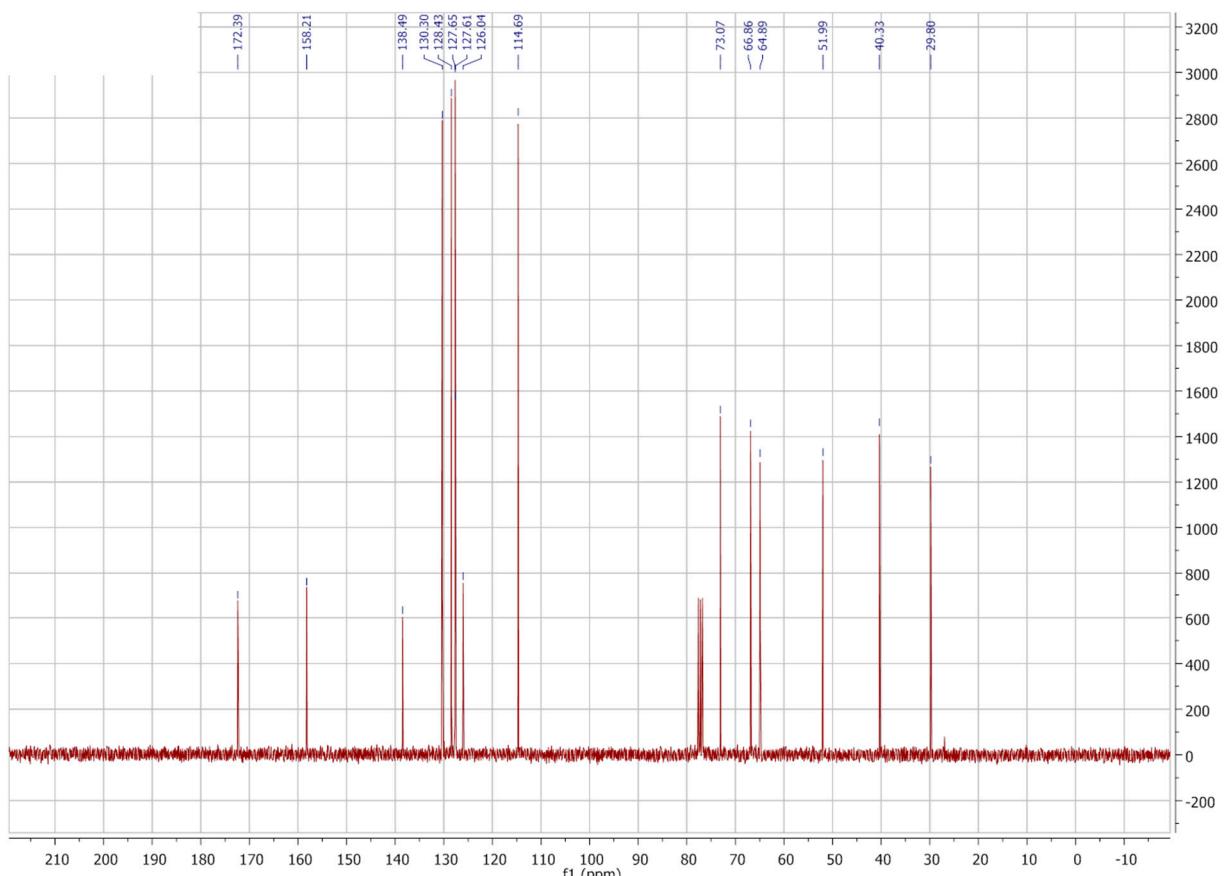


*Methyl 2-{4-[3-(benzyloxy)propoxy]phenyl}acetate (**8b**; ZHAWOC4496)*

NMR

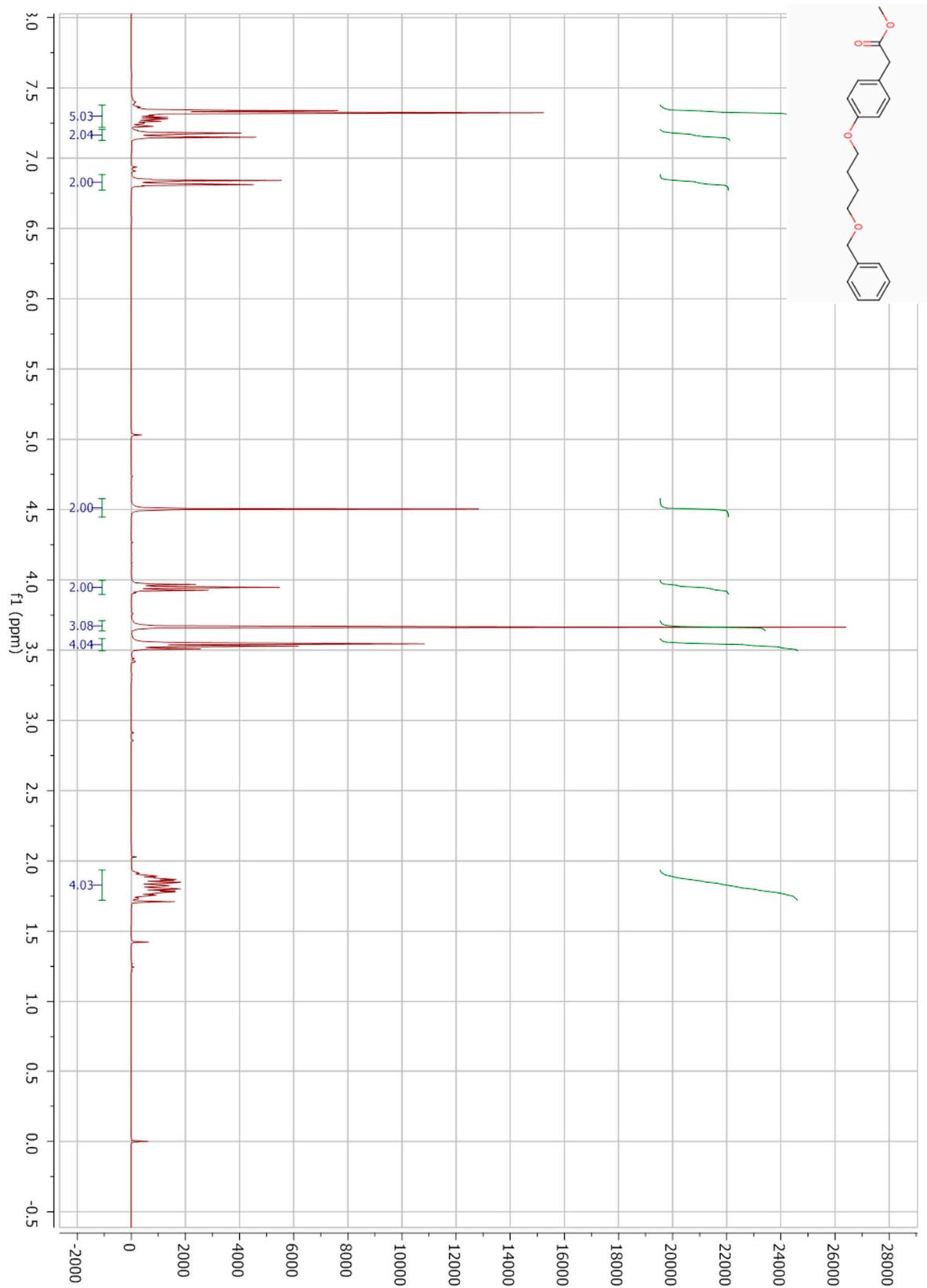


*Methyl 2-{4-[3-(benzyloxy)propoxy]phenyl}acetate (**8b**; ZHAWOC4496)*

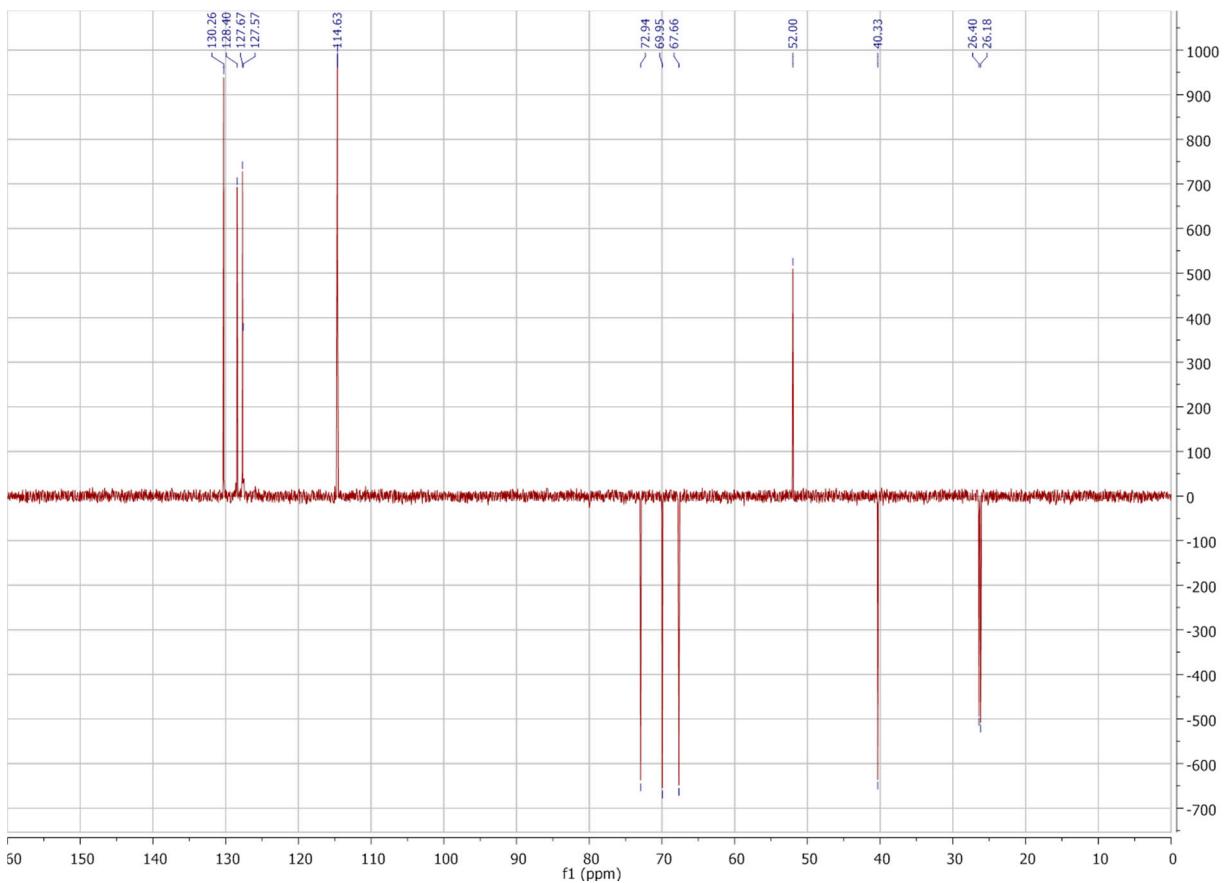
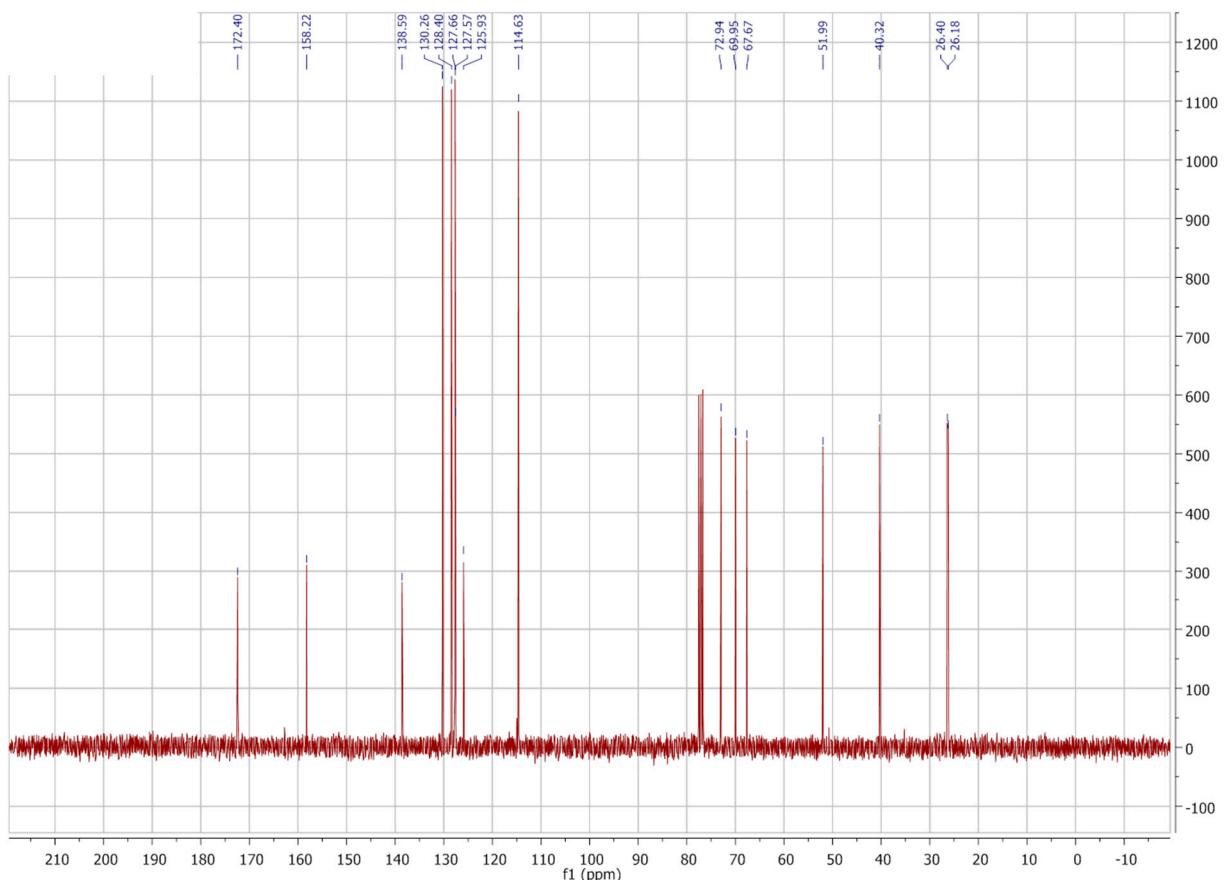


Methyl 2-{4-[4-(benzyloxy)butoxy]phenyl}acetate (8c; ZHAWOC4534)

NMR

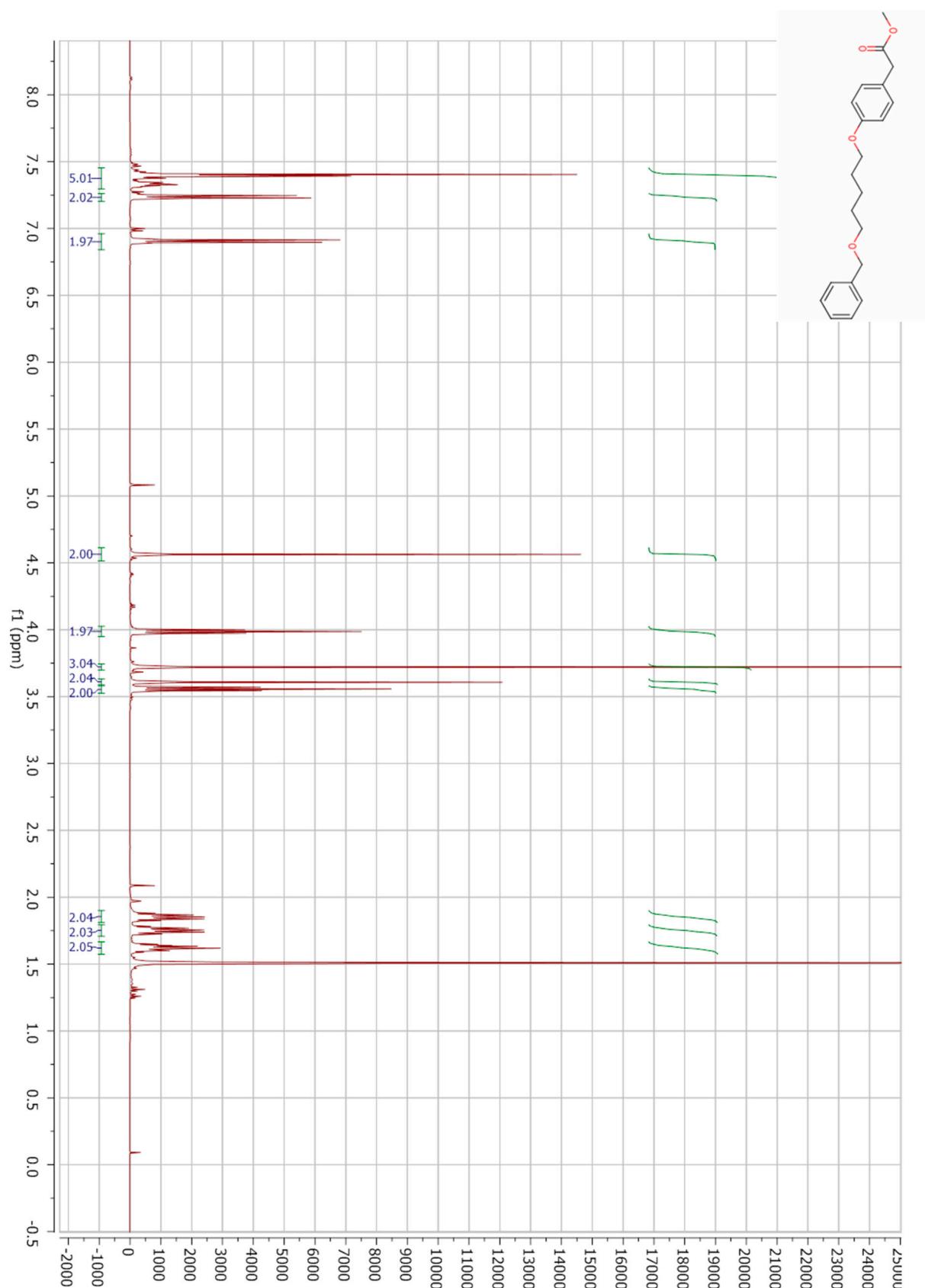


Methyl 2-{4-[4-(benzyloxy)butoxy]phenyl}acetate (8c; ZHAWOC4534)

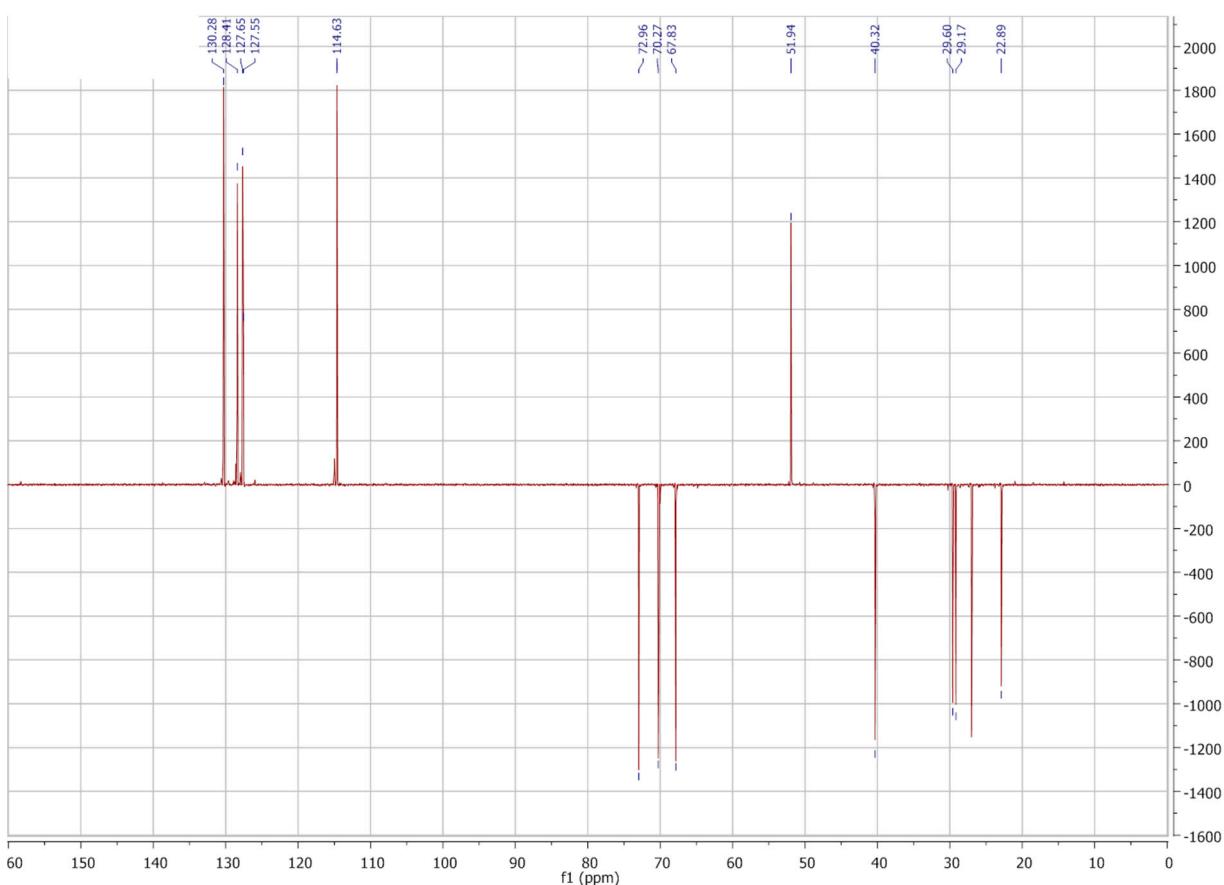
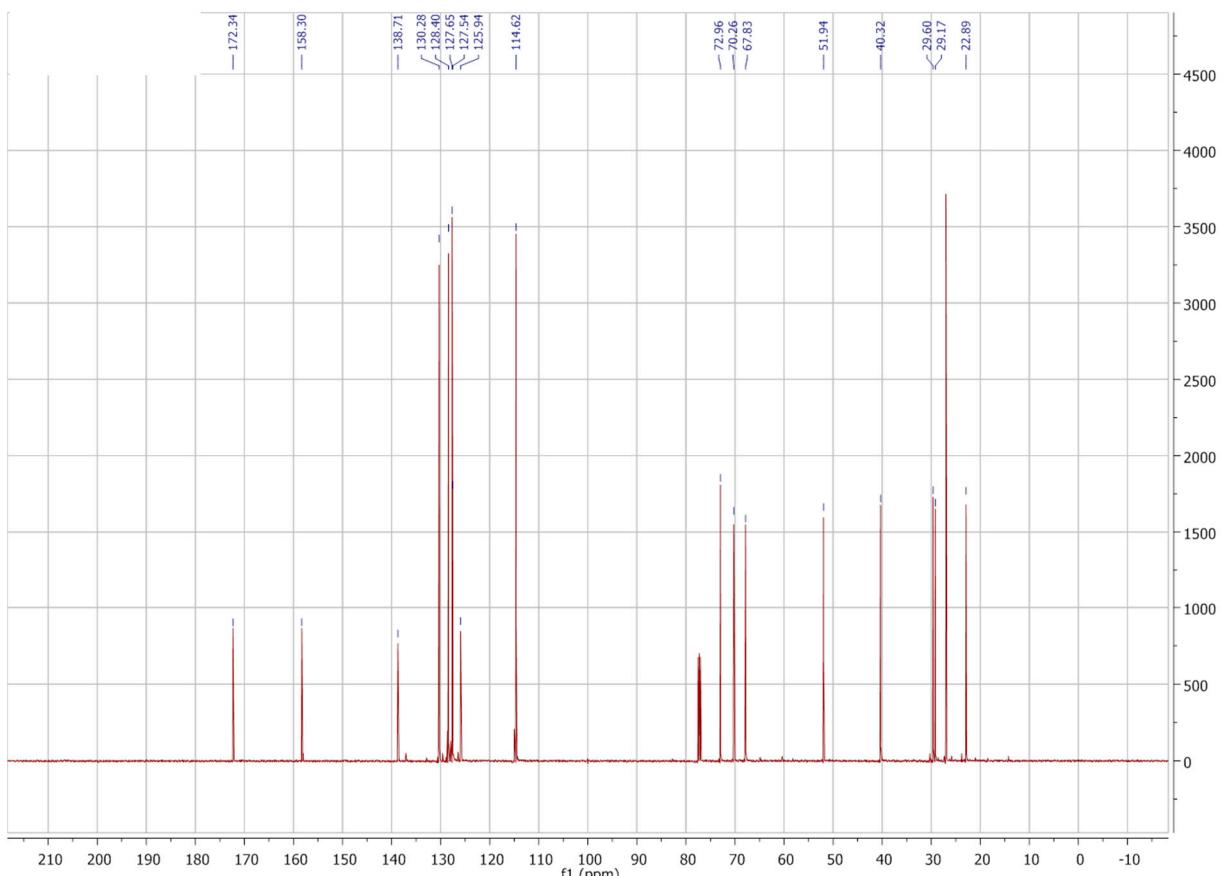


Methyl 2-(4-{[5-(benzyloxy)pentyl]oxy}phenyl)acetate (8d**; ZHAWOC5921)**

NMR

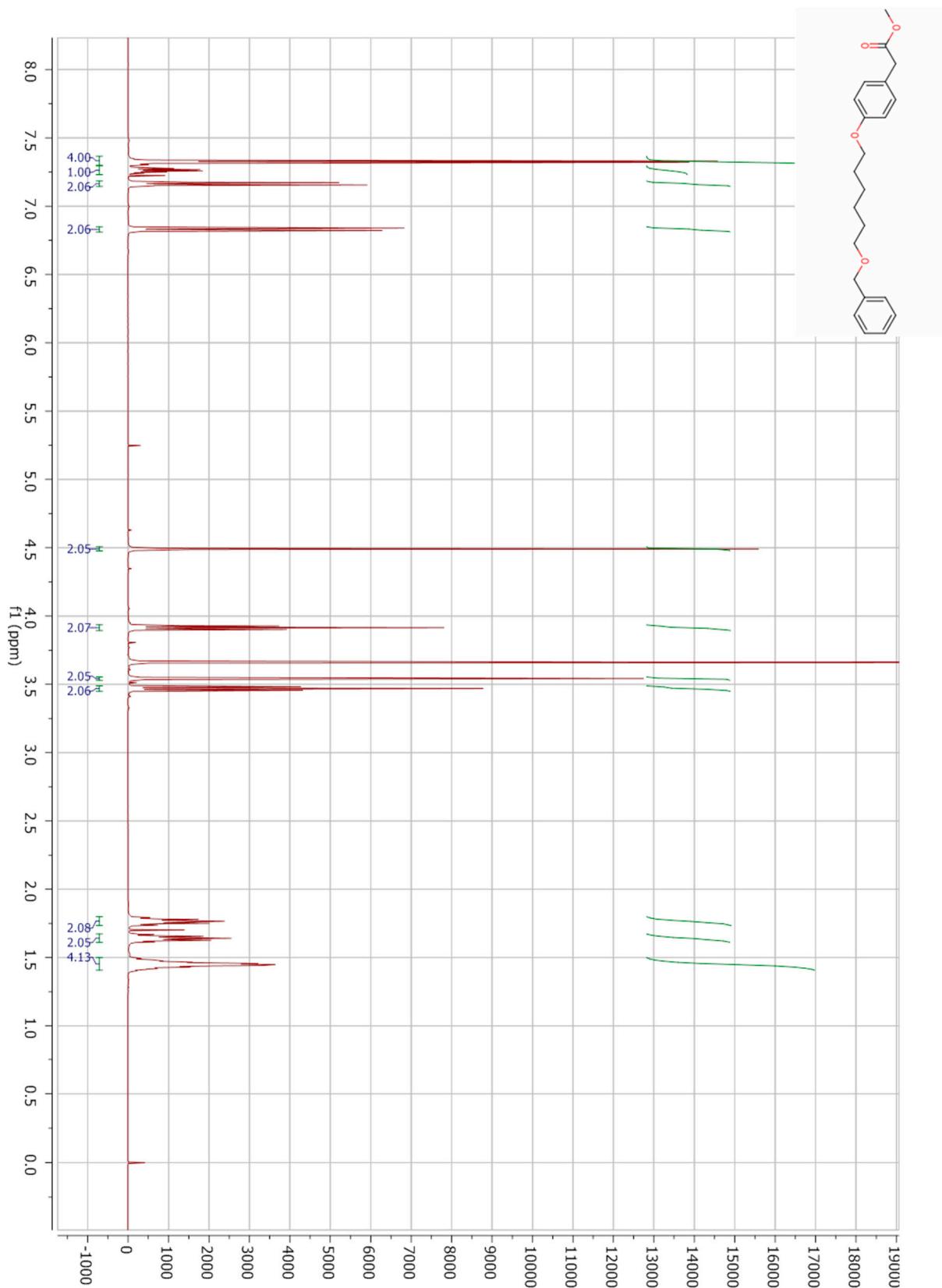


Methyl 2-(4-[[5-(benzyloxy)pentyl]oxy]phenyl)acetate (8d; ZHAWOC5921)

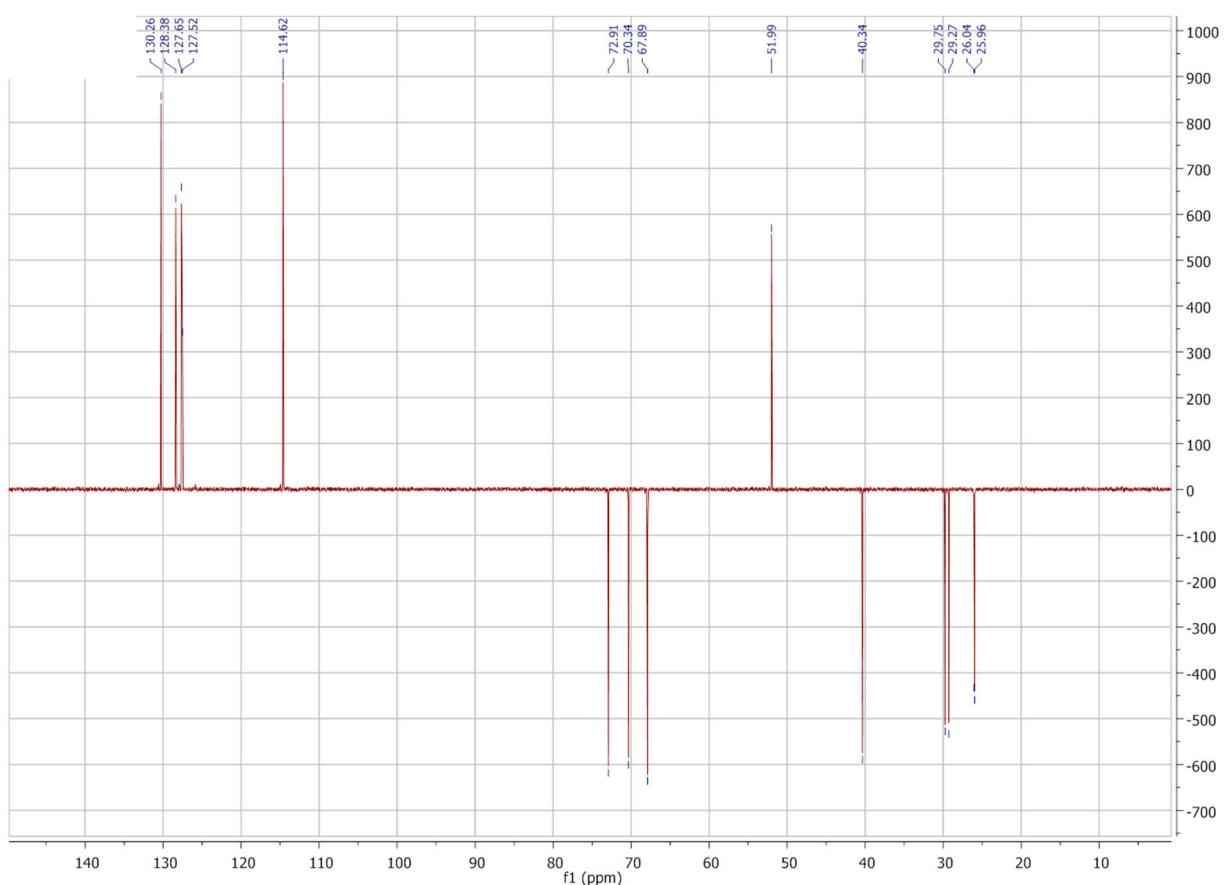
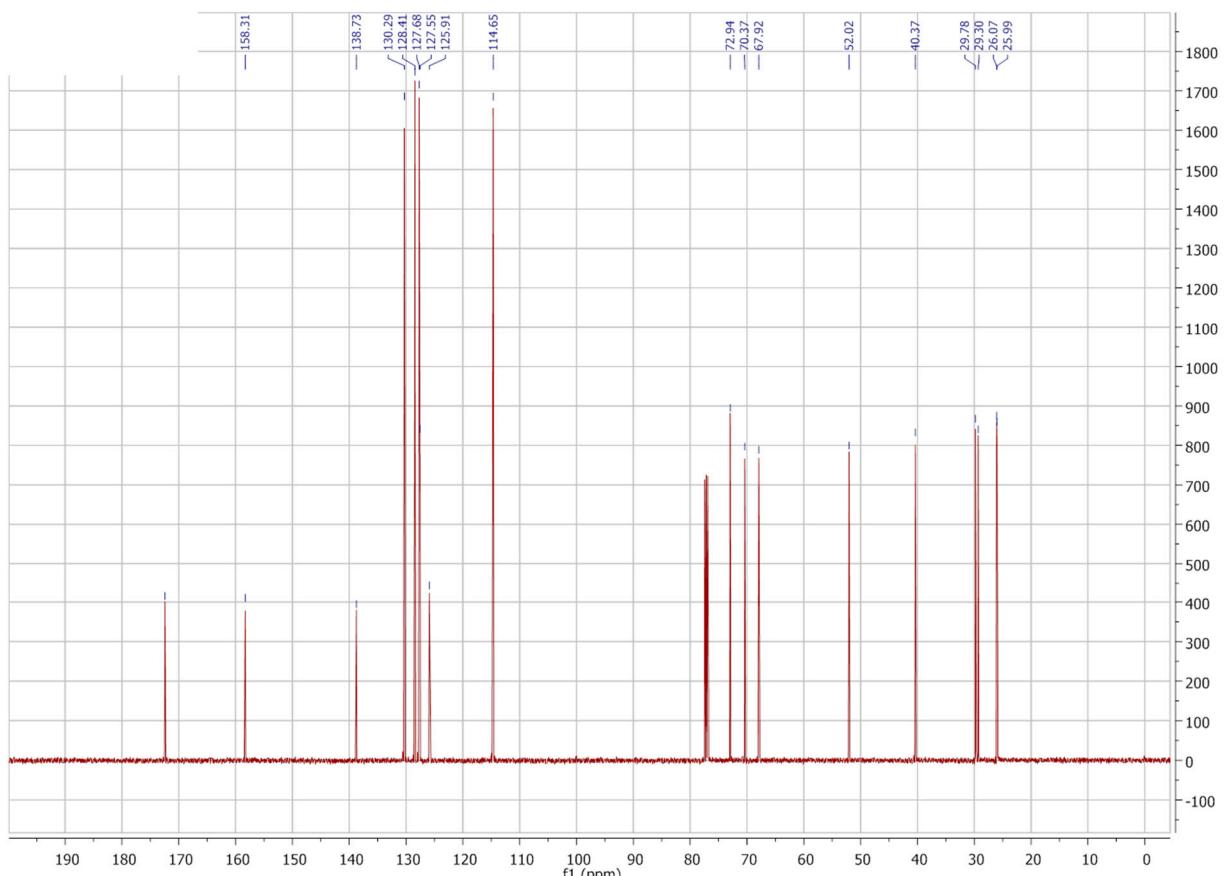


*Methyl 2-(4-[[6-(benzyloxy)hexyl]oxy]phenyl)acetate (**8e**; ZHAWOC5946)*

NMR

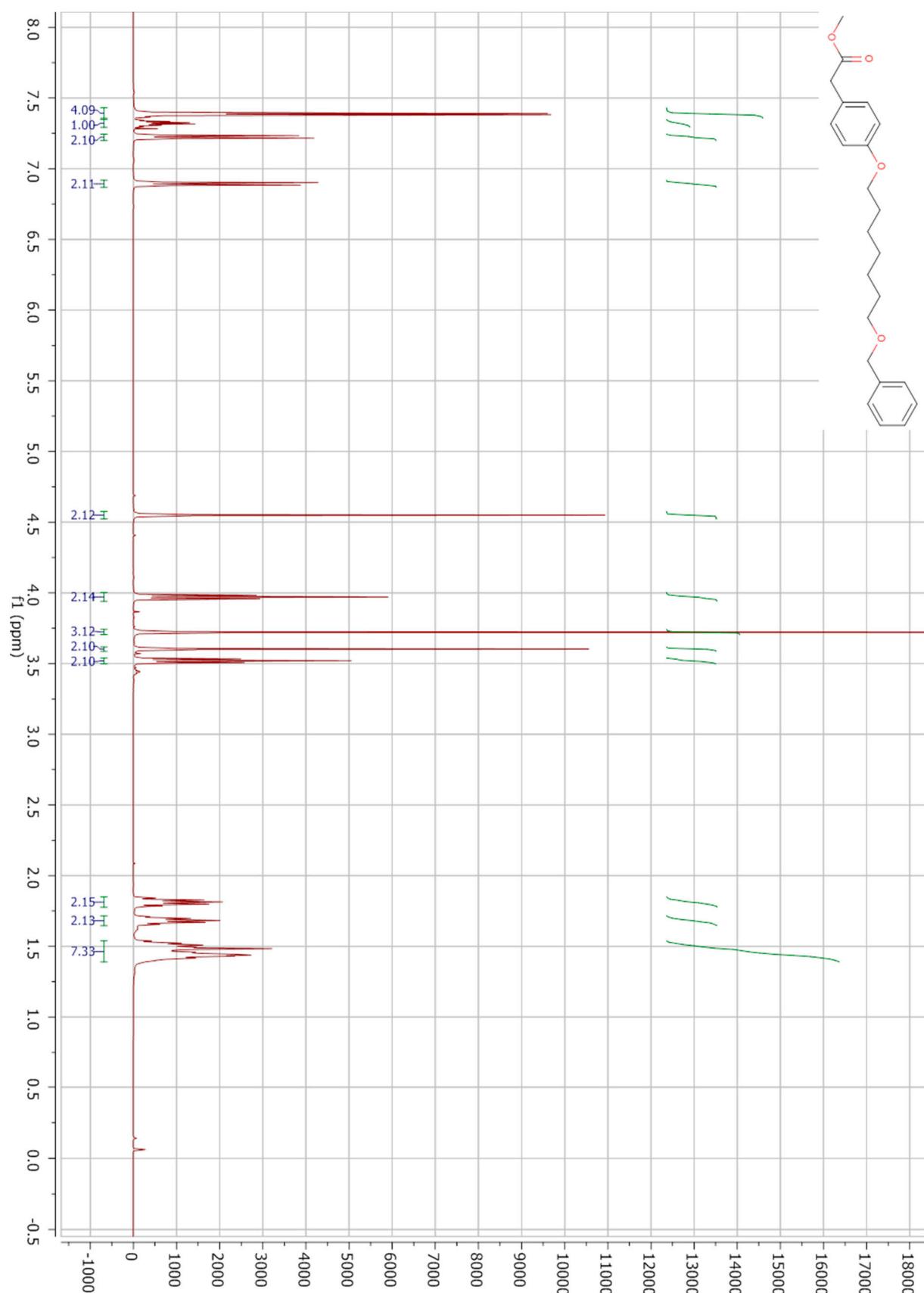


*Methyl 2-(4-[[6-(benzyloxy)hexy]oxy]phenyl)acetate (**8e**; ZHAWOC5946)*

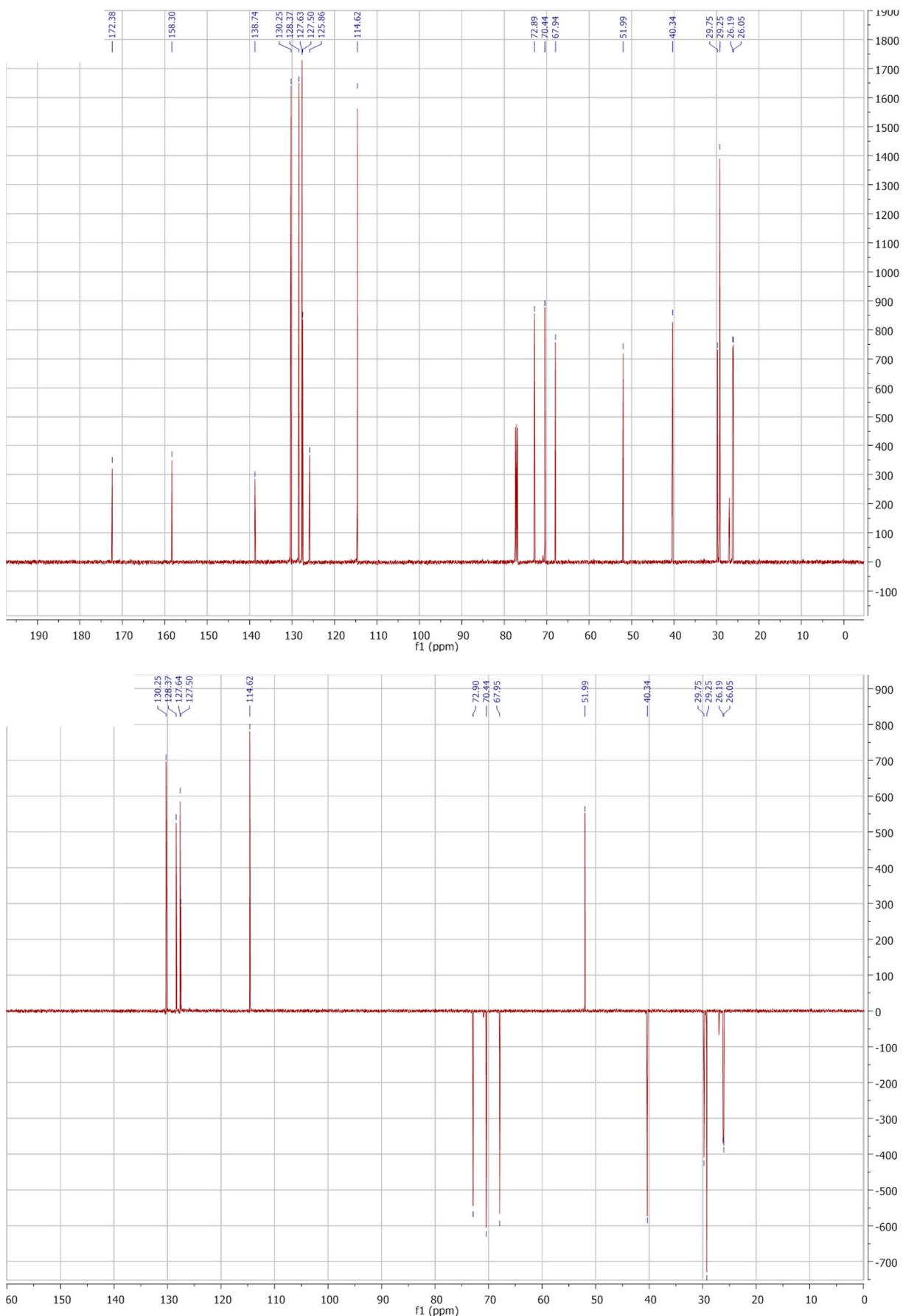


*Methyl 2-(4-[[7-(benzyloxy)heptyl]oxy]phenyl)acetate (**8f**; ZHAWOC7097)*

NMR

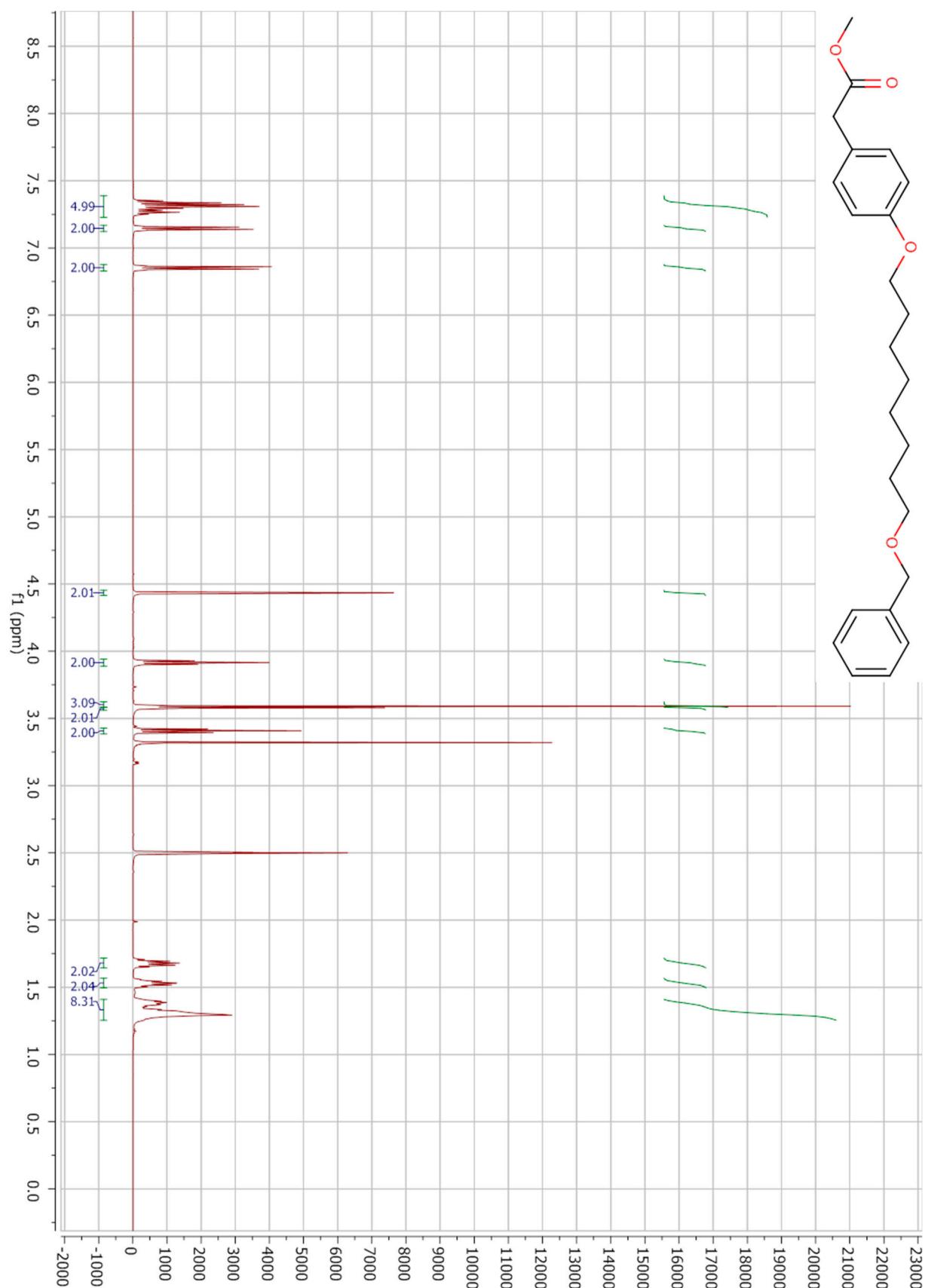


Methyl 2-(4-[[7-(benzyloxy)heptyl]oxy]phenyl)acetate (8f; ZHAWOC7097)

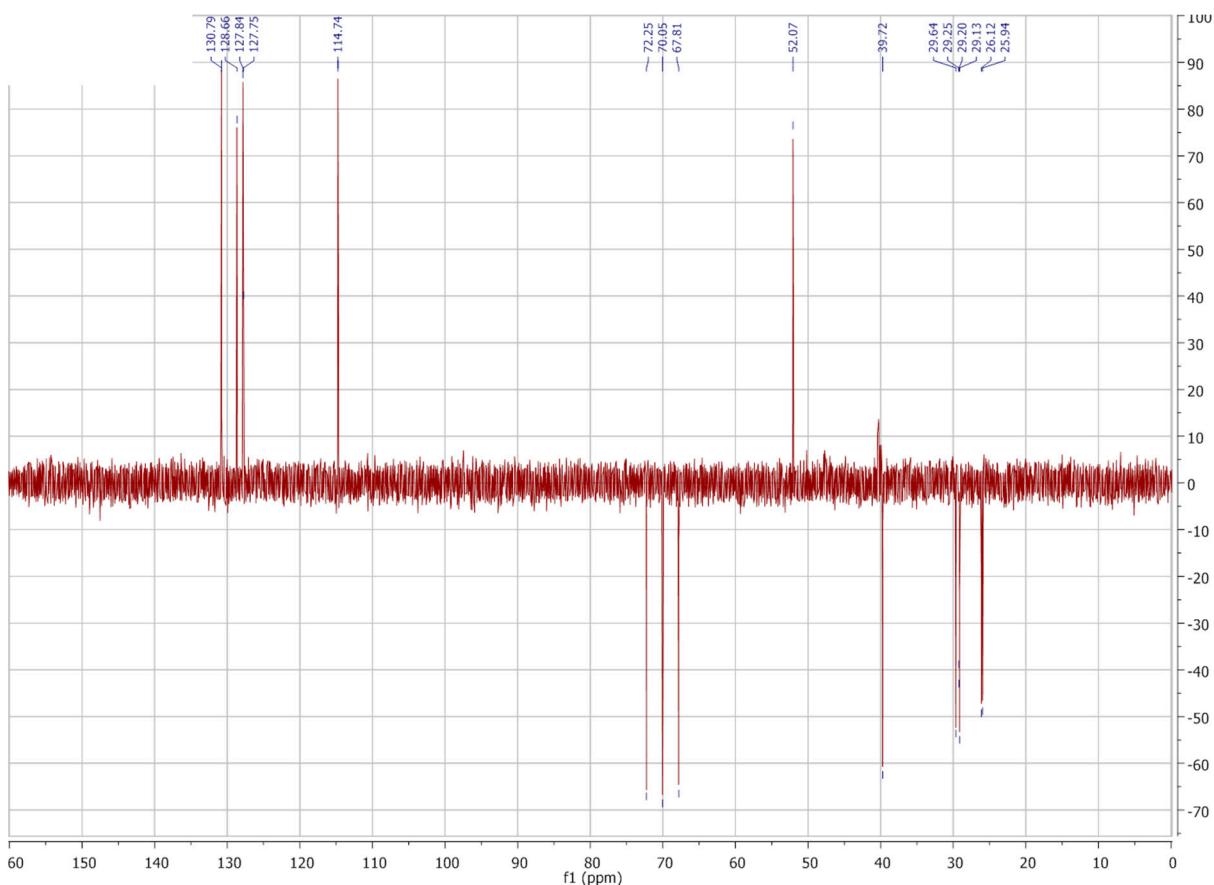
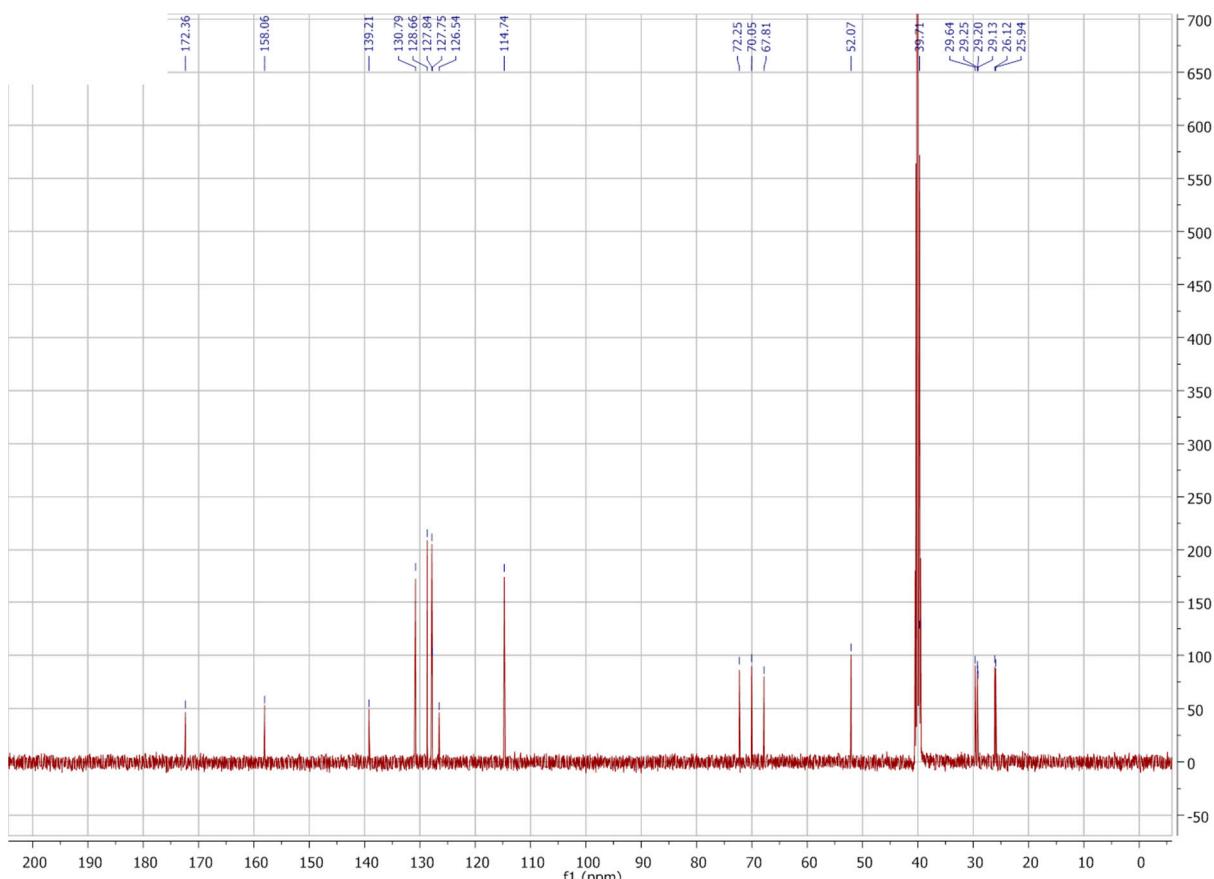


Methyl 2-(4-[[8-(benzyloxy)octyl]oxy]phenyl)acetate (8g; ZHAWOC6857)

NMR

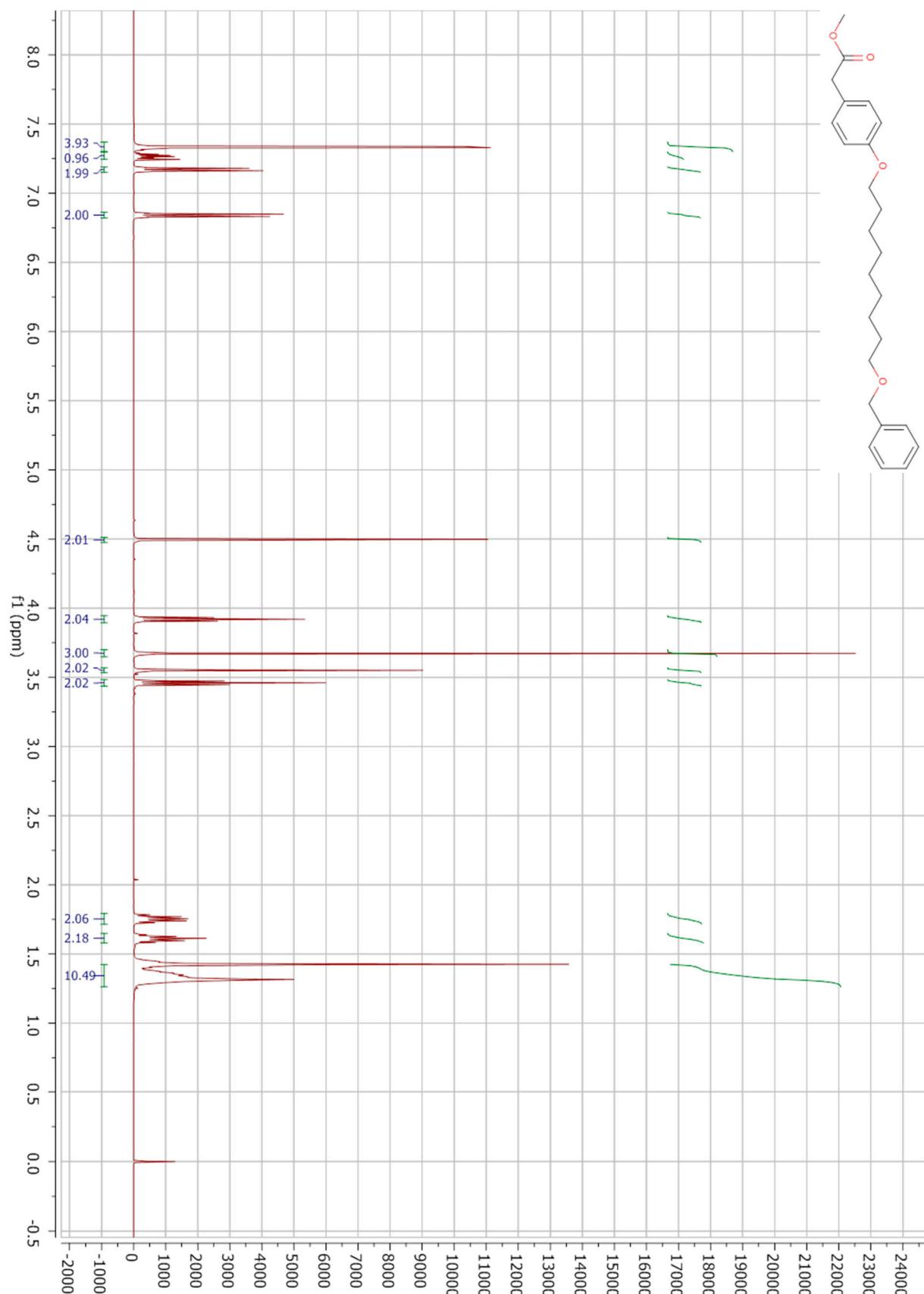


Methyl 2-(4-[[8-(benzyloxy)octyl]oxy]phenyl)acetate (8g; ZHAWOC6857)

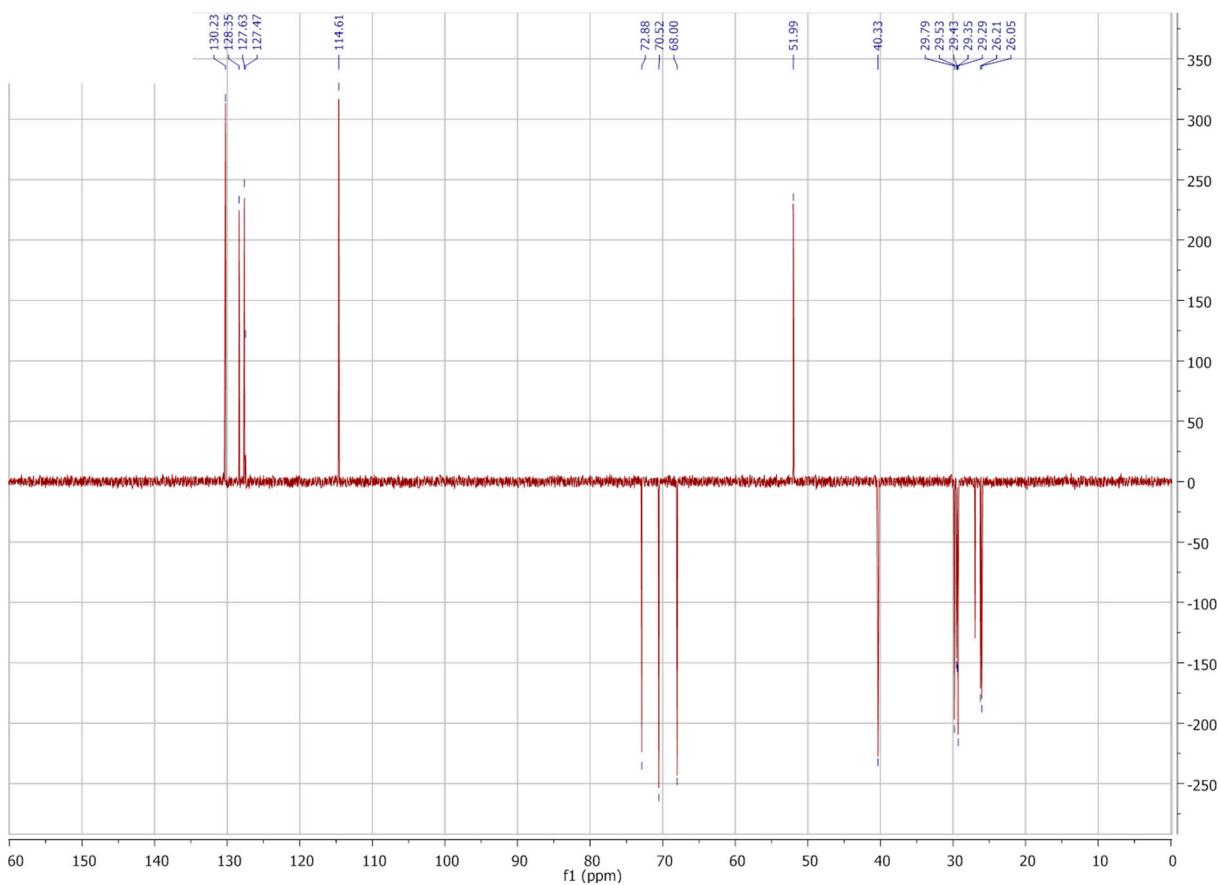
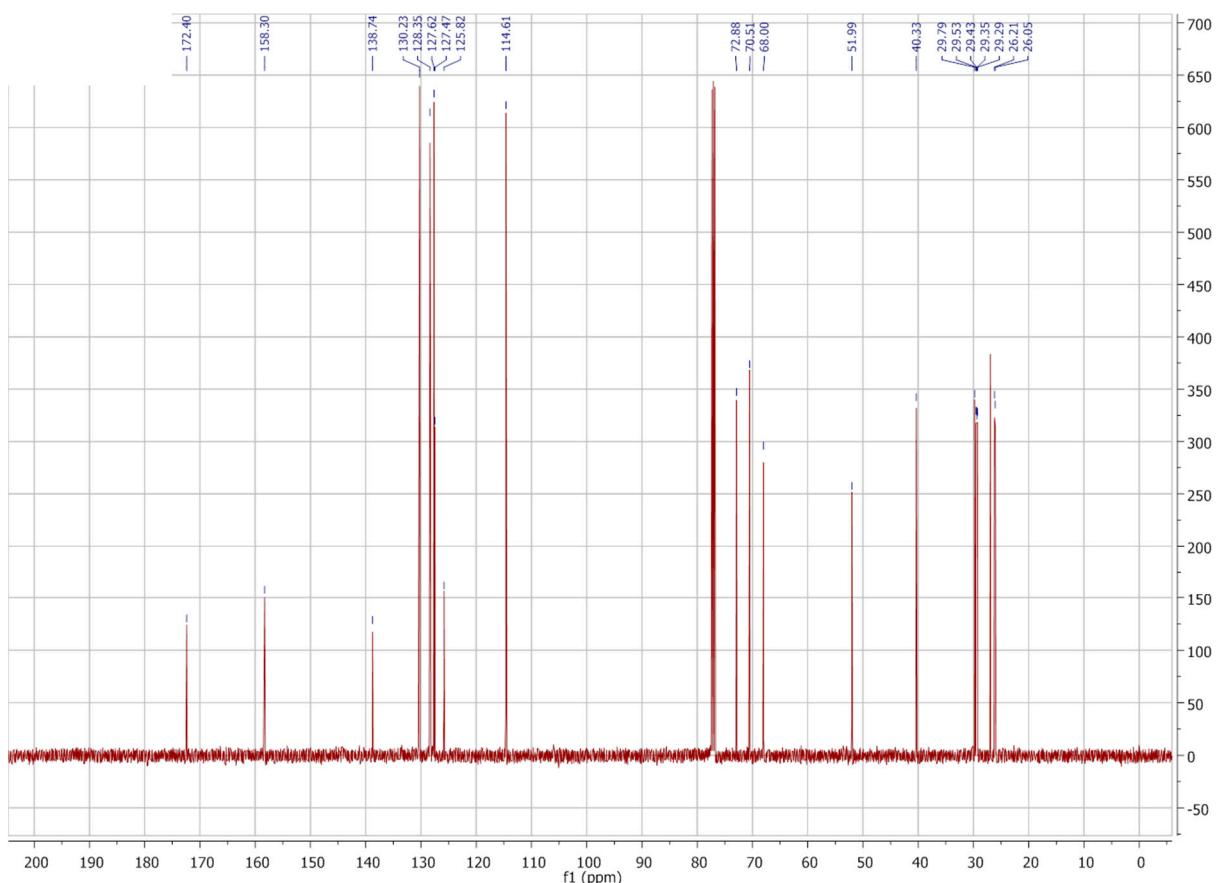


*Methyl 2-(4-[[9-(benzyloxy)nonyl]oxy]phenyl)acetate (**8h**; ZHAWOC6854)*

NMR

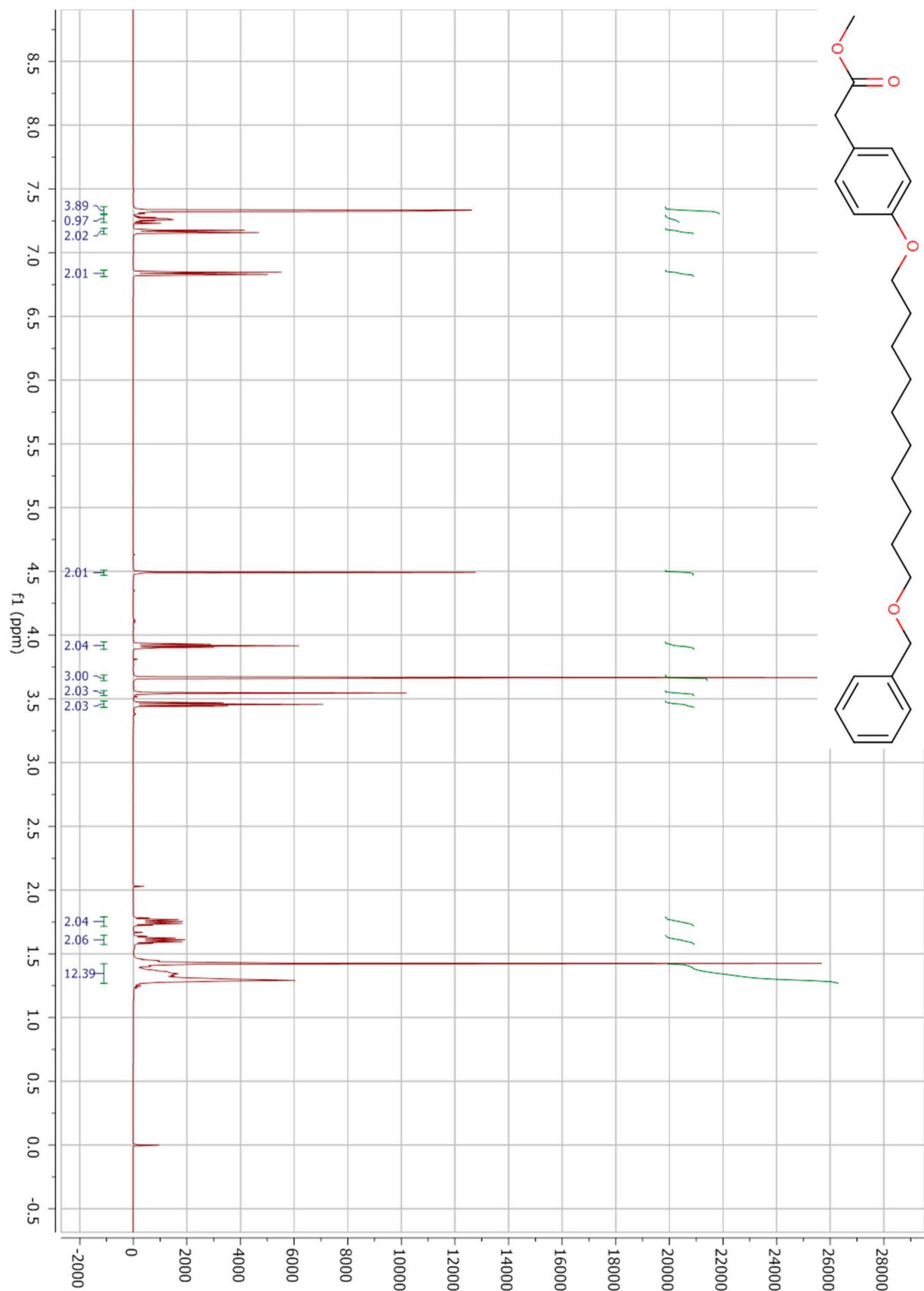


Methyl 2-(4-[[9-(benzyloxy)nonyloxy]phenyl]acetate (8h; ZHAWOC6854)

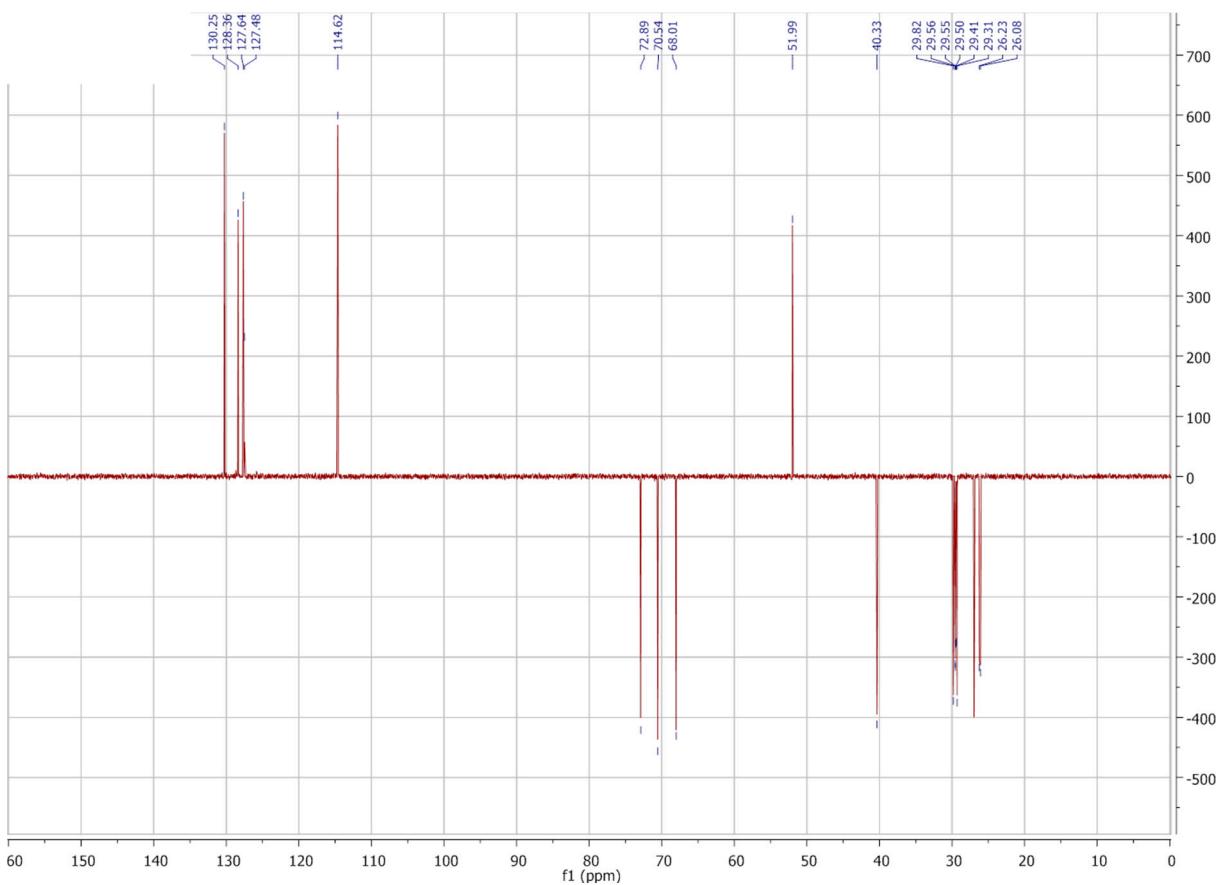
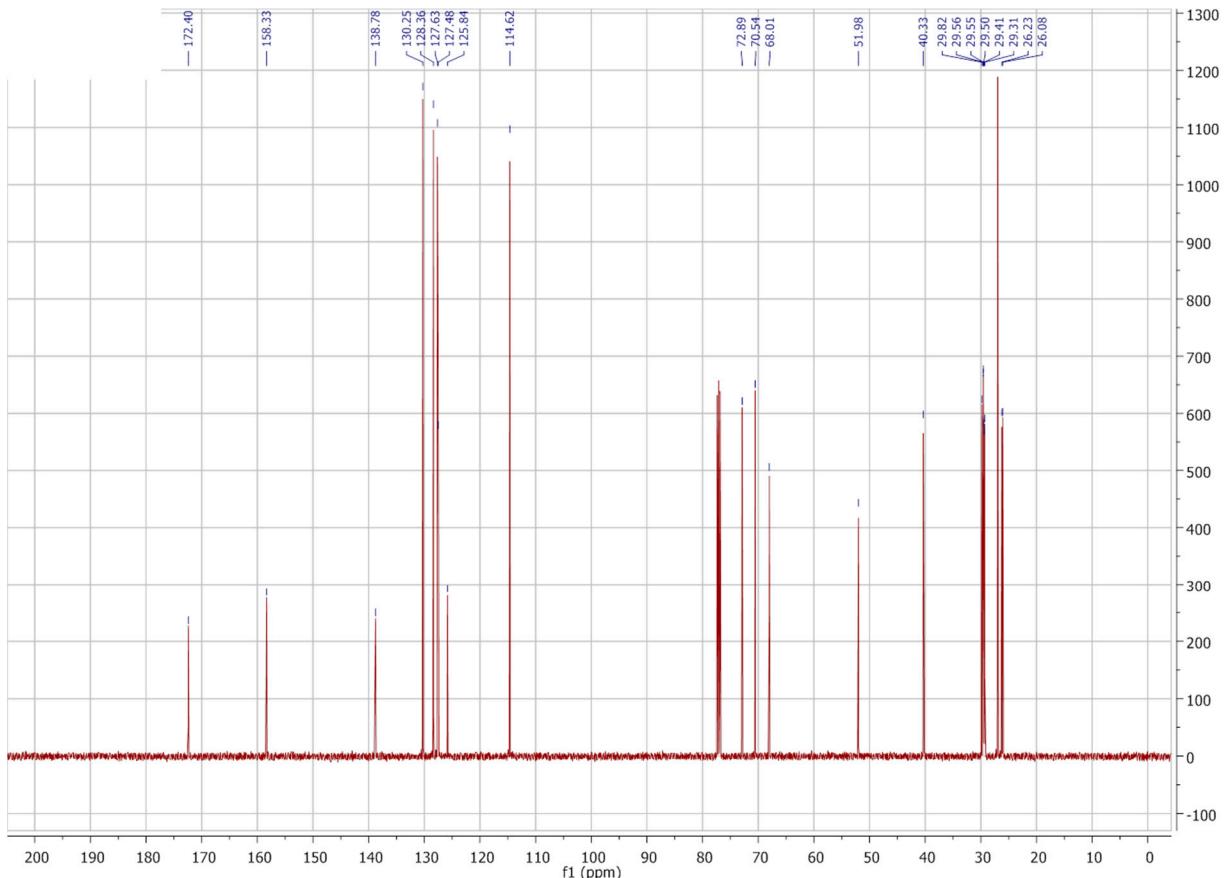


Methyl 2-(4-[[10-(benzyloxy)decyl]oxy]phenyl)acetate (8i; ZHAWOC6855)

NMR

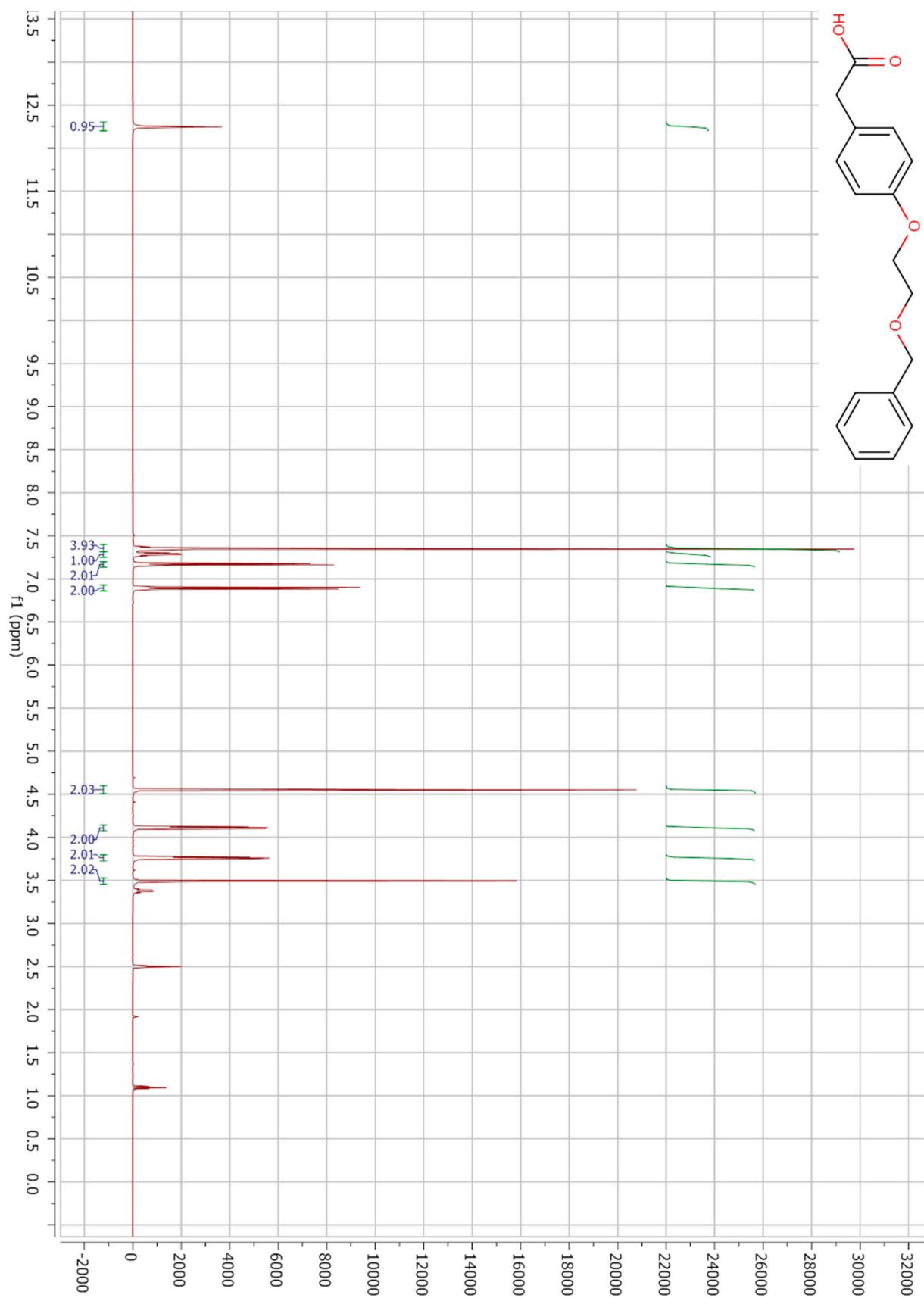


Methyl 2-(4-[[10-(benzyloxy)decyl]oxy]phenyl)acetate (8i; ZHAWOC6855)

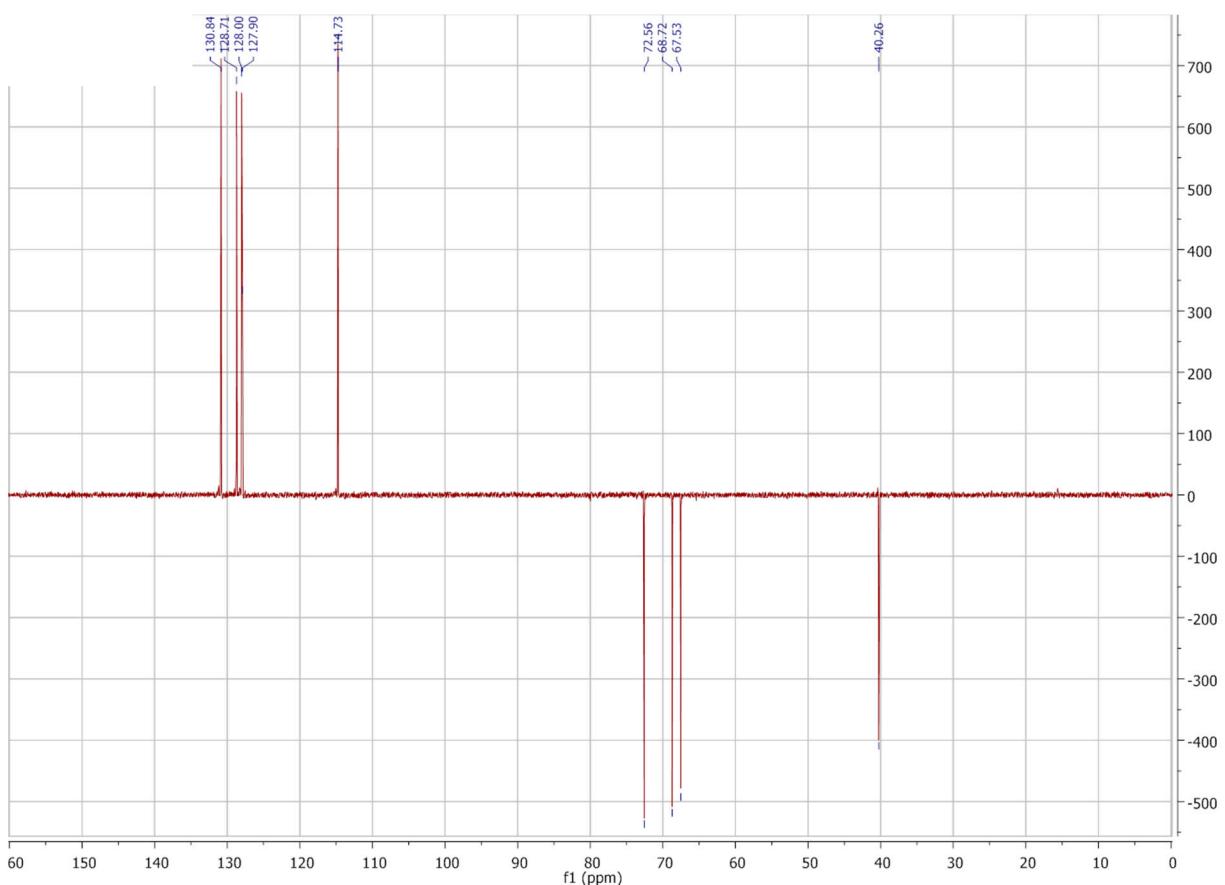
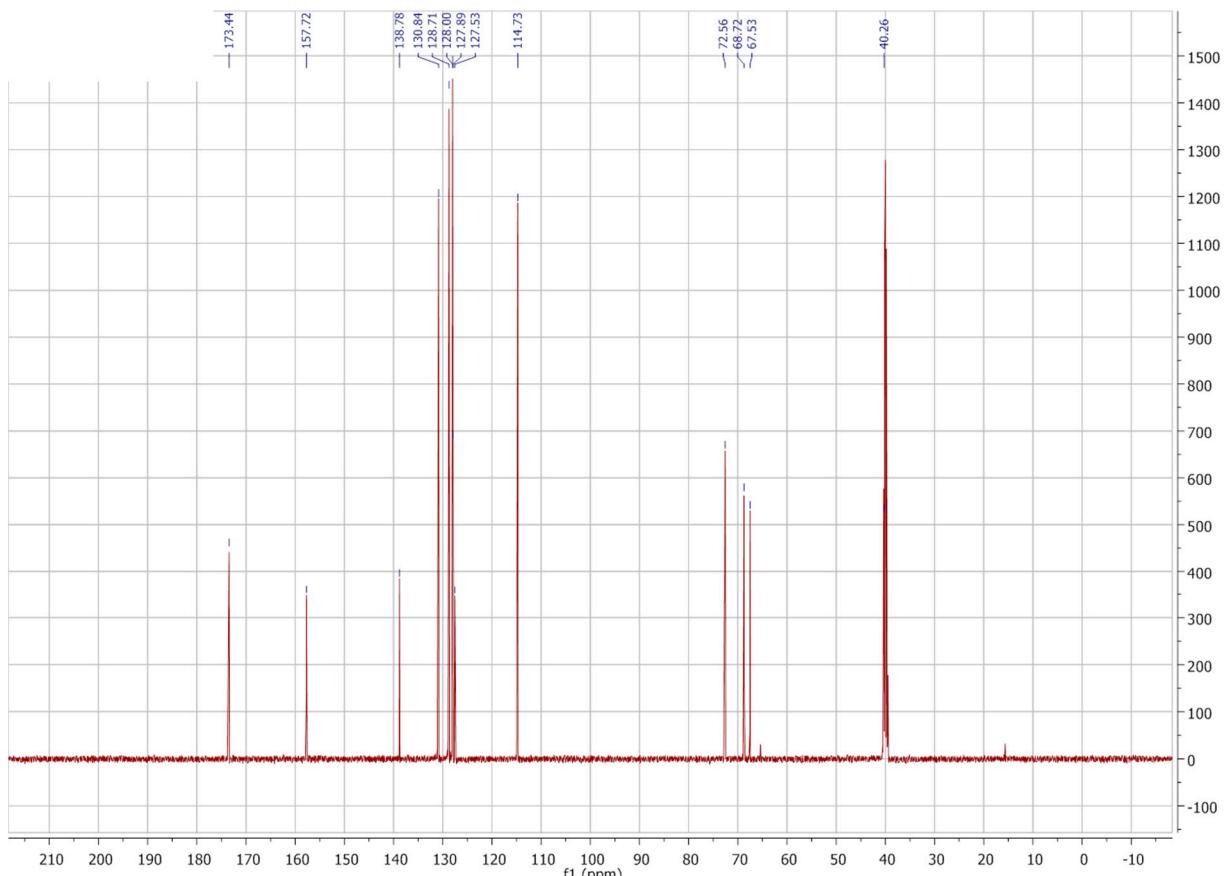


*2-{4-[2-(benzyloxy)ethoxy]phenyl}acetic acid (**9a**; ZHAWOC7101)*

NMR

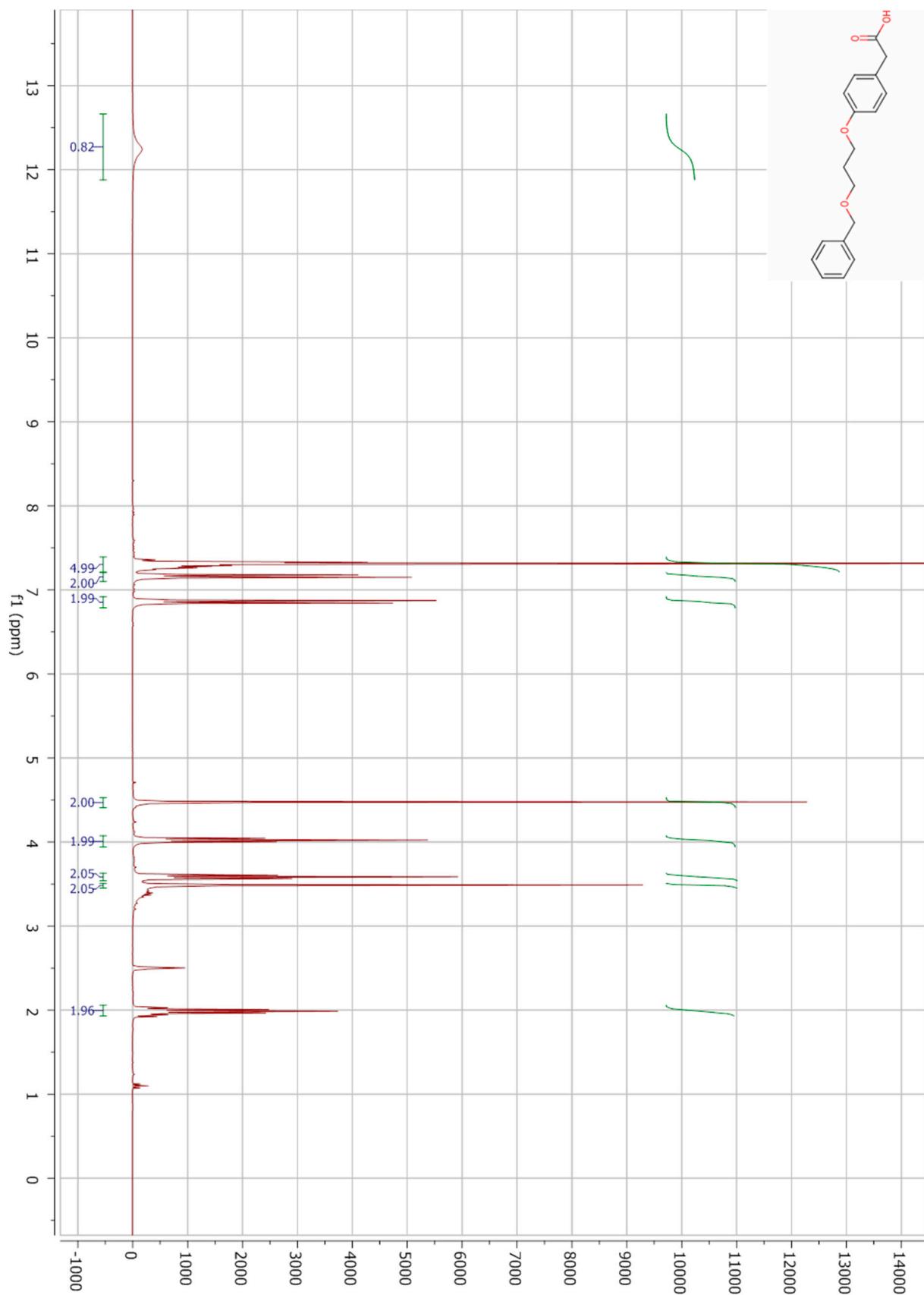


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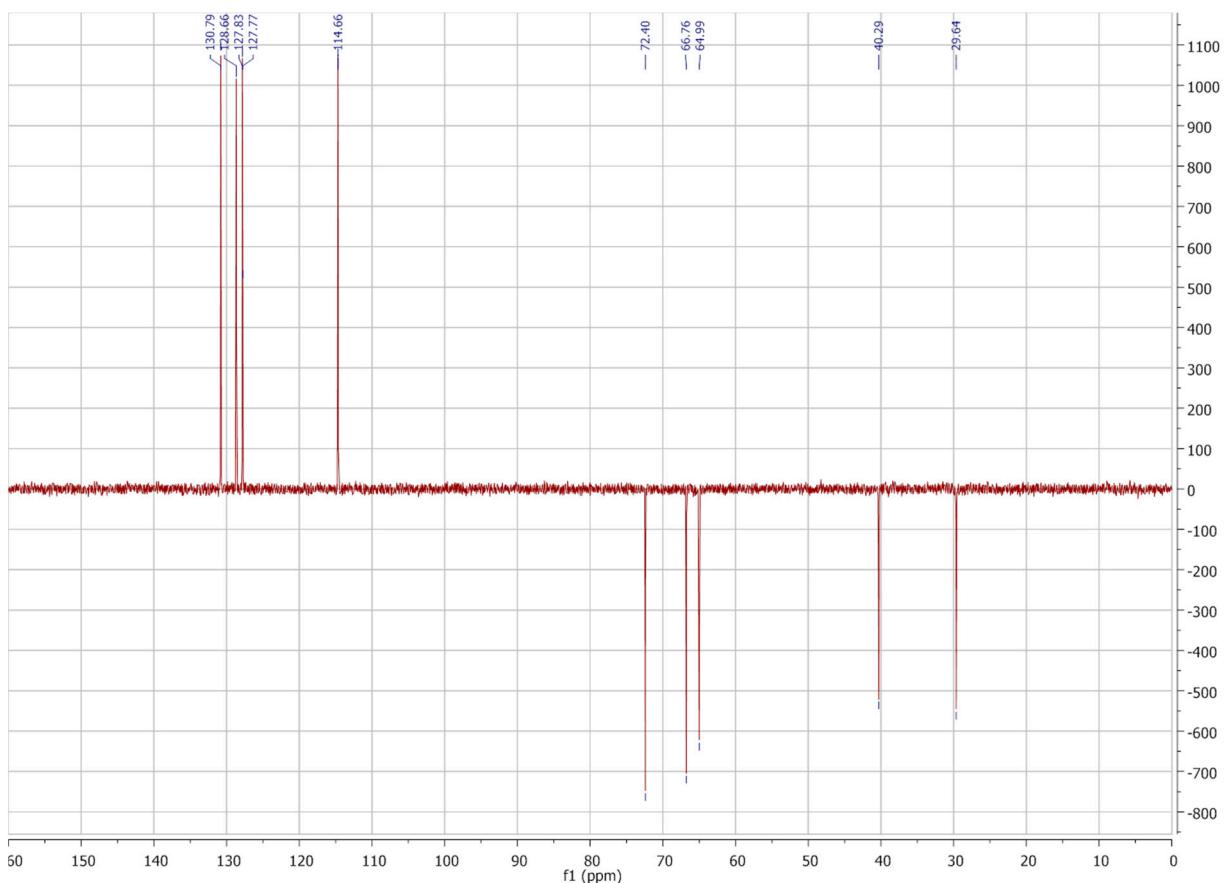
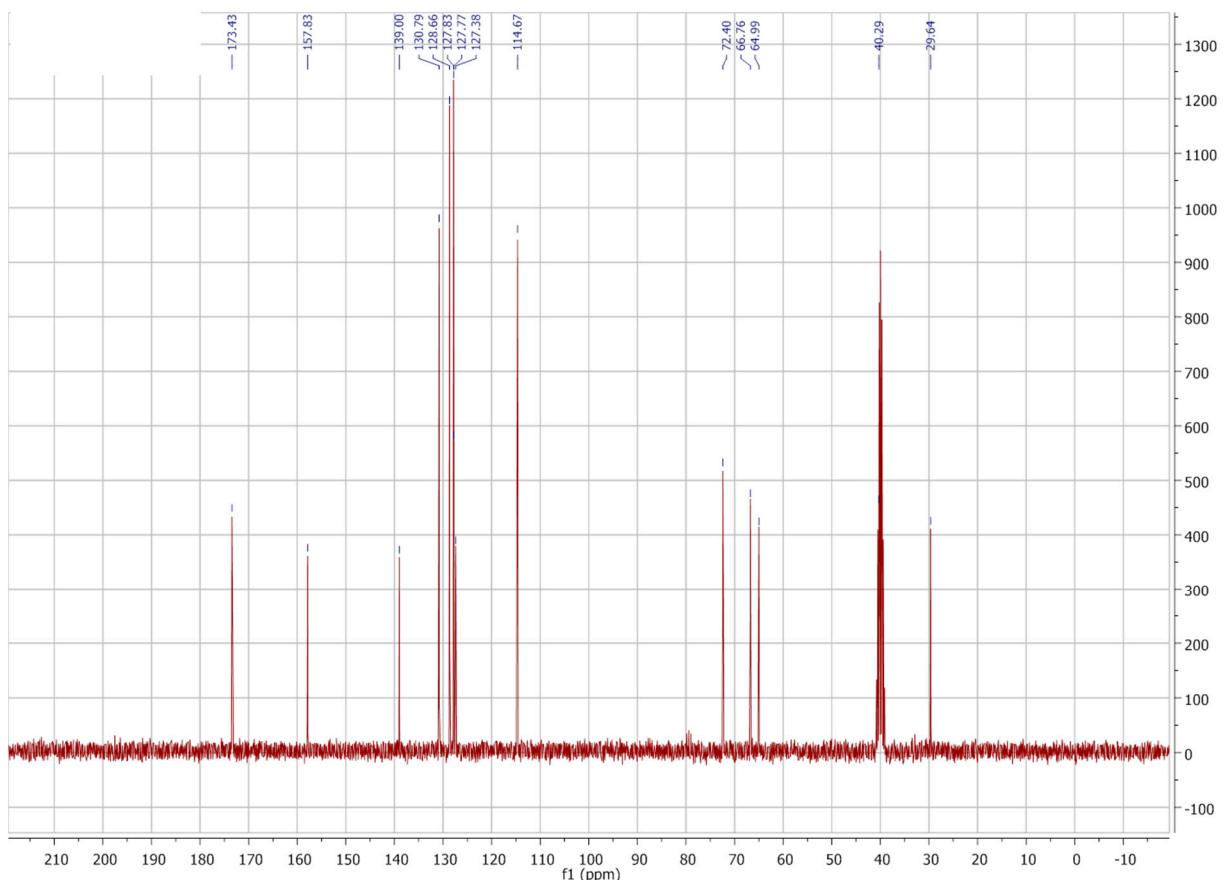


*2-{4-[3-(benzyloxy)propoxy]phenyl}acetic acid (**9b**; ZHAWOC4497)*

NMR

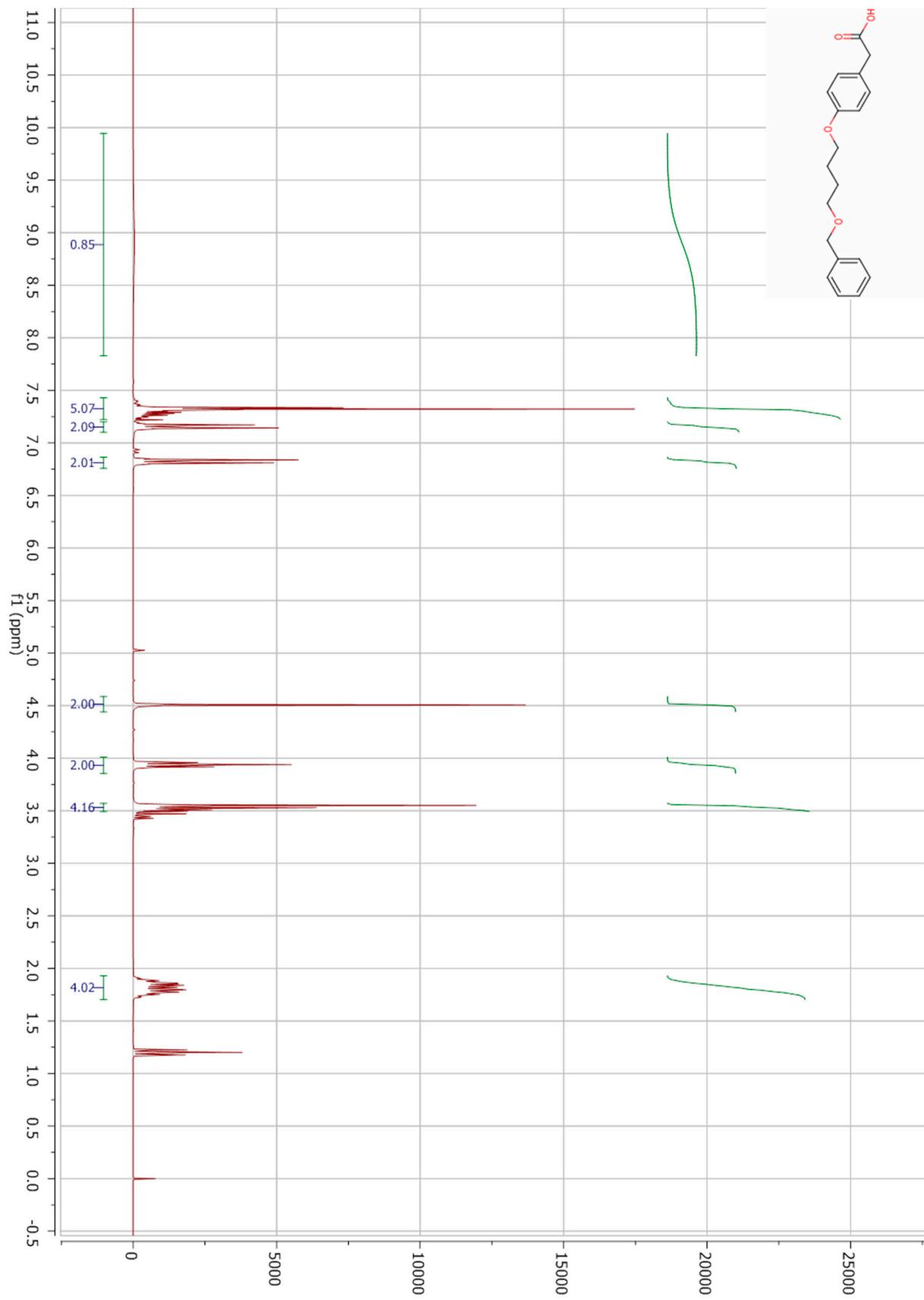


*2-{4-[3-(benzyloxy)propoxy]phenyl}acetic acid (**9b**; ZHAWOC4497)*

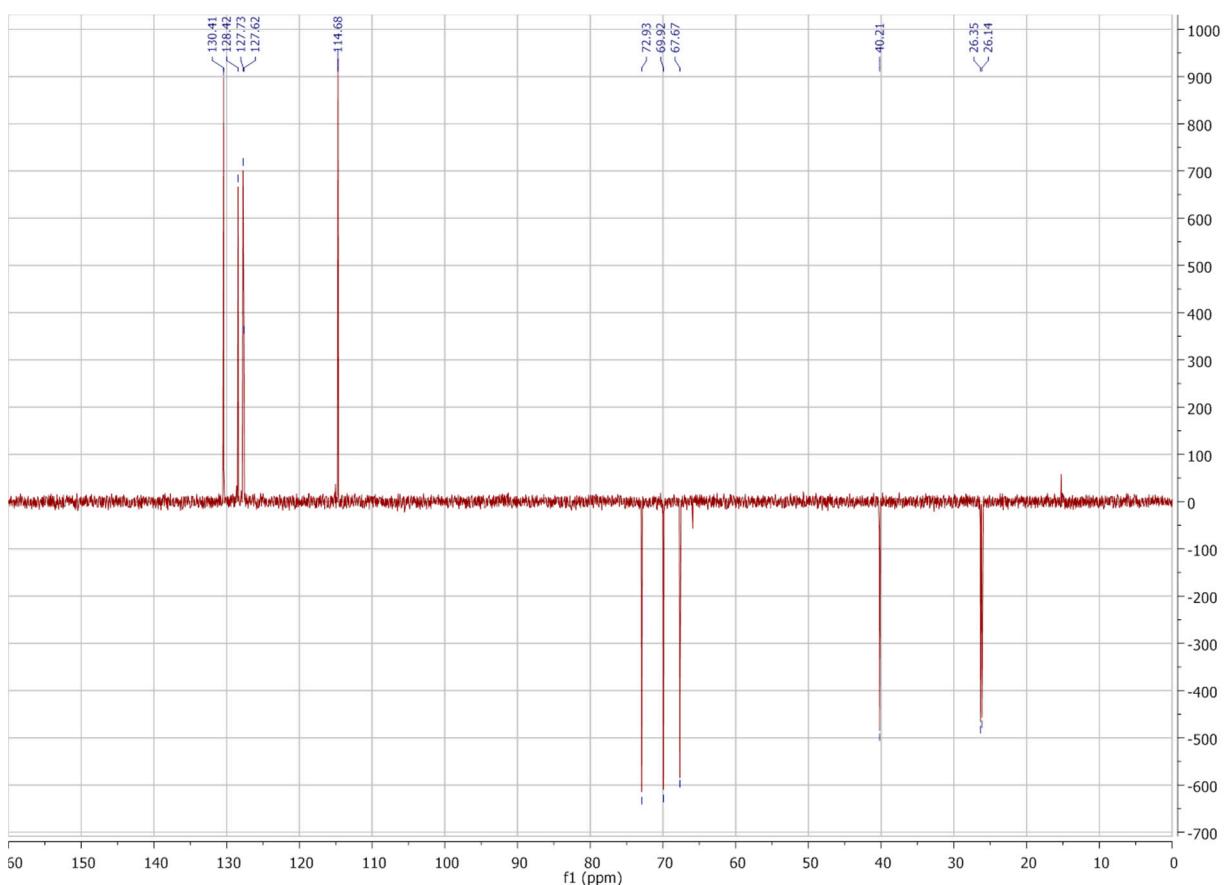
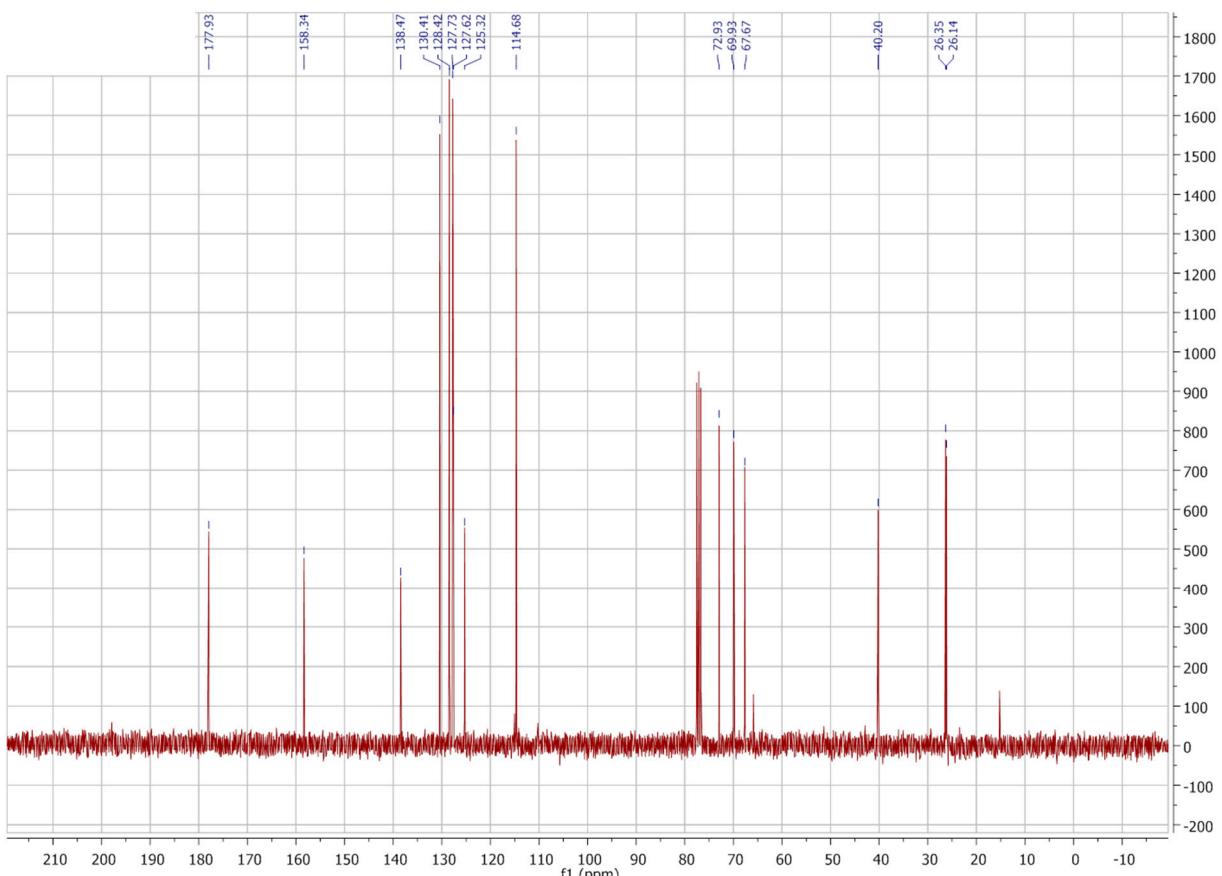


*2-{4-[4-(benzyloxy)butoxy]phenyl}acetic acid (**9c**; ZHAWOC4535)*

NMR

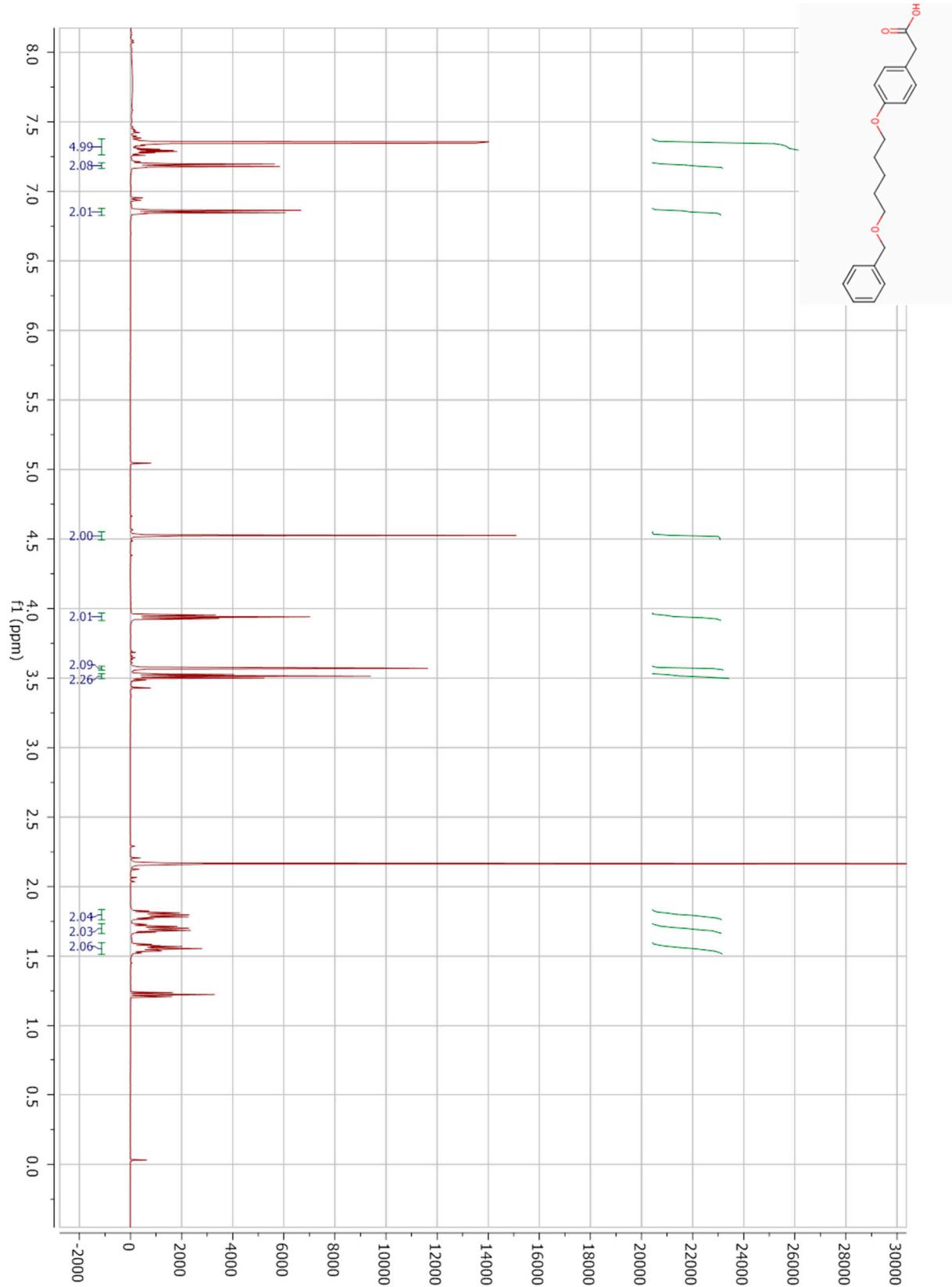


2-{4-[4-(benzyloxy)butoxy]phenyl}acetic acid (9c**; ZHAWOC4535)**

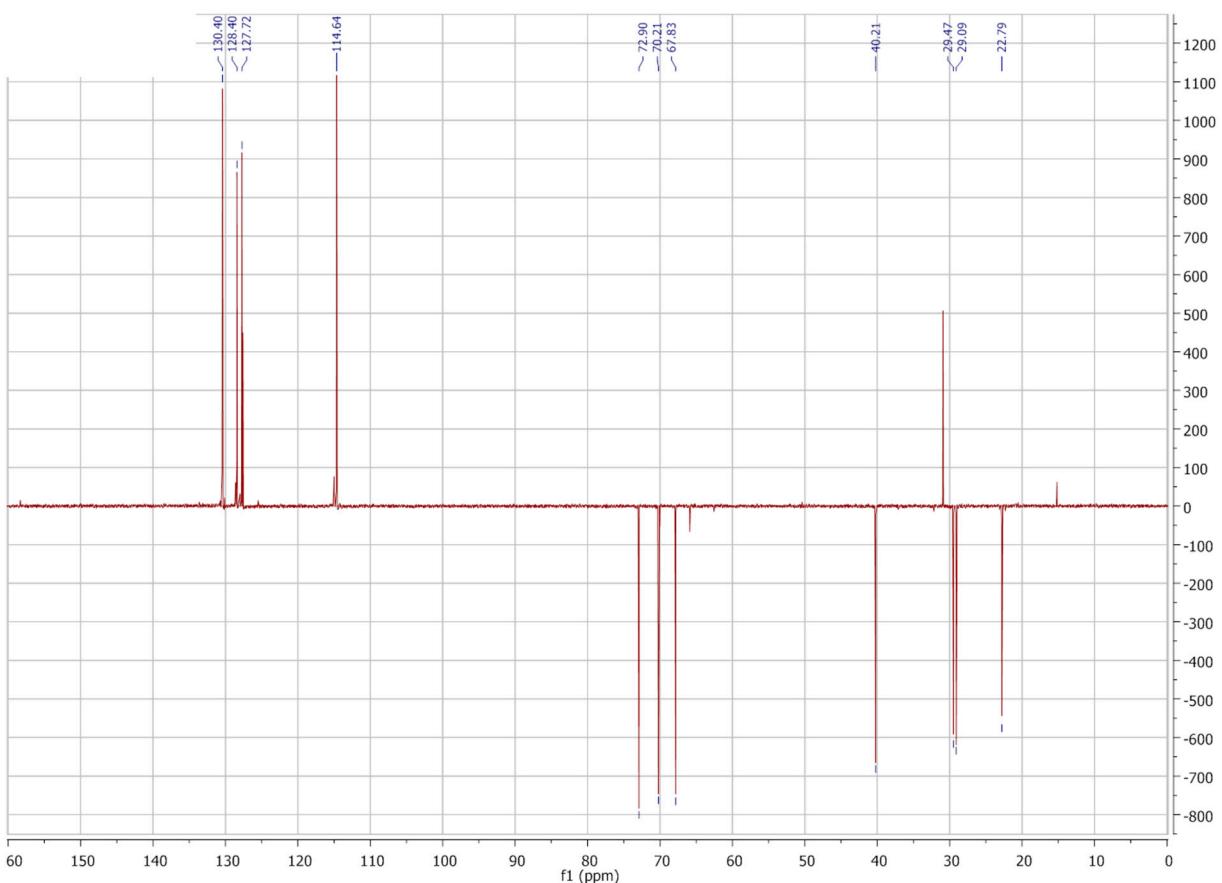
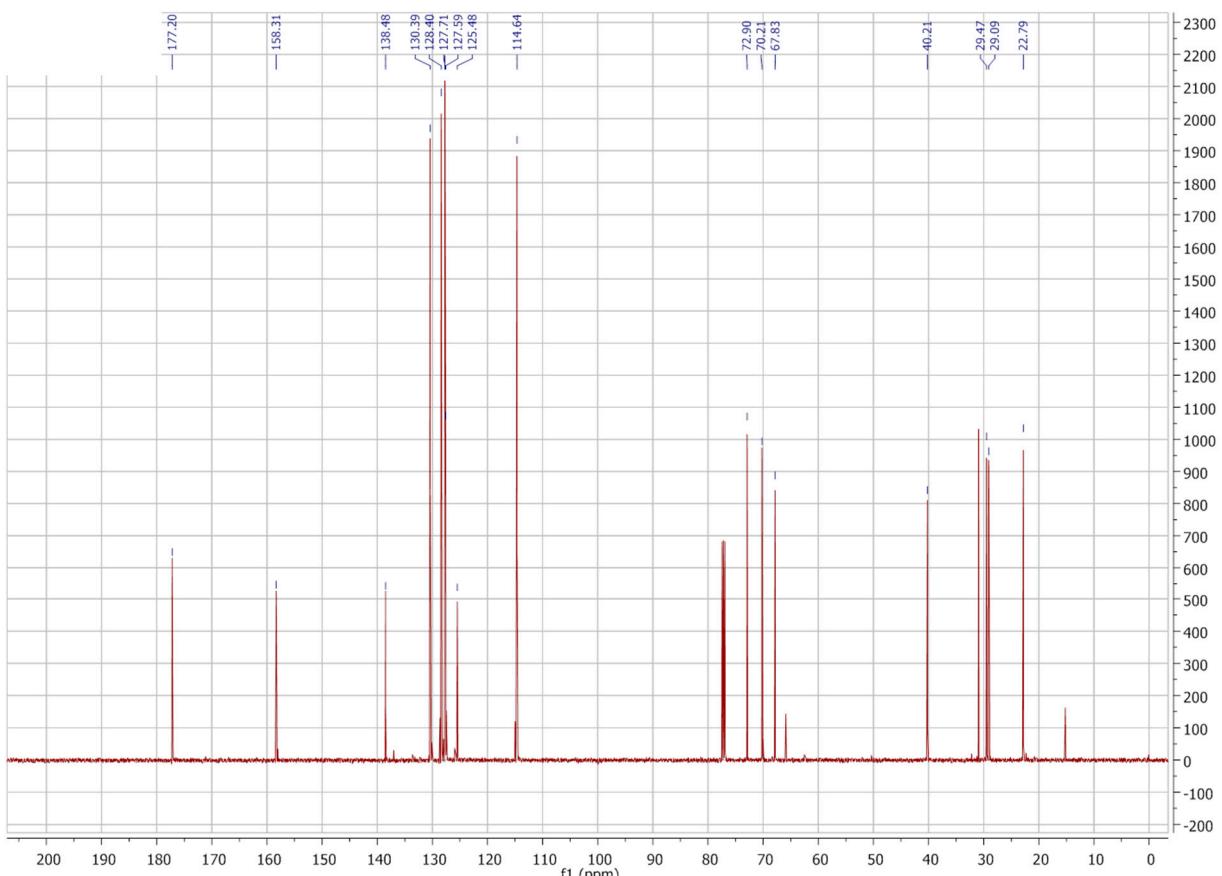


*2-(4-{[5-(benzyloxy)pentyl]oxy}phenyl)acetic acid (**9d**; ZHAWOC5922)*

NMR

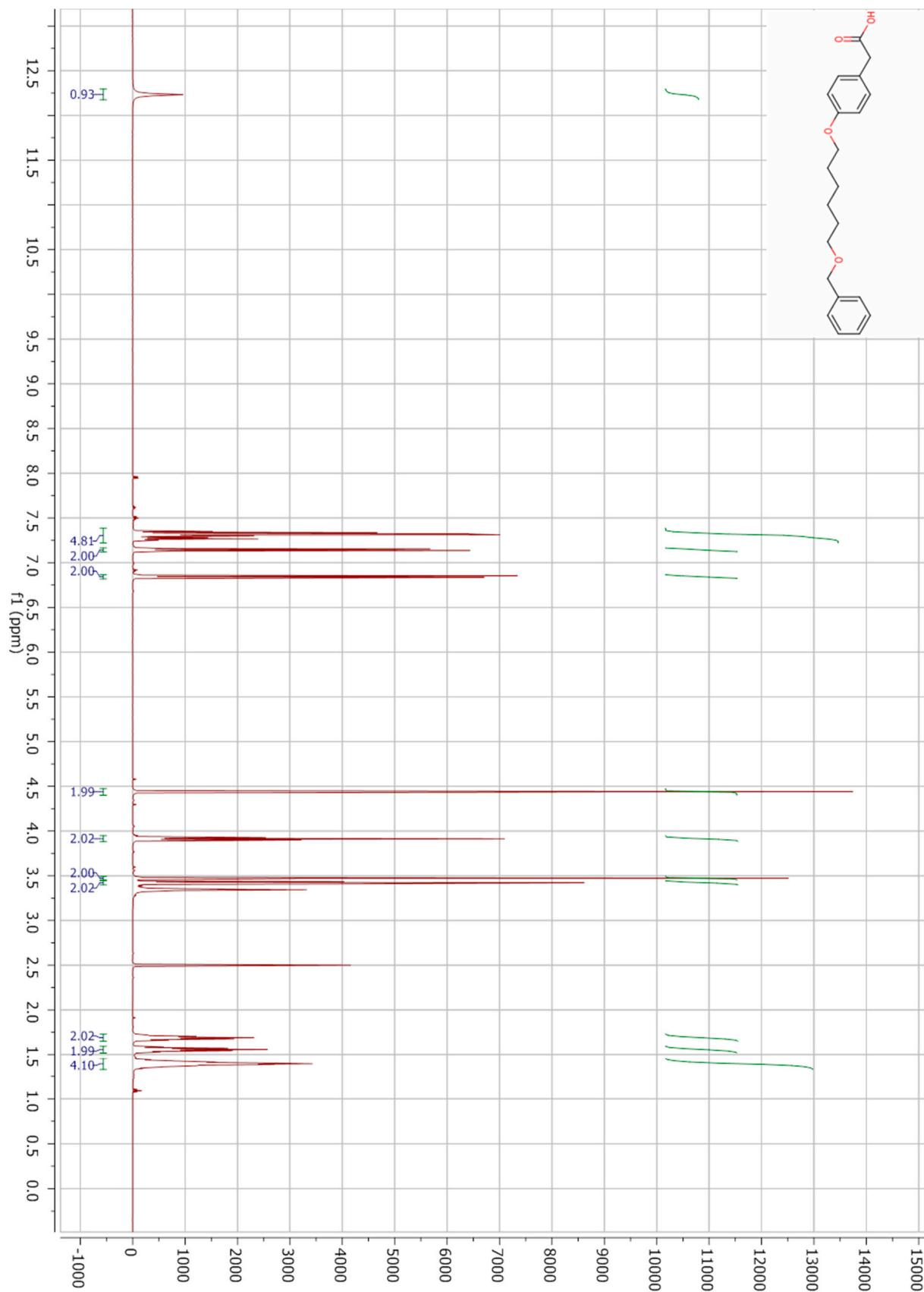


*2-(4-{[5-(benzyloxy)pentyl]oxy}phenyl)acetic acid (**9d**; ZHAWOC5922)*

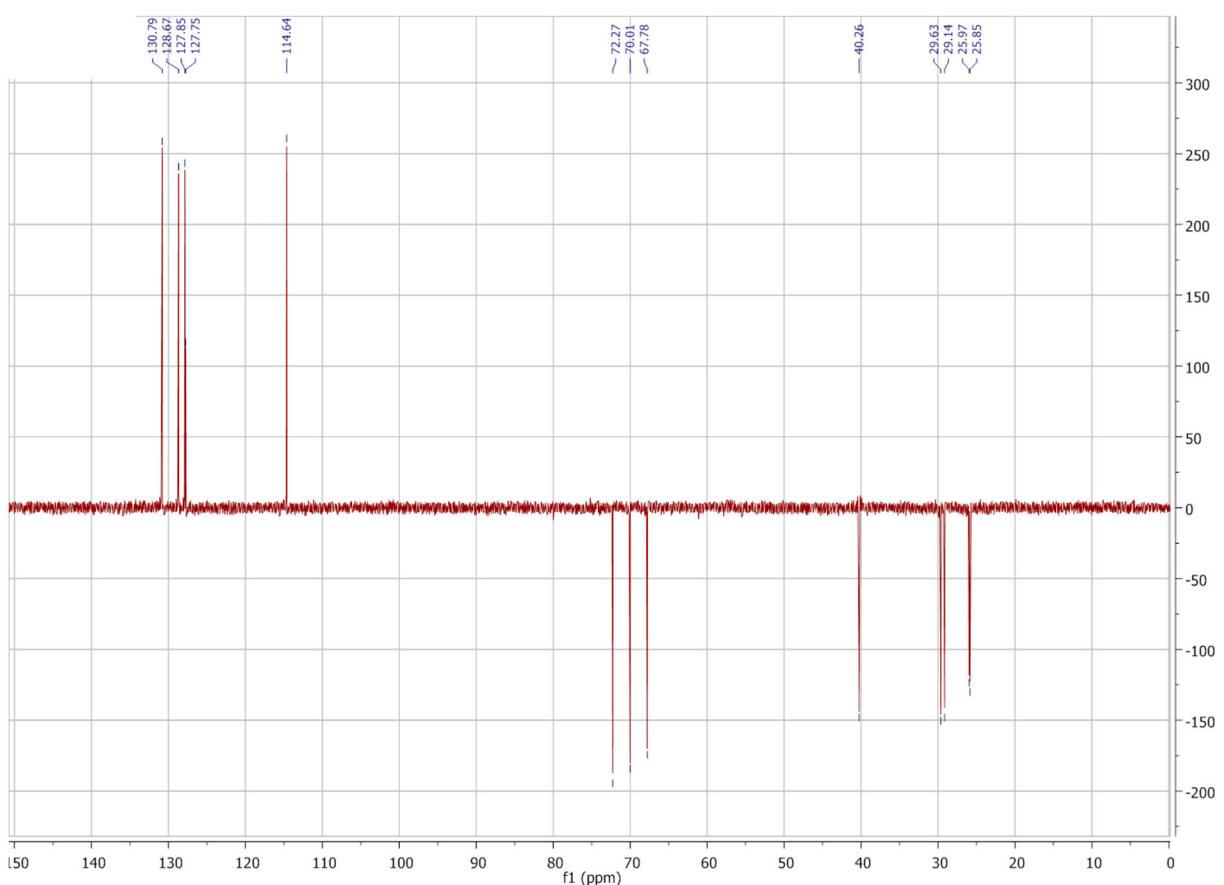
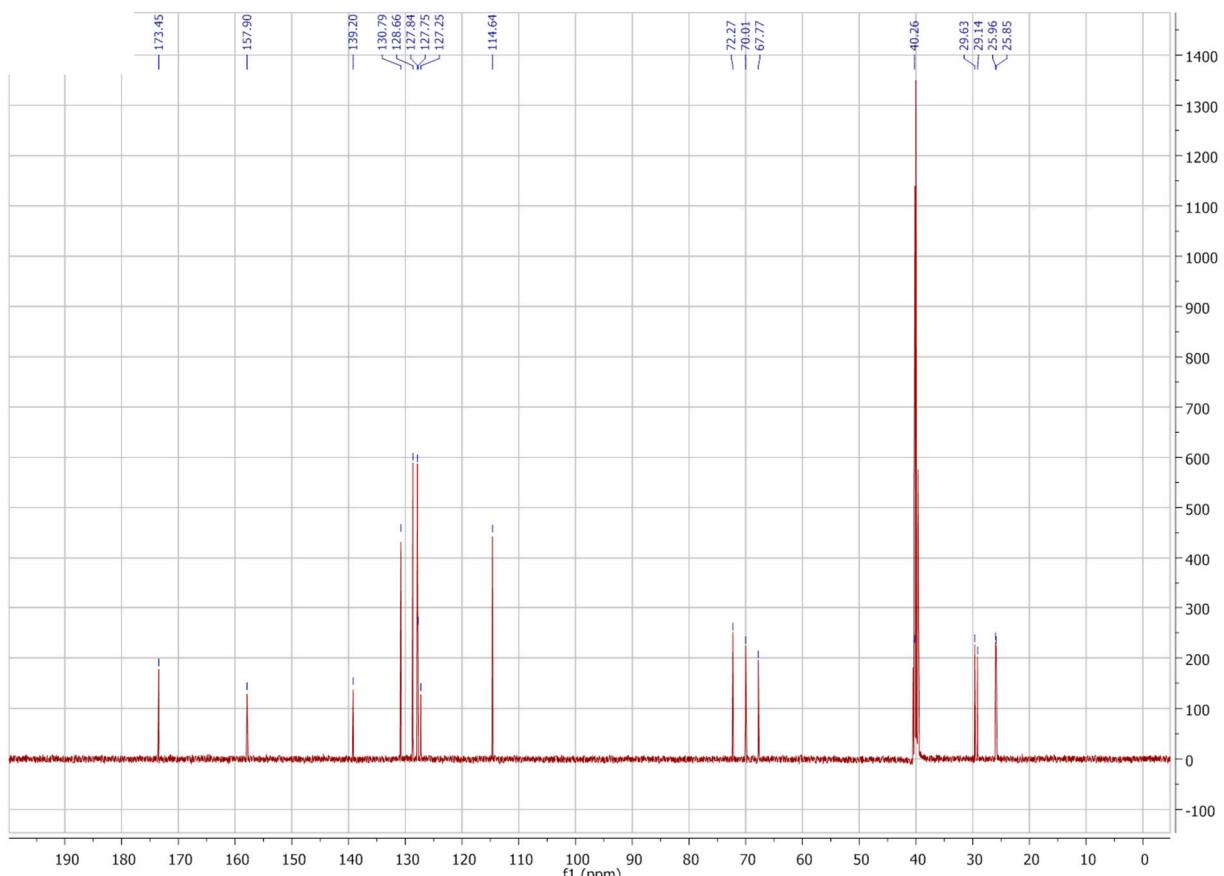


2-(4-{{[6-(benzyloxy)hexyl]oxy}phenyl)acetic acid (9e; ZHAWOC5947)

NMR

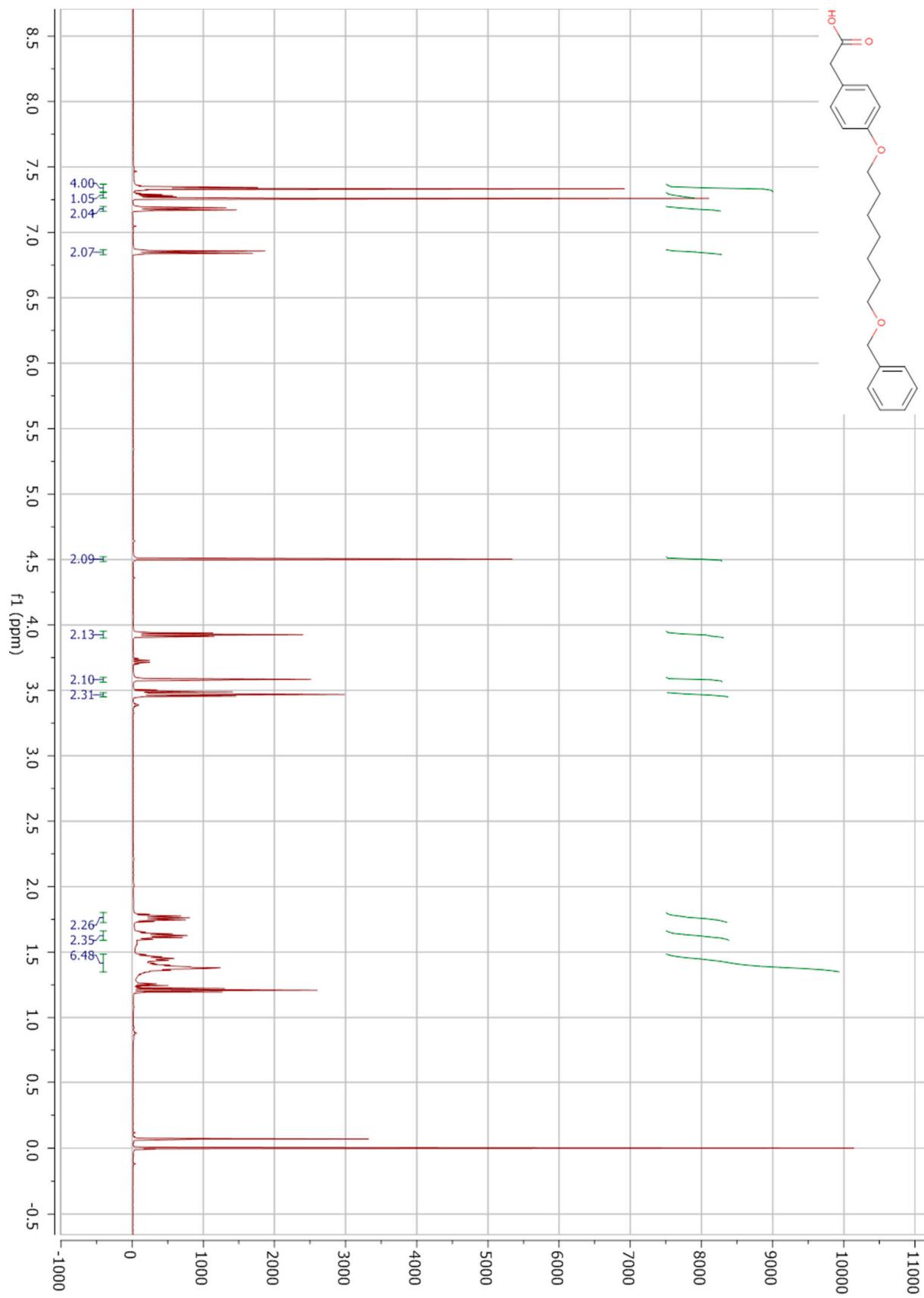


*2-(4-{[6-(benzyloxy)hexyl]oxy}phenyl)acetic acid (**9e**; ZHAWOC5947)*

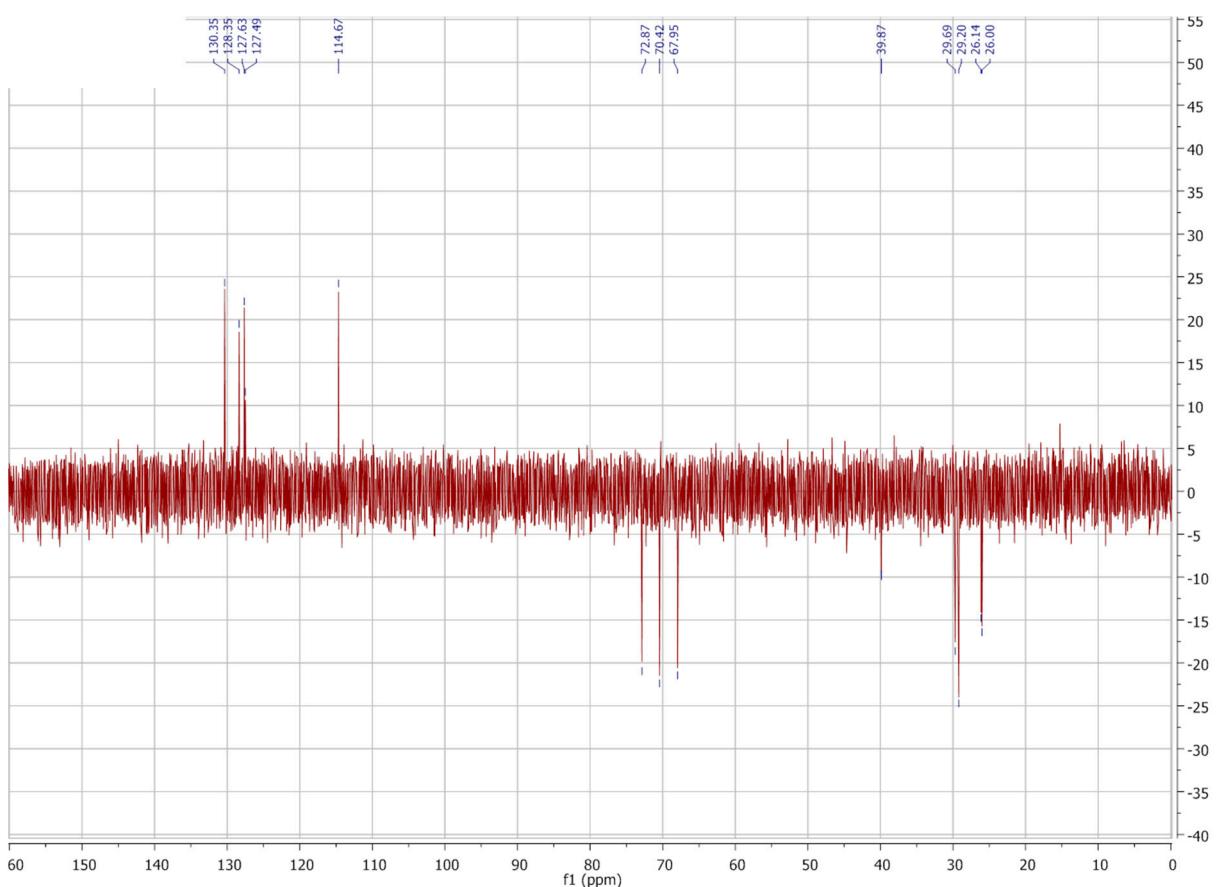
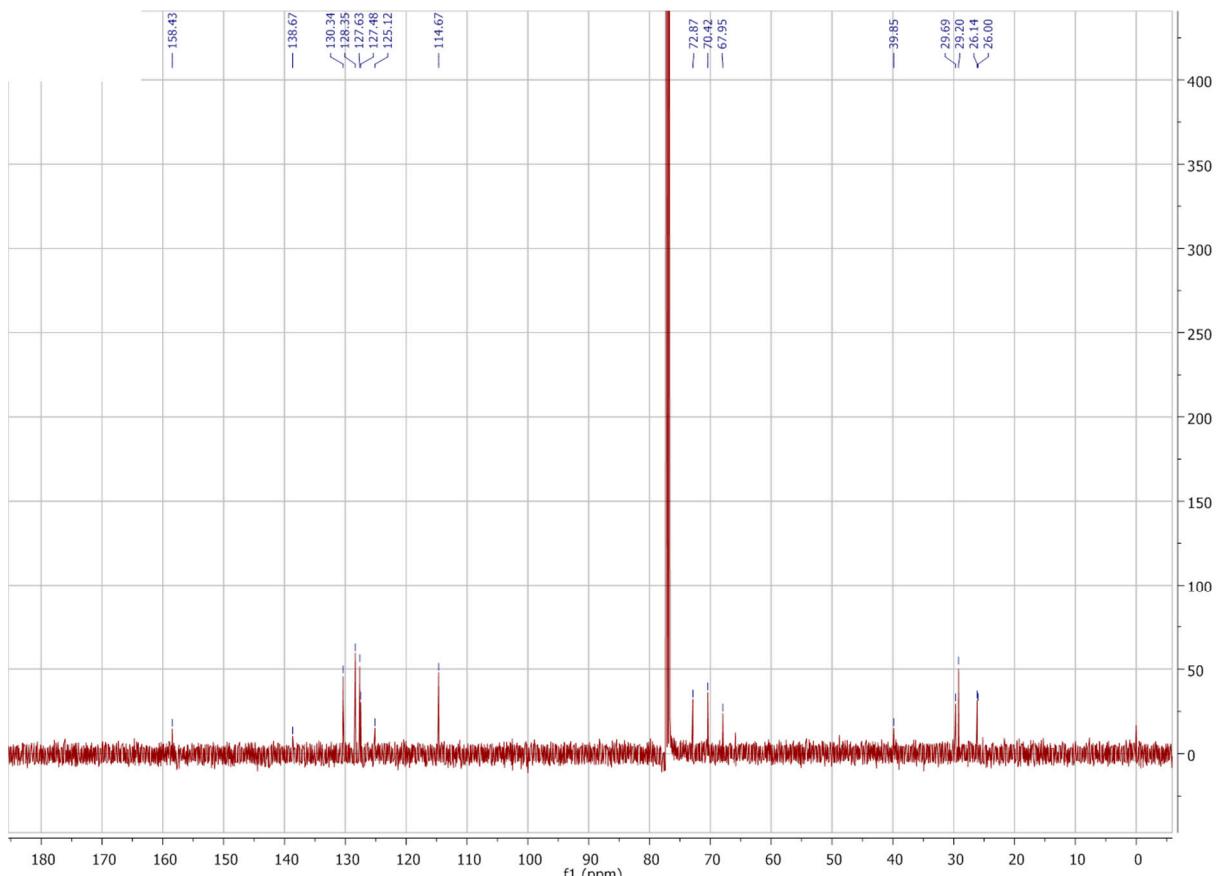


*2-(4-{[7-(benzyloxy)heptyl]oxy}phenyl)acetic acid (**9f**; ZHAWOC7098)*

NMR

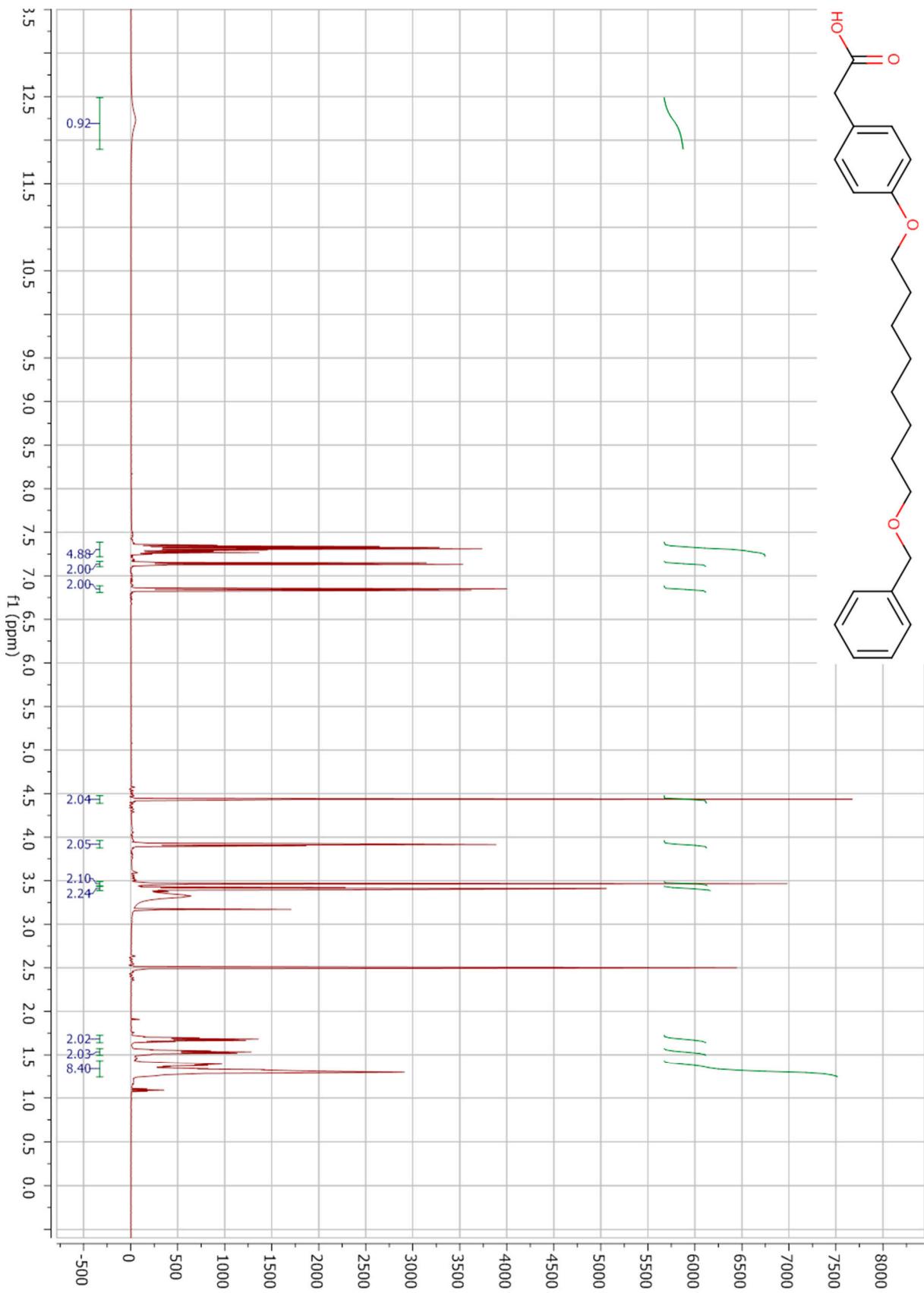


2-(4-{[7-(benzyloxy)heptyl]oxy}phenyl)acetic acid (9f**; ZHAWOC7098)**

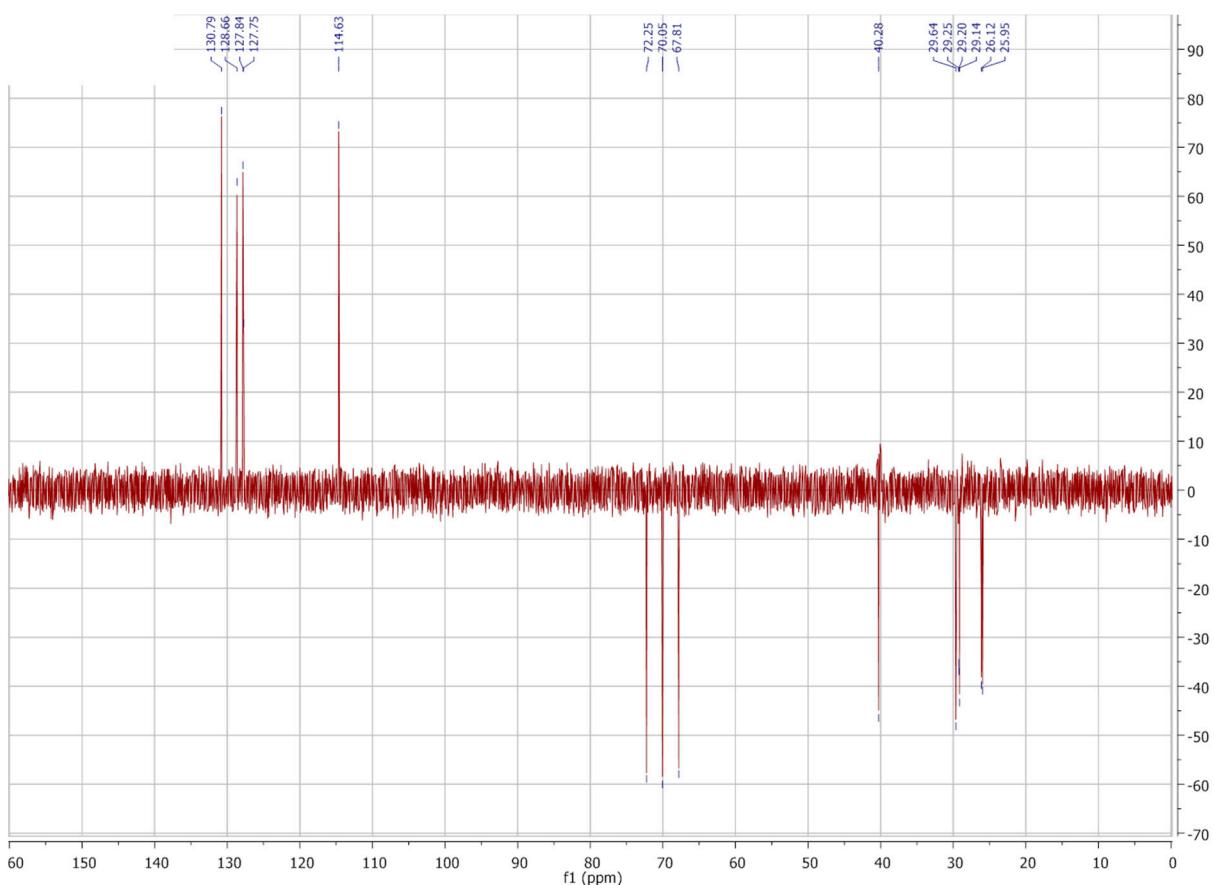
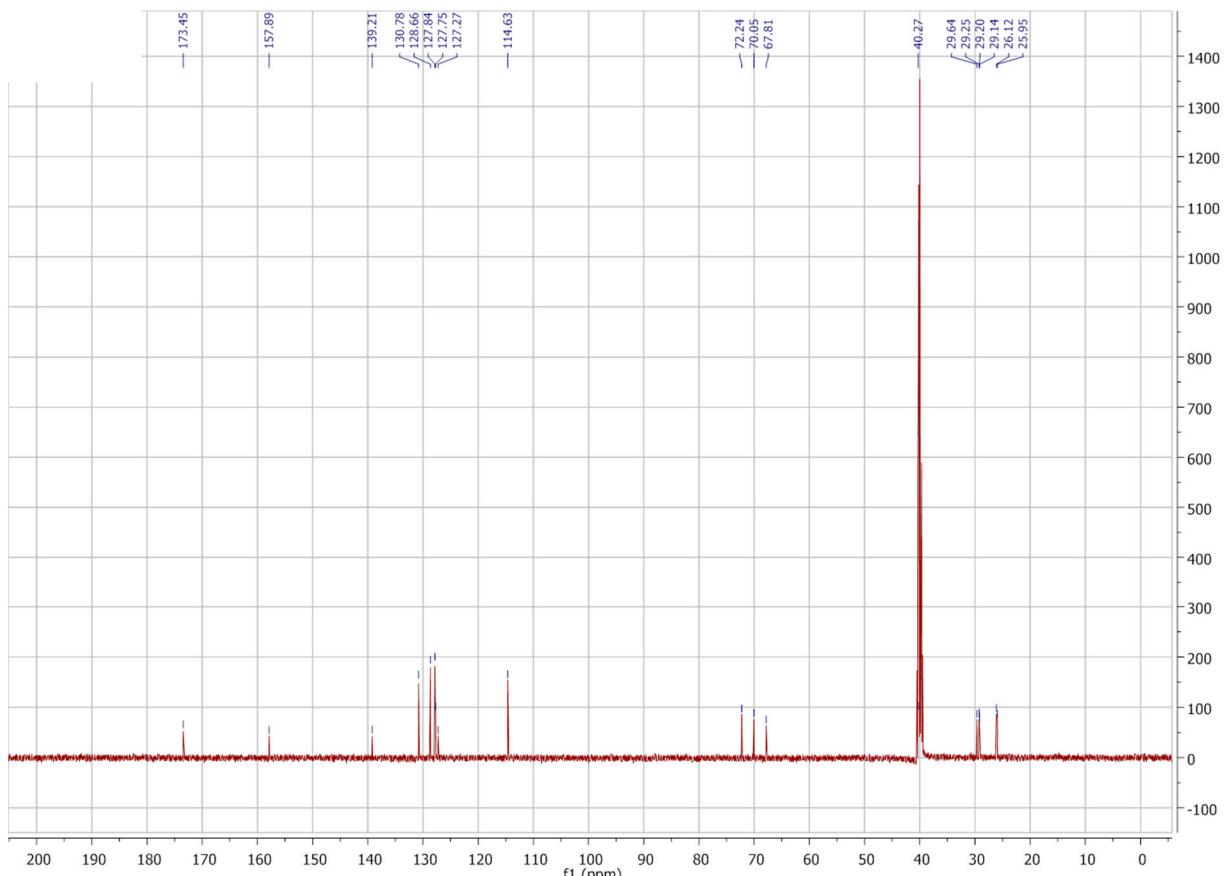


2-(4-{{[8-(benzyloxy)octyl]oxy}phenyl}acetic acid (9g**; ZHAWOC6858)**

NMR

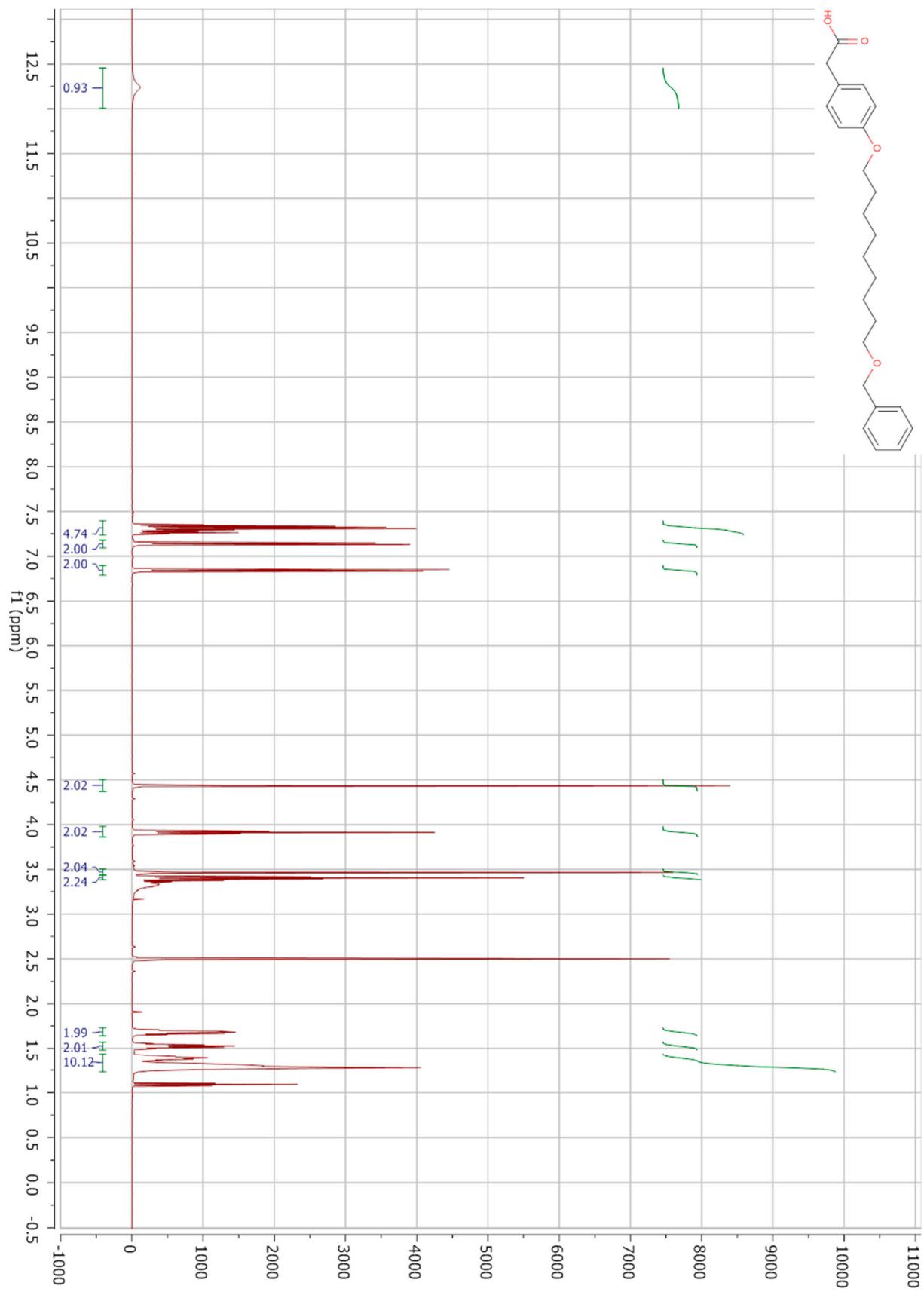


2-(4-{[8-(benzyloxy)octyl]oxy}phenyl)acetic acid (9g**; ZHAWOC6858)**

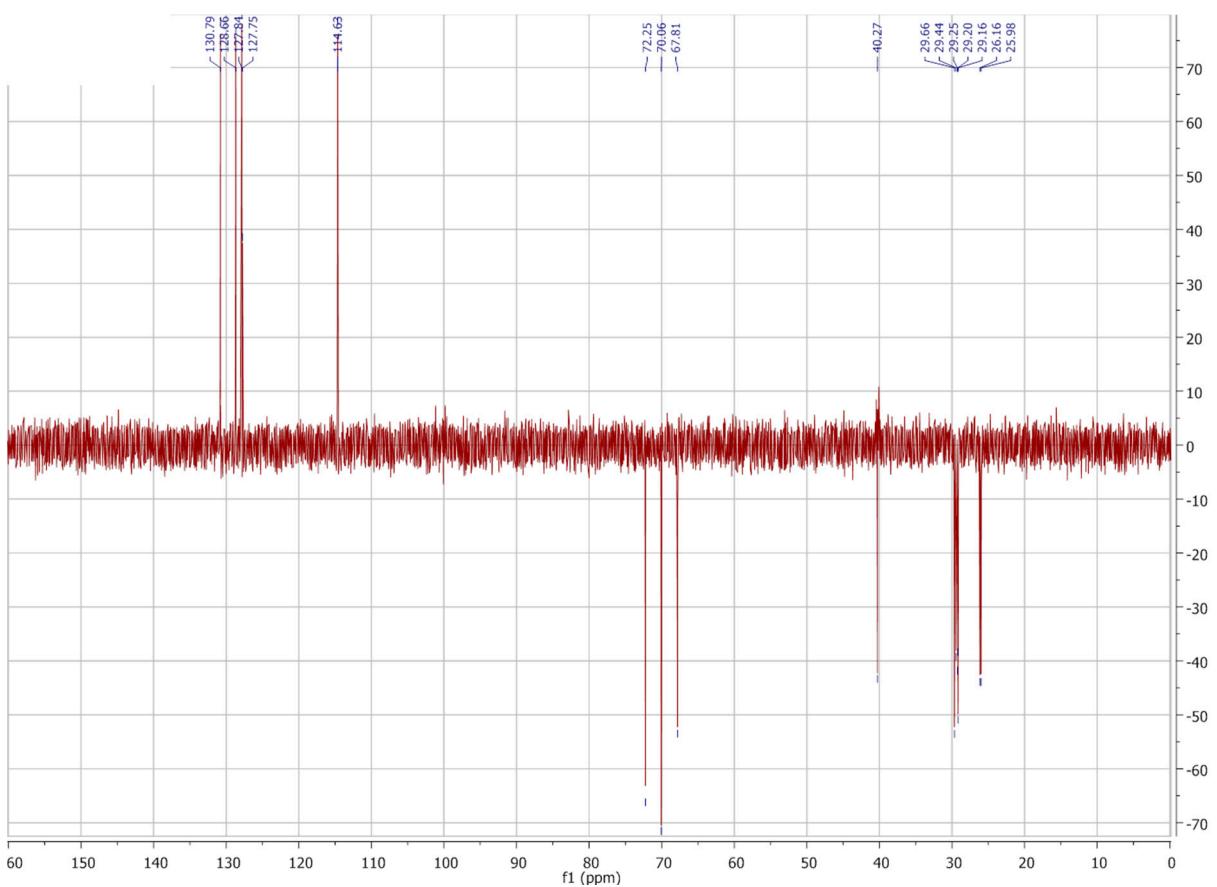
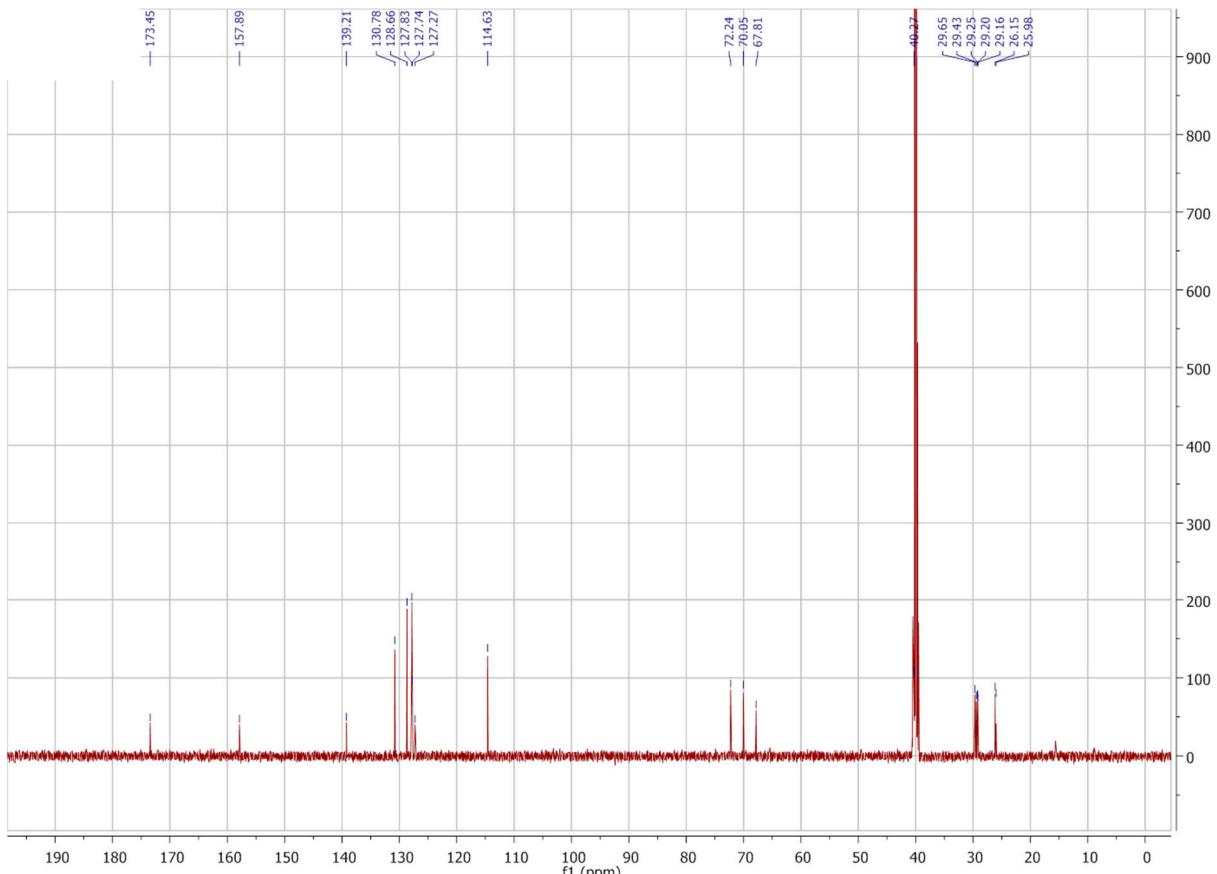


*2-(4-{[9-(benzyloxy)nonyl]oxy}phenyl)acetic acid (**9h**; ZHAWOC6861)*

NMR

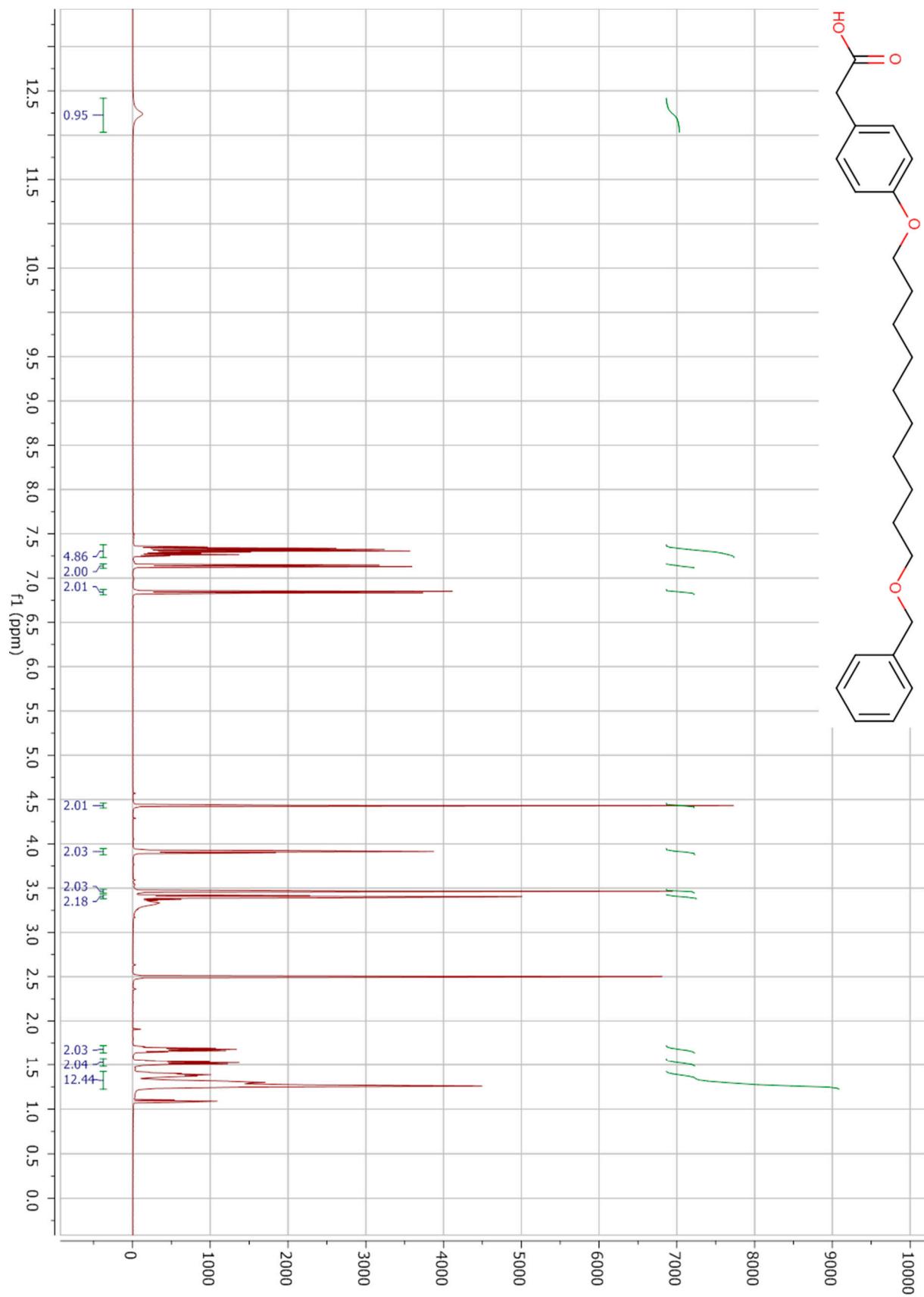


2-(4-{[9-(benzyloxy)nonyl]oxy}phenyl)acetic acid (9h**; ZHAWOC6861)**

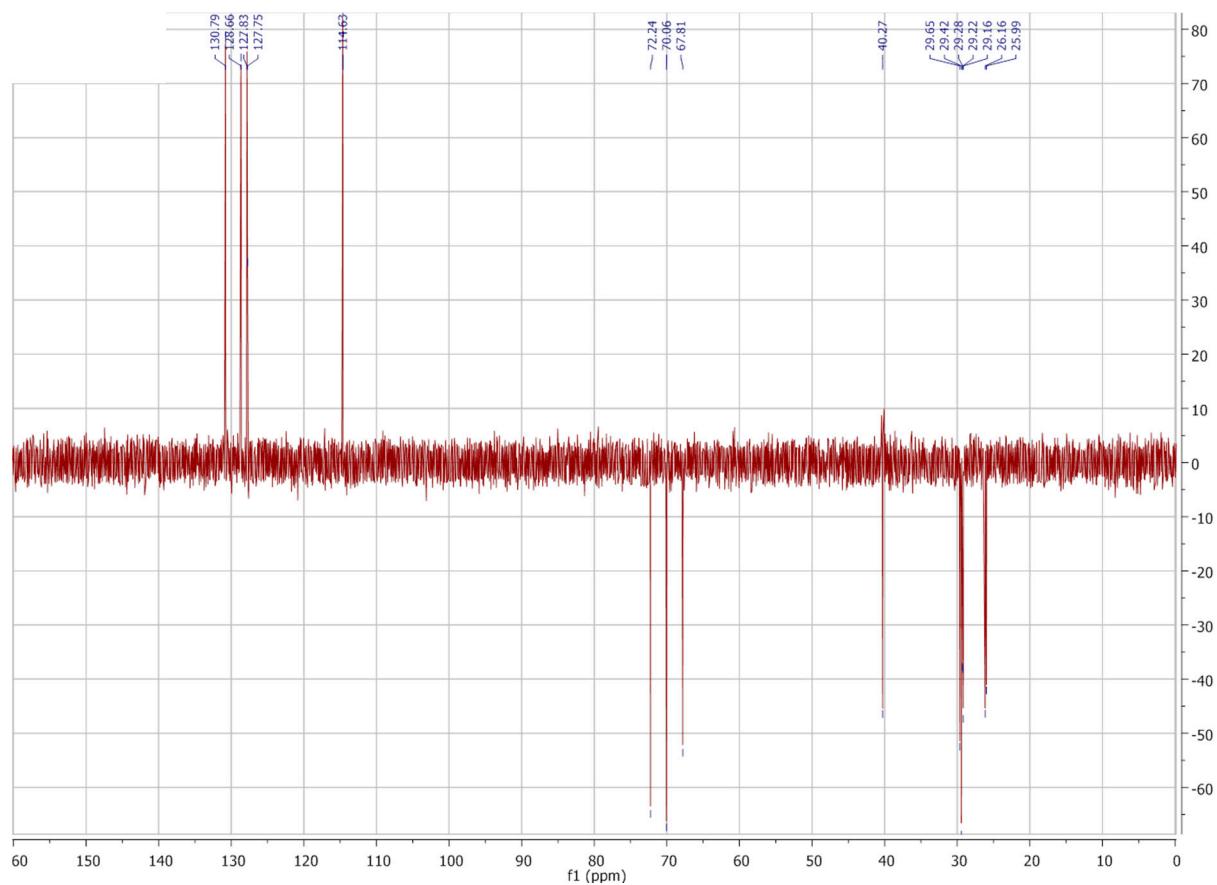
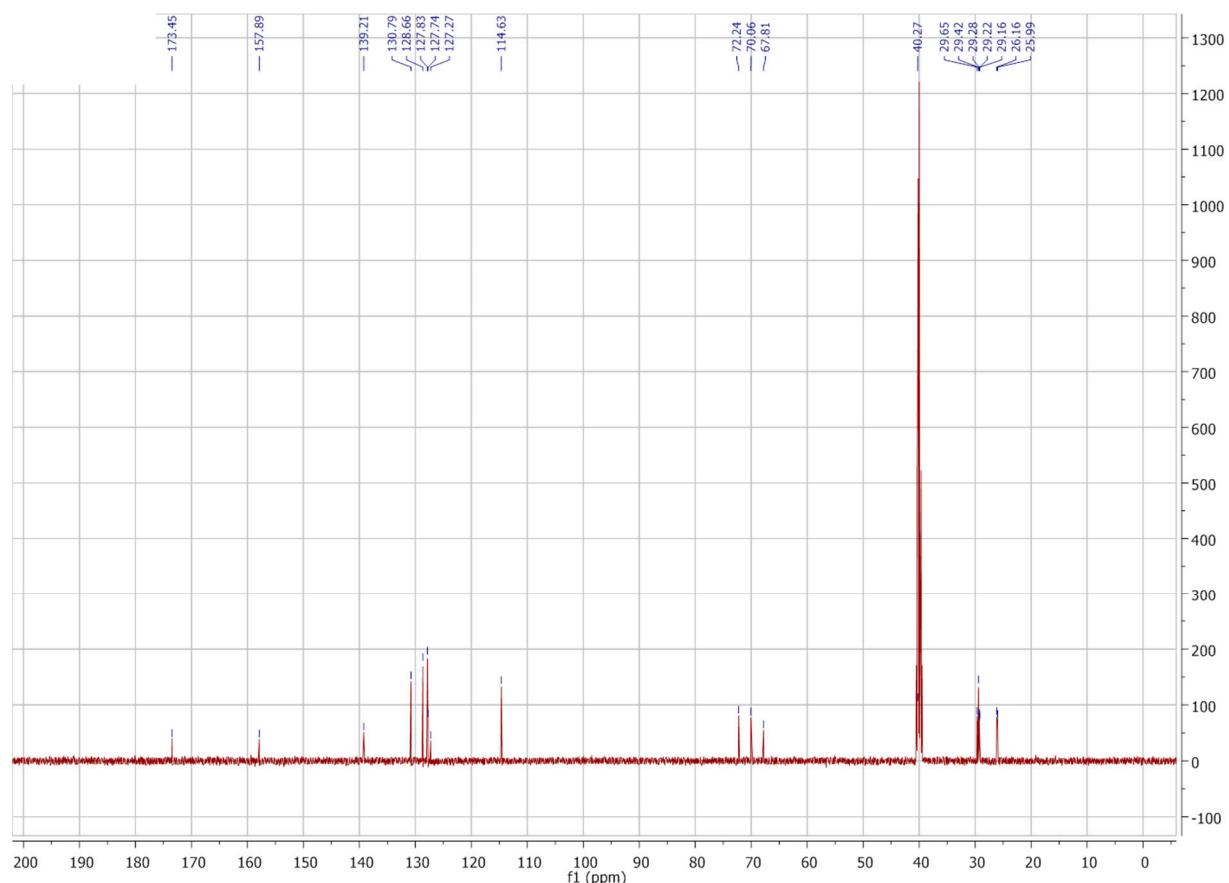


*2-(4-{[10-(benzyloxy)decyl]oxy}phenyl)acetic acid (**9i**; ZHAWOC6862)*

NMR

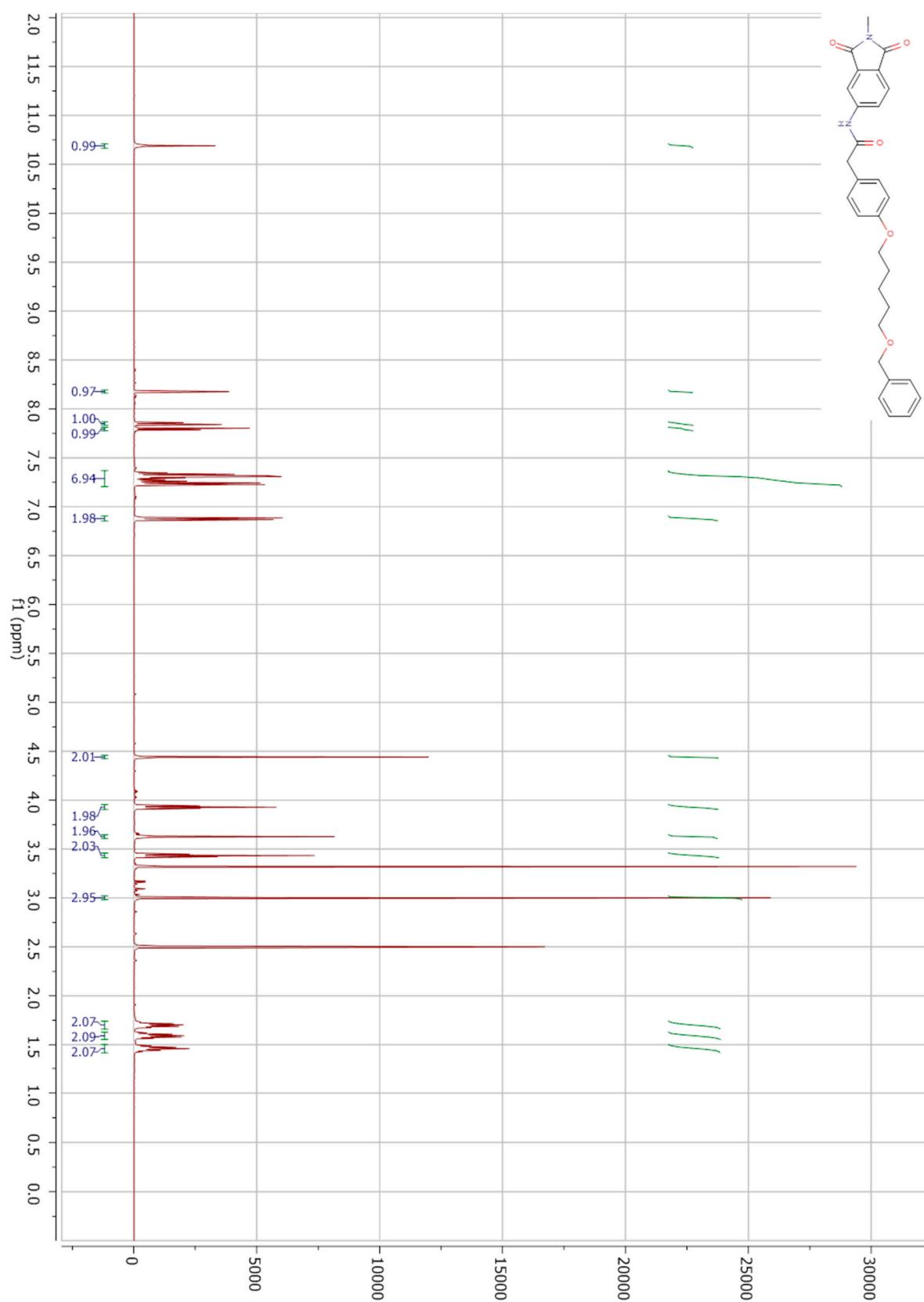


*2-(4-{{[10-(benzyloxy)decyl]oxy}phenyl}acetic acid (**9i**; ZHAWOC6862)*

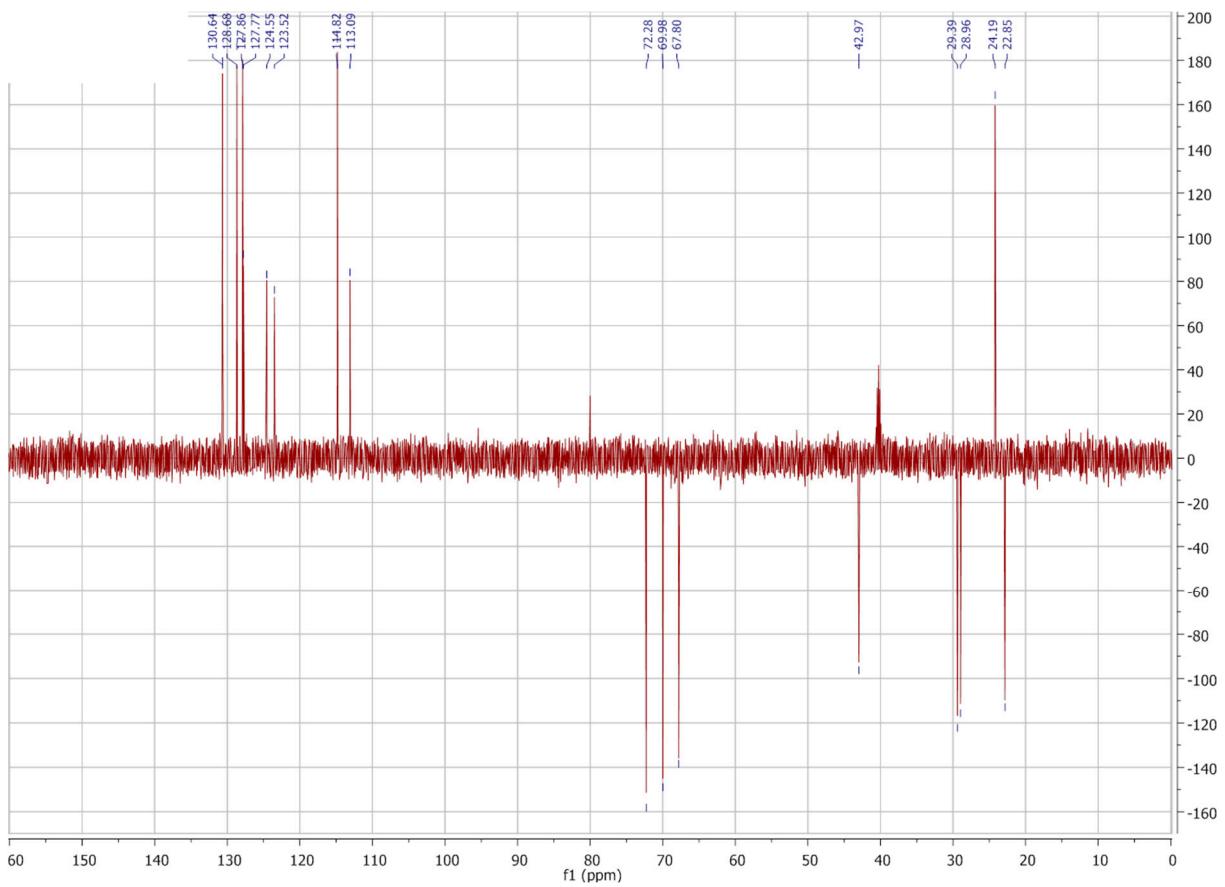
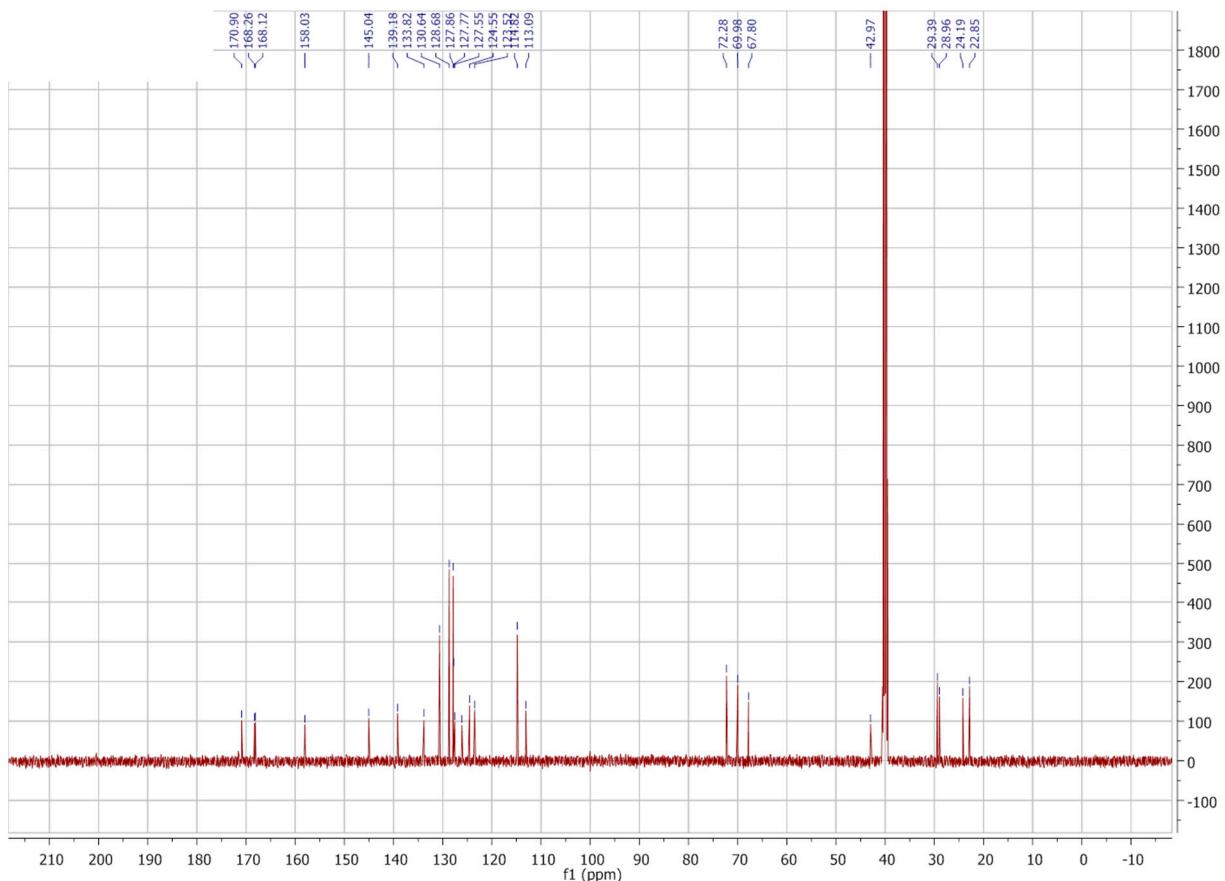


2-(4-{[5-(benzyloxy)pentyl]oxy}phenyl)-N-(2-methyl-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl)acetamide (12a**; ZHAWOC6647)**

NMR

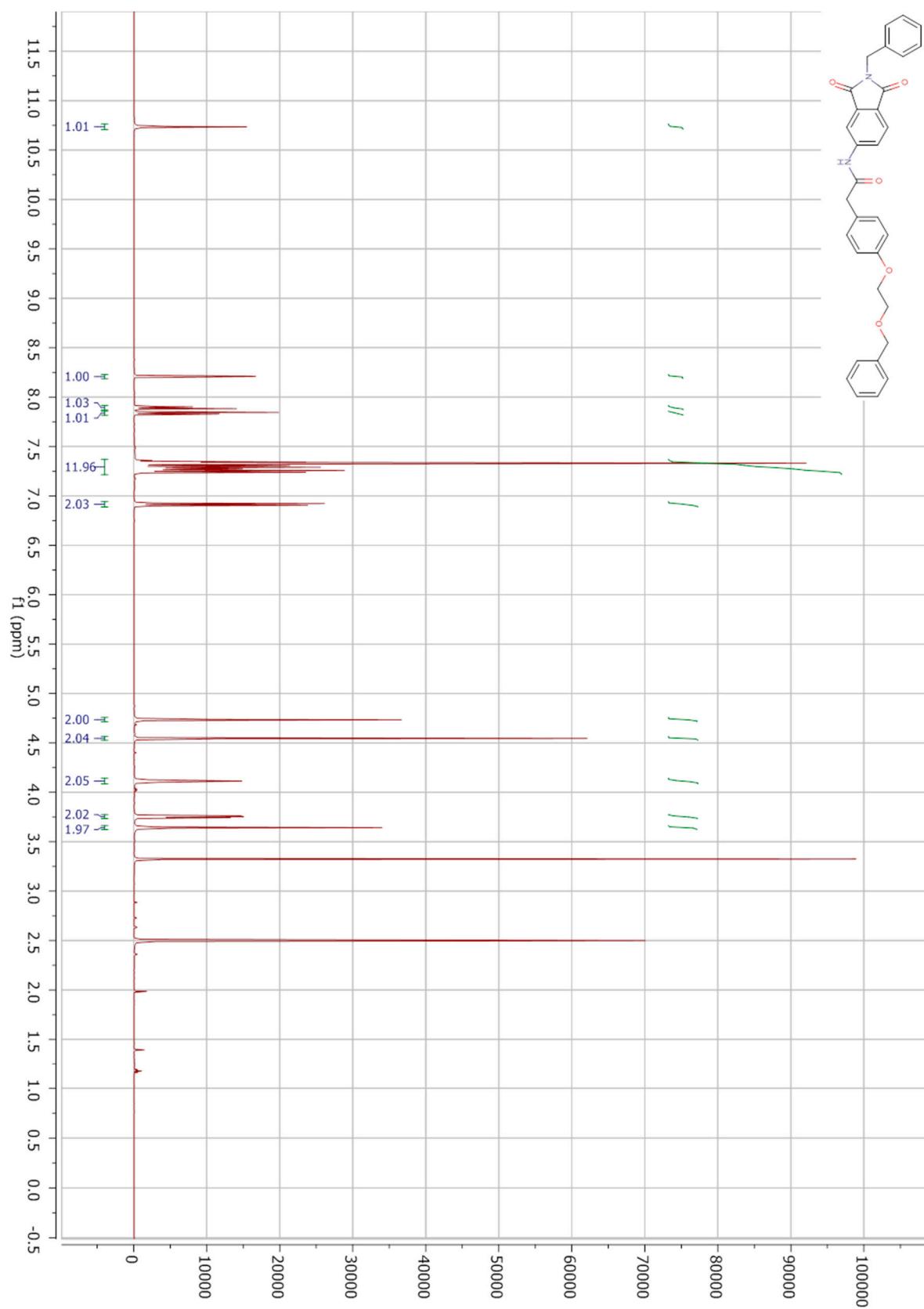


2-(4-{{[5-(benzyloxy)pentyl]oxy}phenyl}-N-(2-methyl-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl)acetamide (12a**; ZHAWOC6647)**

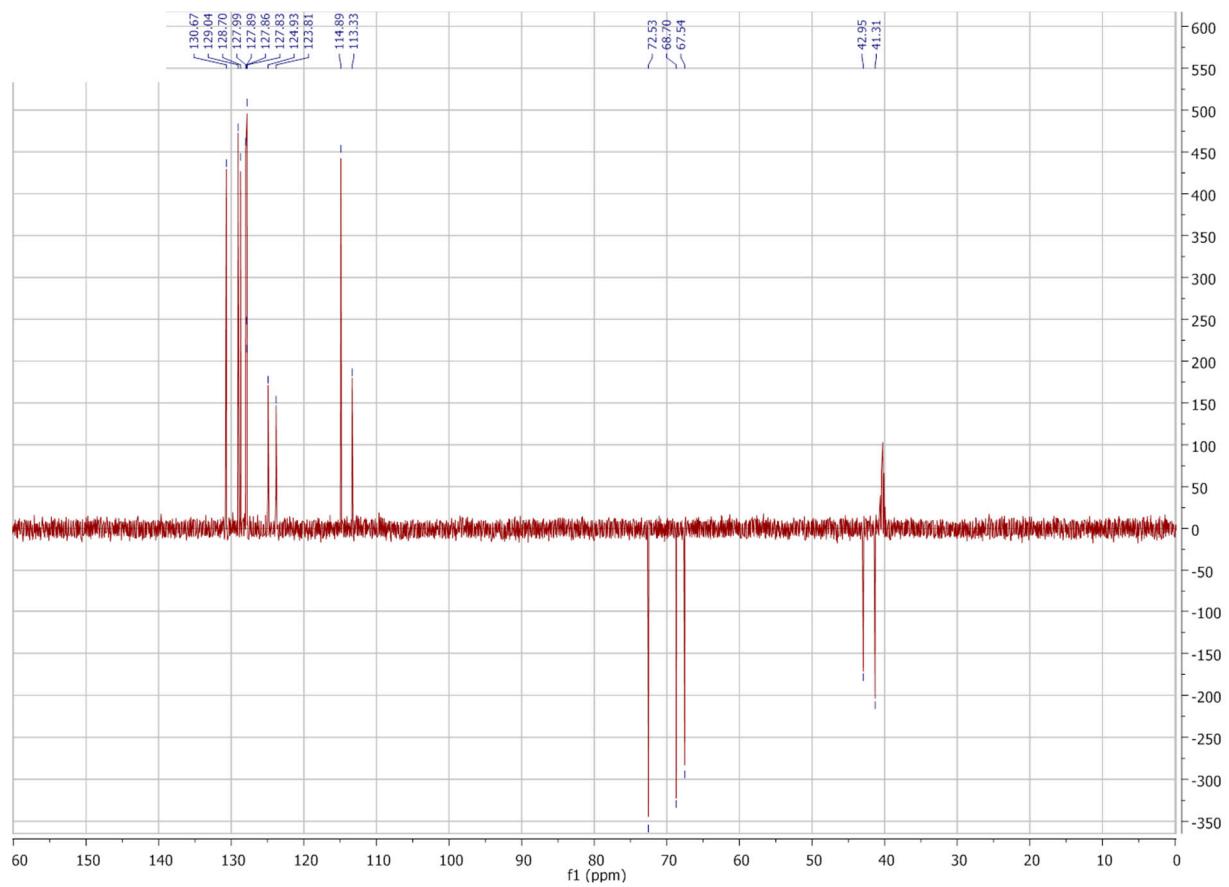
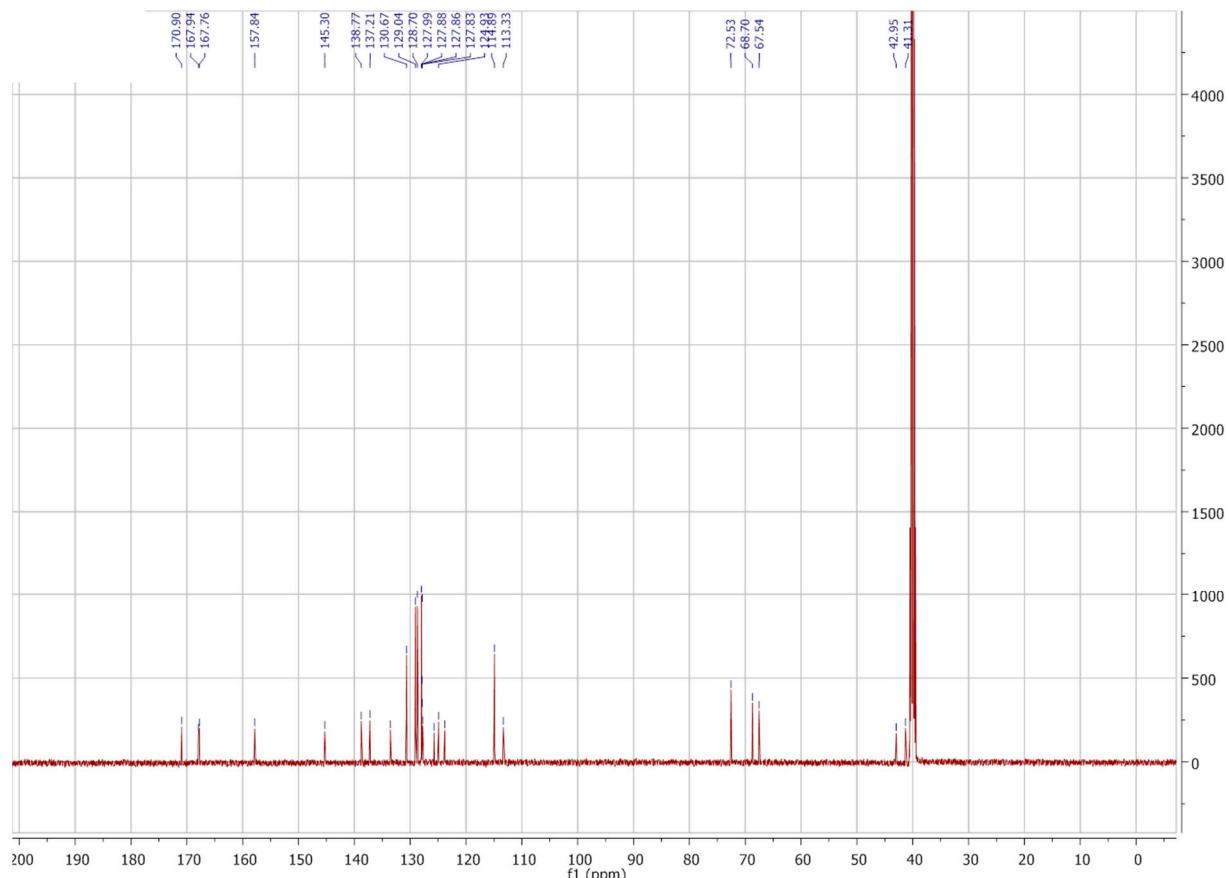


N-(2-benzyl-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl)-2-{4-[2-(benzyloxy)ethoxy]phenyl}acetamide (12b**; ZHAWOC5467)**

NMR

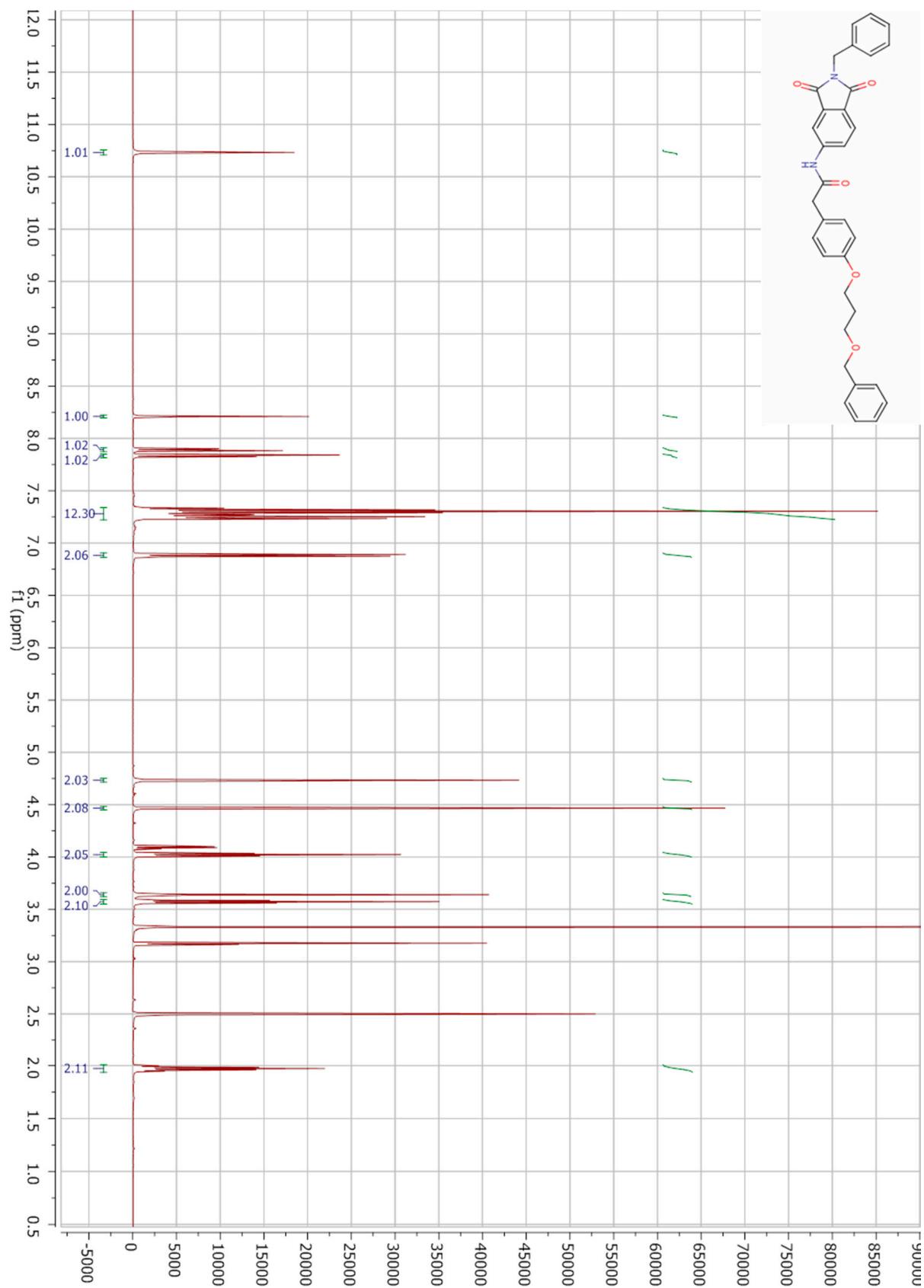


*N-(2-benzyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl)-2-{4-[2-(benzyloxy)ethoxy]phenyl}acetamide (**12b**; ZHAWOC5467)*

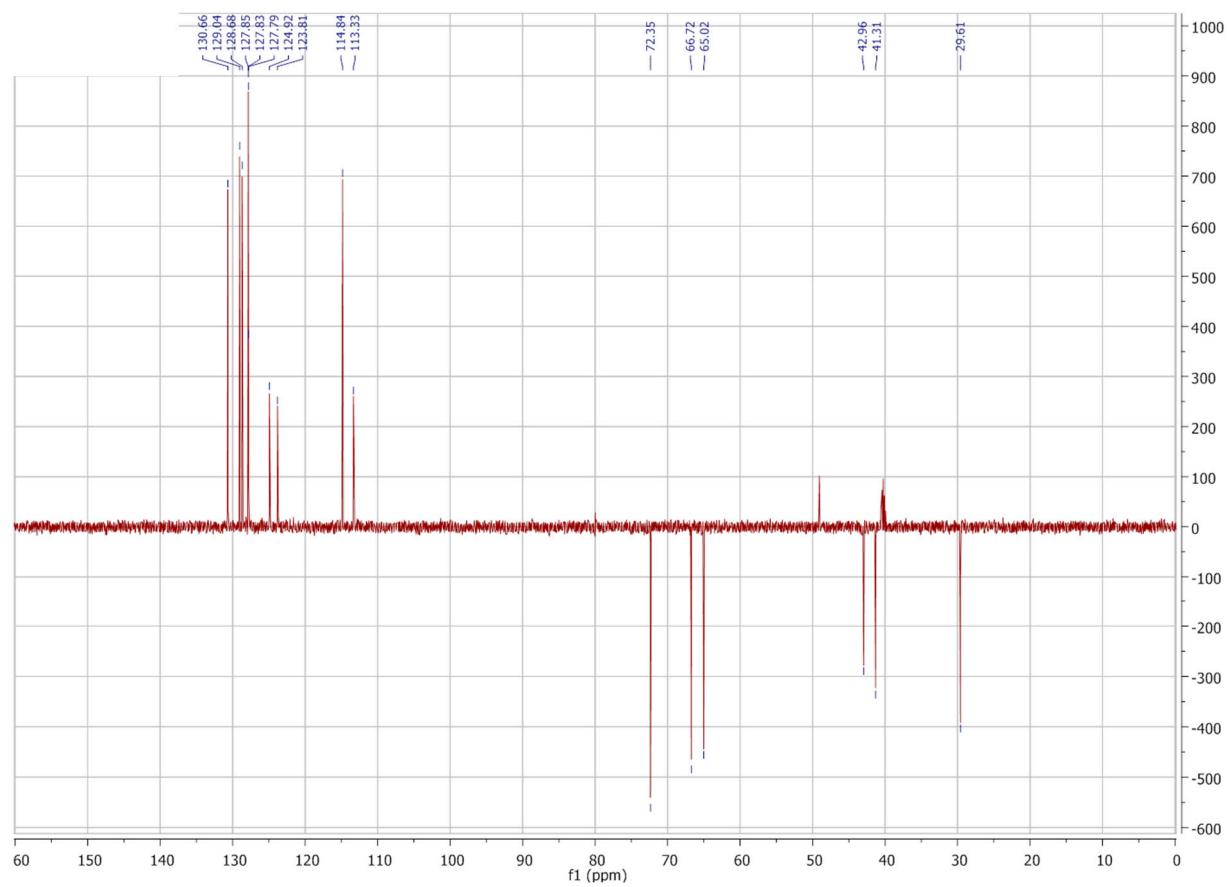
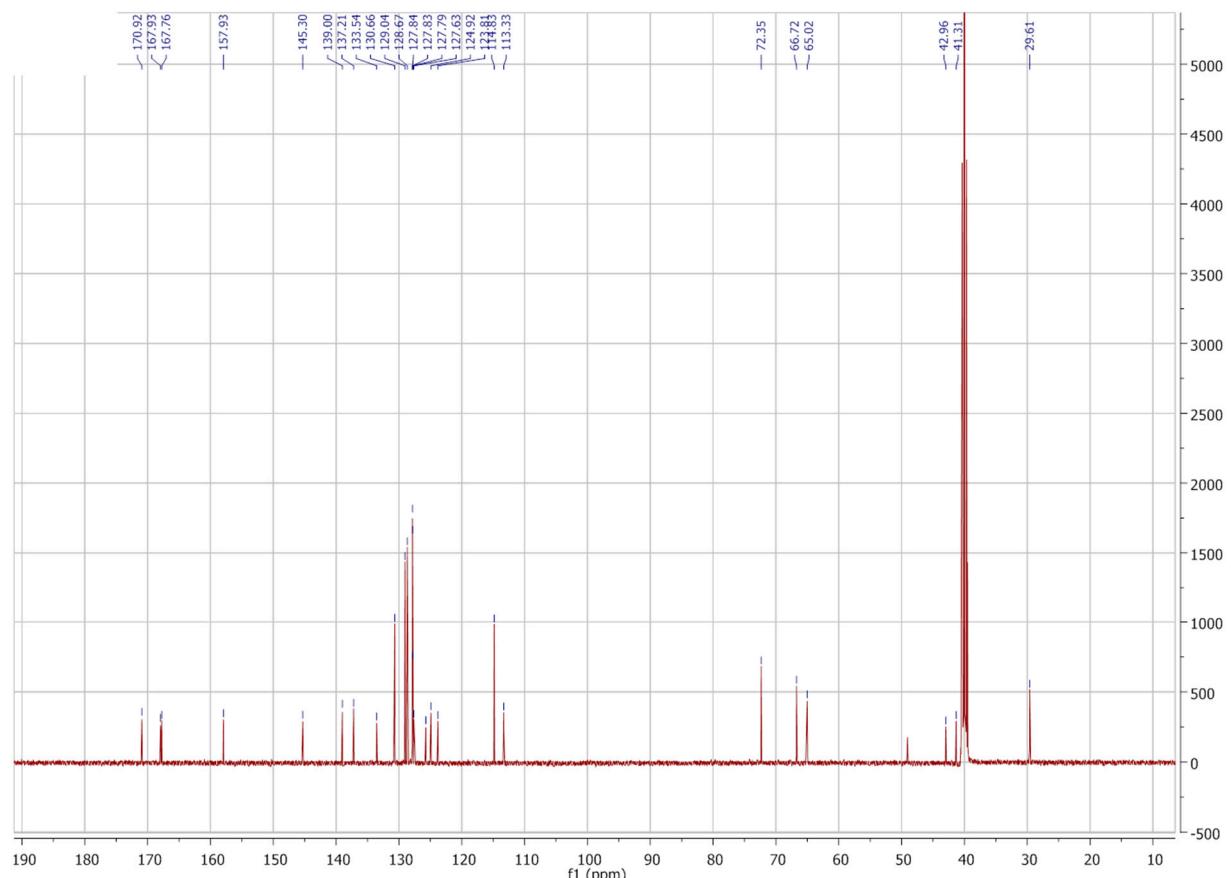


*N-(2-benzyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl)-2-{4-[3-(benzyloxy)propoxy]phenyl}acetamide (**12c**; ZHAWOC4511)*

NMR

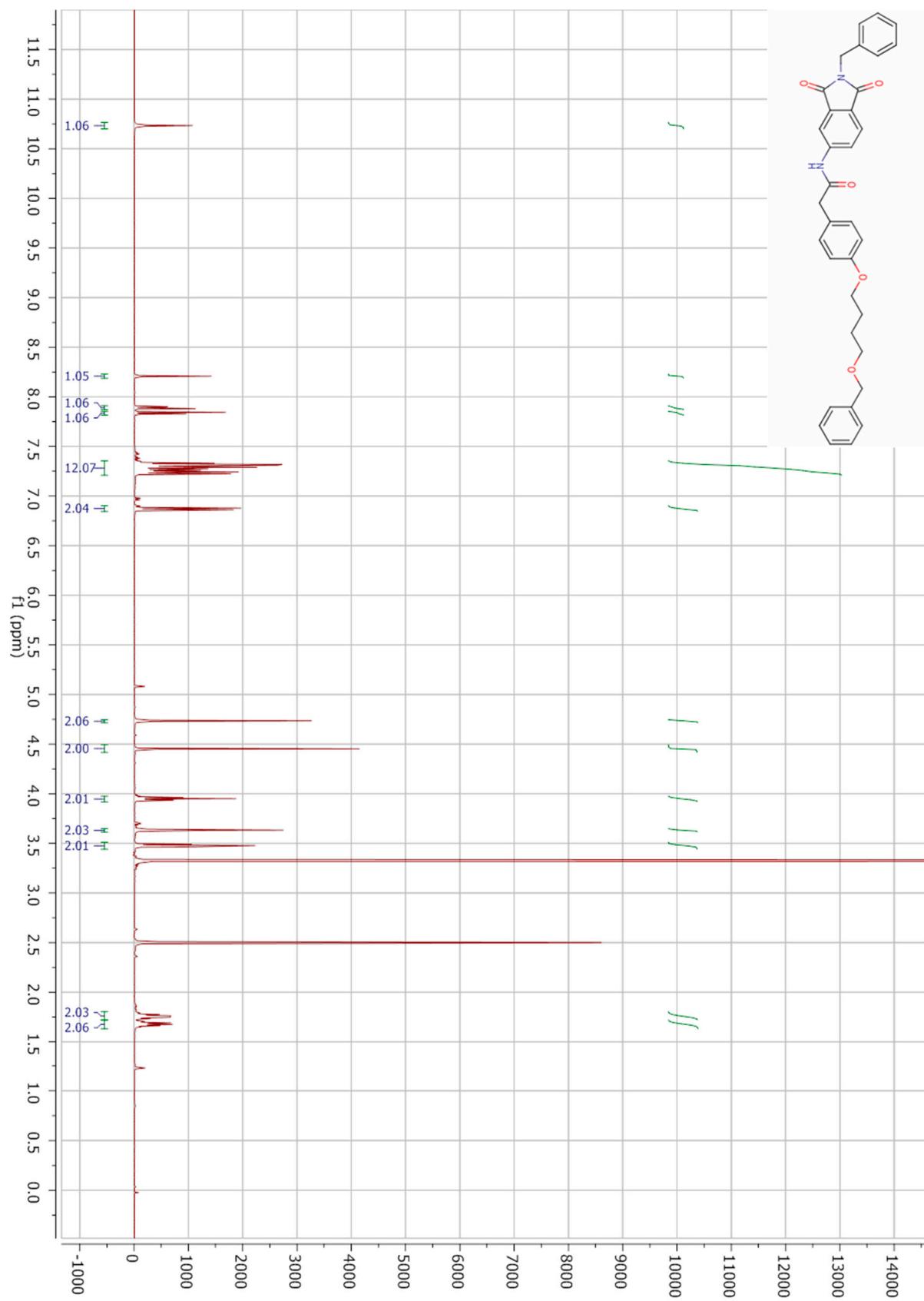


*N-(2-benzyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl)-2-{4-[3-(benzyloxy)propoxy]phenyl}acetamide (**12c**; ZHAWOC4511)*

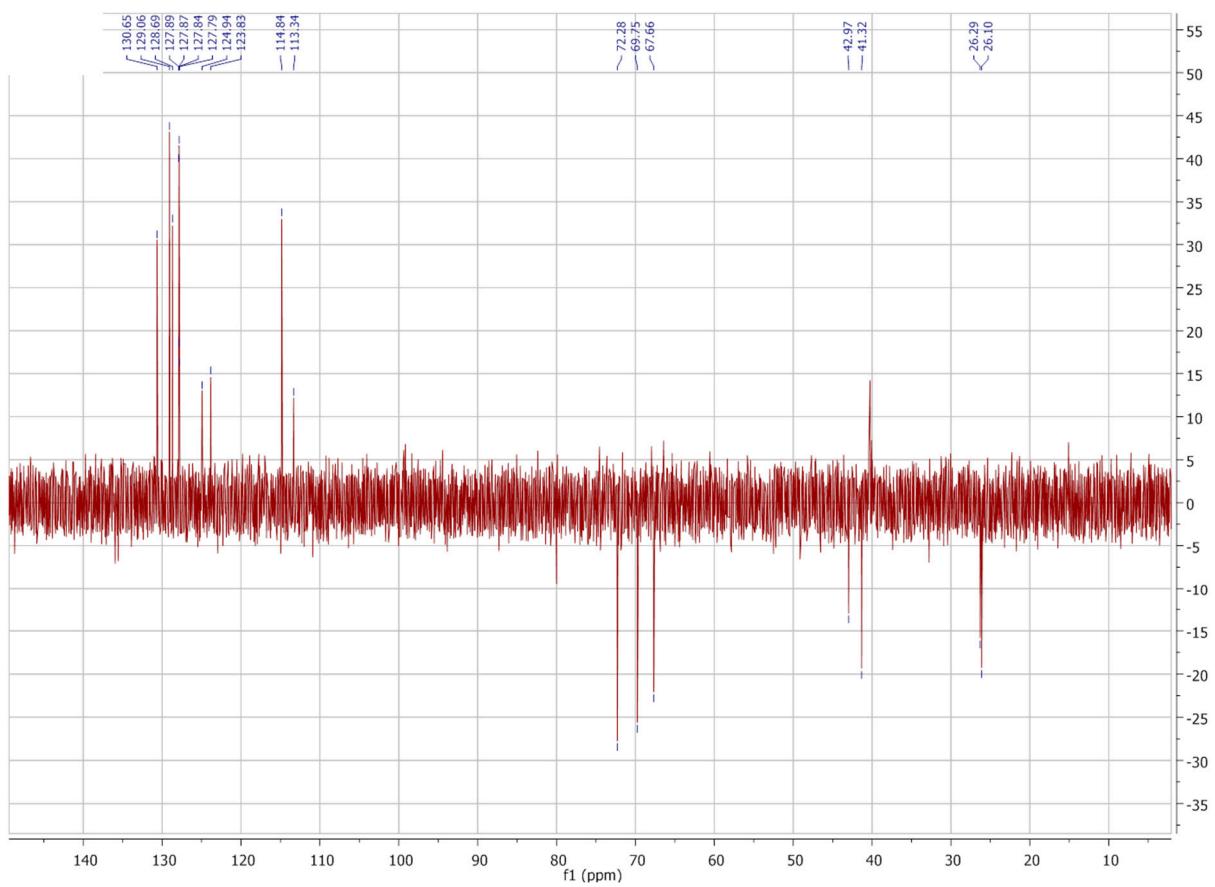
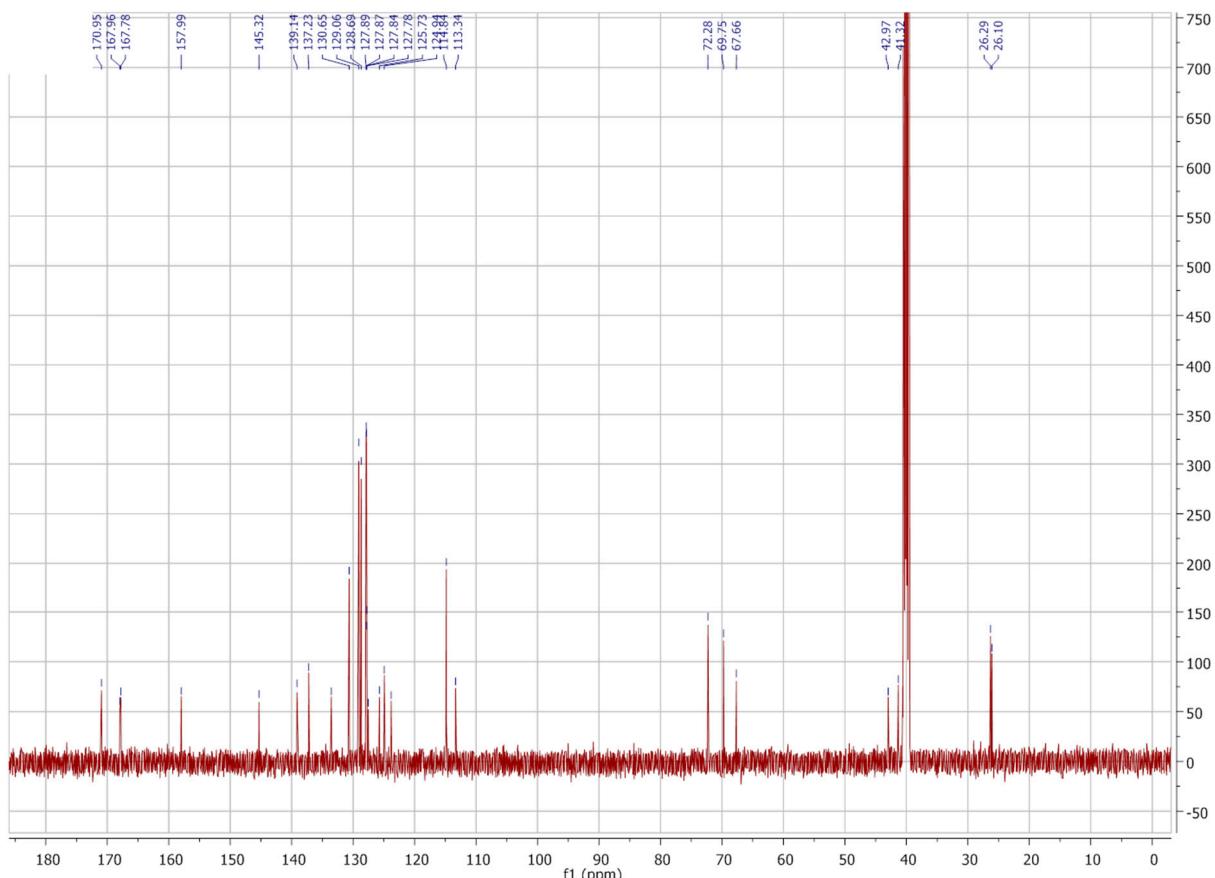


N-(2-benzyl-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl)-2-{4-[4-(benzyloxy)butoxy]phenyl}acetamide (12d**; ZHAWOC4752)**

NMR

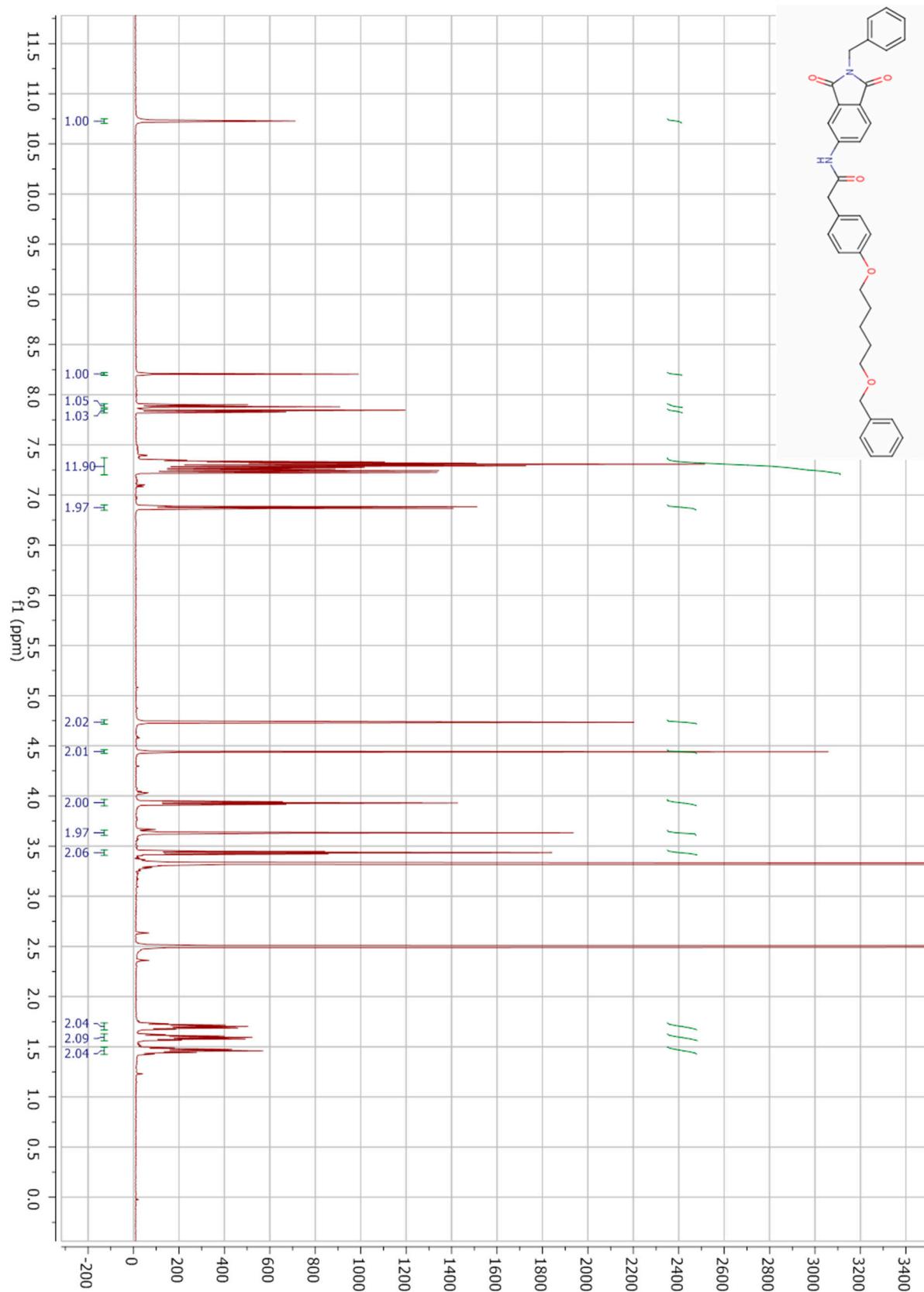


*N-(2-benzyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl)-2-{4-[4-(benzyloxy)butoxy]phenyl}acetamide (12d; ZHAWOC4752)*

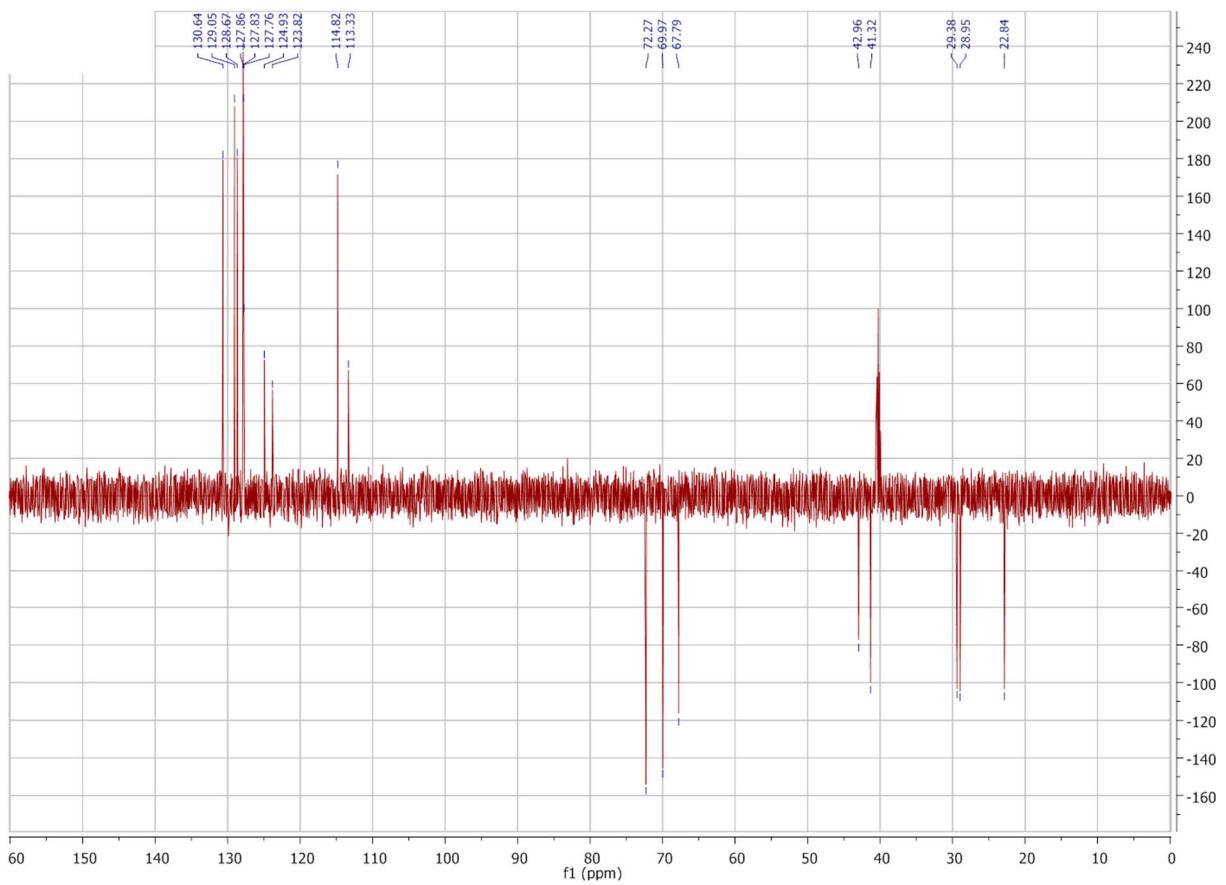
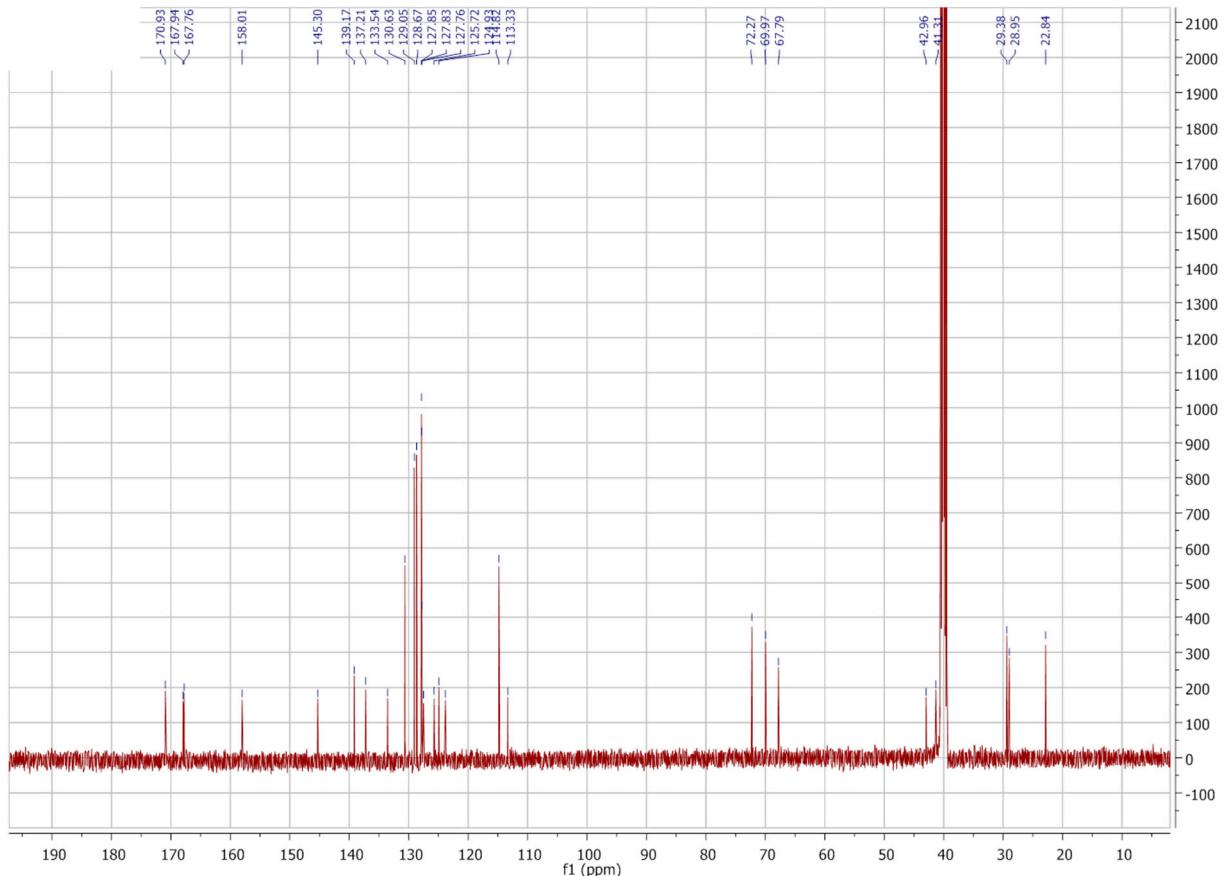


N-(2-benzyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl)-2-(4-{[5-(benzyloxy)pentyl]oxy}phenyl)acetamide (**12e**; ZHAWOC5979)

NMR

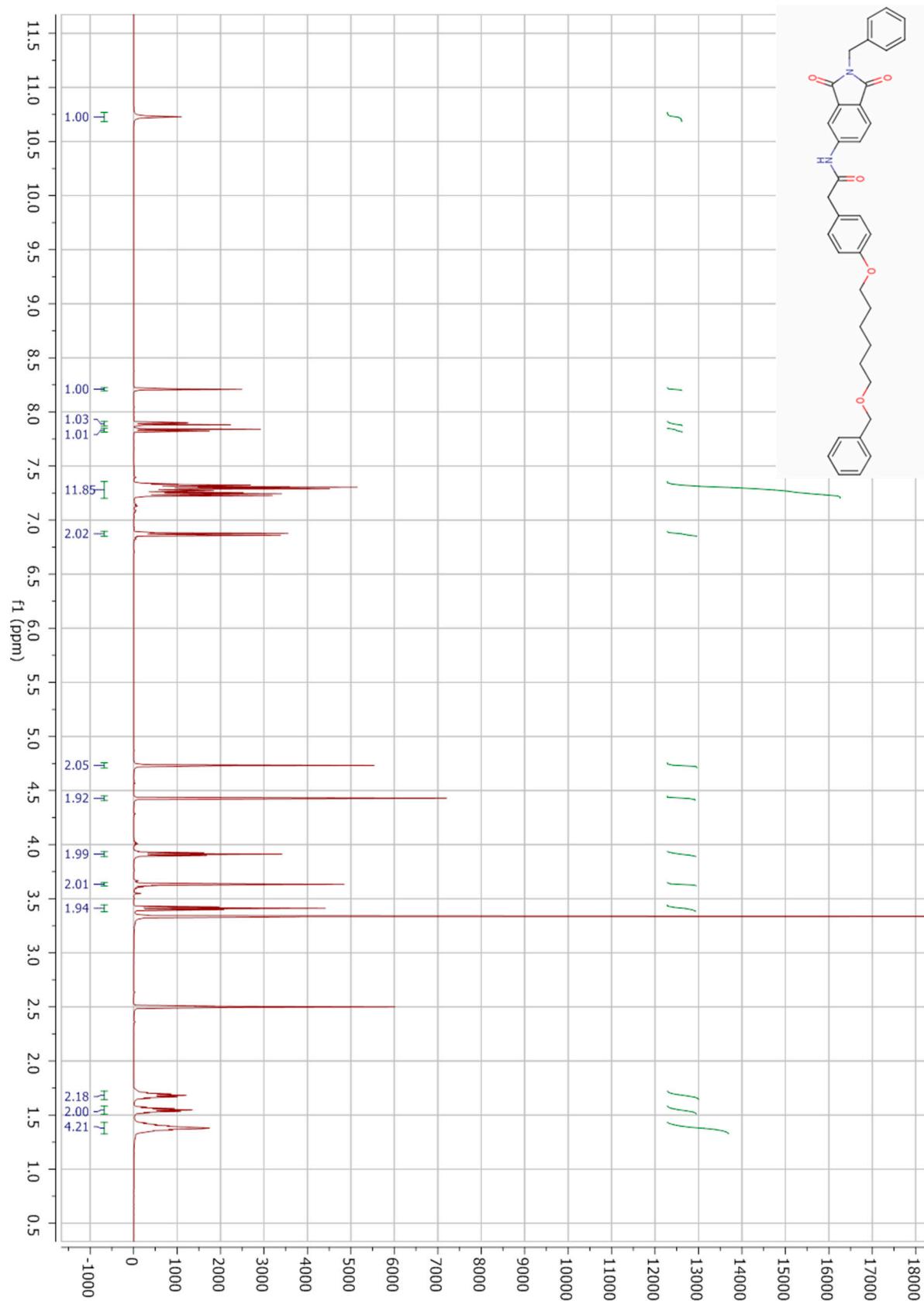


N-(2-benzyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl)-2-(4-[[5-(benzyloxy)pentyl]oxy]phenyl)acetamide (**12e**; ZHAWOC5979)

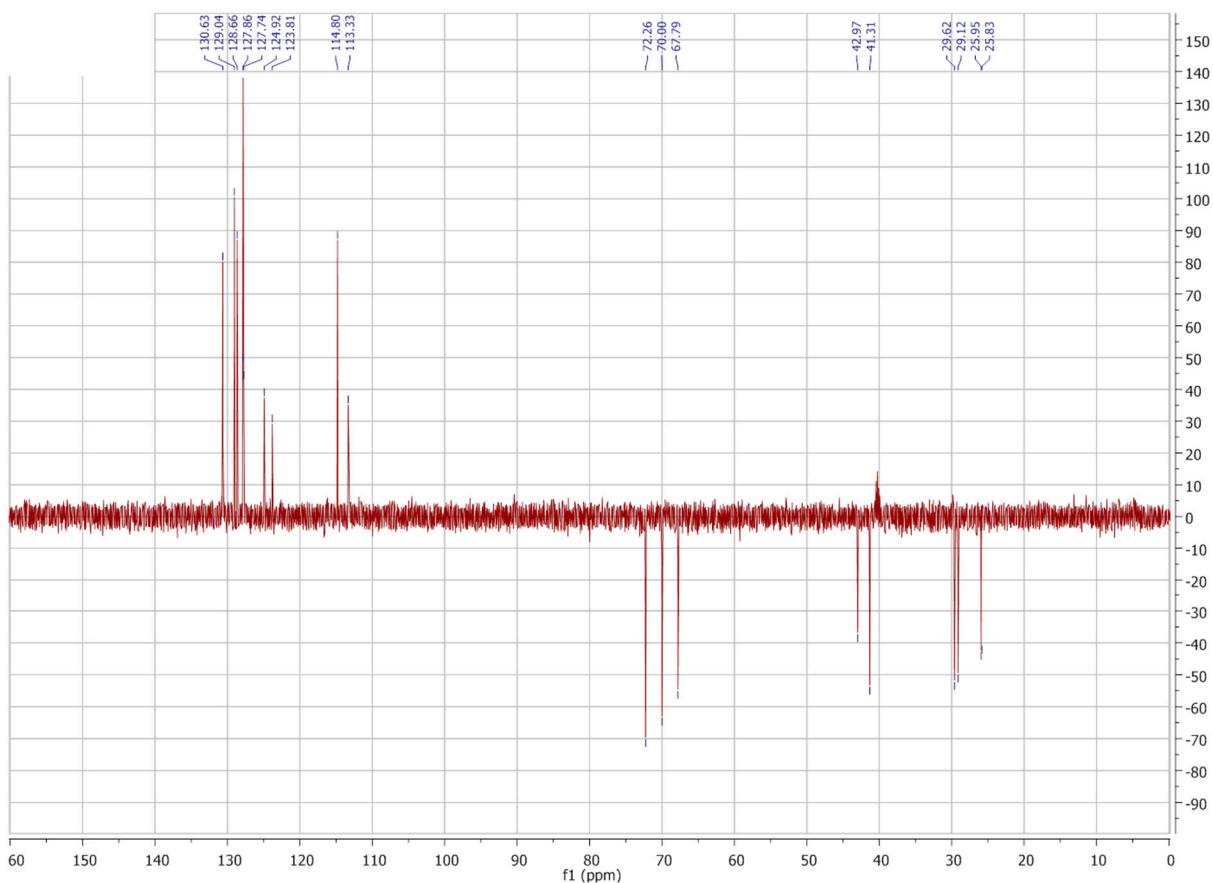
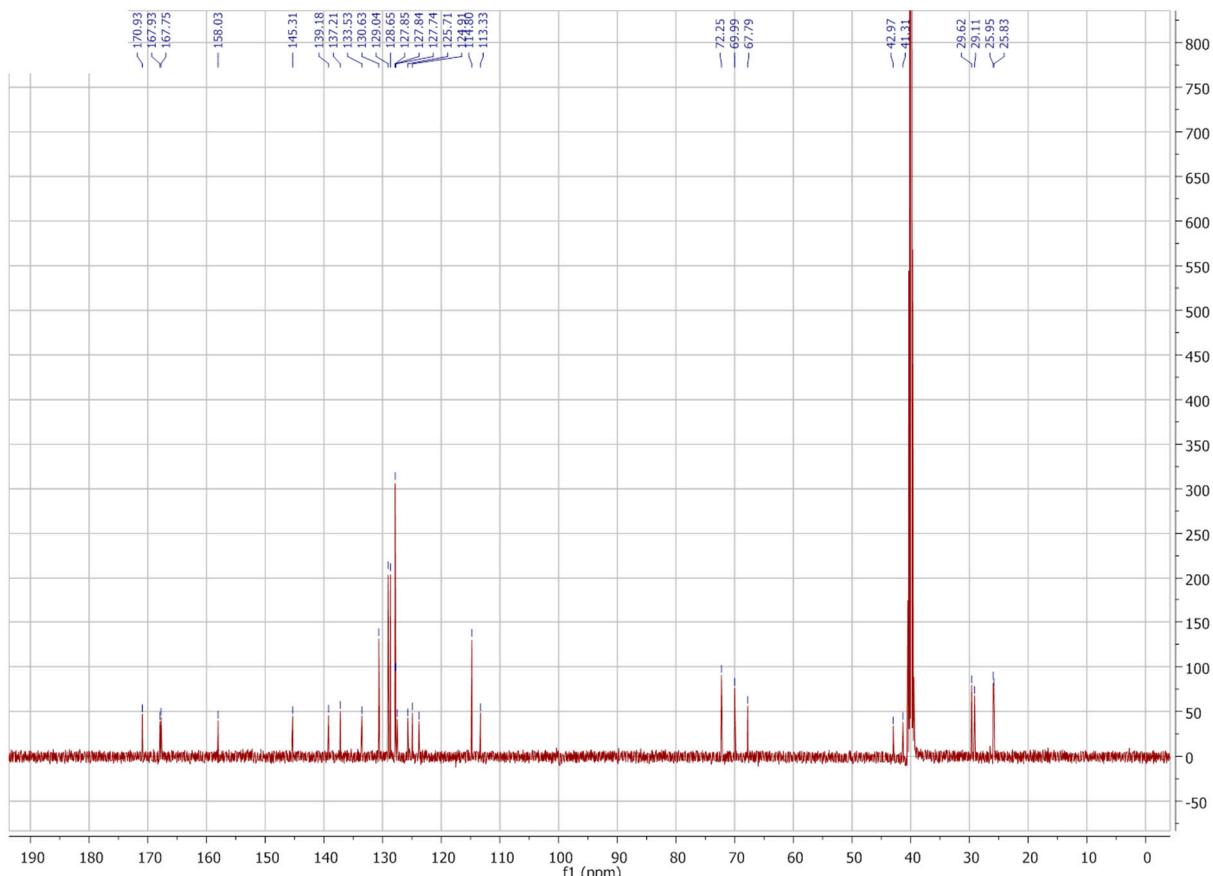


N-(2-benzyl-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl)-2-(4-{[6-(benzyloxy)hexyl]oxy}phenyl)acetamide (12f; ZHAWOC5980)

NMR

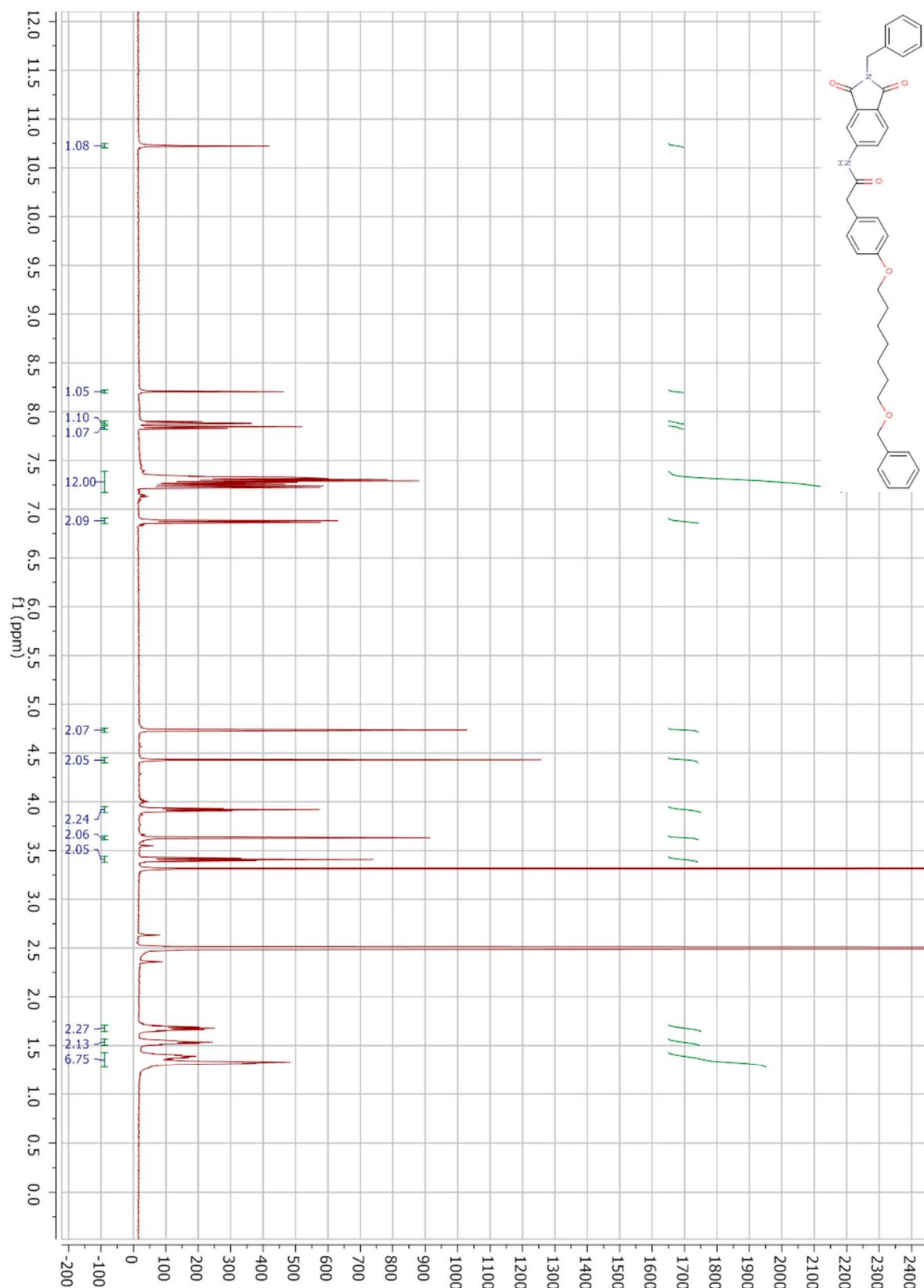


N-(2-benzyl-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl)-2-(4-{[6-(benzyloxy)hexyl]oxy}phenyl)acetamide (12f; ZHAWOC5980)

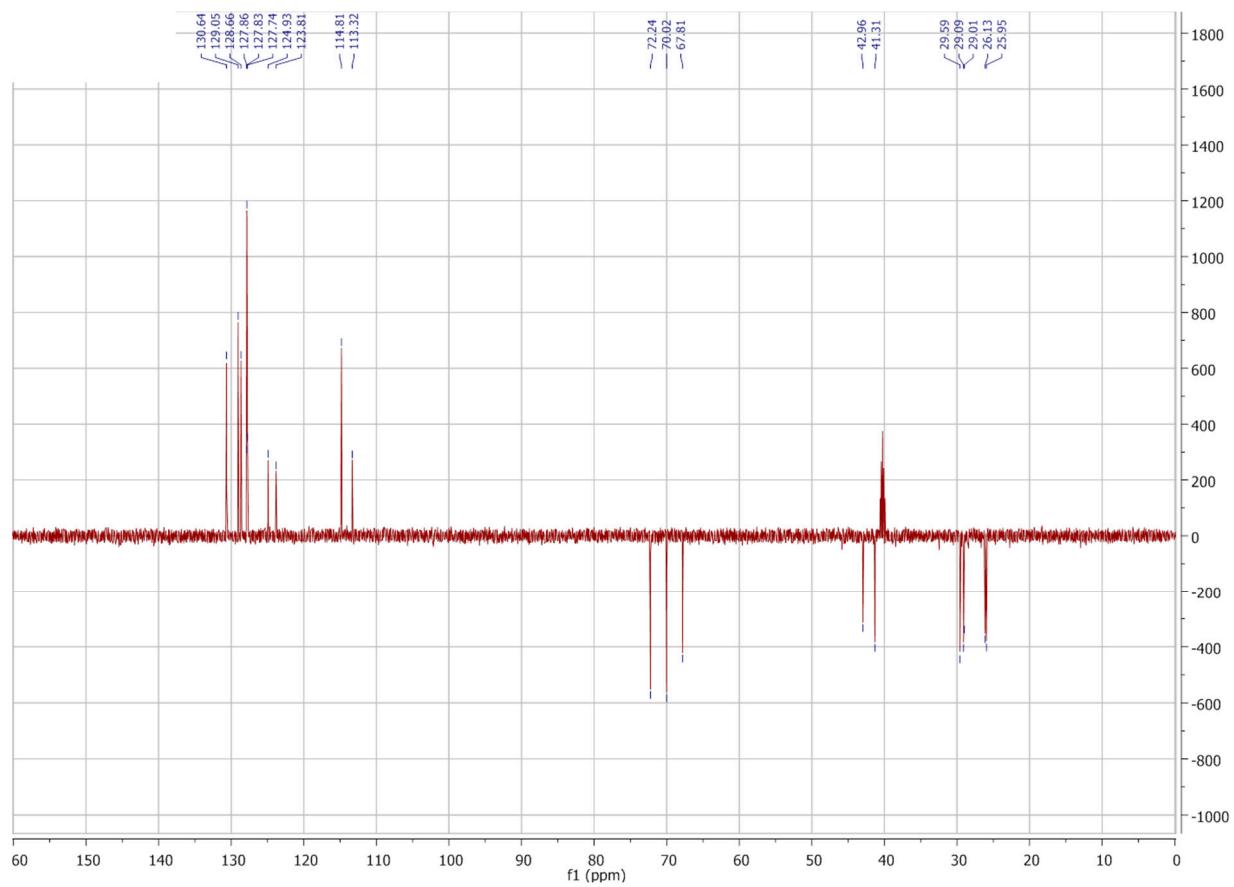
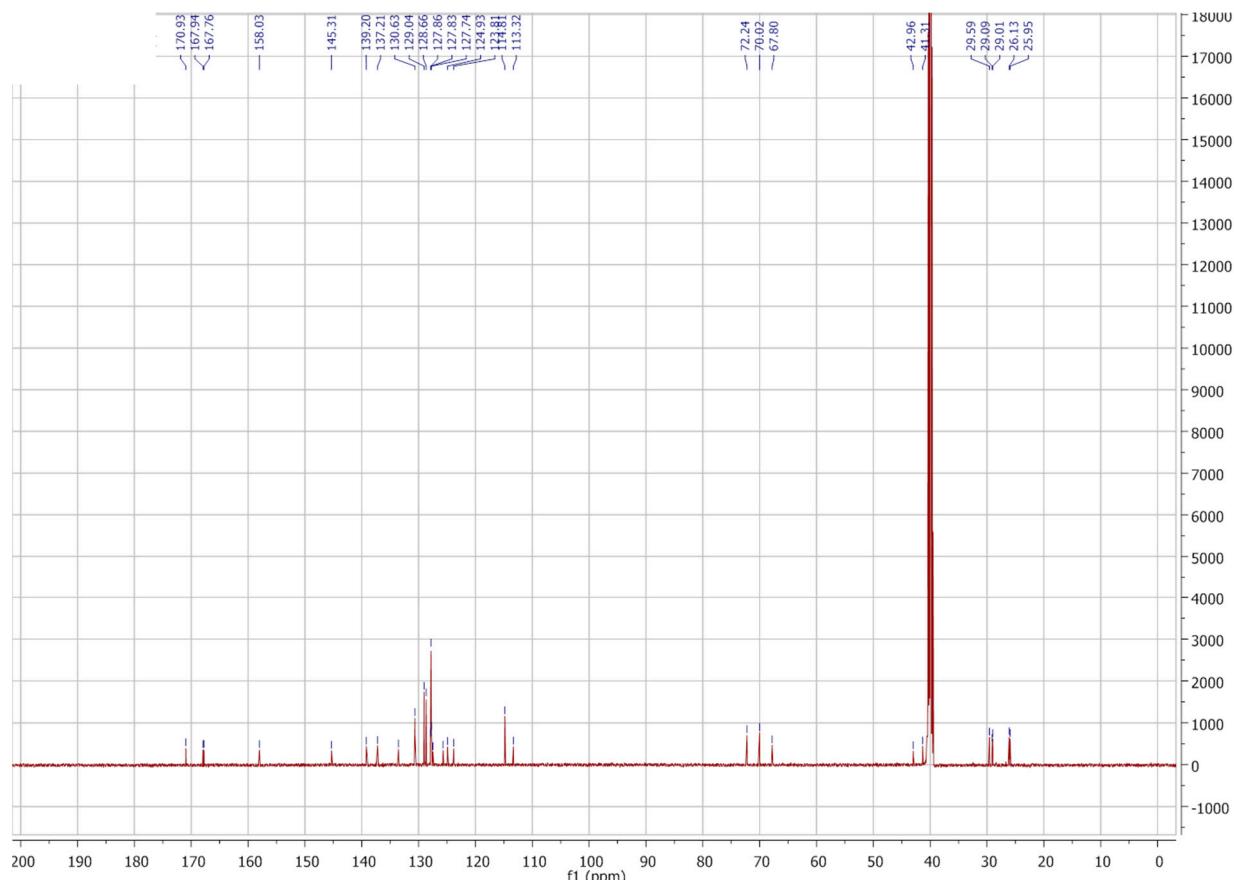


*N-(2-benzyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl)-2-(4-{[7-(benzyloxy)heptyl]oxy}phenyl)acetamide (12g; ZHAWOC7099)*

NMR

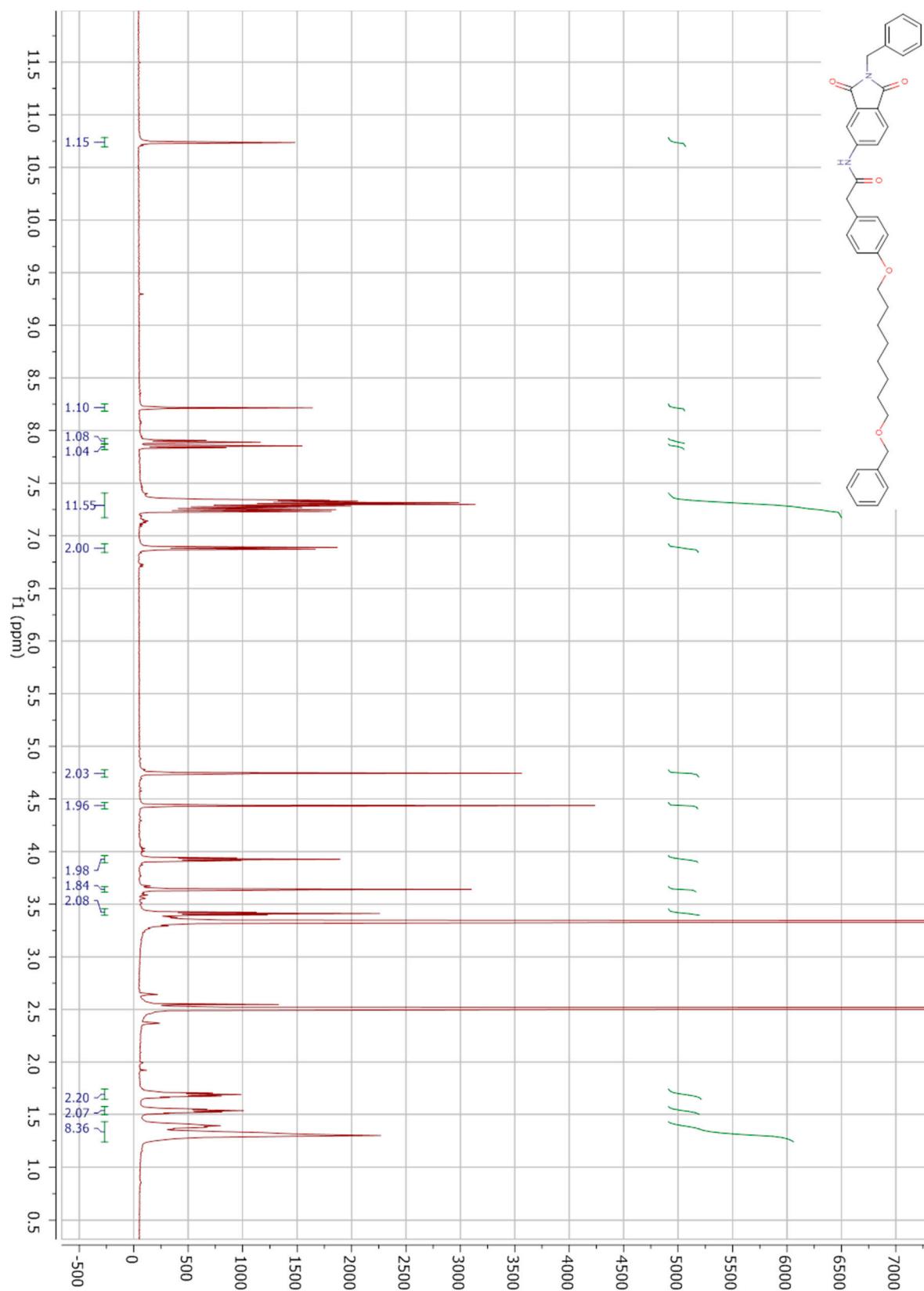


*N-(2-benzyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl)-2-(4-{[7-(benzyloxy)heptyl]oxy}phenyl)acetamide (12g; ZHAWOC7099)*

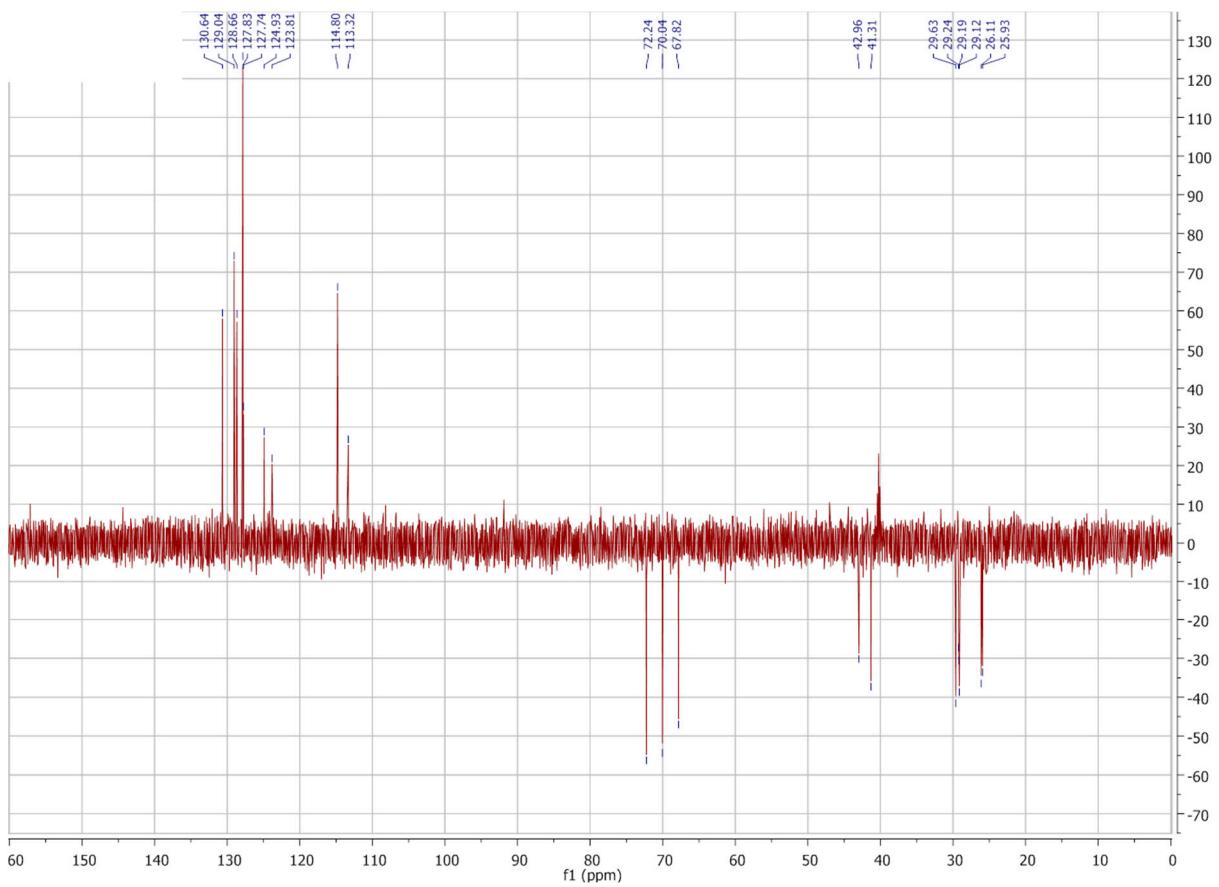
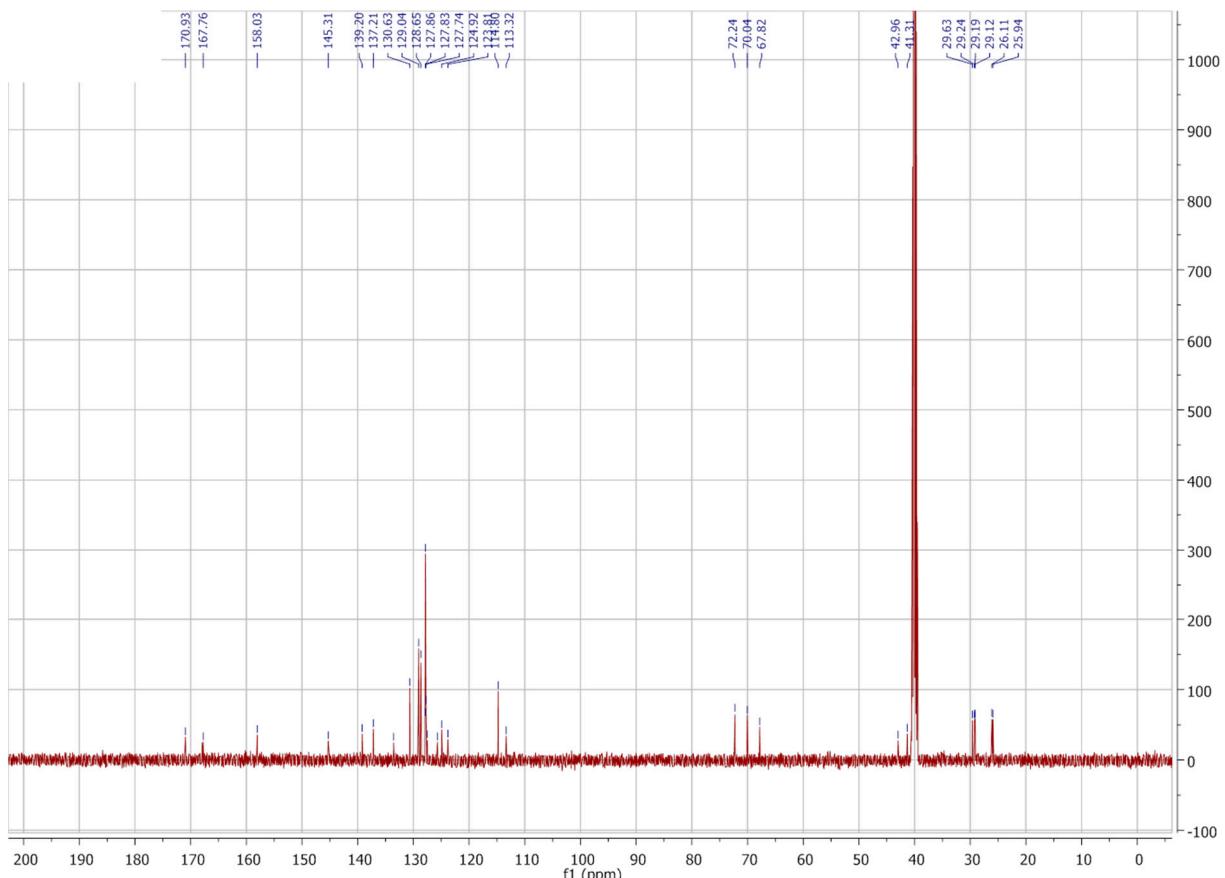


*N-(2-benzyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl)-2-(4-{[8-(benzyloxy)octyl]oxy}phenyl)acetamide (12h; ZHAWOC7095)*

NMR

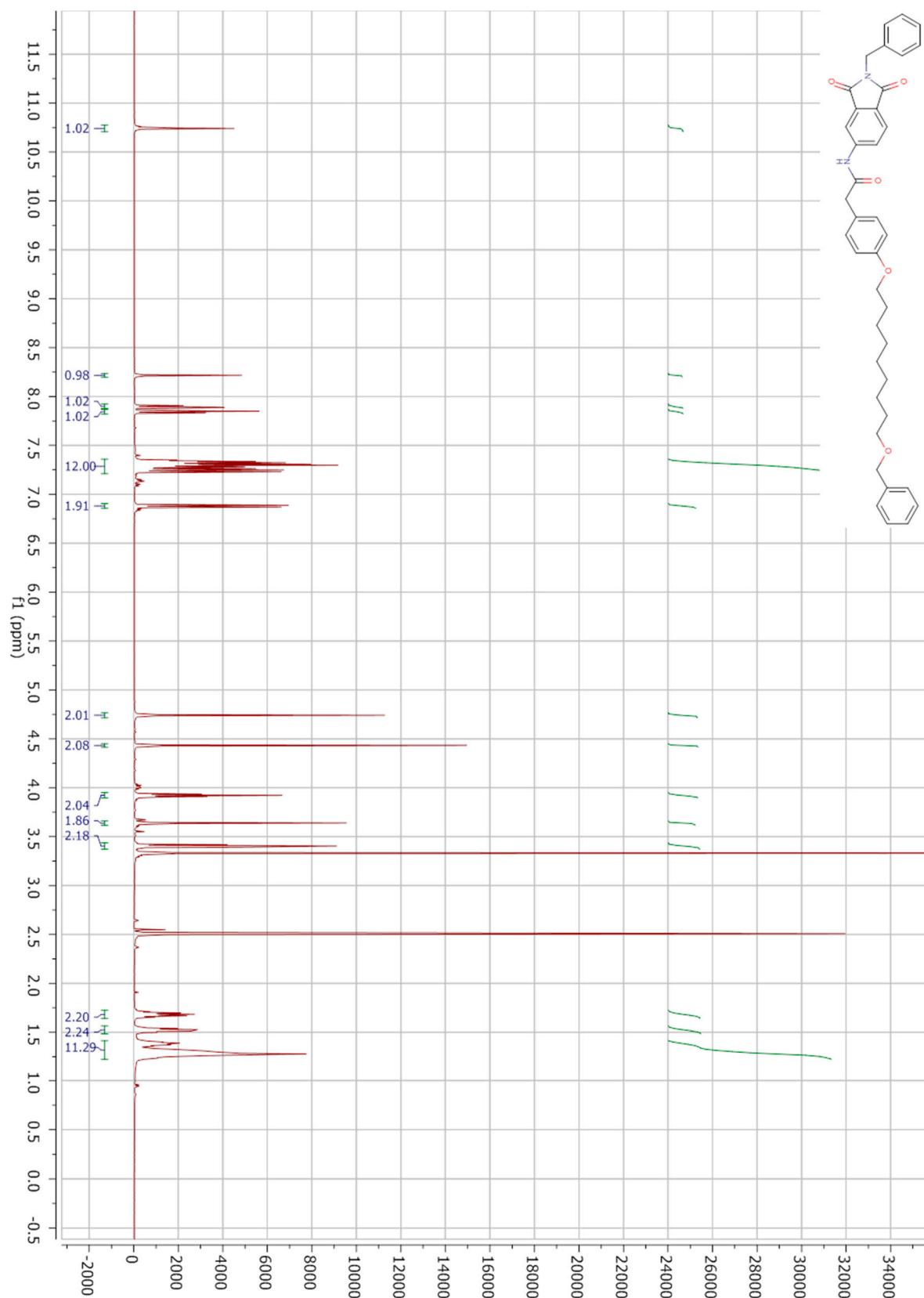


N-(2-benzyl-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl)-2-(4-{[8-(benzyloxy)octyl]oxy}phenyl)acetamide (12h; ZHAWOC7095)

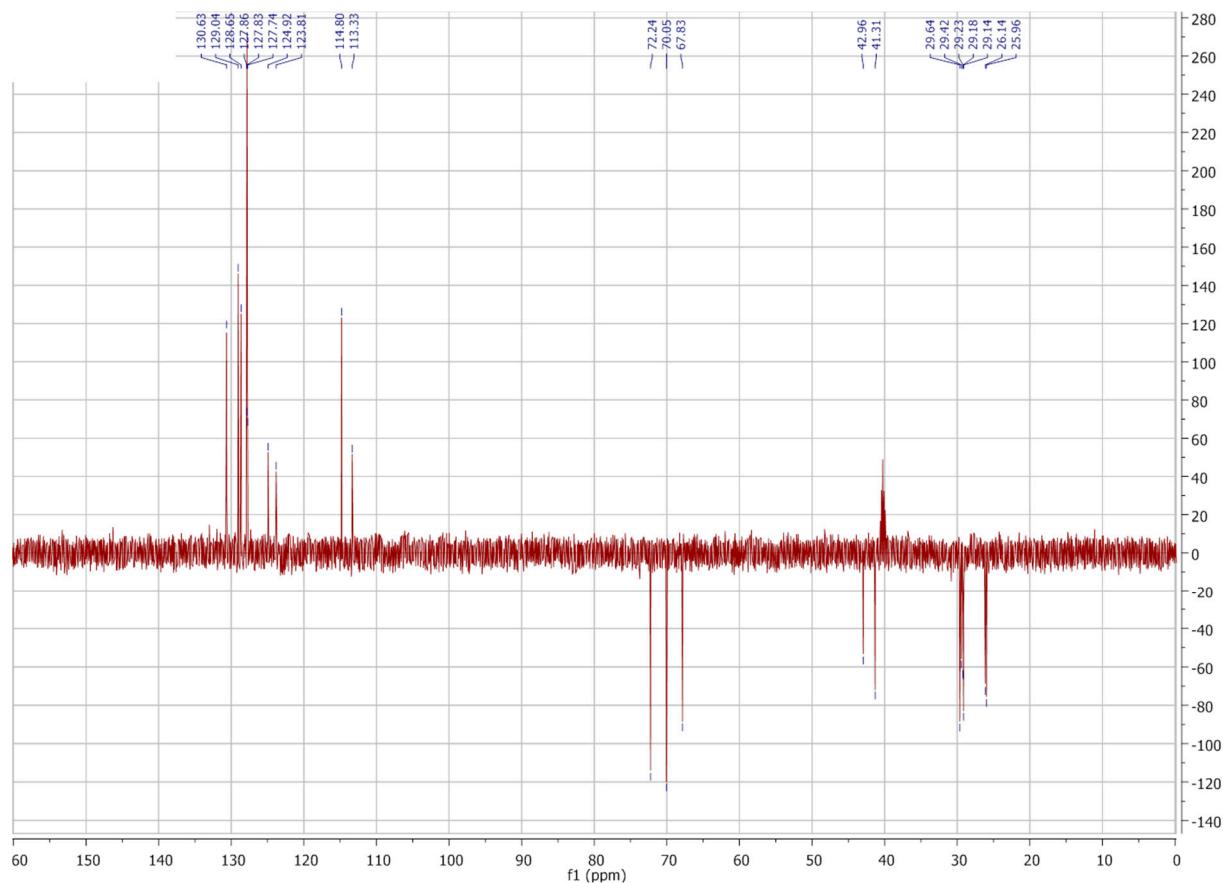
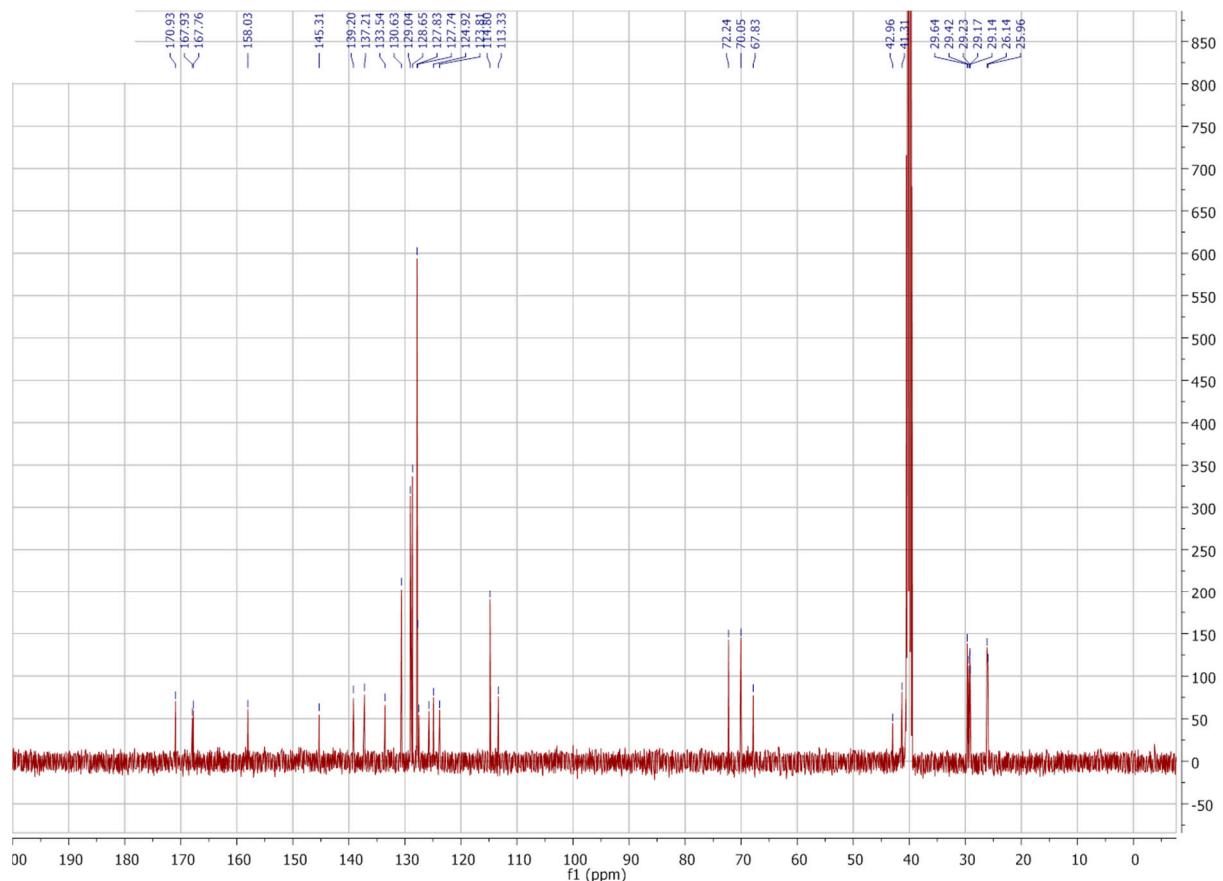


*N-(2-benzyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl)-2-(4-{[9-(benzyloxy)nonyl]oxy}phenyl)acetamide (12i; ZHAWOC6931)*

NMR

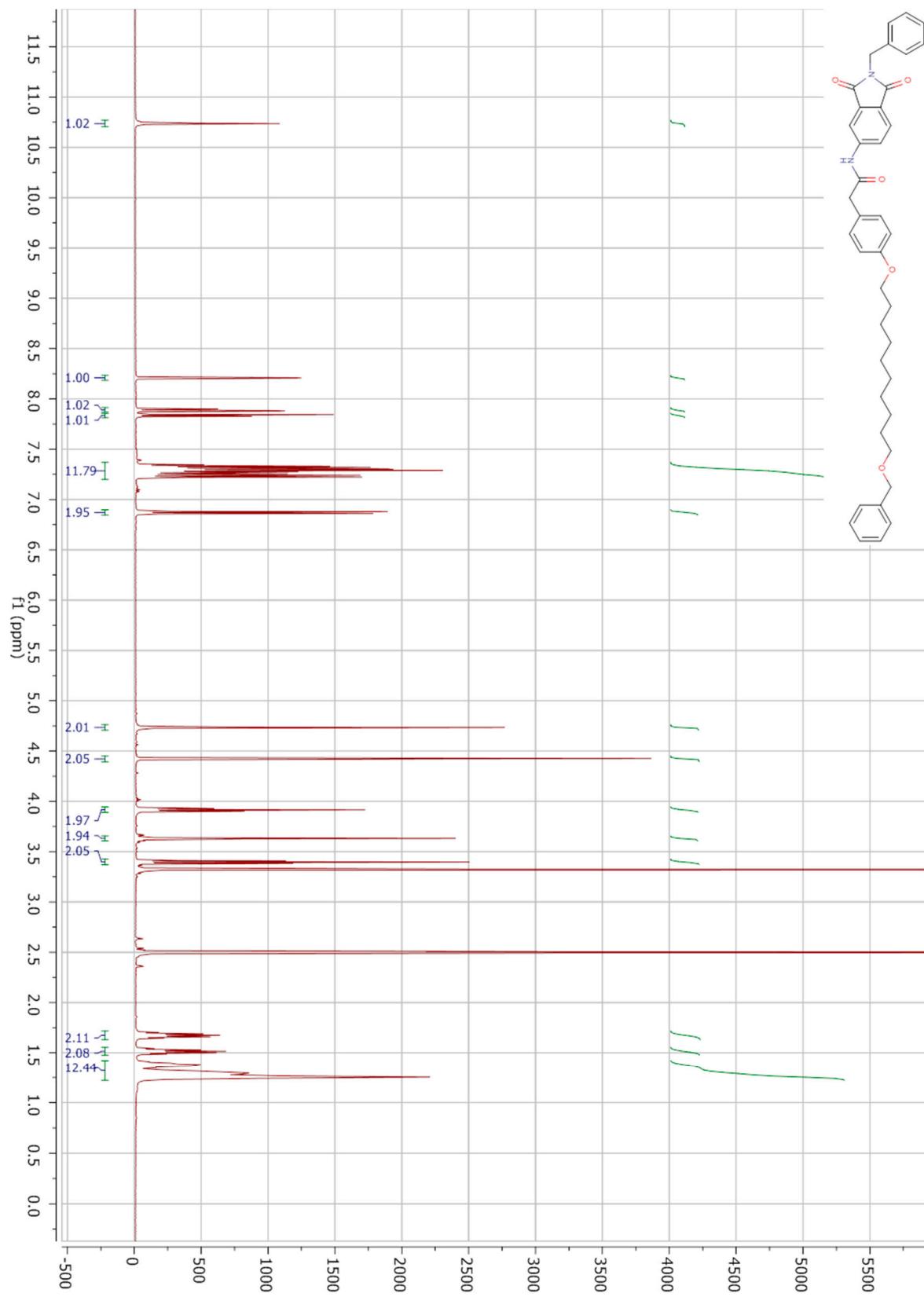


*N-(2-benzyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl)-2-(4-{[9-(benzyloxy)nony]oxy}phenyl)acetamide (12i; ZHAWOC6931)*

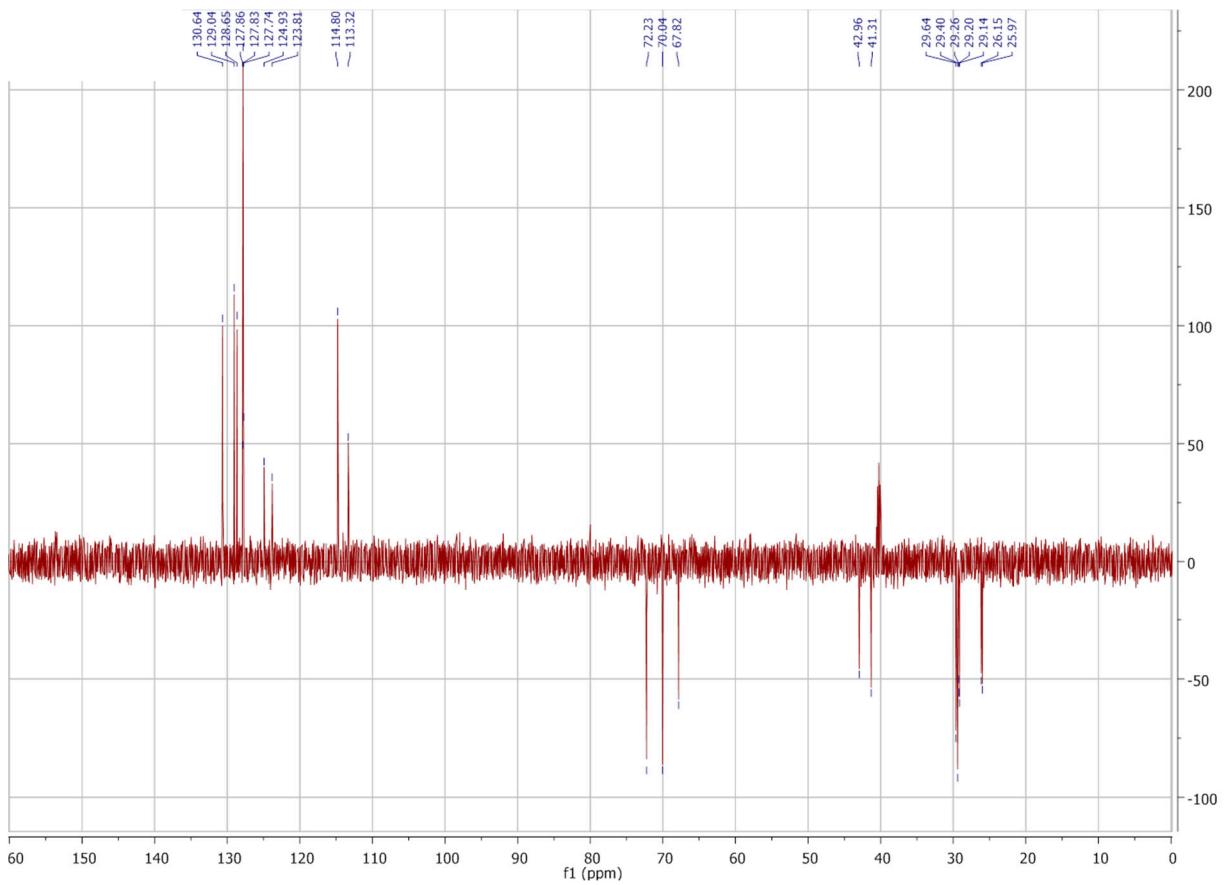
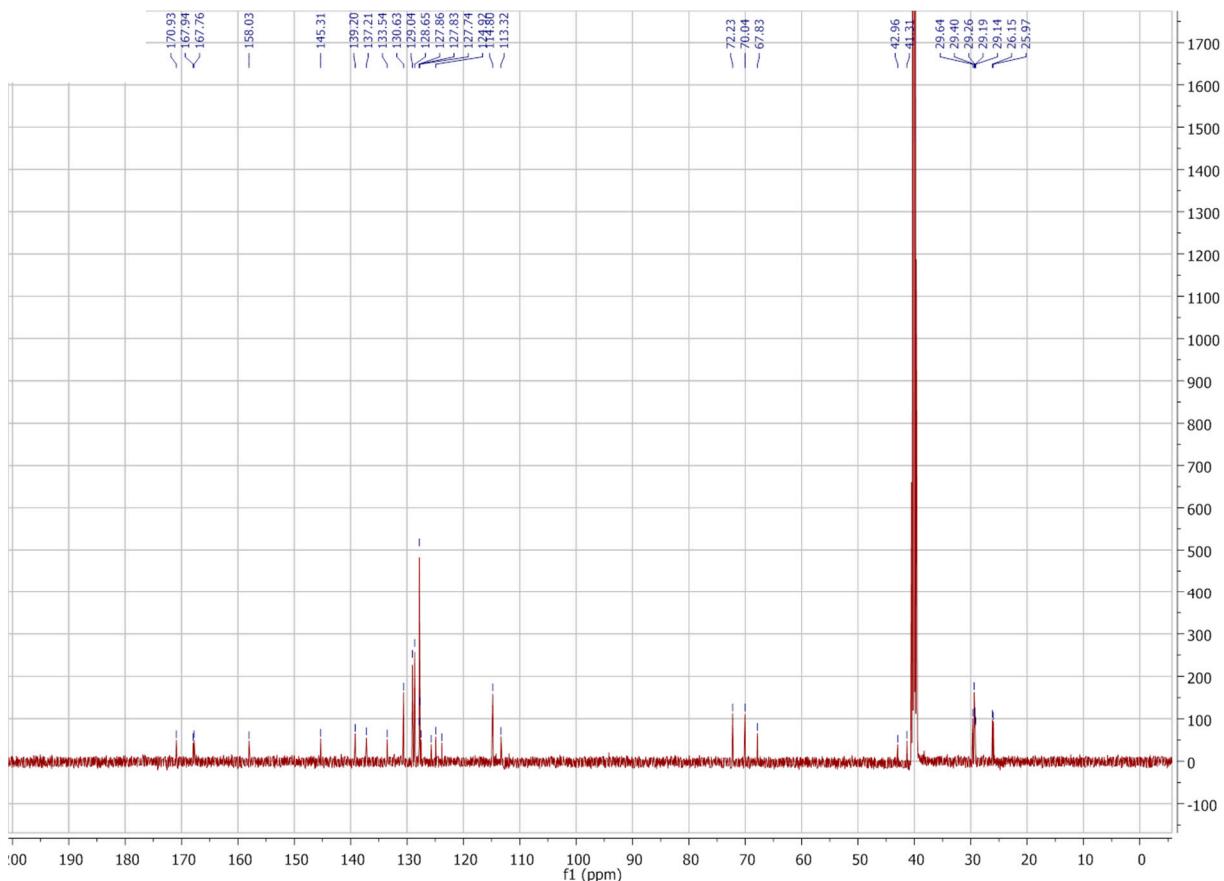


*N-(2-benzyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl)-2-(4-{[10-(benzyloxy)decyl]oxy}phenyl)acetamide (12j; ZHAWOC6932)*

NMR

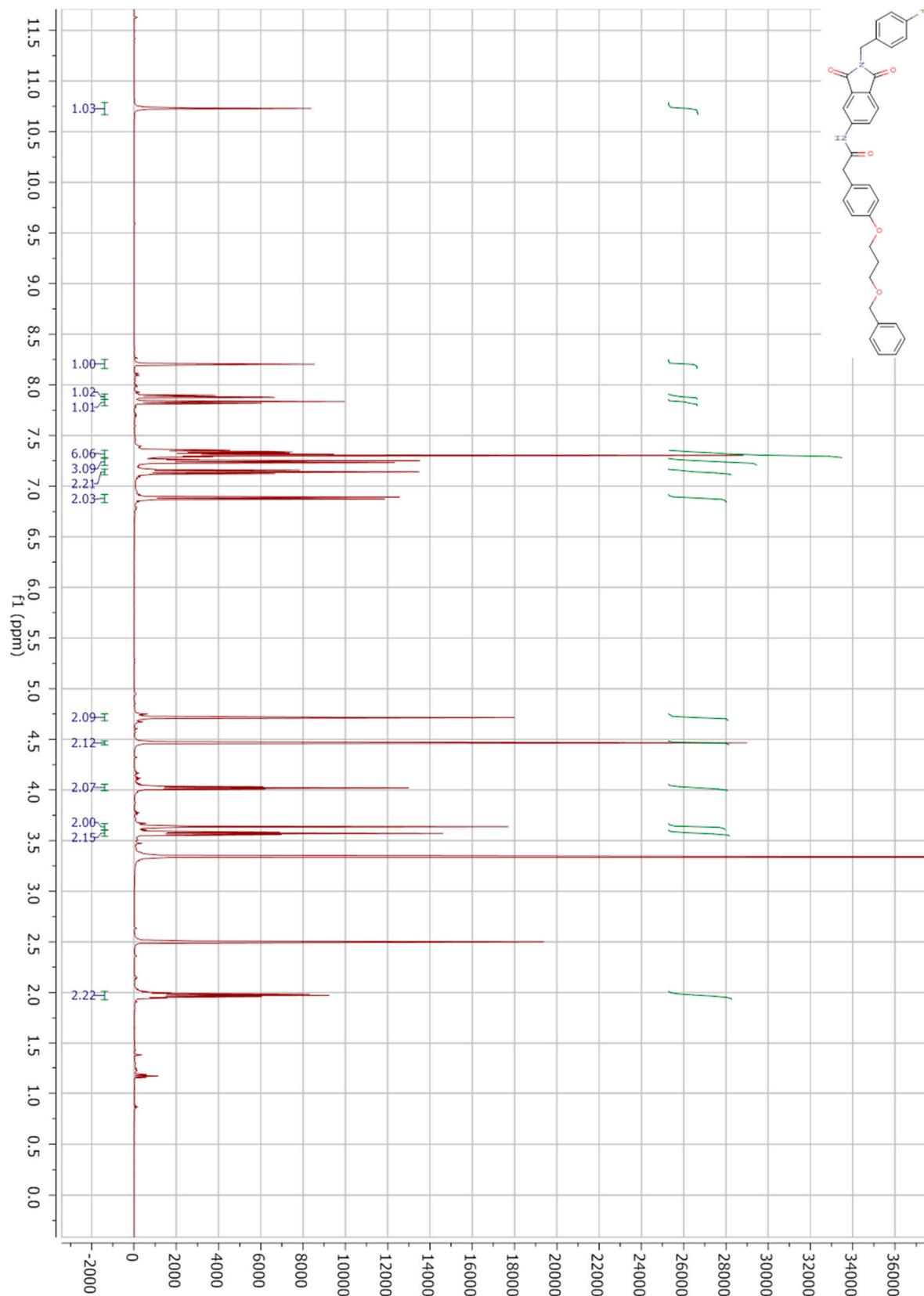


N-(2-benzyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl)-2-(4-[[10-(benzyloxy)decyl]oxy]phenyl)acetamide (**12j**; ZHAWOC6932)

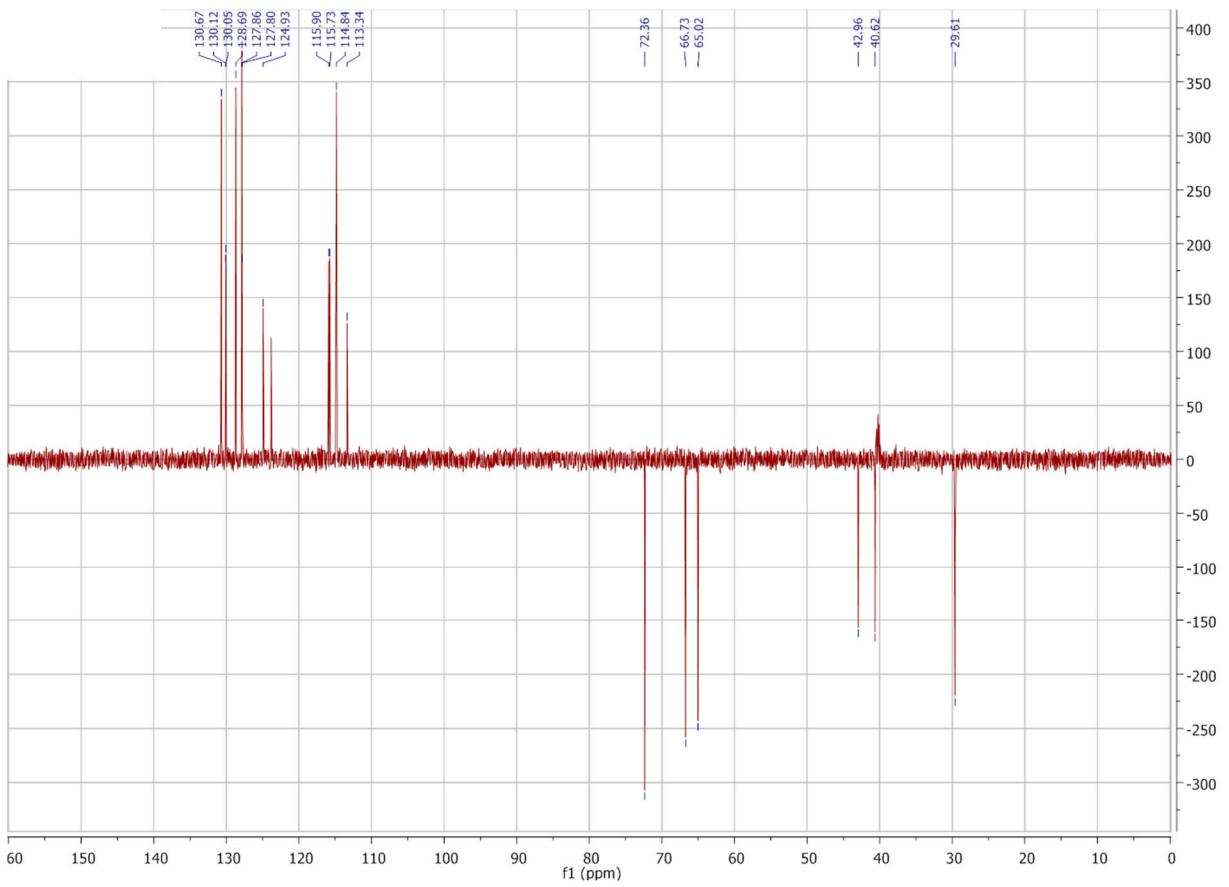
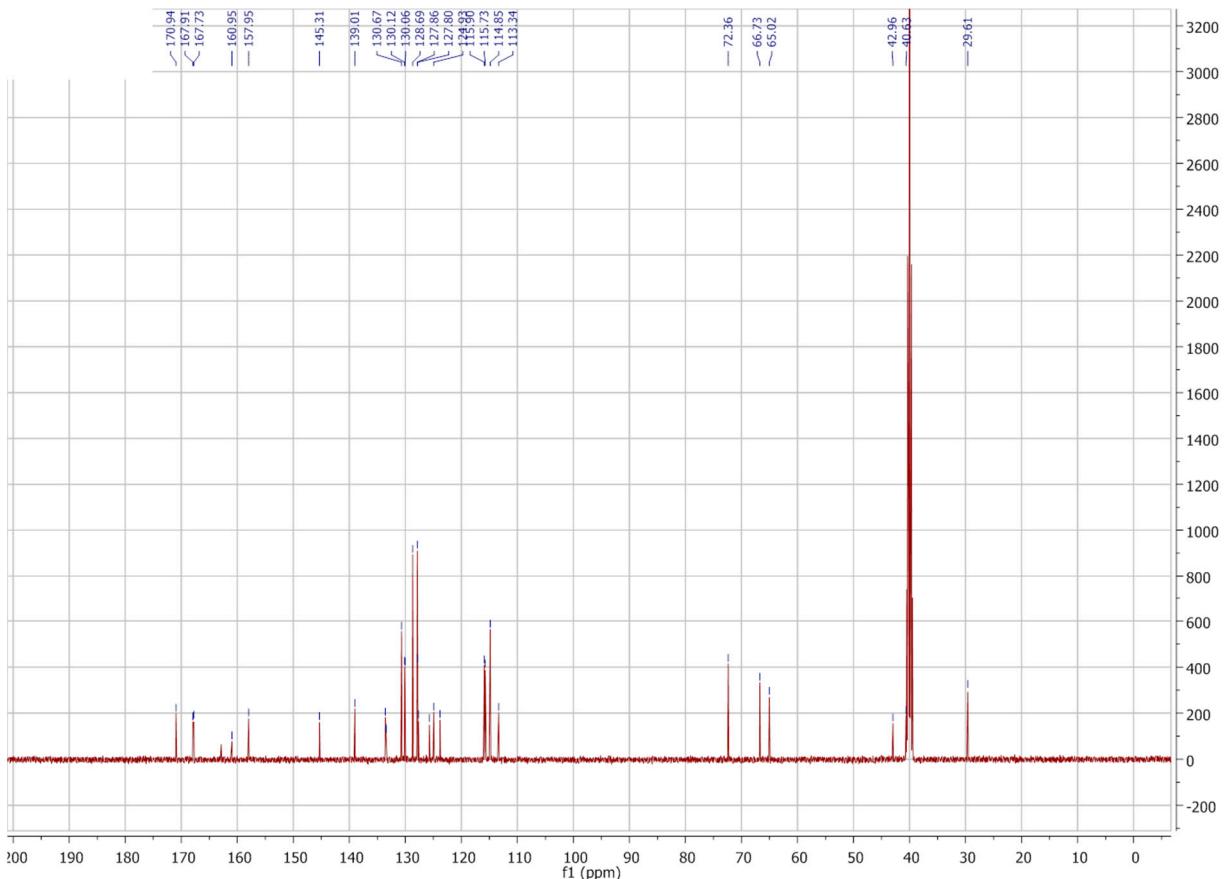


2-{4-[3-(benzyloxy)propoxy]phenyl}-N-{2-[(4-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl}acetamide (12k**; ZHAWOC6641)**

NMR

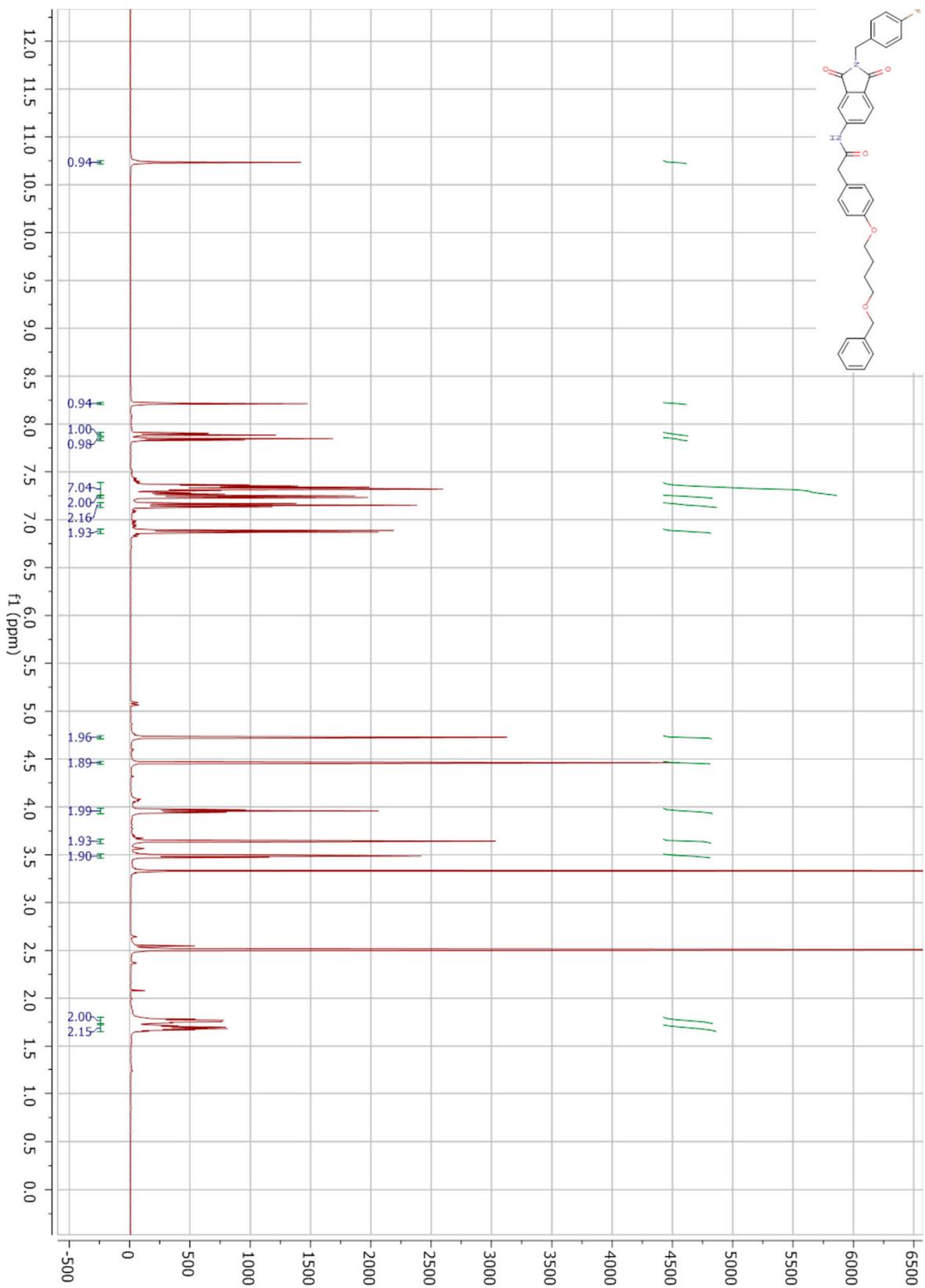


2-{4-[3-(benzyloxy)propoxy]phenyl}-N-{2-[(4-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl}acetamide (12k; ZHAWOC6641)

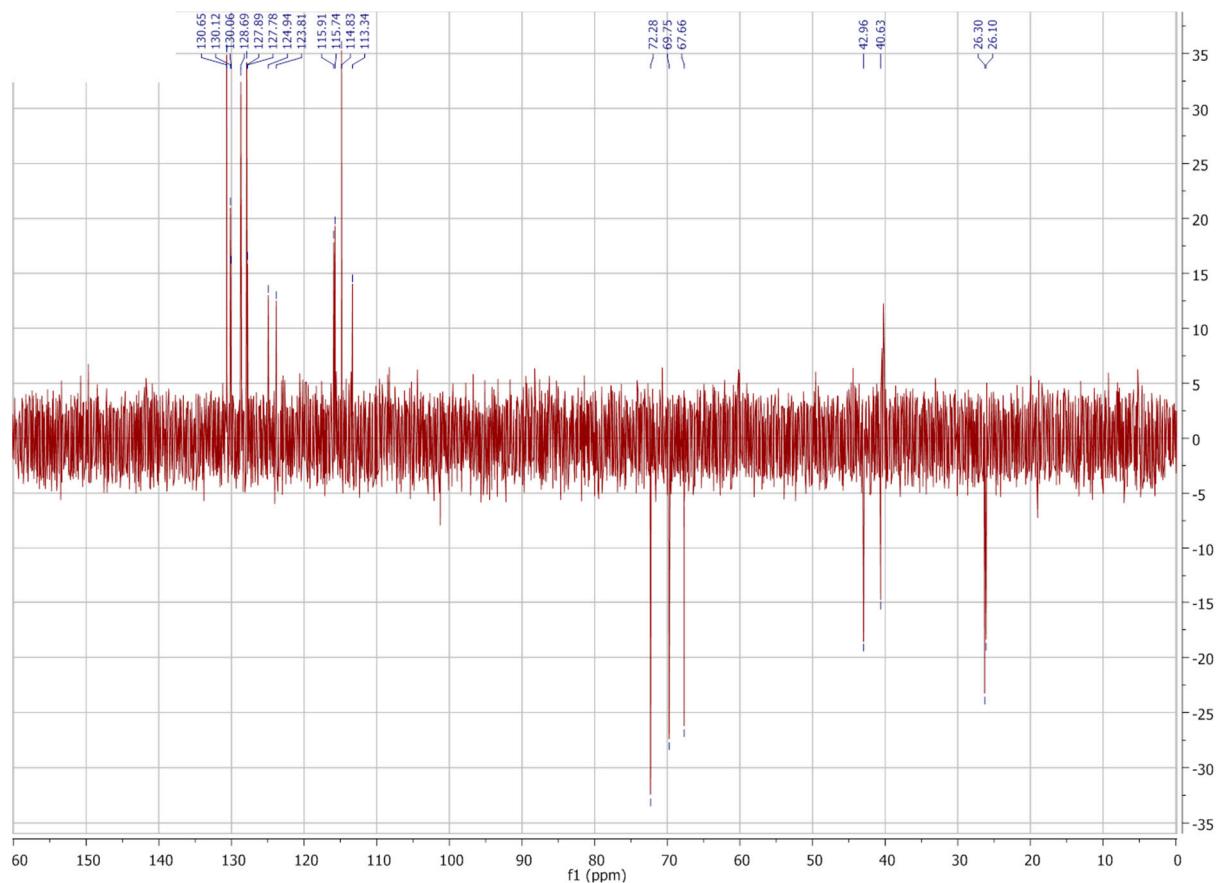
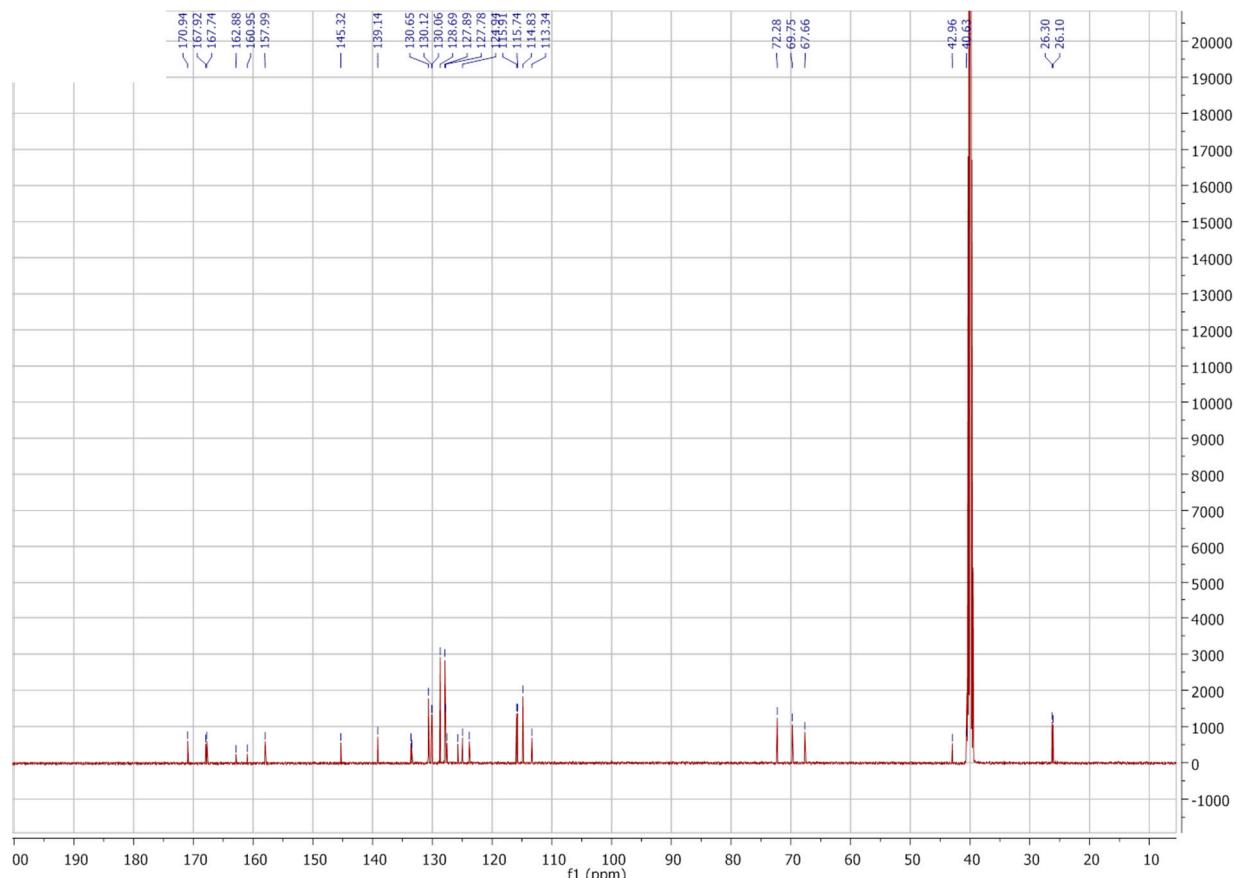


2-{4-[4-(benzyloxy)butoxy]phenyl}-N-{2-[(4-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl}acetamide (12I; ZHAWOC7102)

NMR

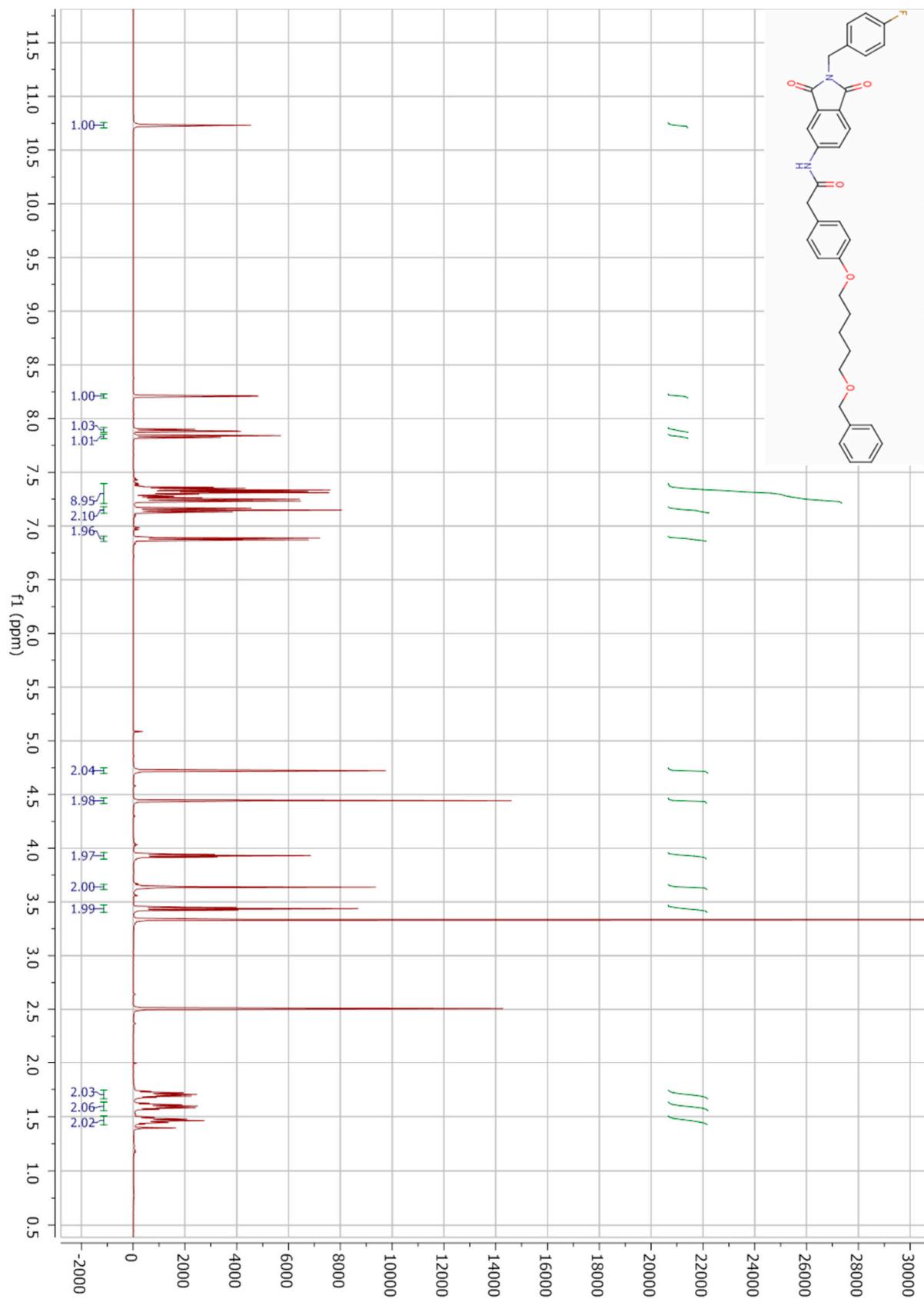


2-{4-[4-(benzyloxy)butoxy]phenyl}-N-{2-[(4-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl}acetamide (12I**; ZHAWOC7102)**

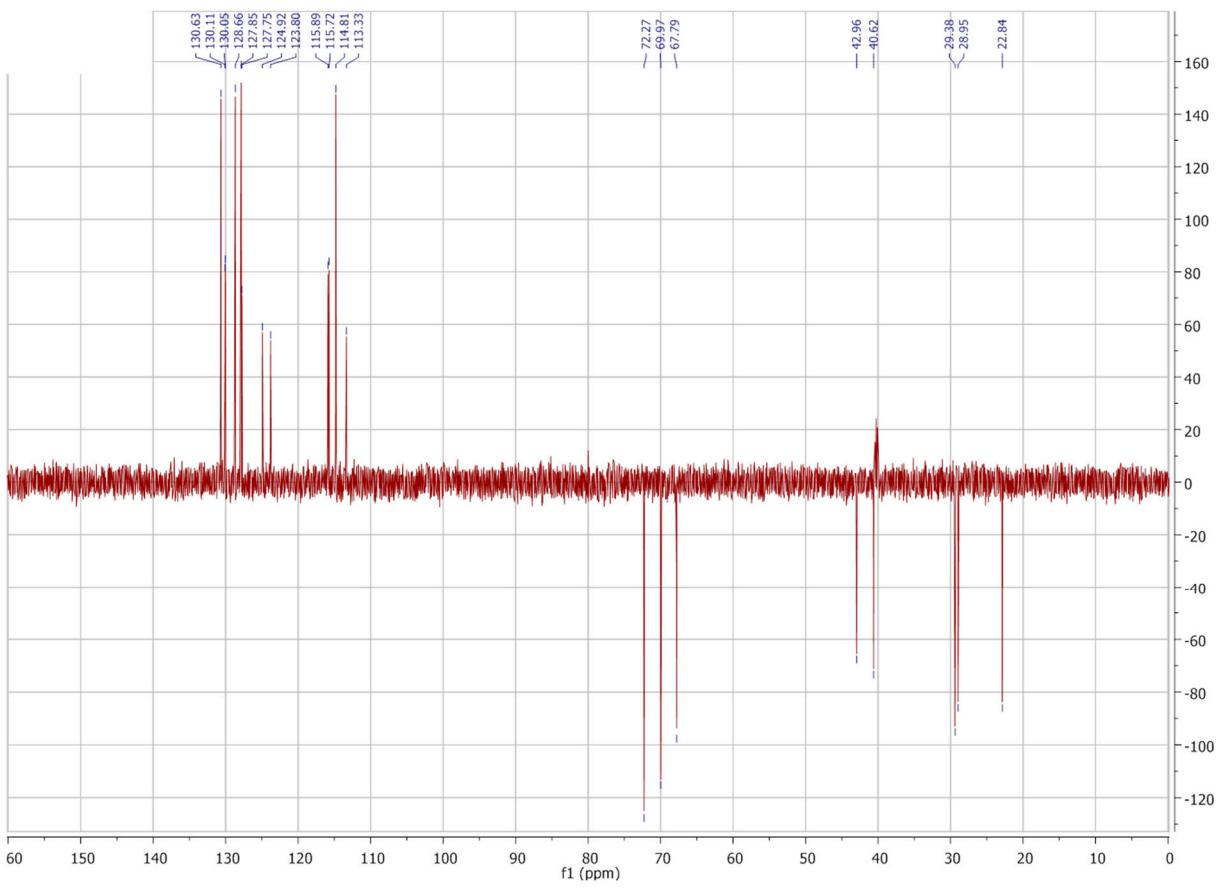
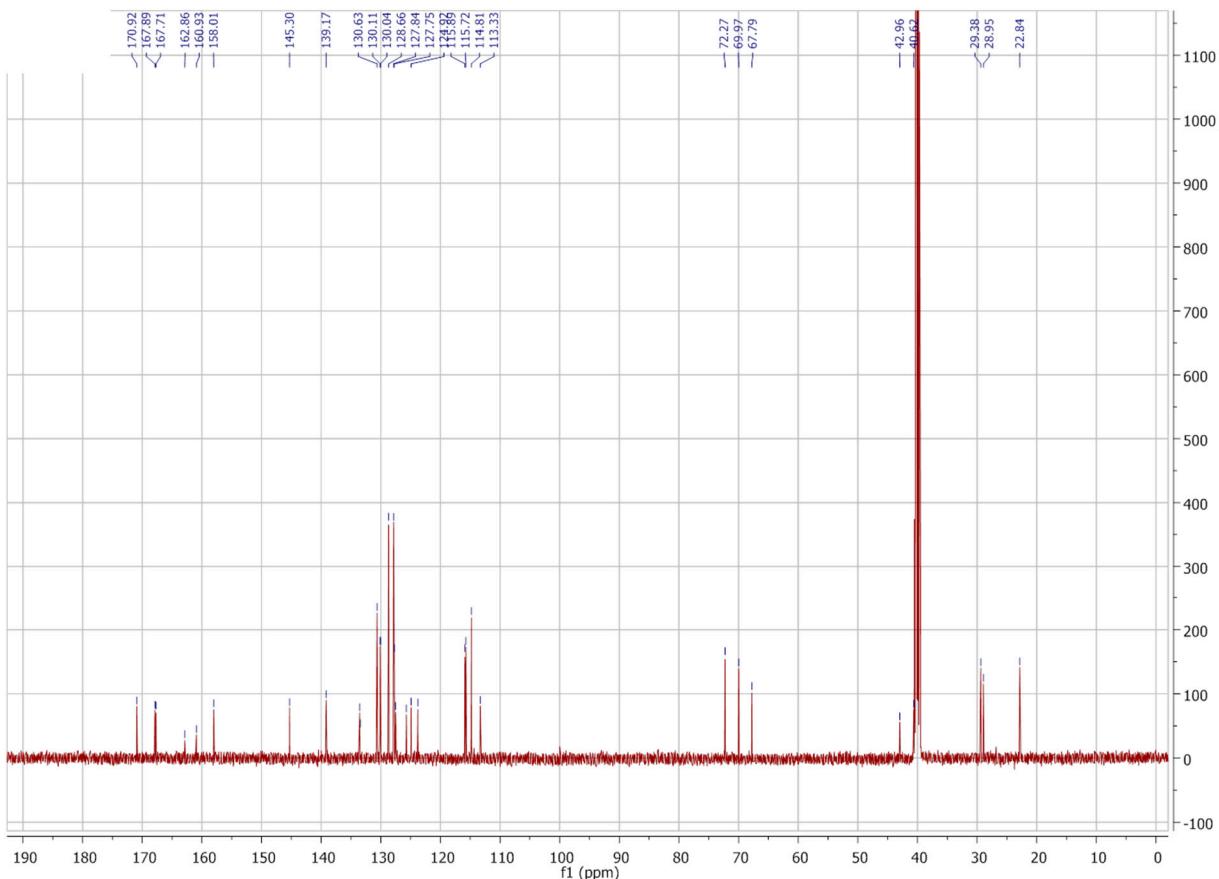


2-(4-{[5-(benzyloxy)pentyl]oxy}phenyl)-N-{2-[(4-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl}acetamide (12m**; ZHAWOC5682)**

NMR

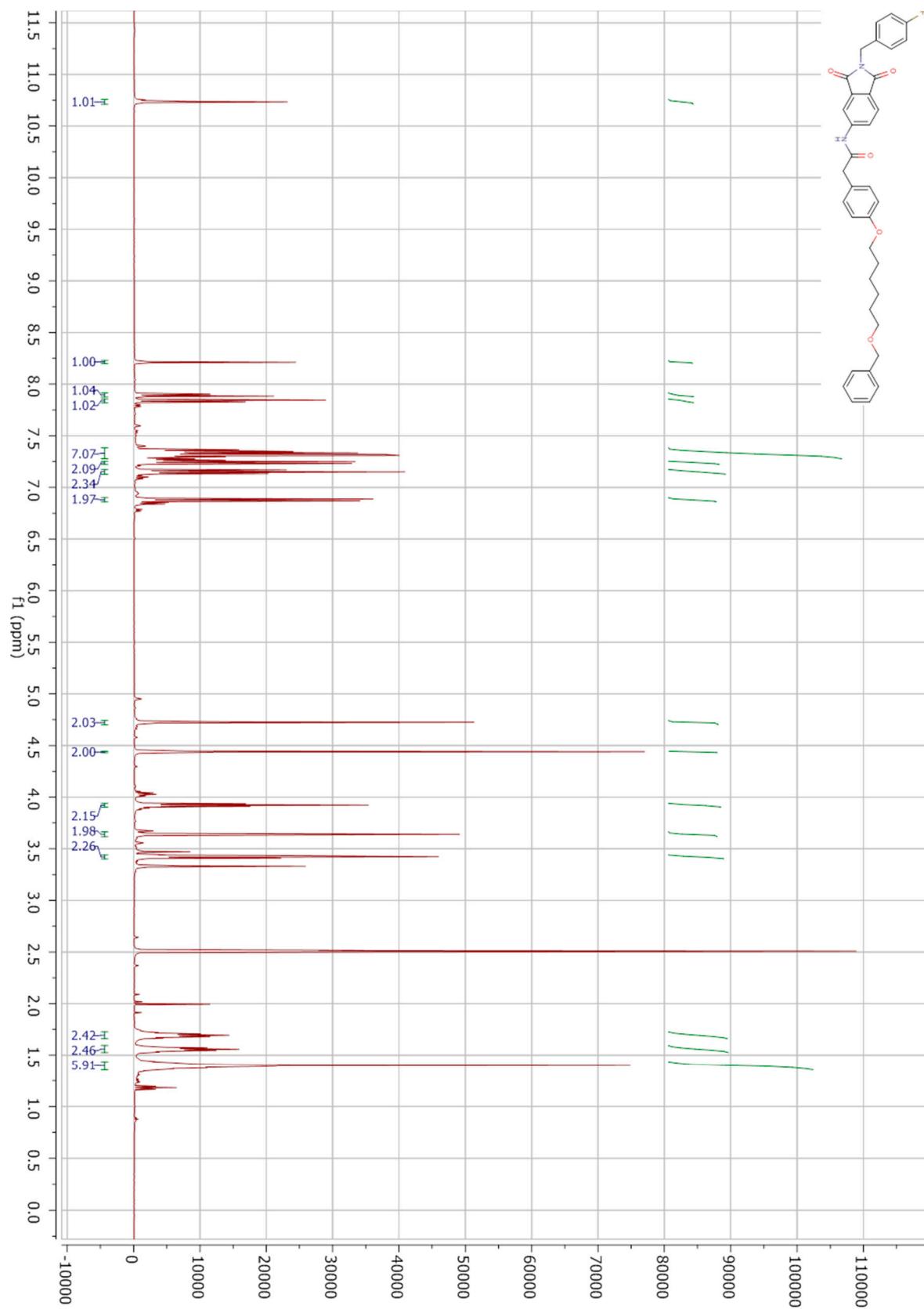


2-(4-{{[5-(benzyloxy)pentyl]oxy}phenyl}-N-{2-[(4-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl}acetamide (12m; ZHAWOC5682)

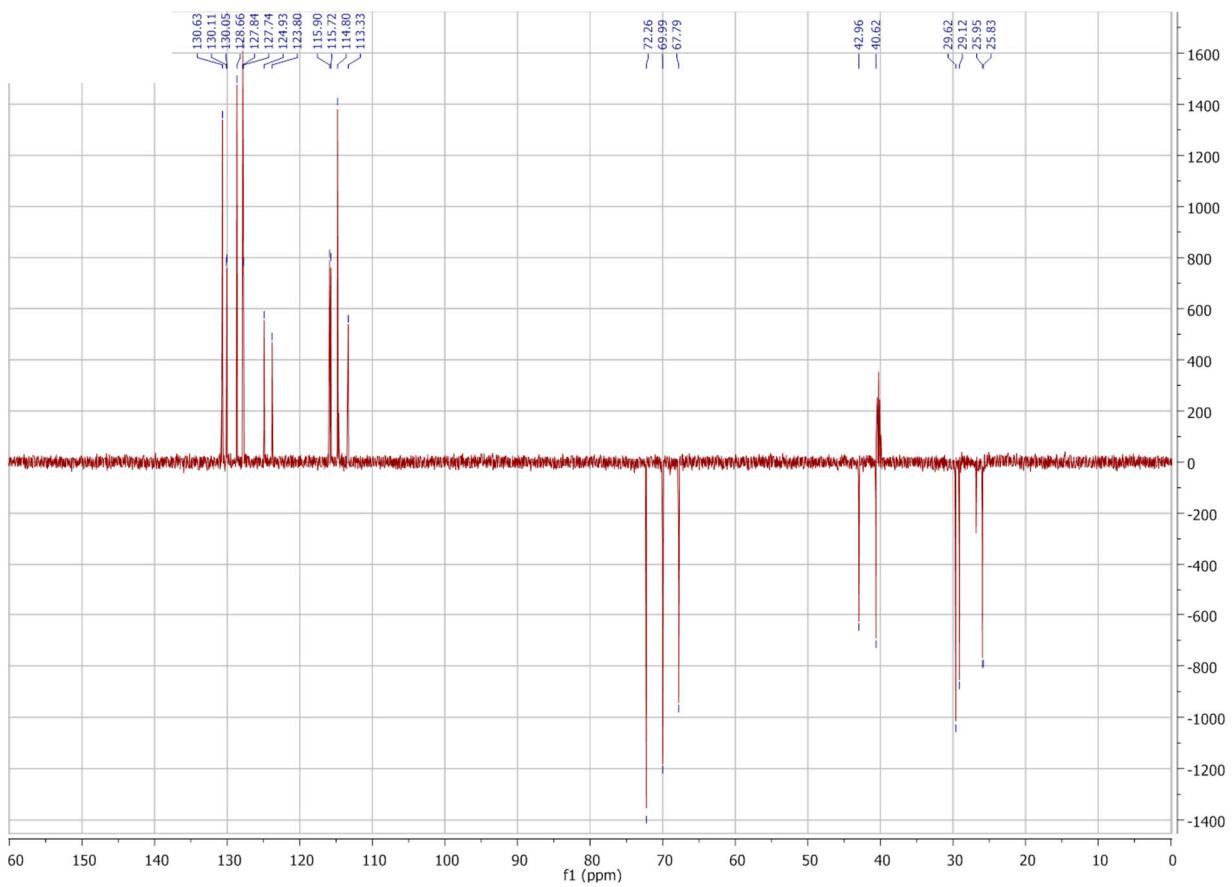
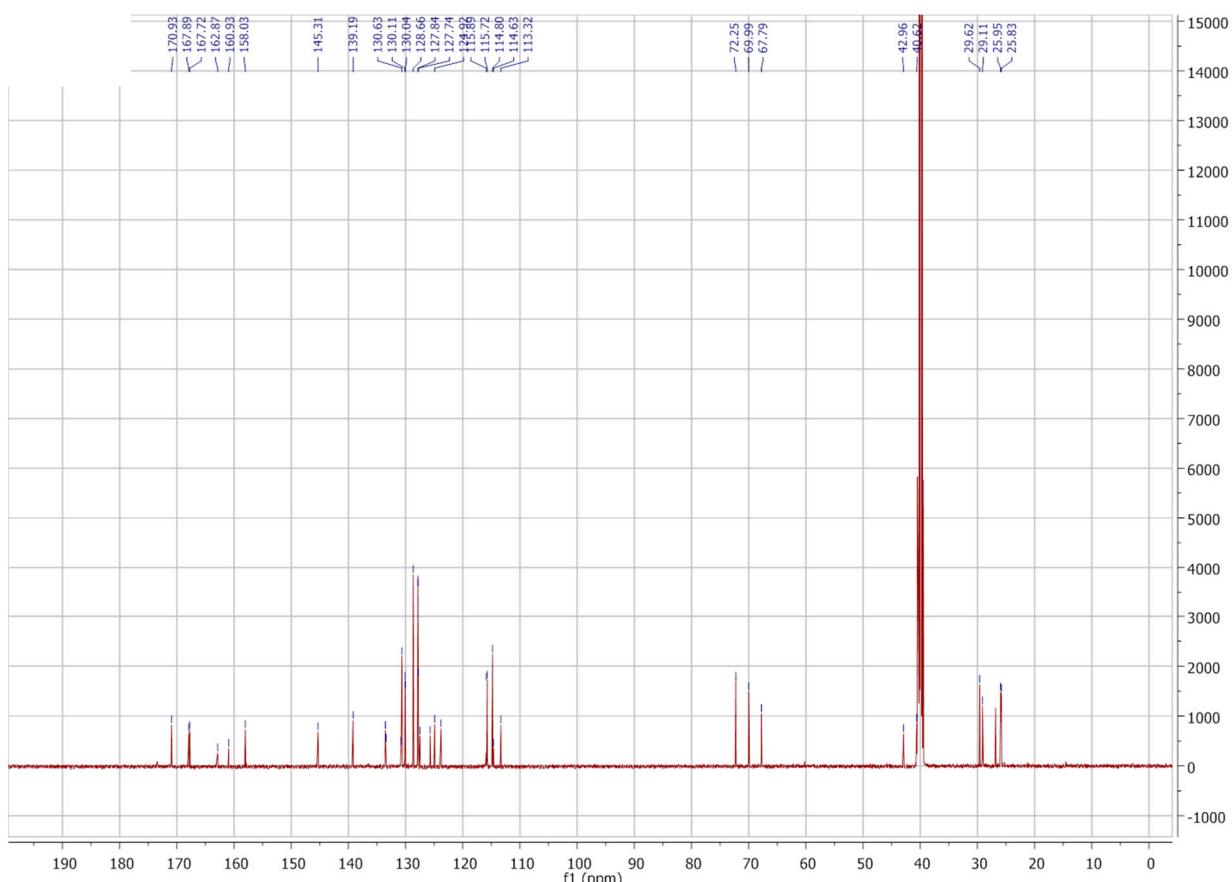


2-(4-{{[6-(benzyloxy)hexyl]oxy}phenyl}-N-{2-[(4-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl}acetamide (12n**; ZHAWOC6640)**

NMR

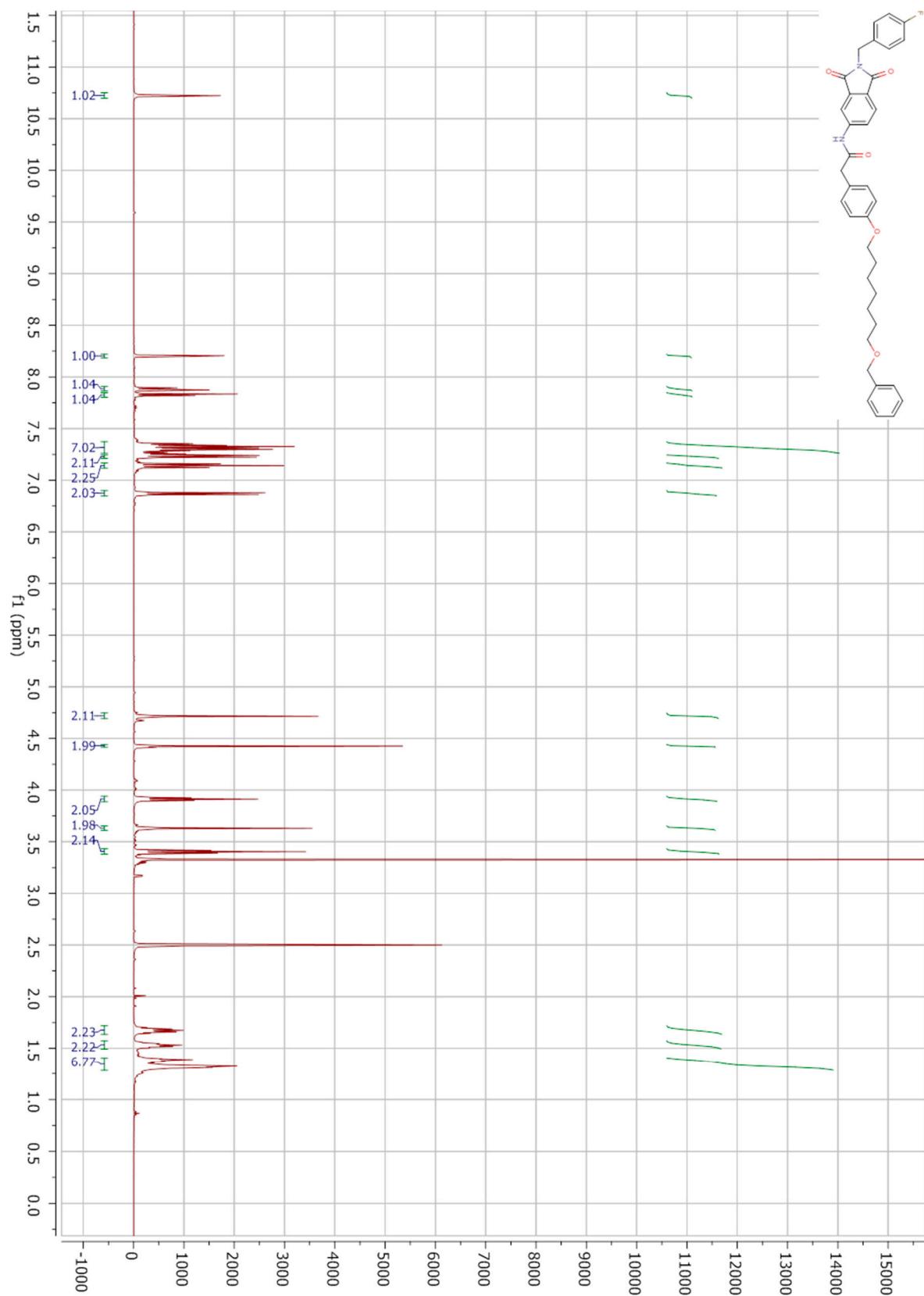


2-(4-{[6-(benzyloxy)hexyl]oxy}phenyl)-N-{2-[(4-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl}acetamide (12n**; ZHAWOC6640)**

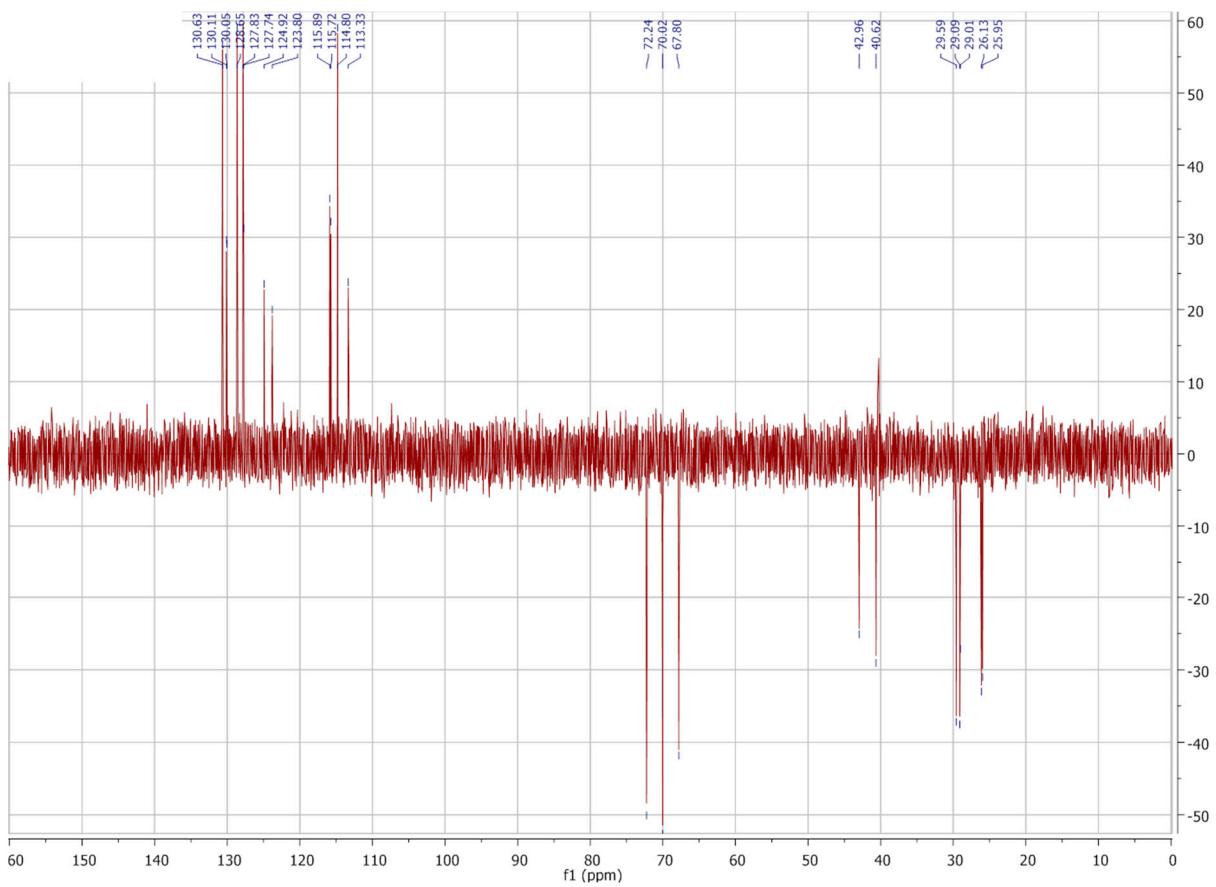
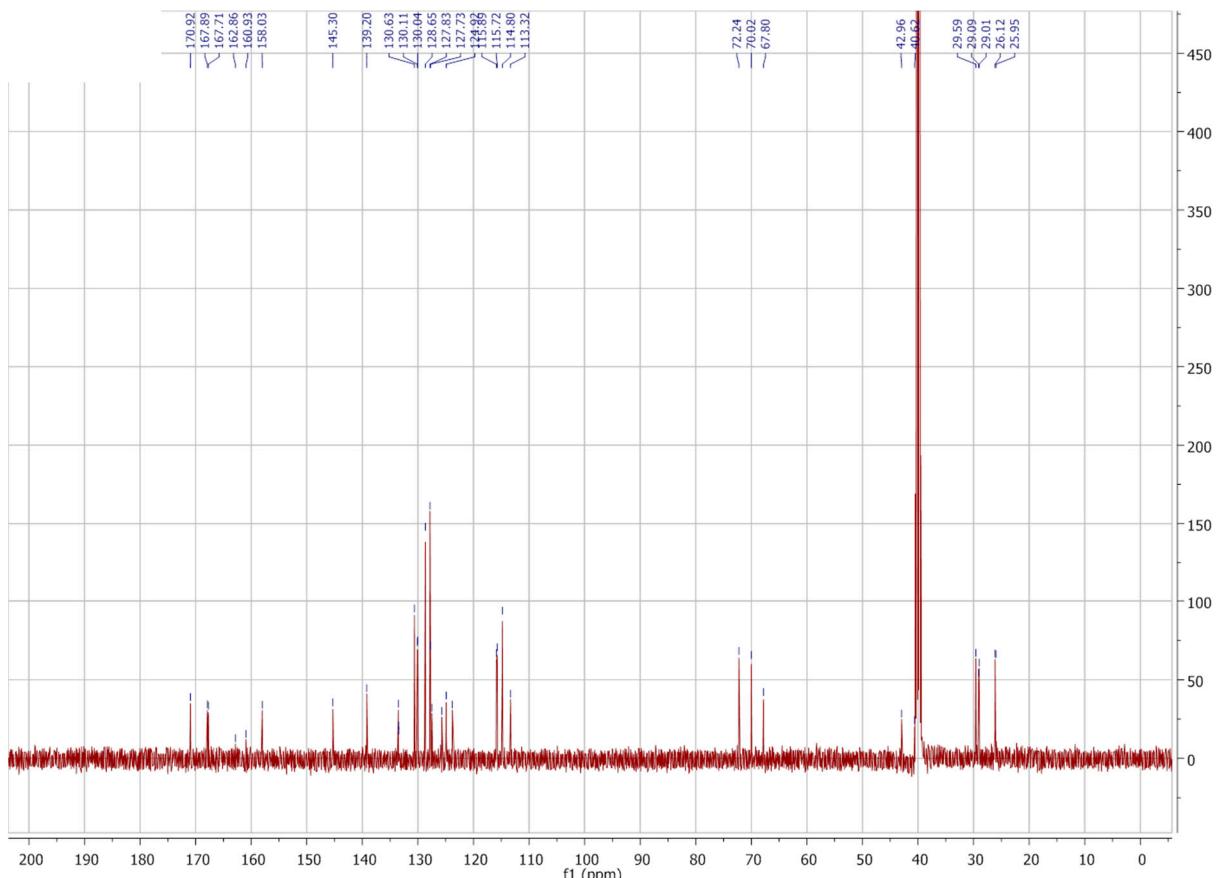


2-(4-{[7-(benzyloxy)heptyl]oxy}phenyl)-N-{2-[(4-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl}acetamide (**12o**; ZHAWOC6635)

NMR

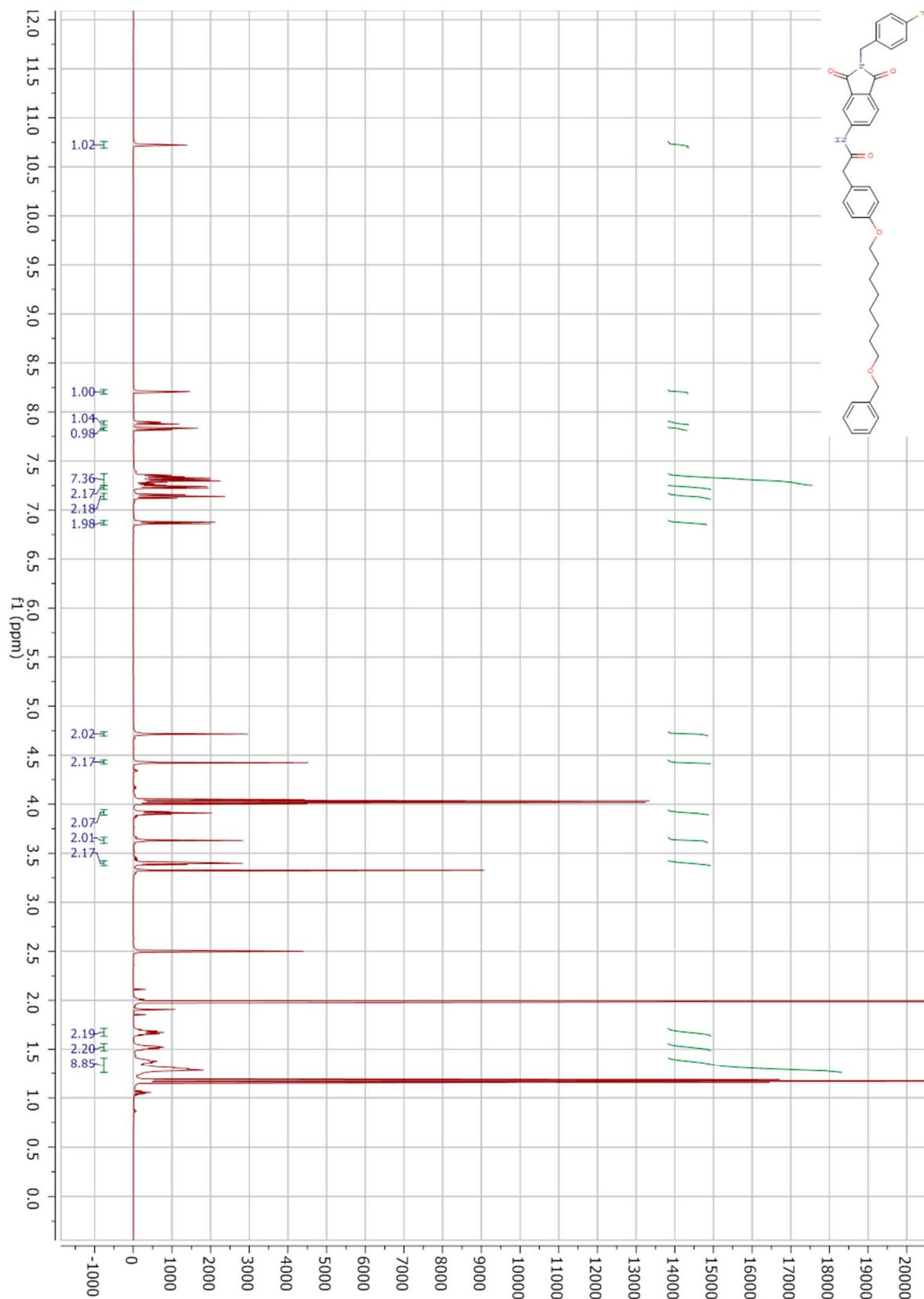


2-(4-{[7-(benzyloxy)heptyl]oxy}phenyl)-N-{2-[(4-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl}acetamide (12o**; ZHAWOC6635)**

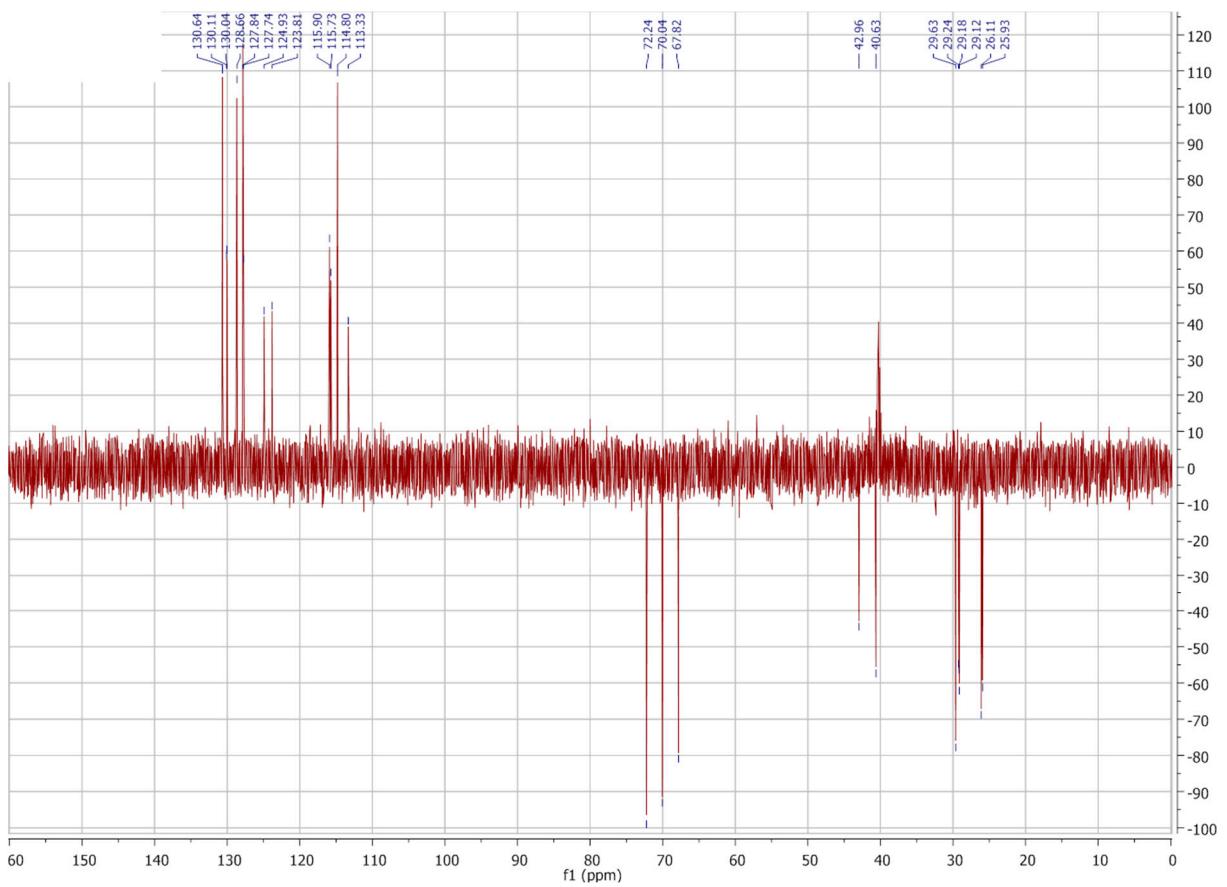
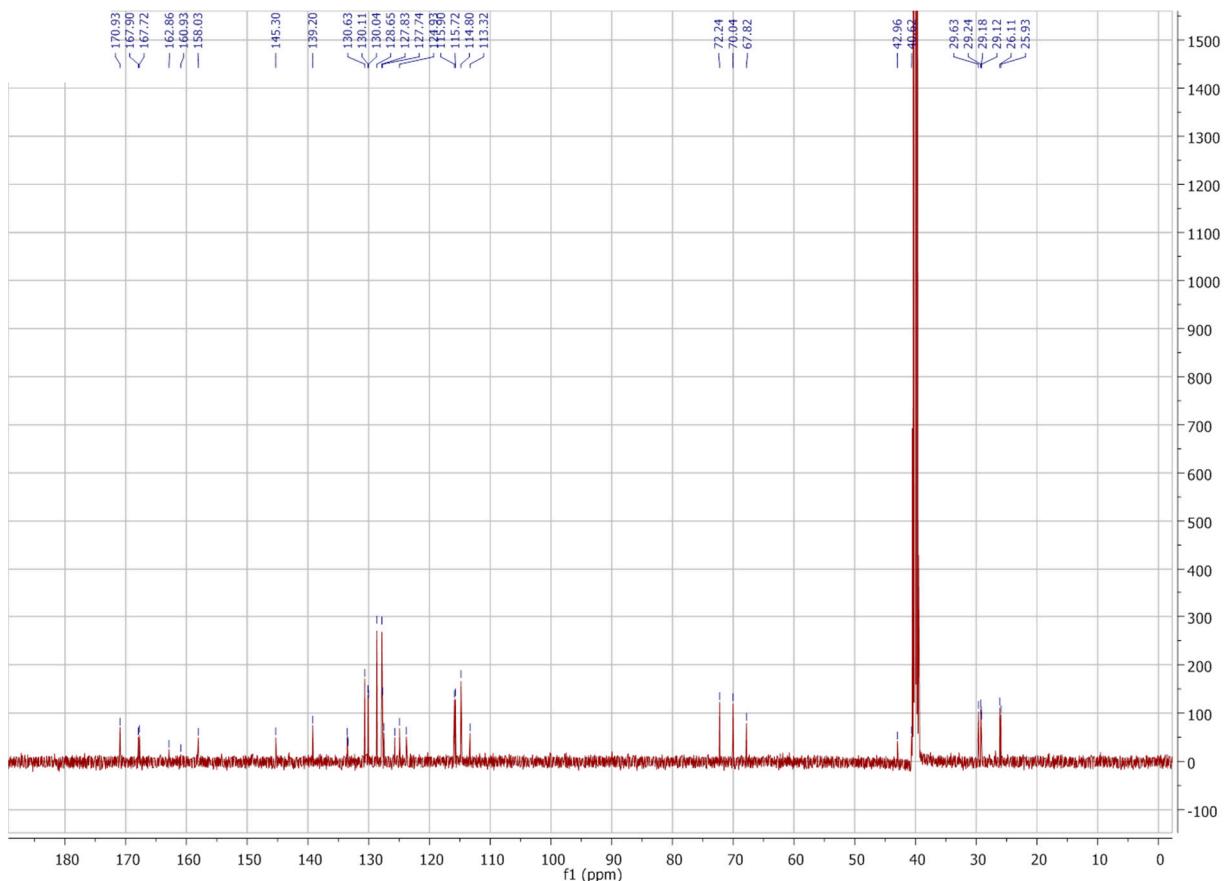


2-(4-{{[8-(benzyloxy)octyl]oxy}phenyl}-N-{2-[(4-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl}acetamide (12p**; ZHAWOC6638)**

NMR

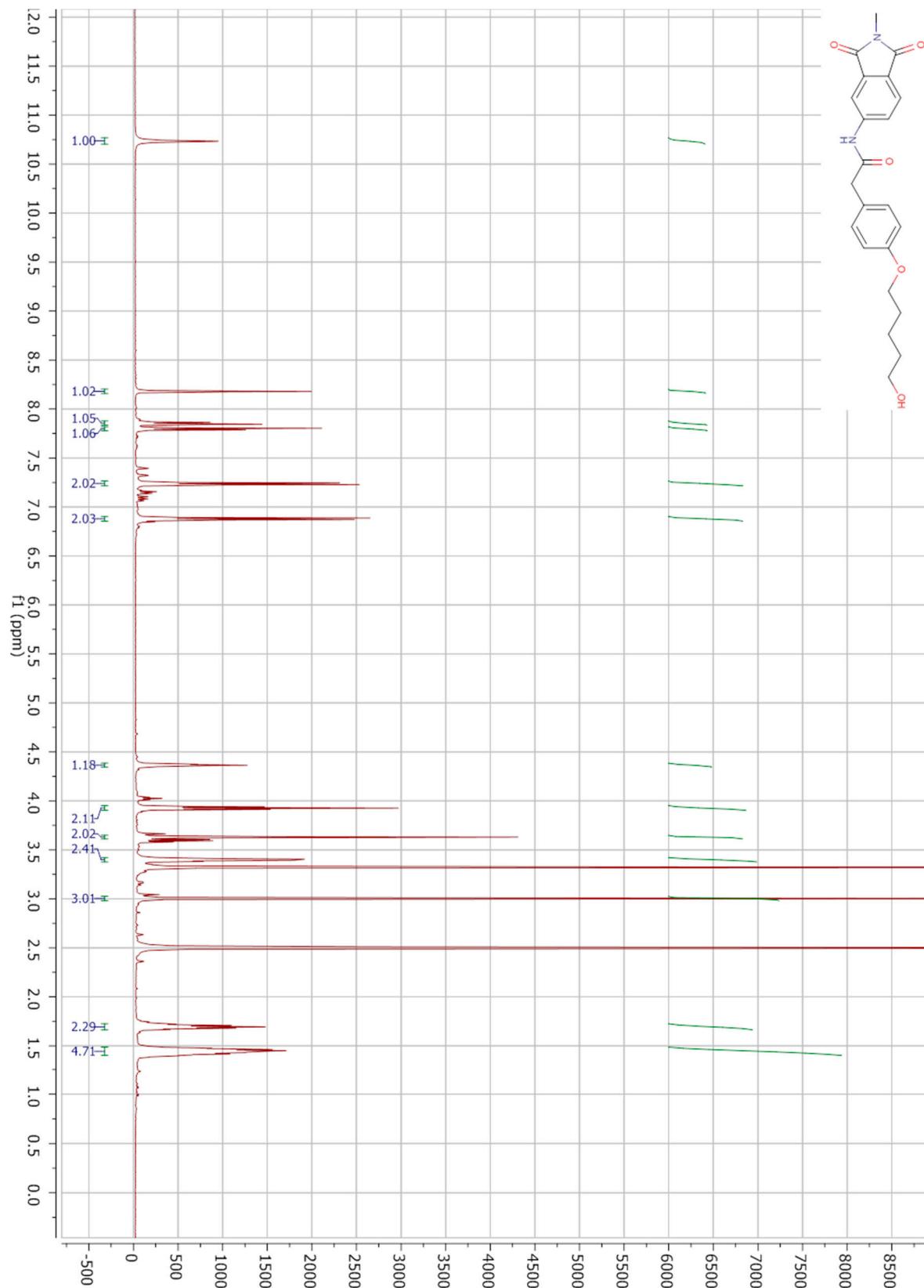


2-(4-{[8-(benzyloxy)octyl]oxy}phenyl)-N-{2-[(4-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl}acetamide (12p; ZHAWOC6638)

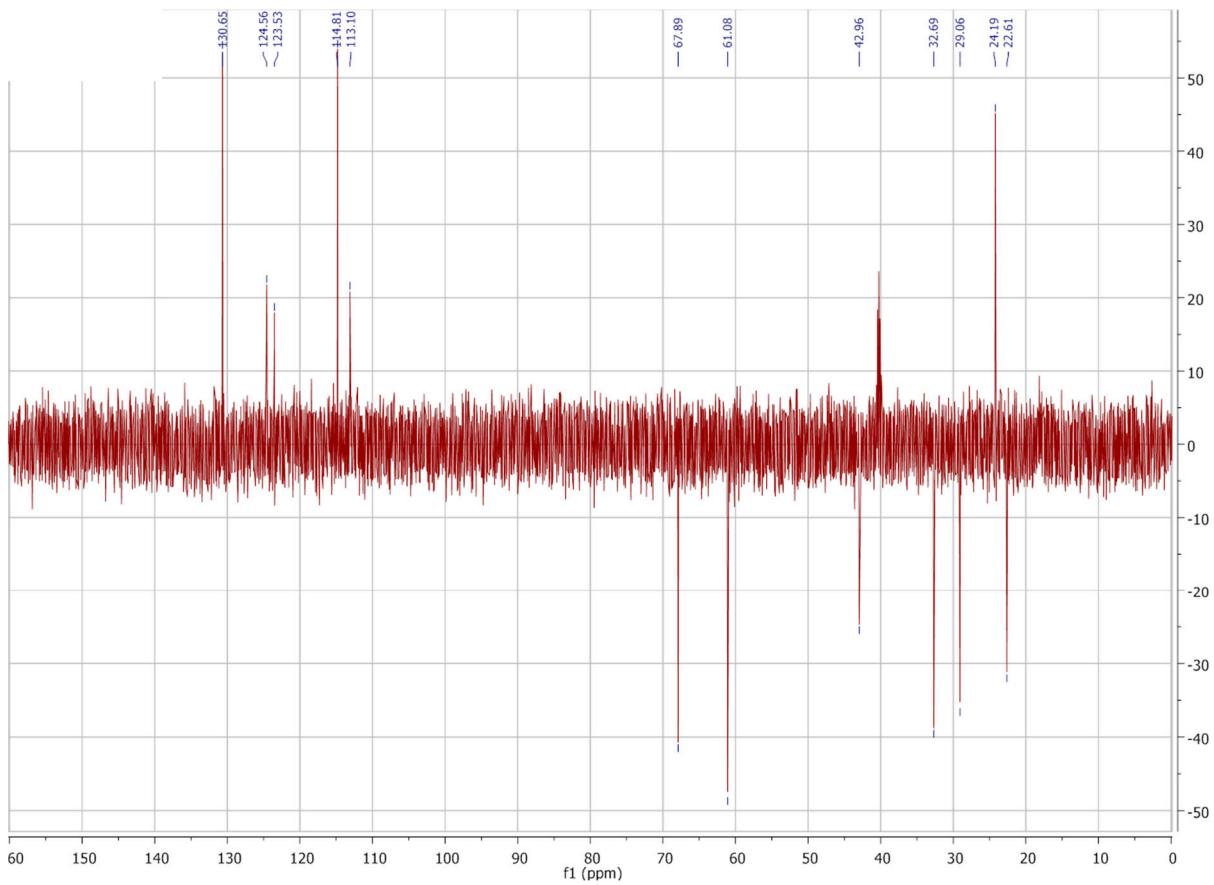
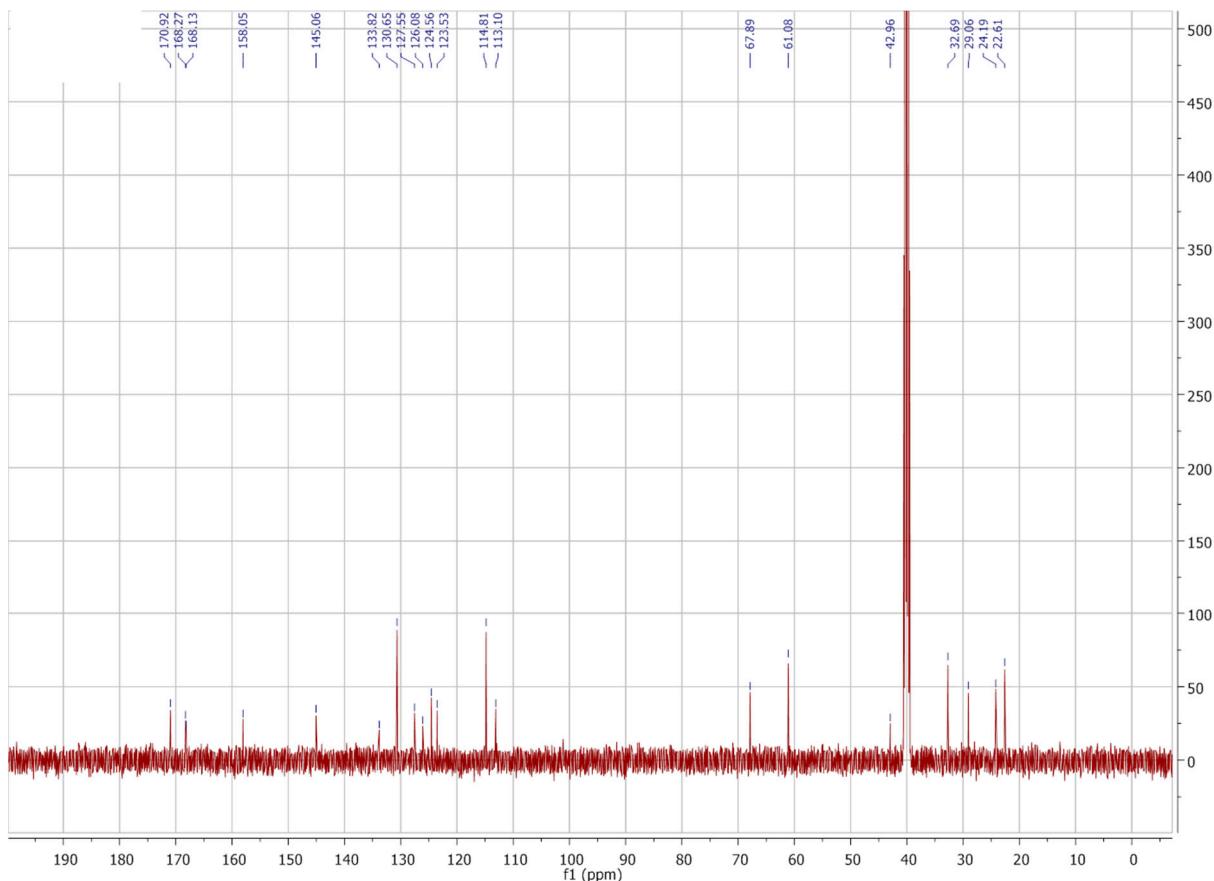


2-{4-[{(5-hydroxypentyl)oxy]phenyl}-N-(2-methyl-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl)acetamide (13a**; ZHAWOC6648)**

NMR

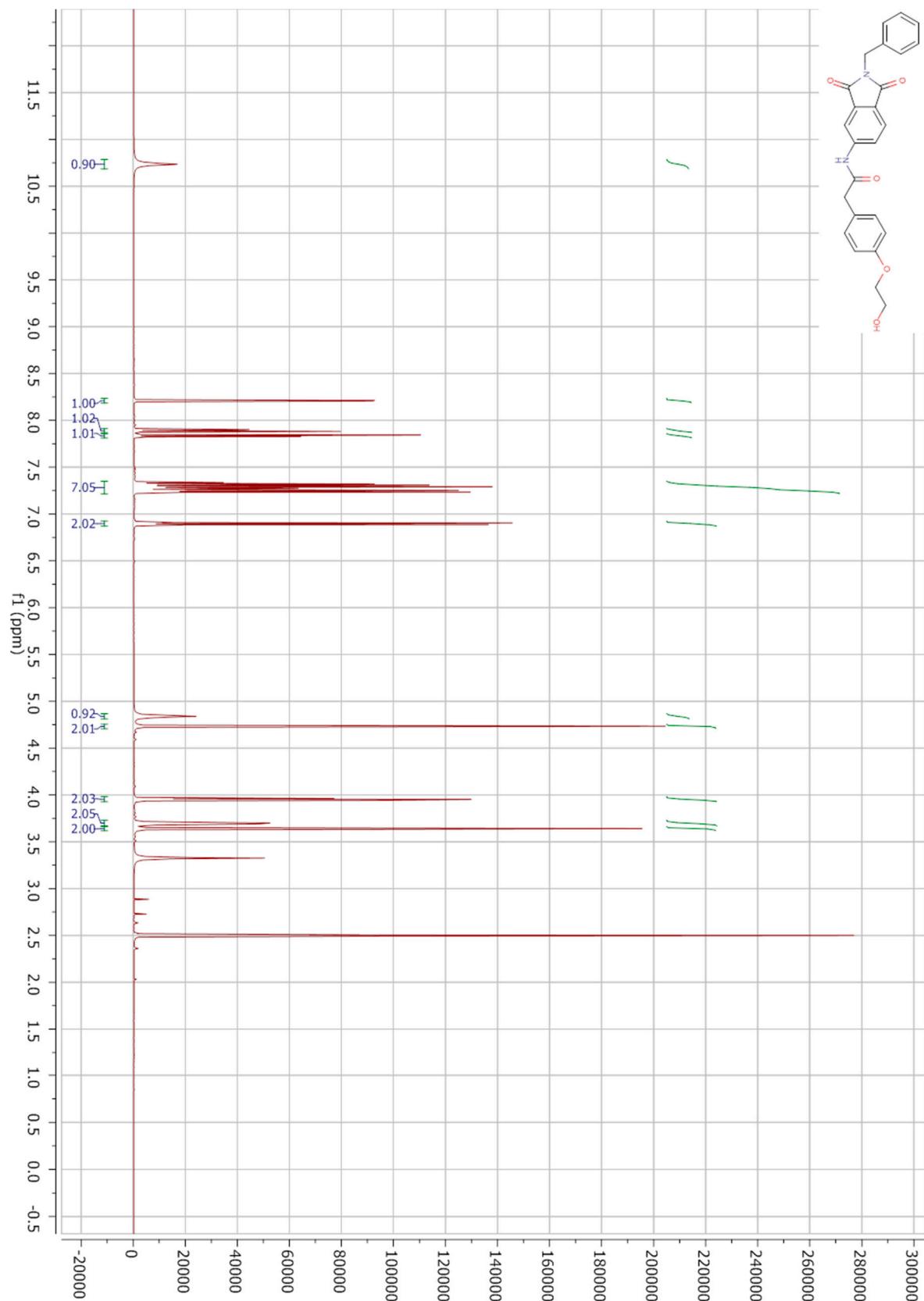


2-{4-[(5-hydroxypentyl)oxy]phenyl}-N-(2-methyl-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl)acetamide (13a**; ZHAWOC6648)**

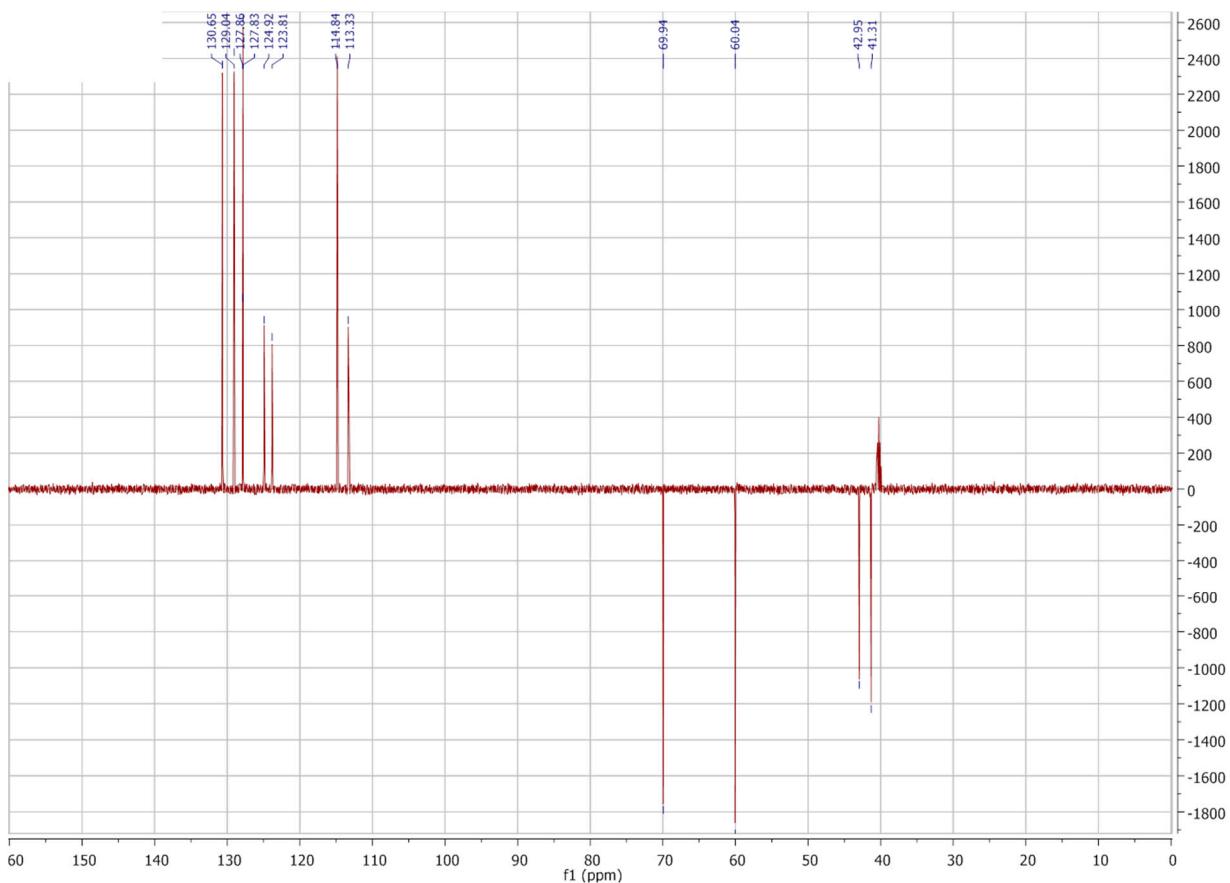
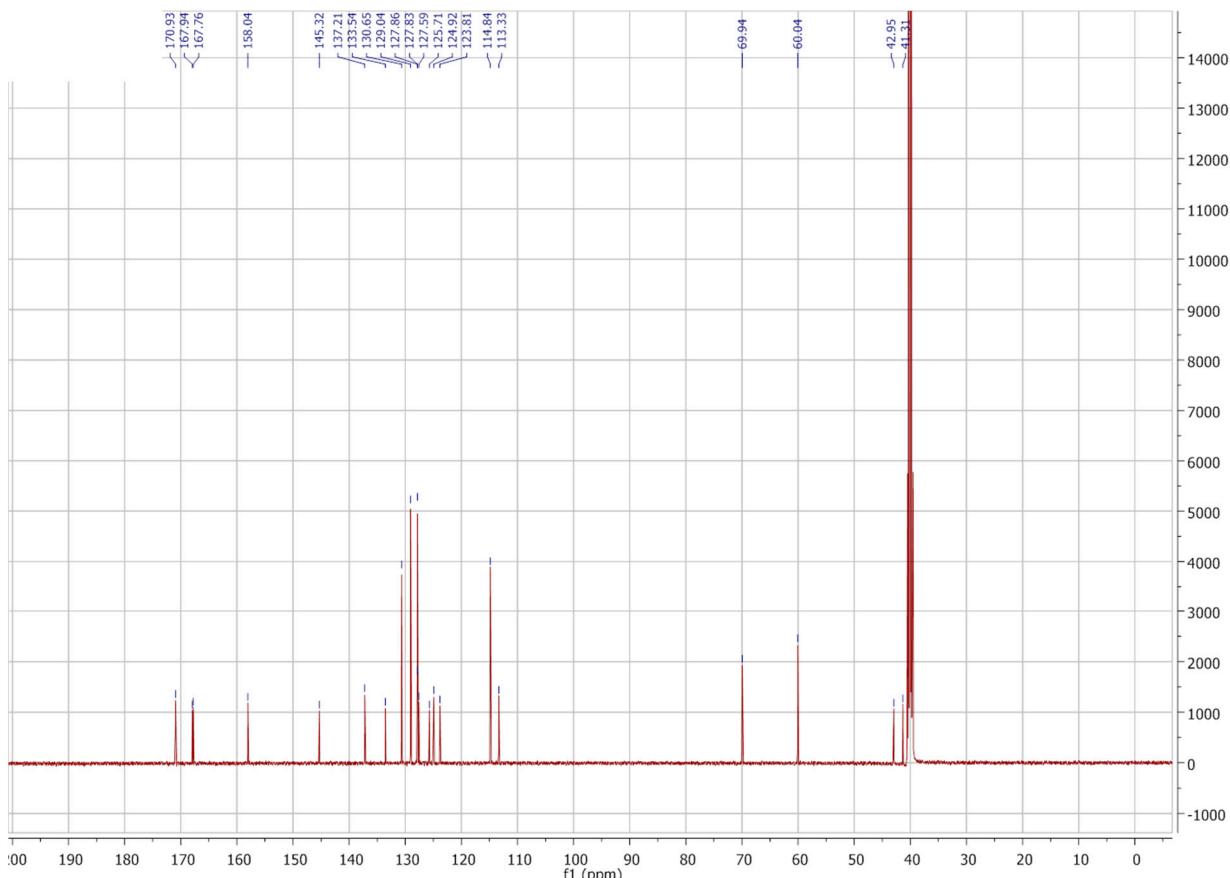


*N-(2-benzyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl)-2-[4-(2-hydroxyethoxy)phenyl]acetamide (**13b**; ZHAWOC5473)*

NMR

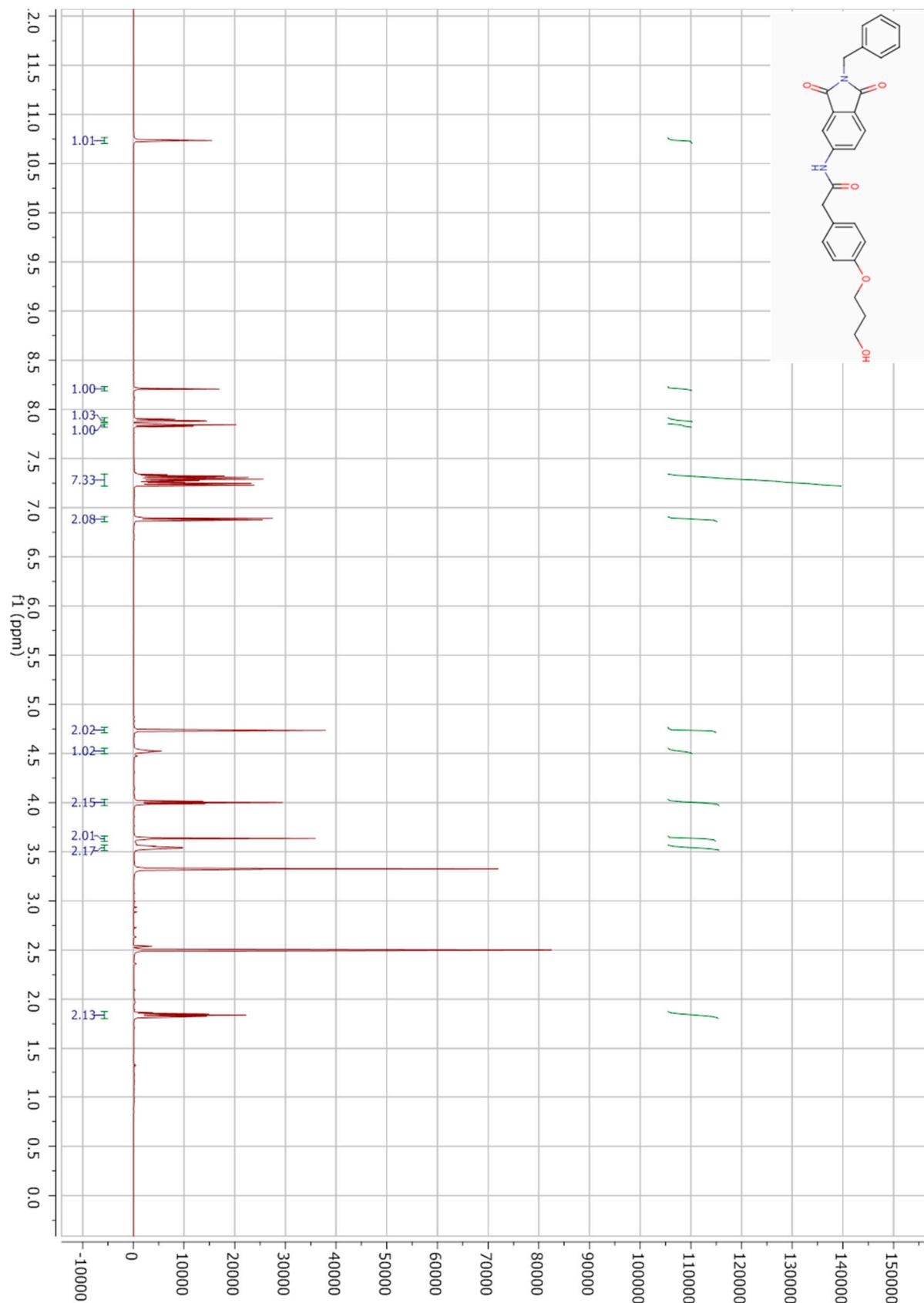


*N-(2-benzyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl)-2-[4-(2-hydroxyethoxy)phenyl]acetamide (**13b**; ZHAWOC5473)*

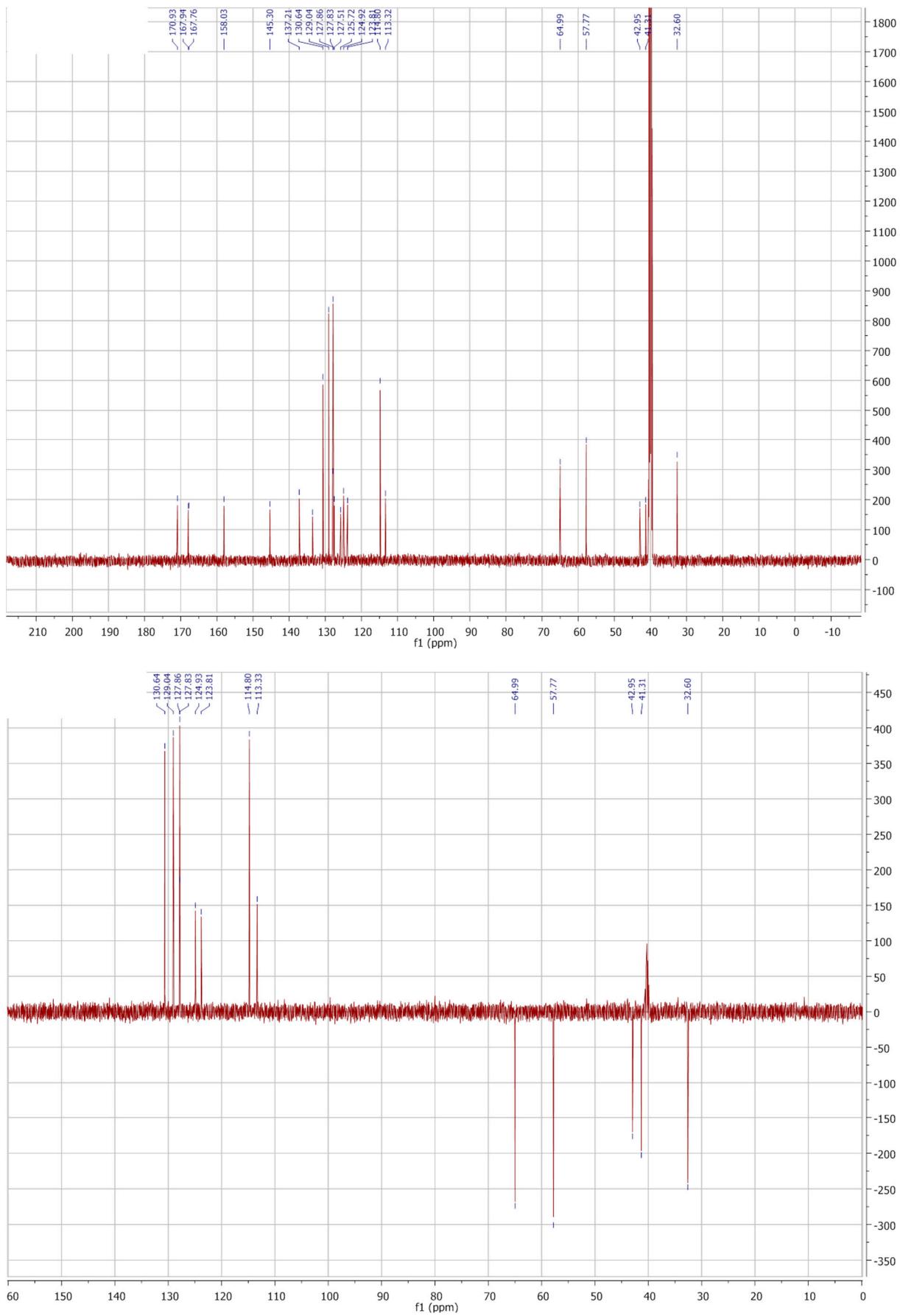


*N-(2-benzyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl)-2-[4-(3-hydroxypropoxy)phenyl]acetamide (**13c**; ZHAWOC4512)*

NMR

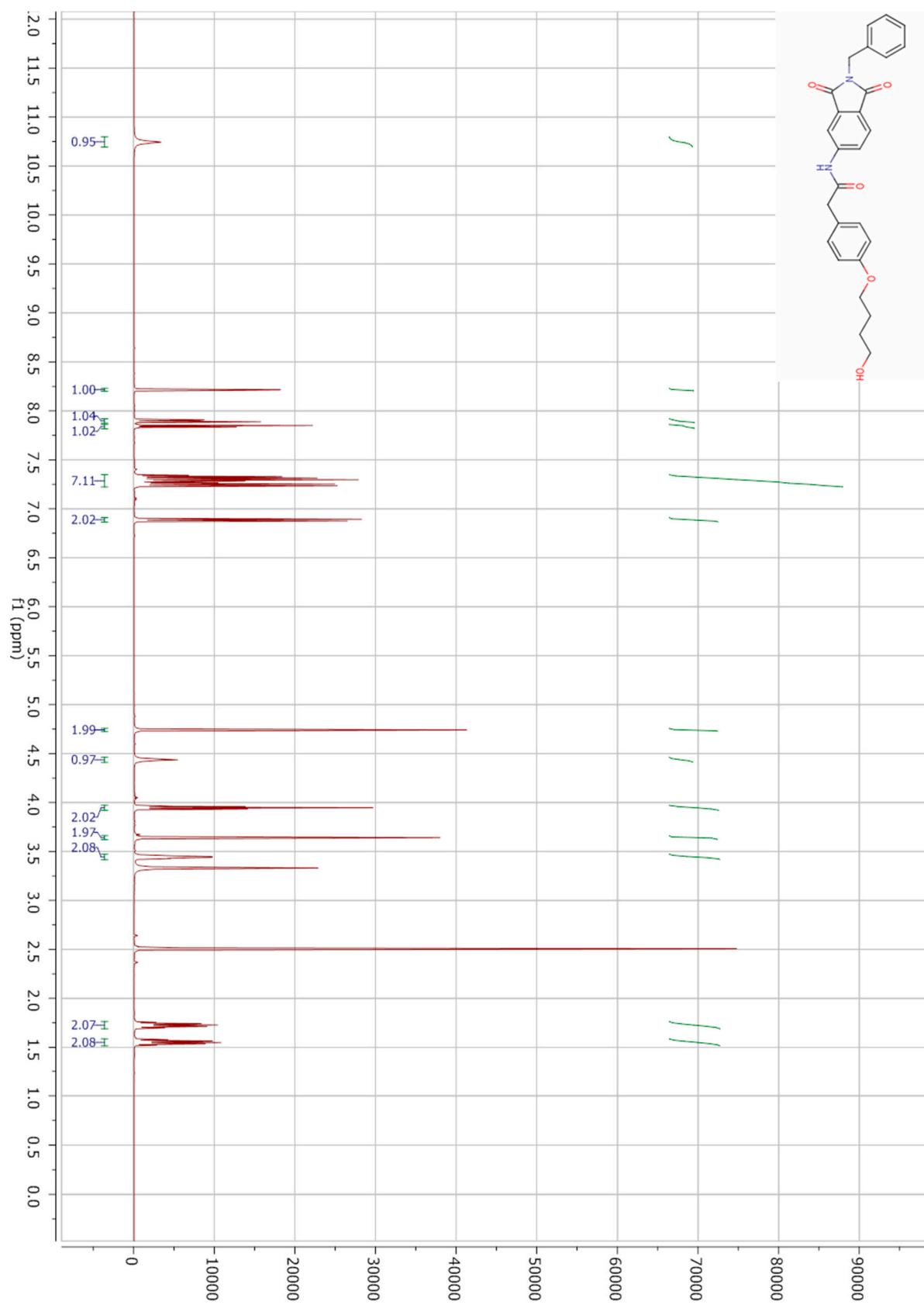


*N-(2-benzyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl)-2-[4-(3-hydroxypropoxy)phenyl]acetamide (13c; ZHAWOC4512)*

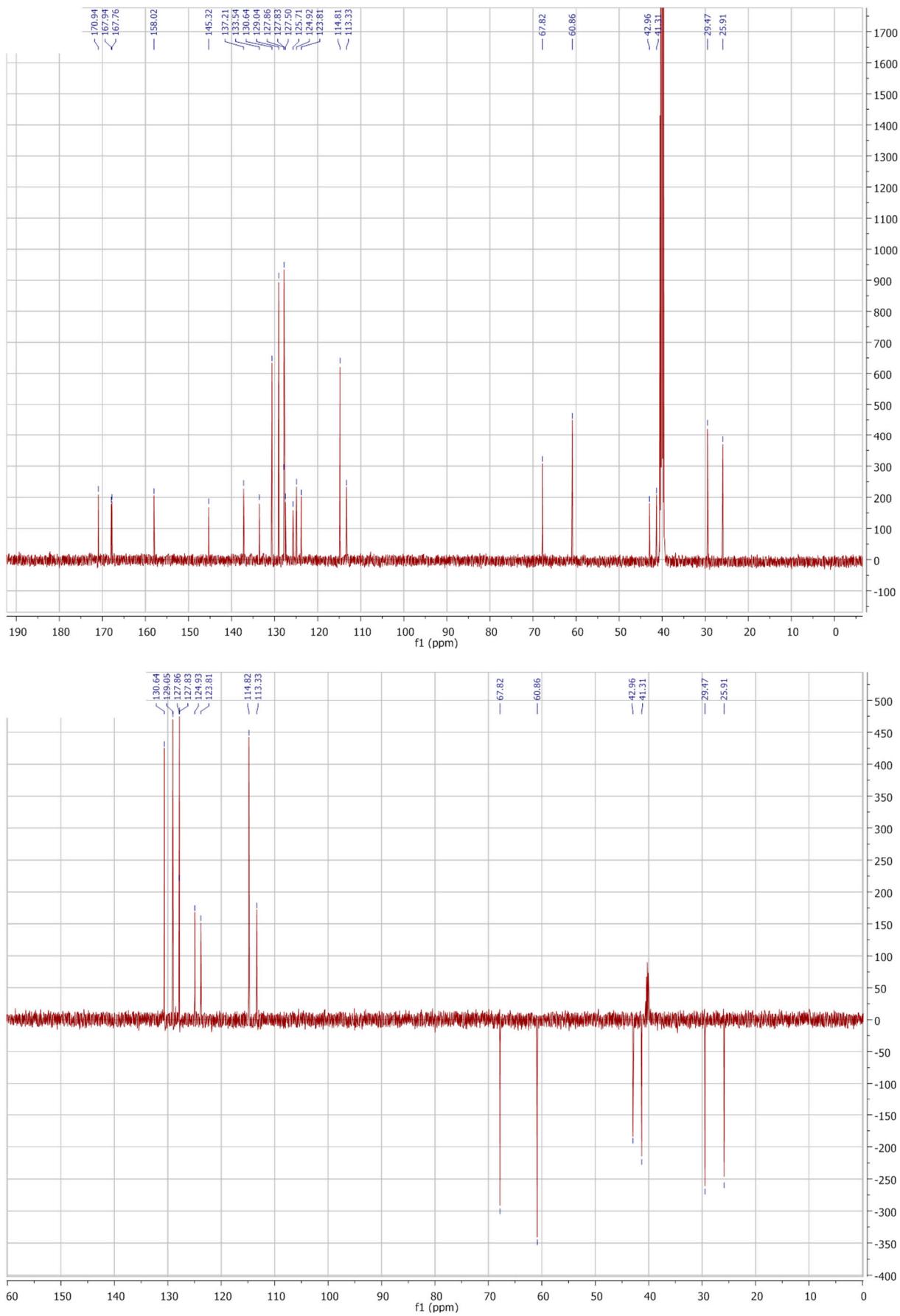


*N-(2-benzyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl)-2-[4-(4-hydroxybutoxy)phenyl]acetamide (13d; ZHAWOC4753)*

NMR

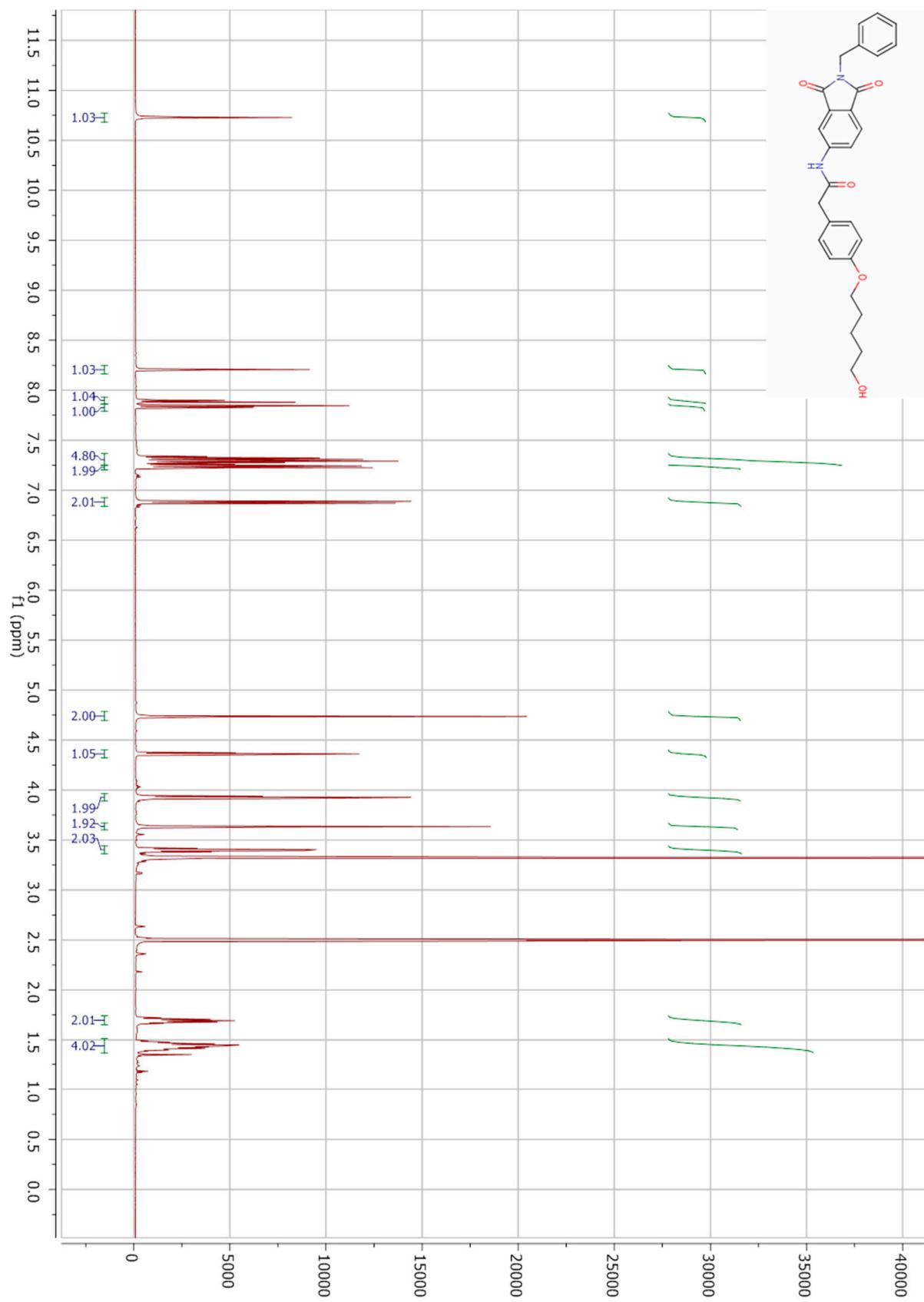


*N-(2-benzyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl)-2-[4-(4-hydroxybutoxy)phenyl]acetamide (13d; ZHAWOC4753)*

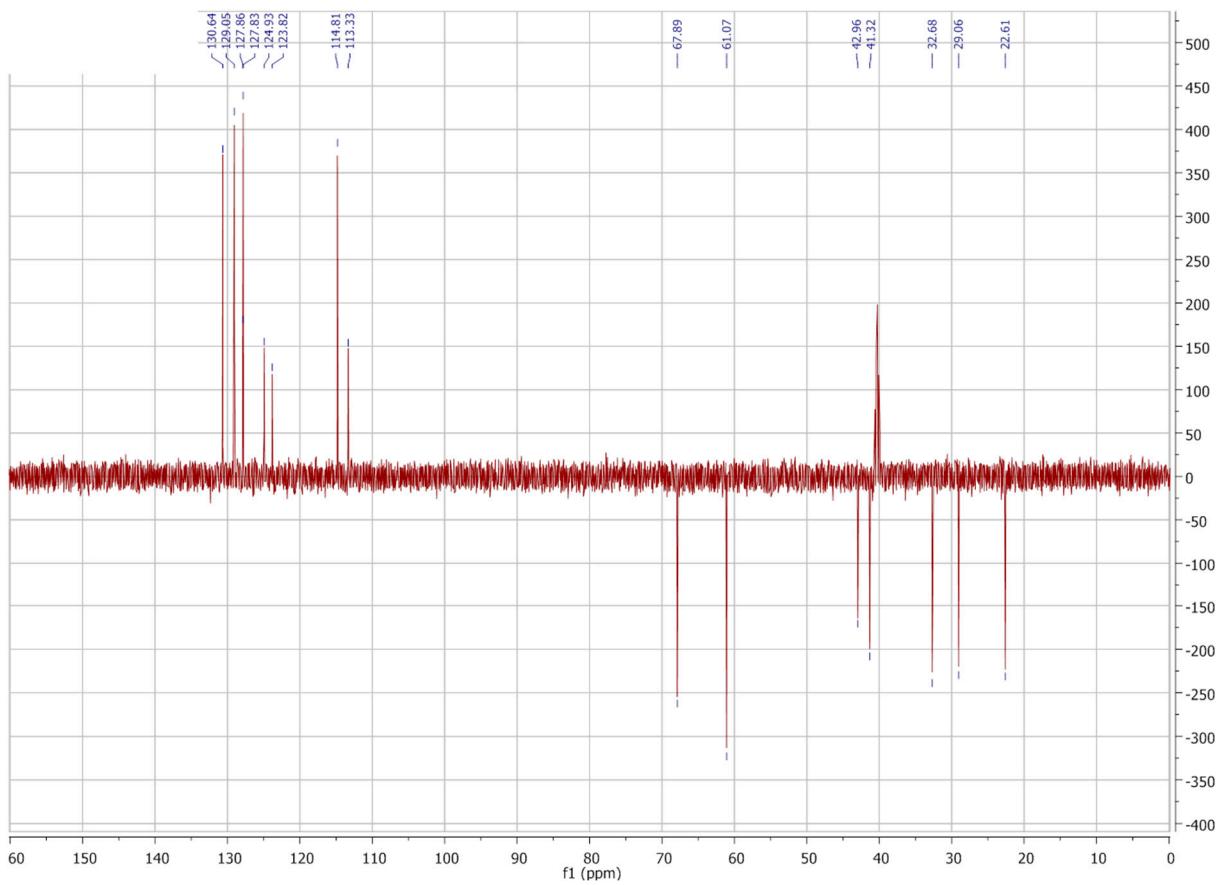
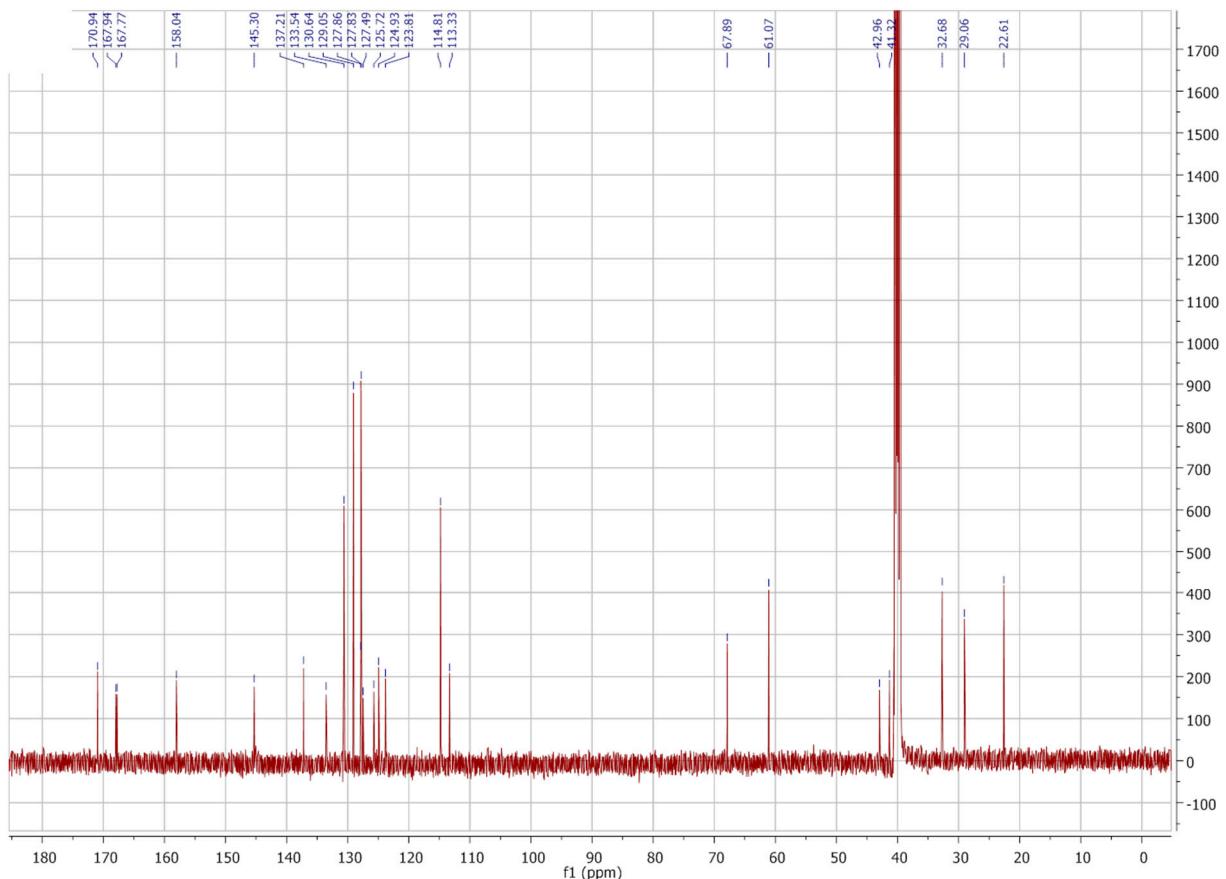


*N-(2-benzyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl)-2-{4-[(5-hydroxypentyl)oxy]phenyl}acetamide (**13e**; ZHAWOC5130)*

NMR

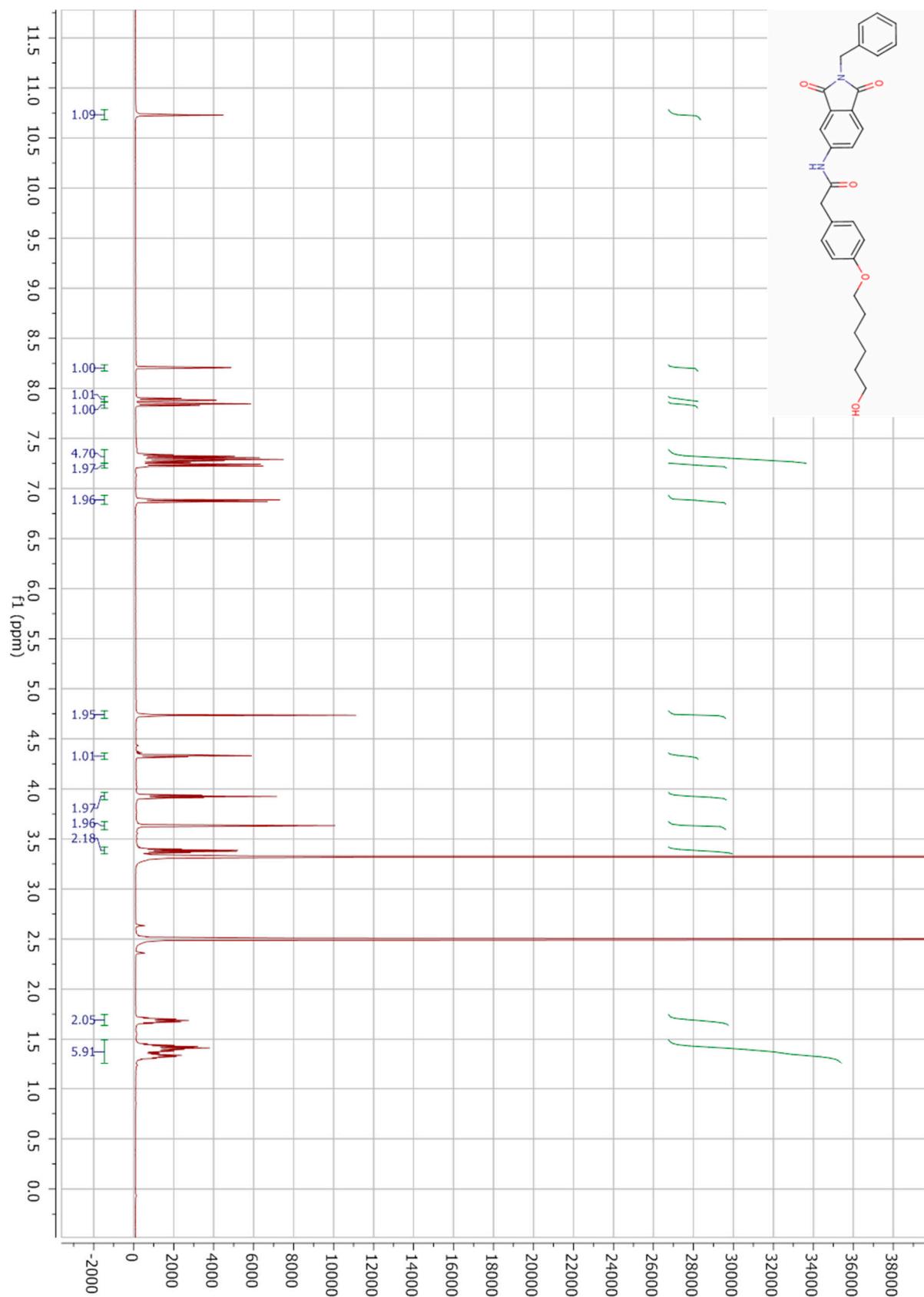


*N-(2-benzyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl)-2-{4-[(5-hydroxypentyl)oxy]phenyl}acetamide (13e; ZHAWOC5130)*

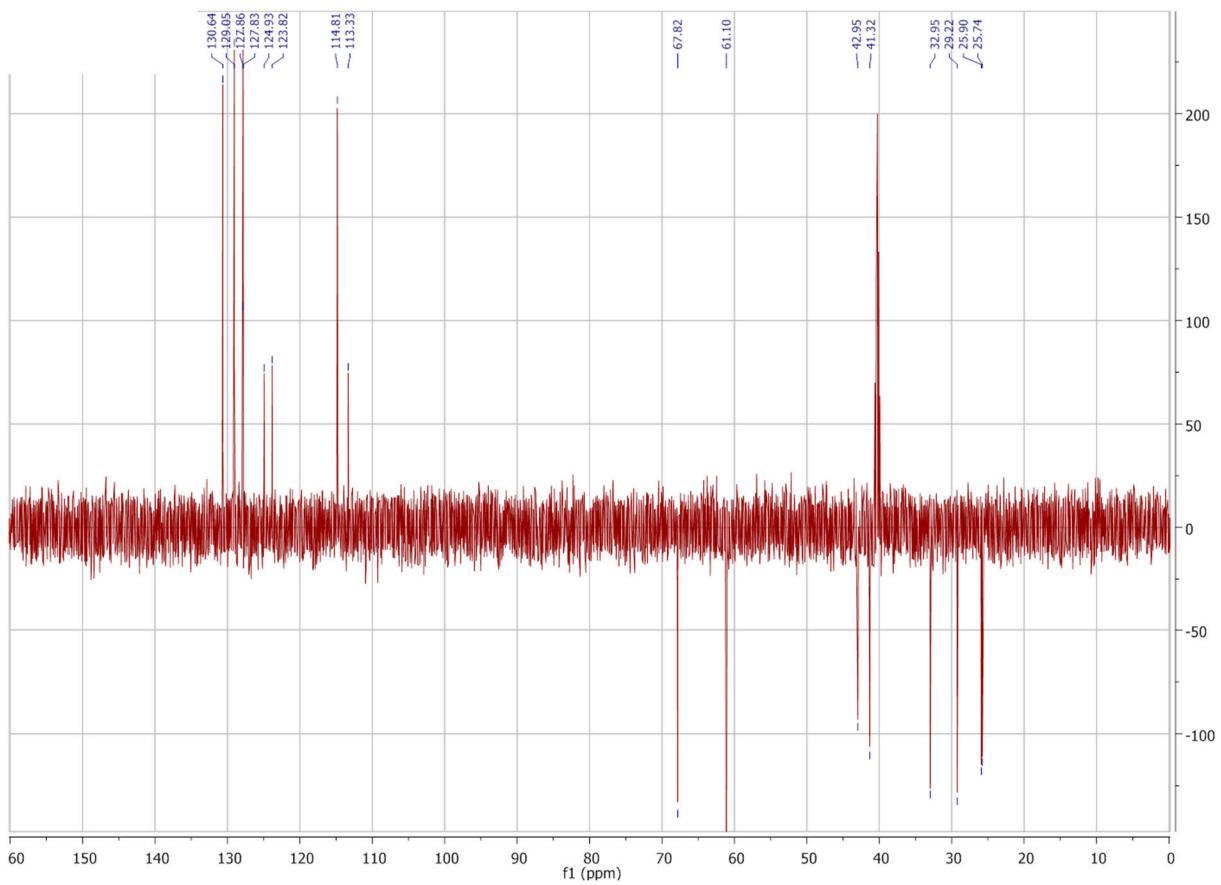
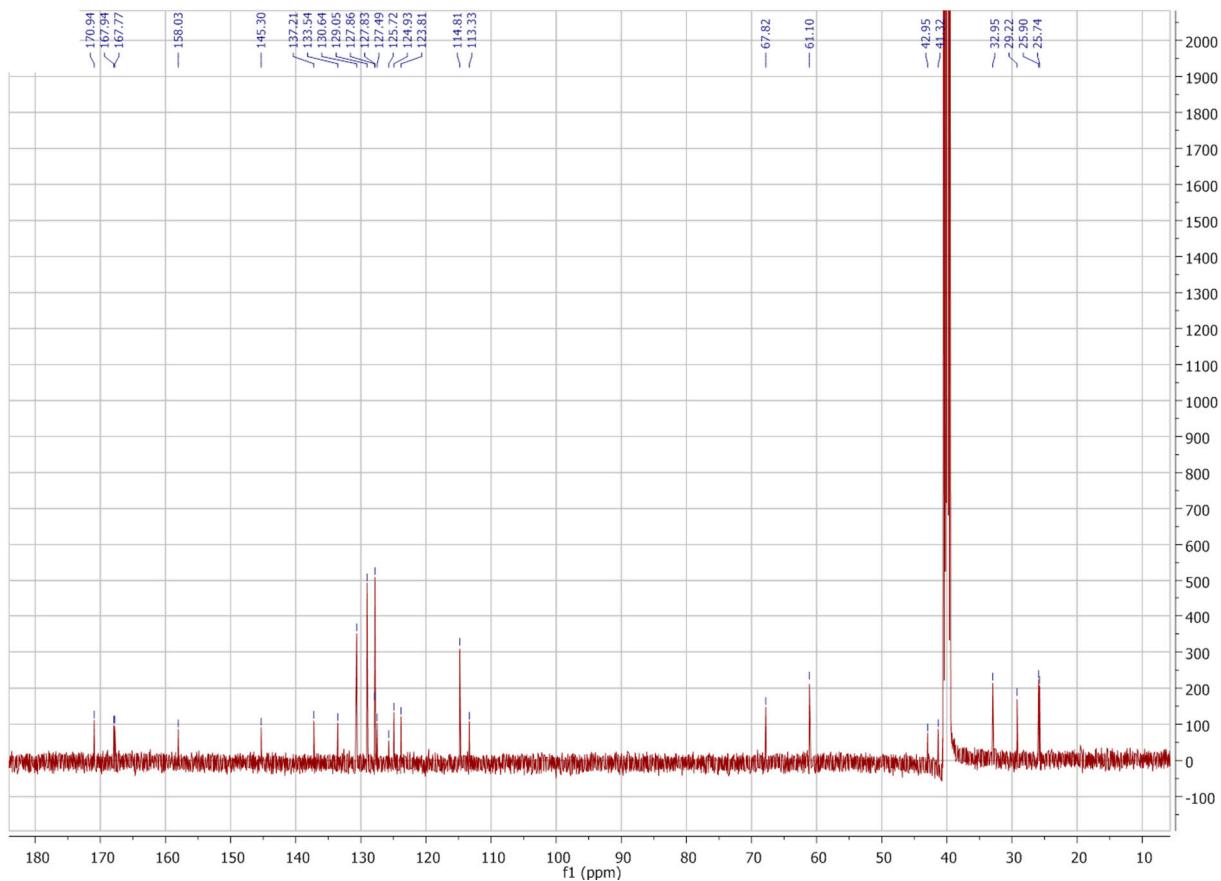


N-(2-benzyl-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl)-2-{4-[(6-hydroxyhexyl)oxy]phenyl}acetamide (13f; ZHAWOC5132)

NMR

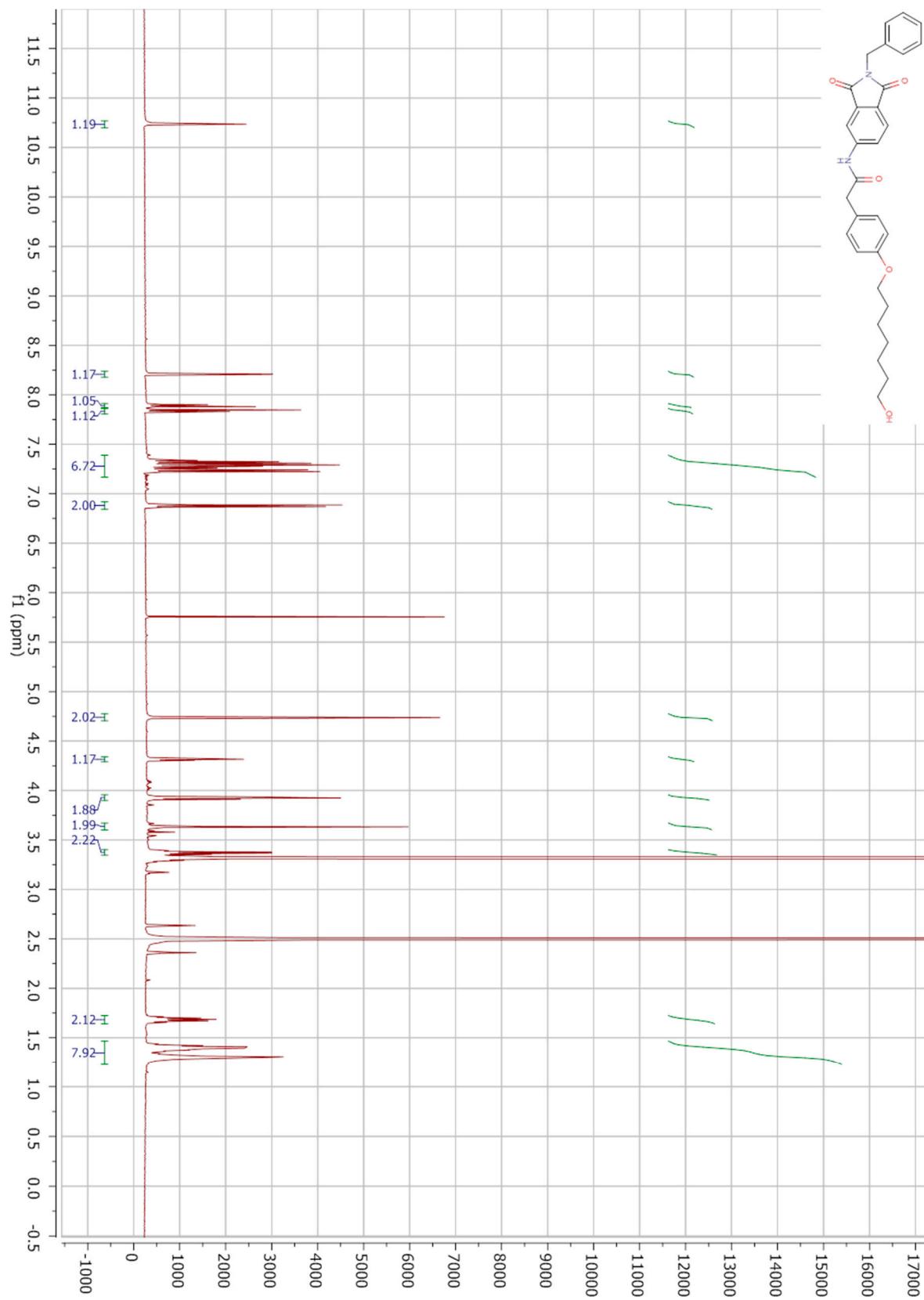


*N-(2-benzyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl)-2-{4-[(6-hydroxyhexyl)oxy]phenyl}acetamide (13f; ZHAWOC5132)*

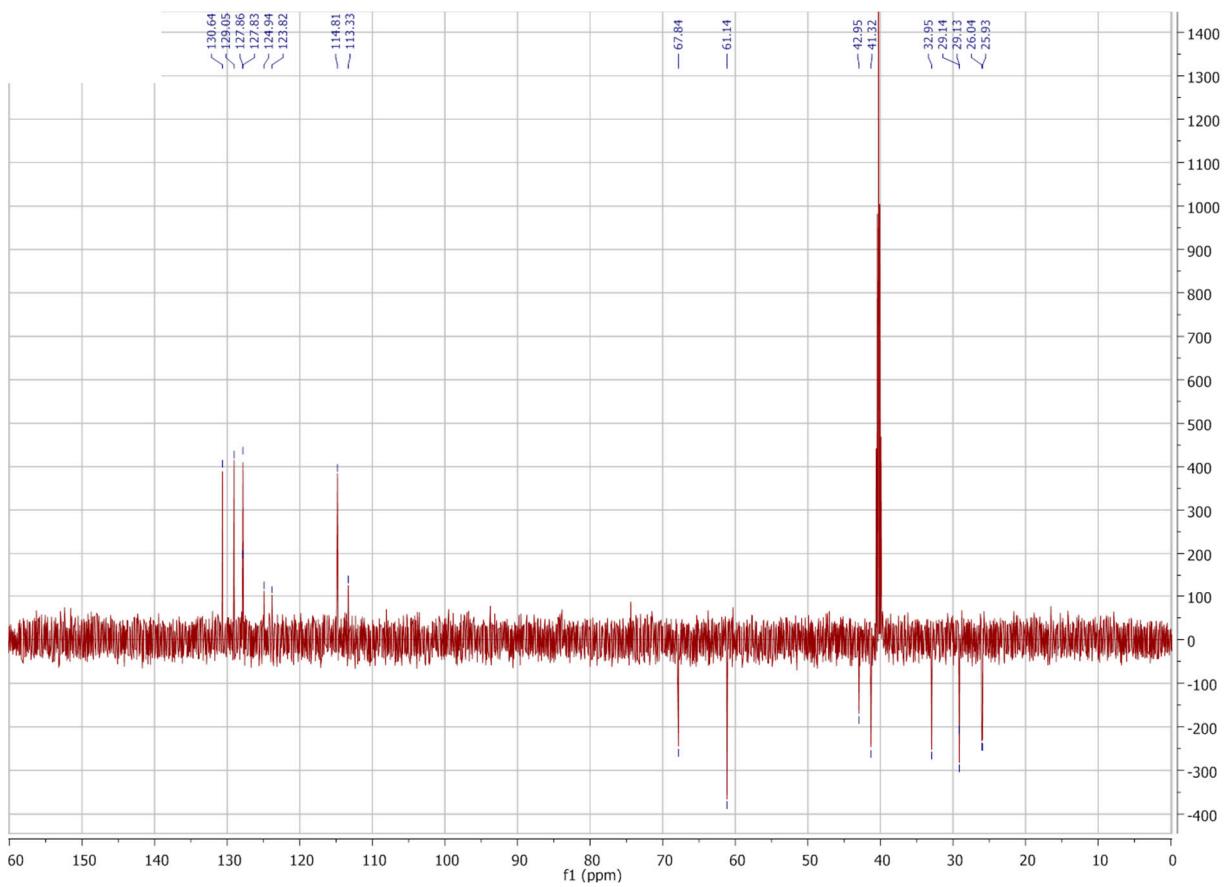
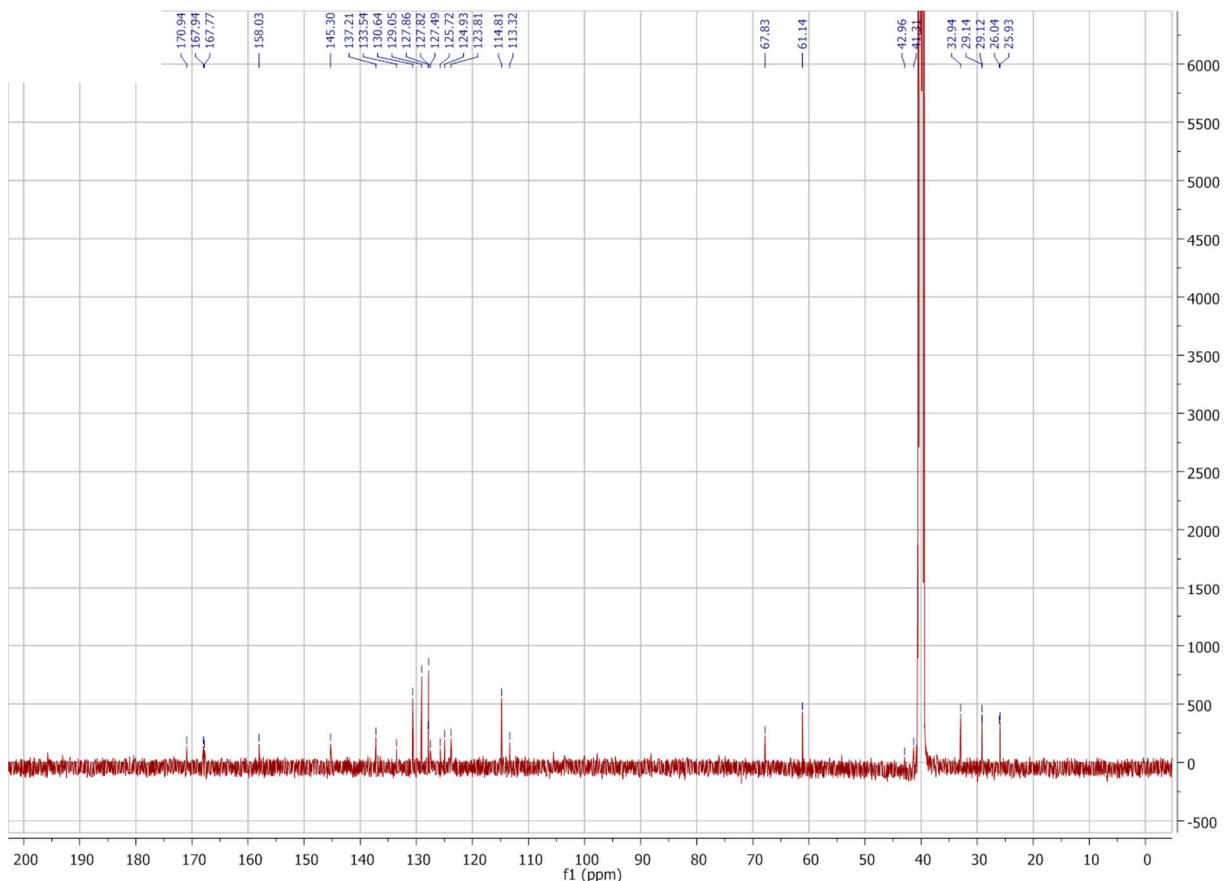


N-(2-benzyl-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl)-2-{4-[(7-hydroxyheptyl)oxy]phenyl}acetamide (13g**; ZHAWOC7103)**

NMR

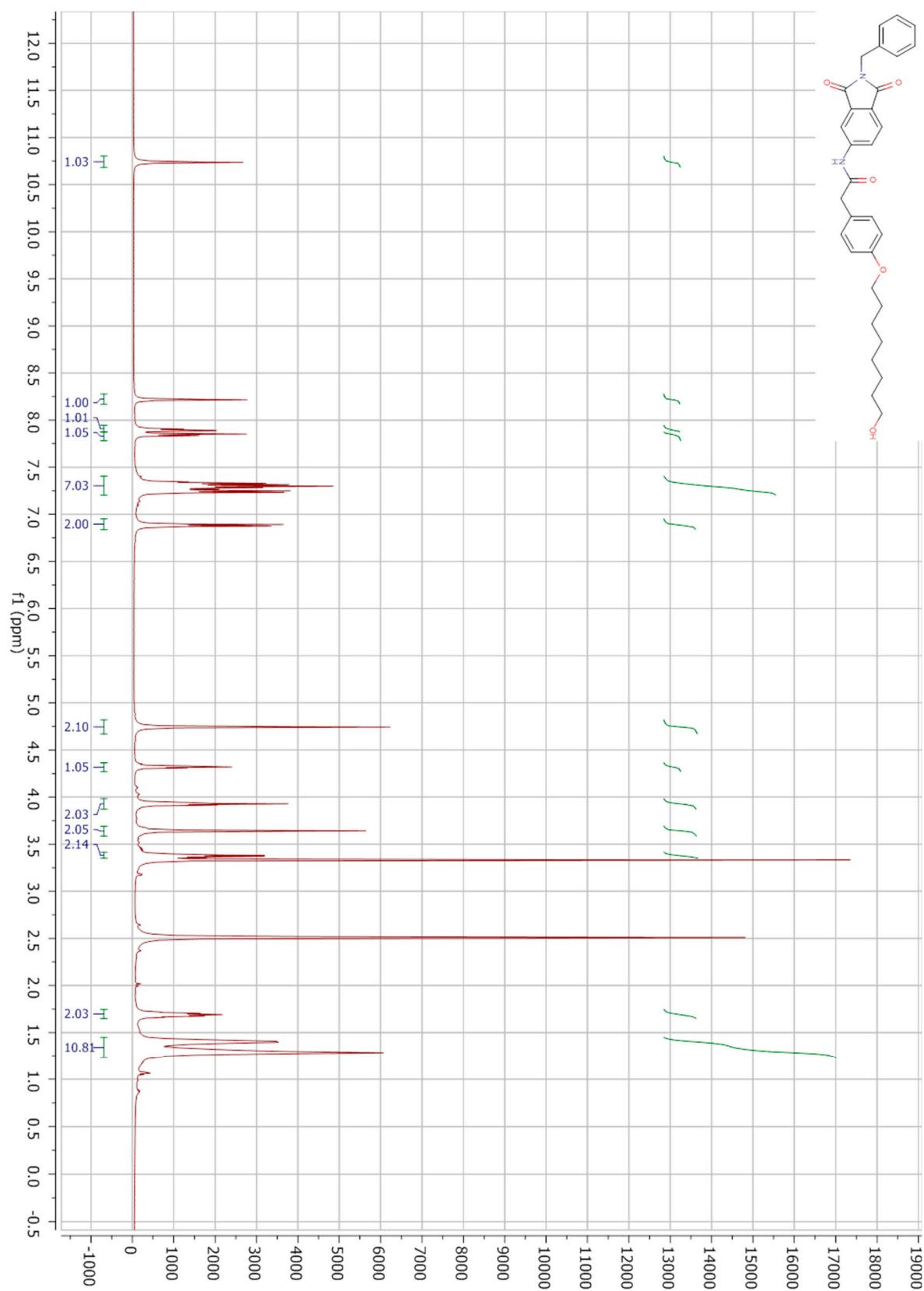


N-(2-benzyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl)-2-{4-[(7-hydroxyheptyl)oxy]phenyl}acetamide (**13g**; ZHAWOC7103)

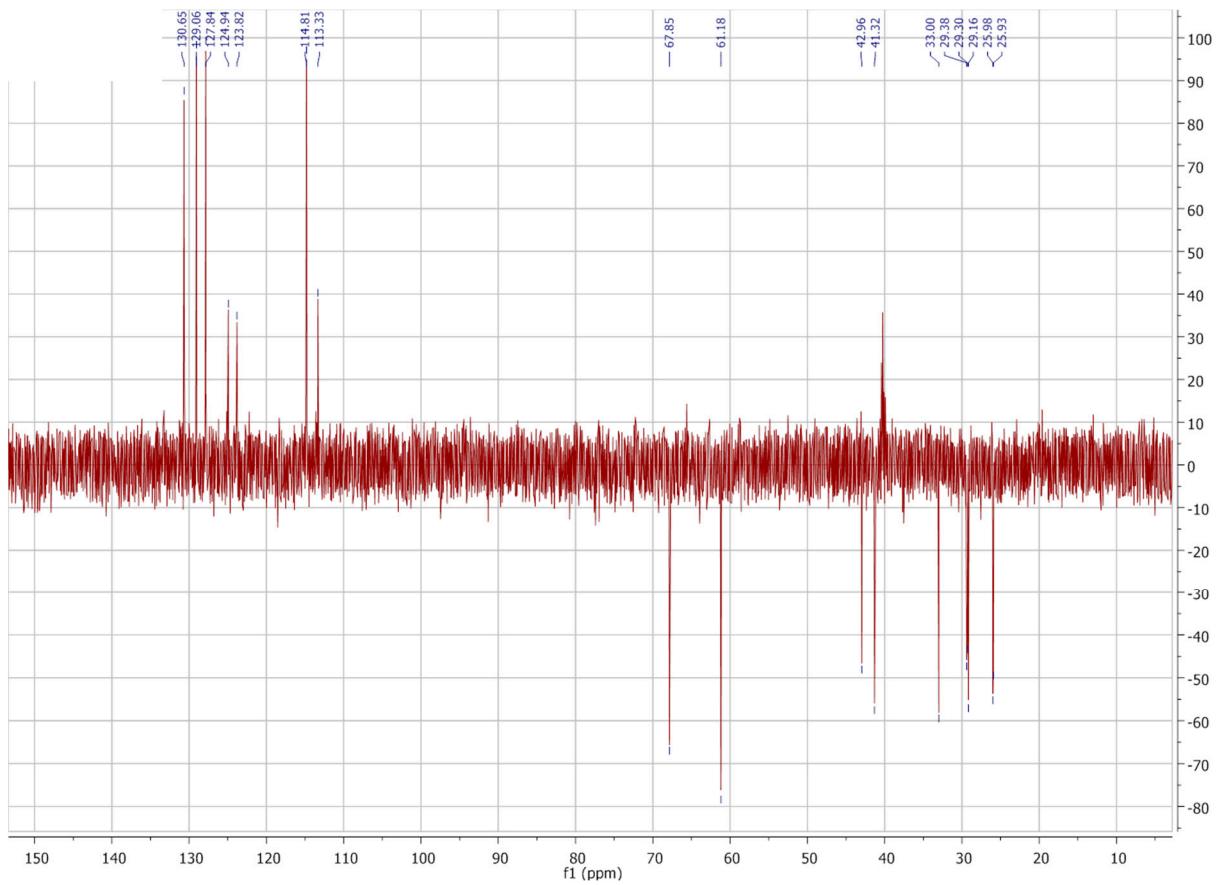
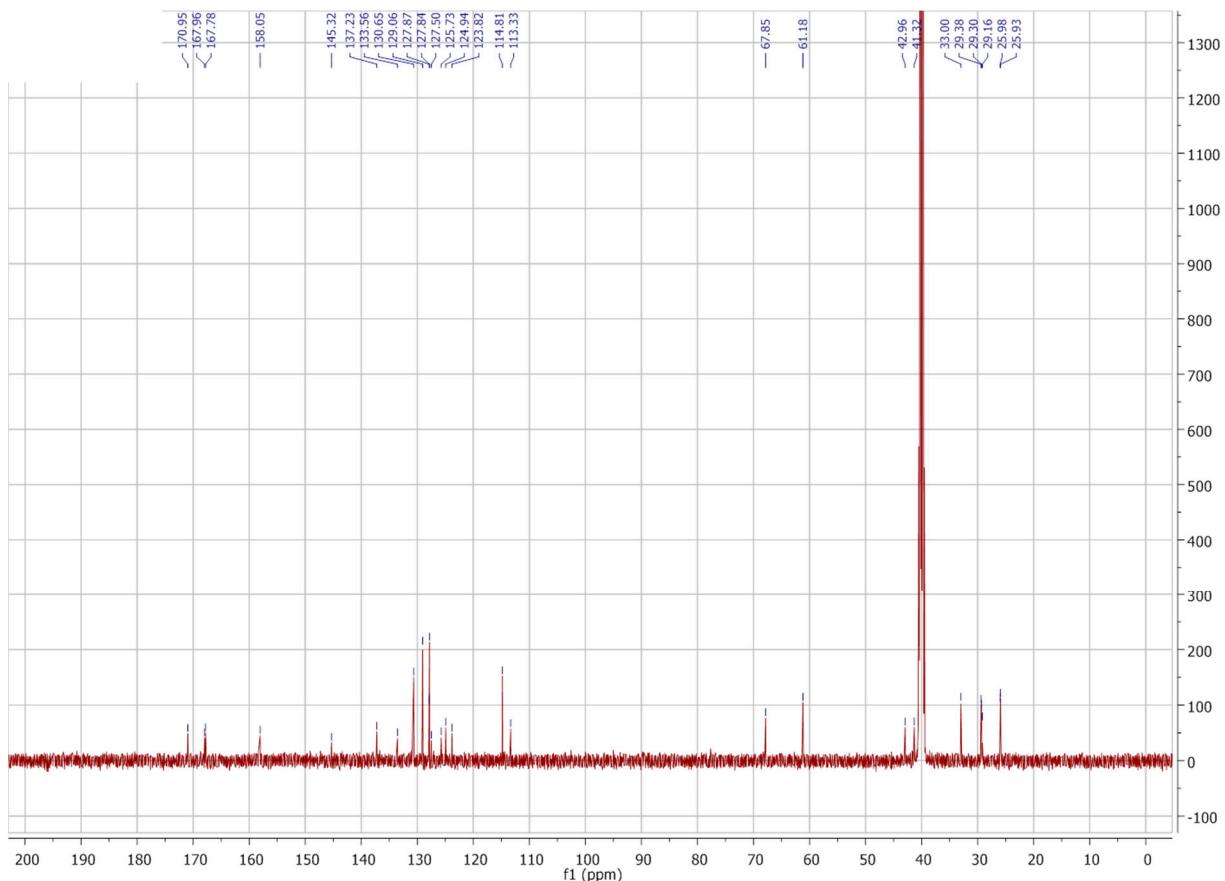


N-(2-benzyl-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl)-2-{4-[(8-hydroxyoctyl)oxy]phenyl}acetamide (13h**: ZHAWOC7137)**

NMR

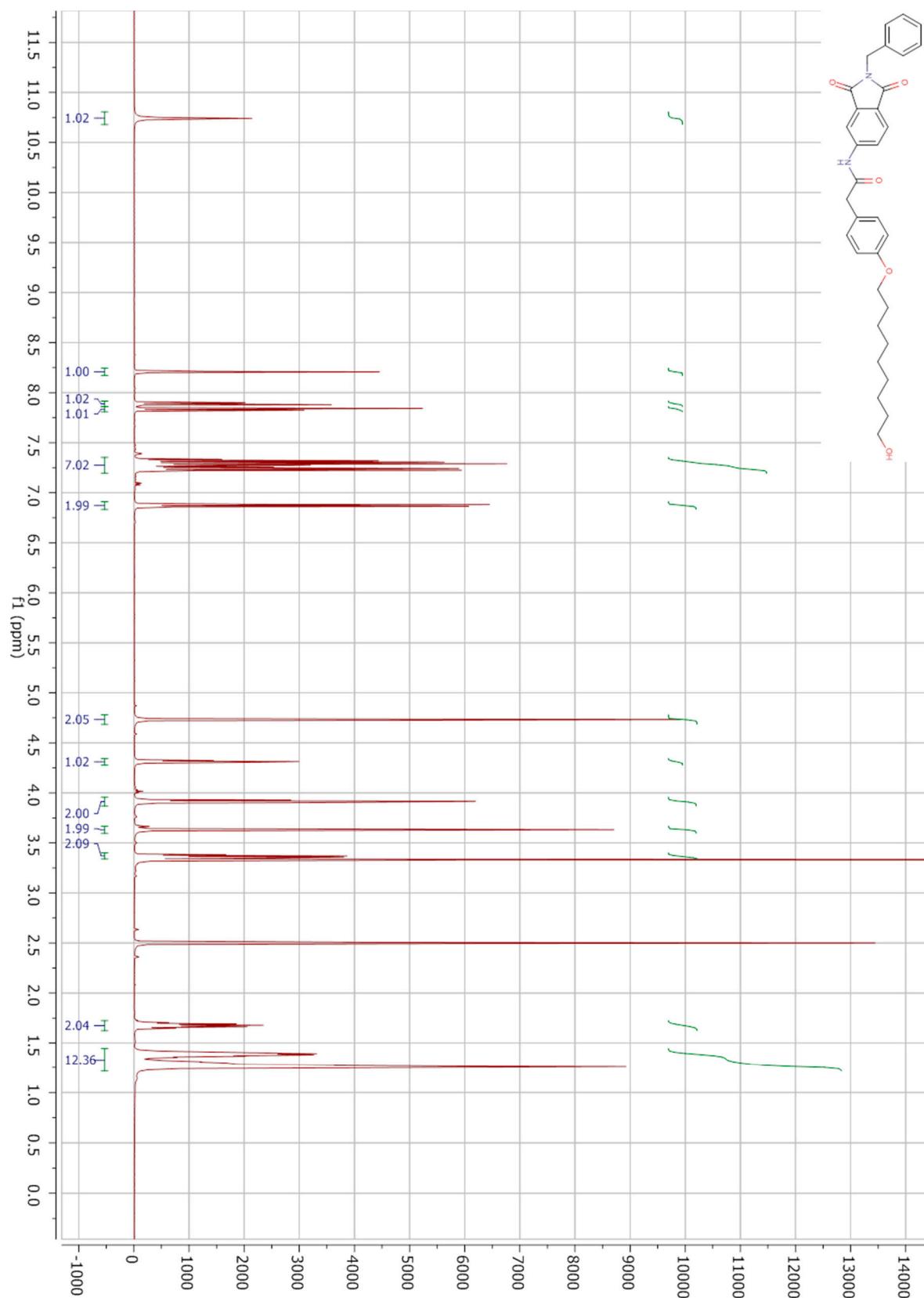


*N-(2-benzyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl)-2-{4-[(8-hydroxyoctyl)oxy]phenyl}acetamide (13h: ZHAWOC7137)*

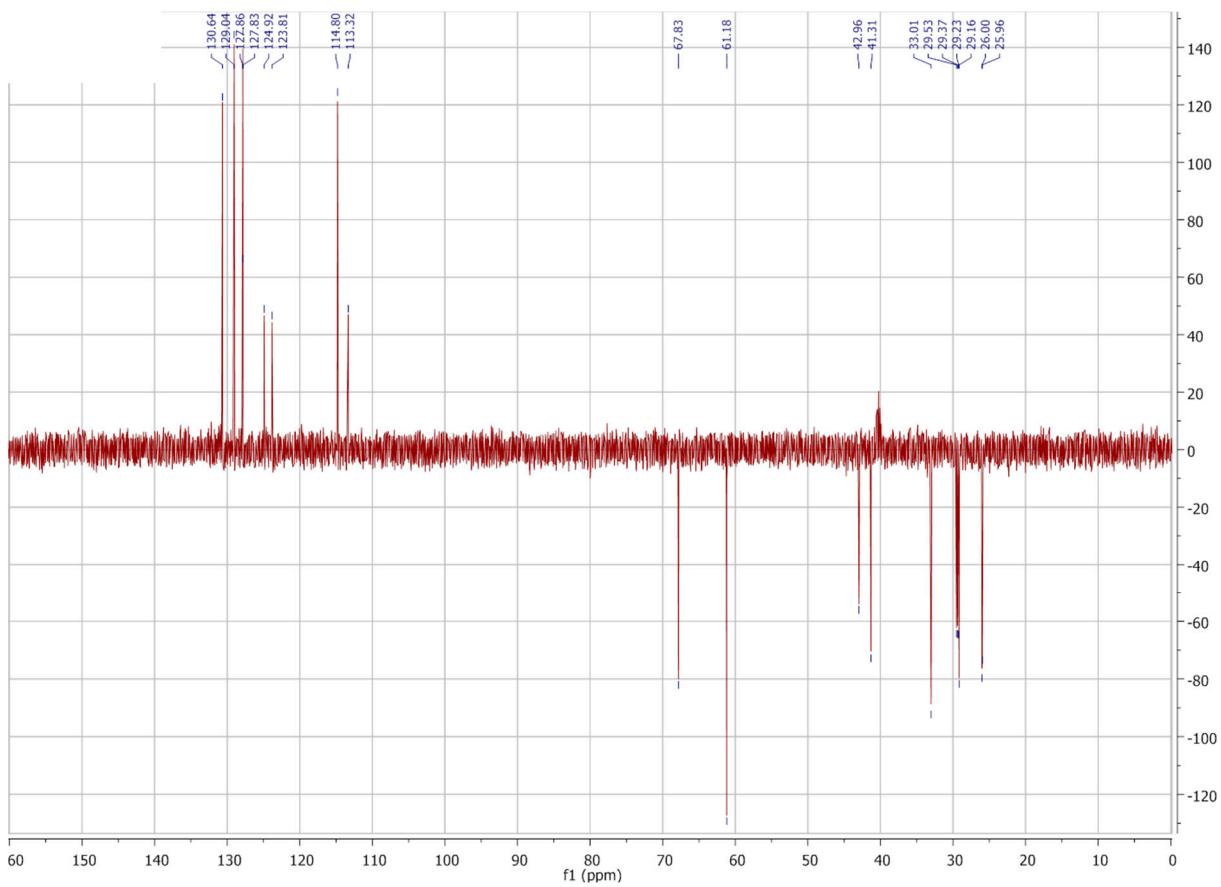
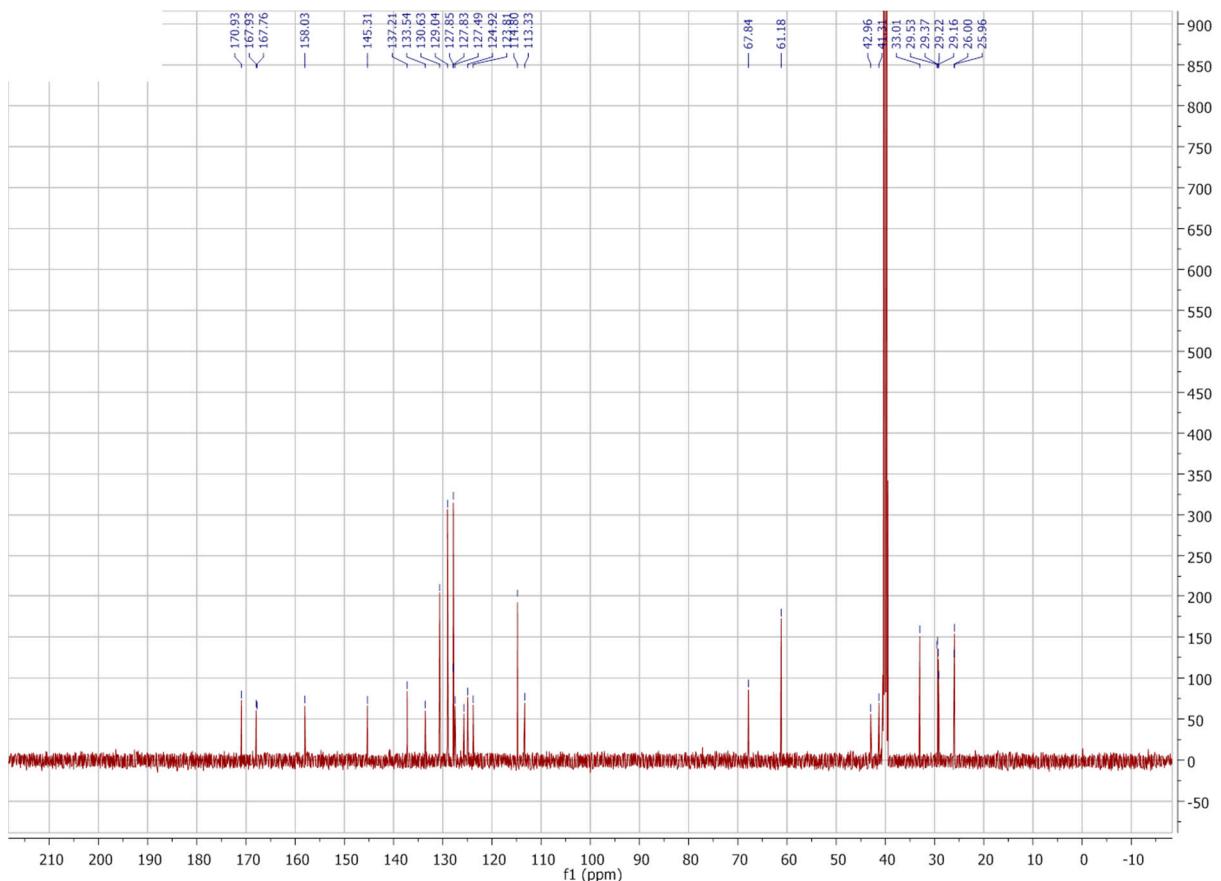


*N-(2-benzyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl)-2-{4-[(9-hydroxynonyl)oxy]phenyl}acetamide (**13i**; ZHAWOC6936)*

NMR

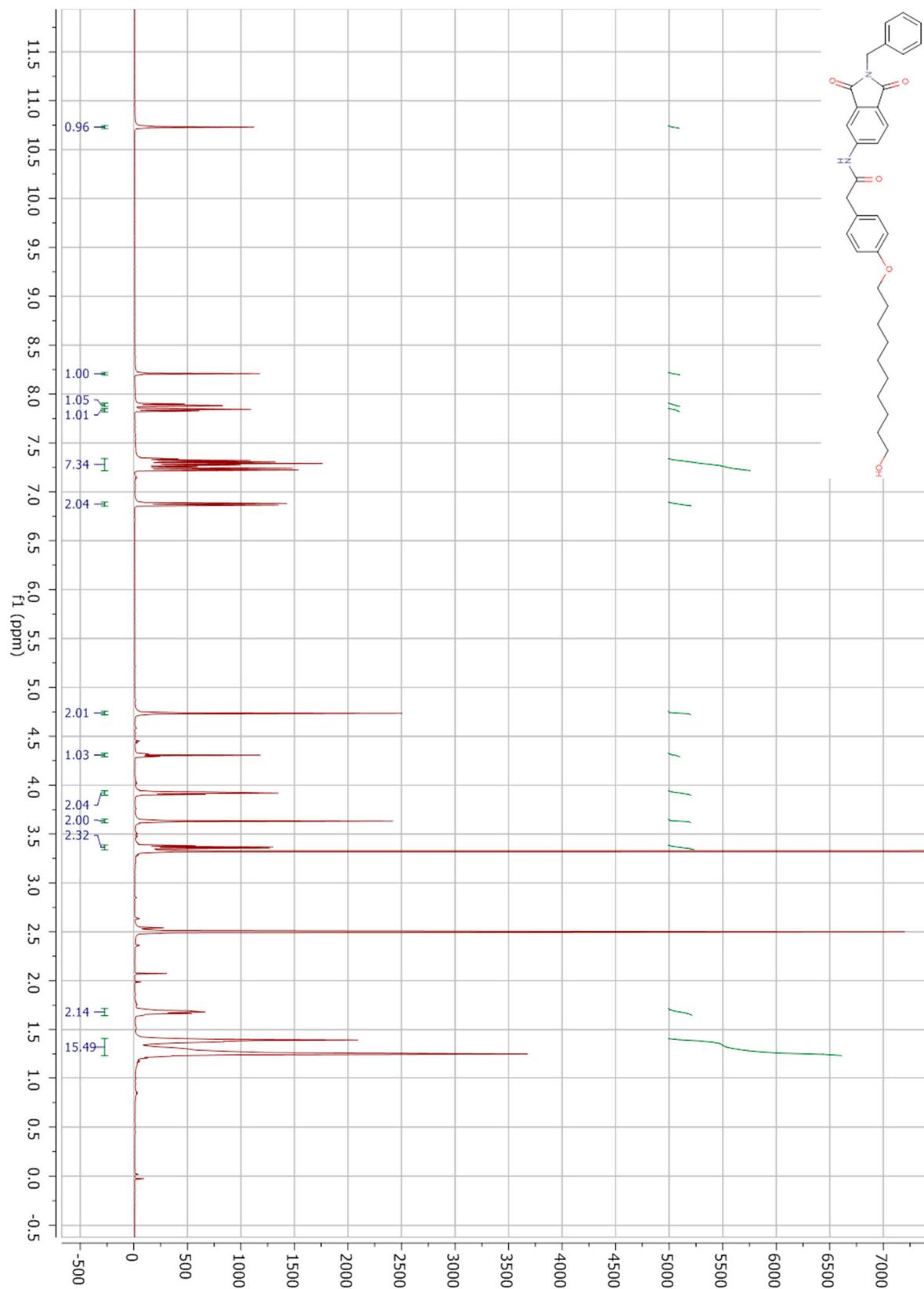


*N-(2-benzyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl)-2-{4-[(9-hydroxynonyl)oxy]phenyl}acetamide (**13i**; ZHAWOC6936)*

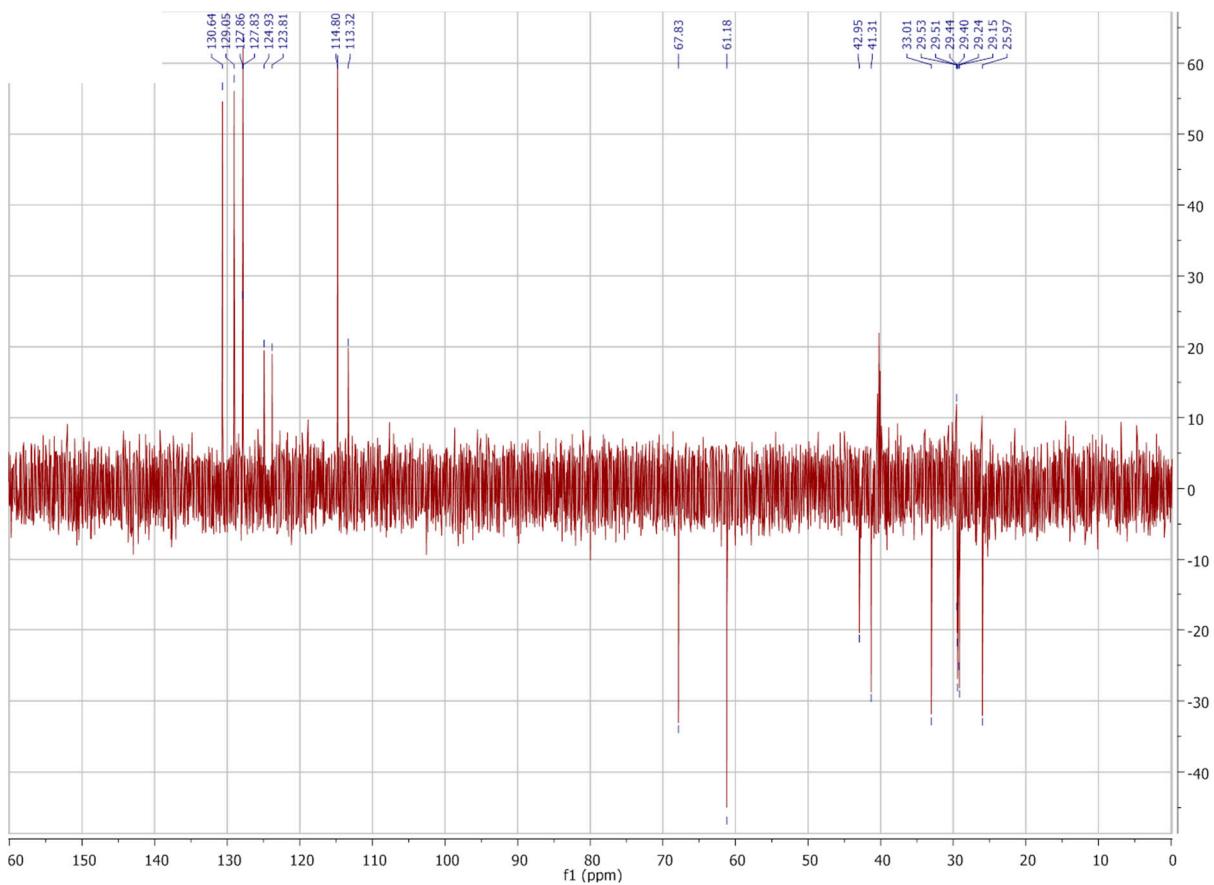
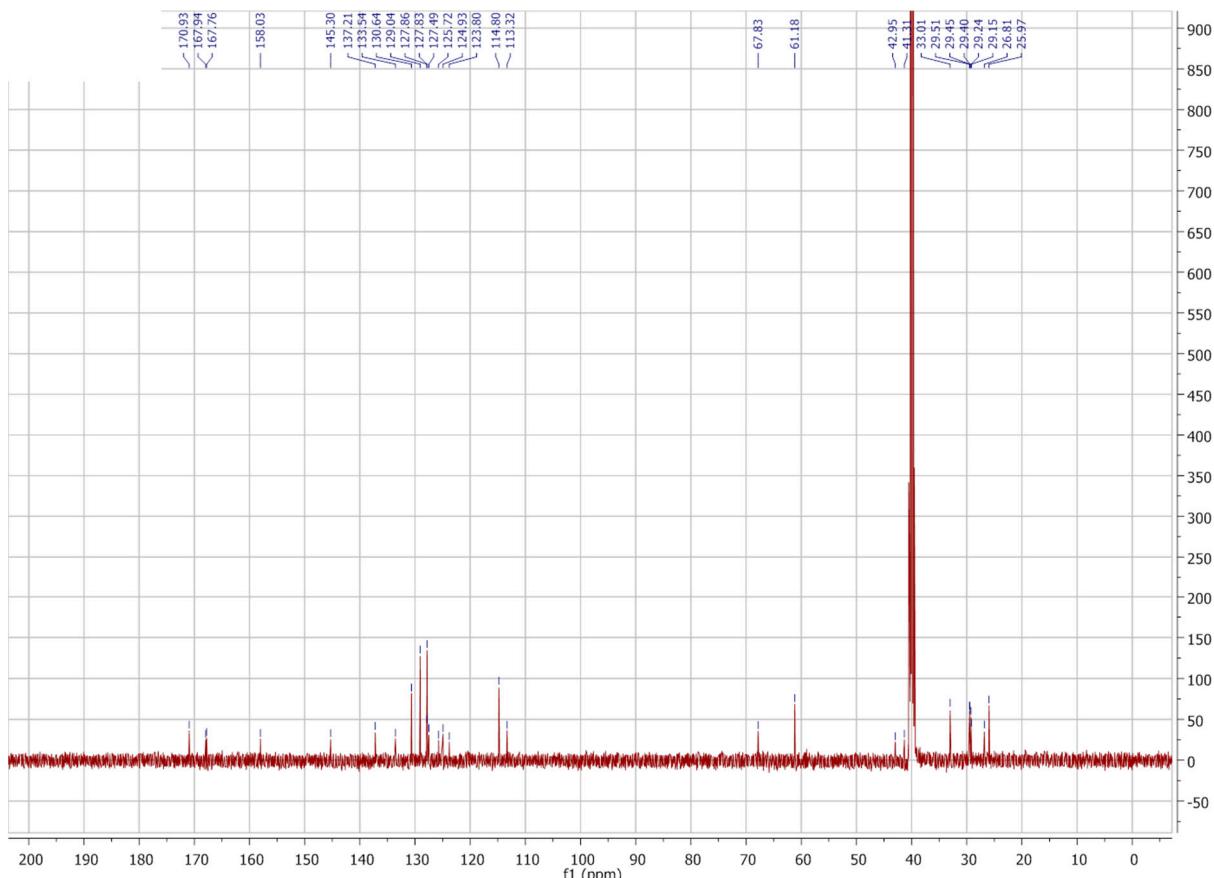


*N-(2-benzyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl)-2-{4-[(10-hydroxydecyl)oxy]phenyl}acetamide (13j; ZHAWOC6937)*

NMR

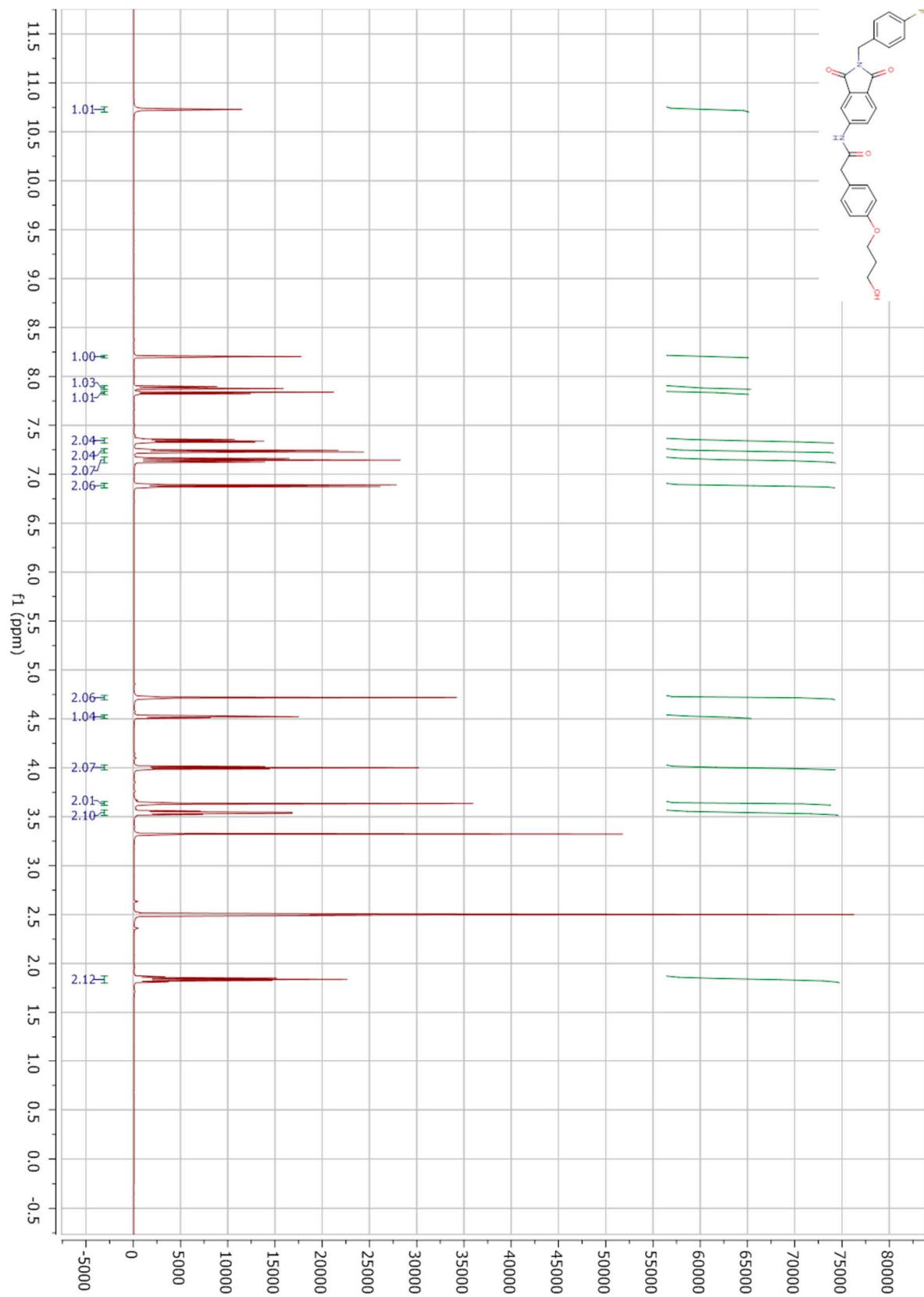


*N-(2-benzyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl)-2-{4-[(10-hydroxydecyl)oxy]phenyl}acetamide (13j; ZHAWOC6937)*

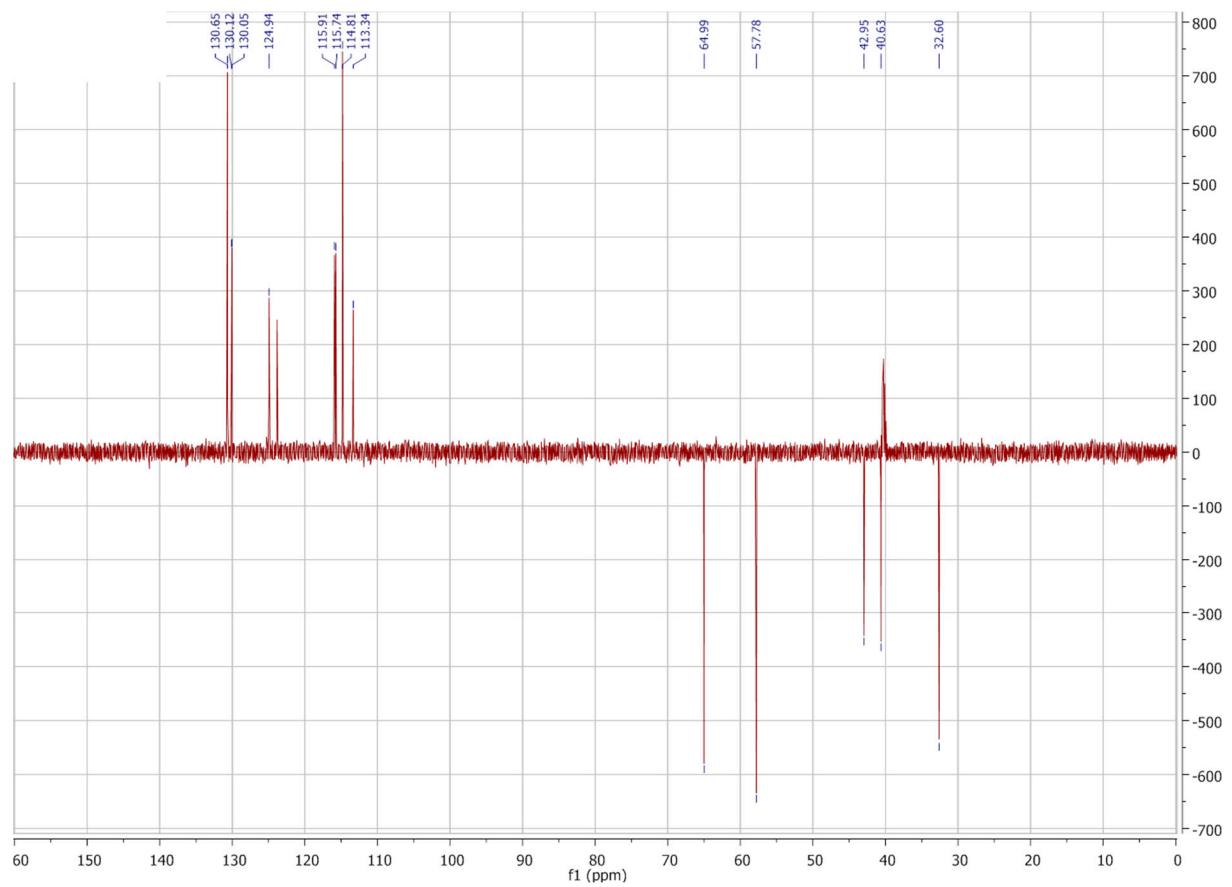
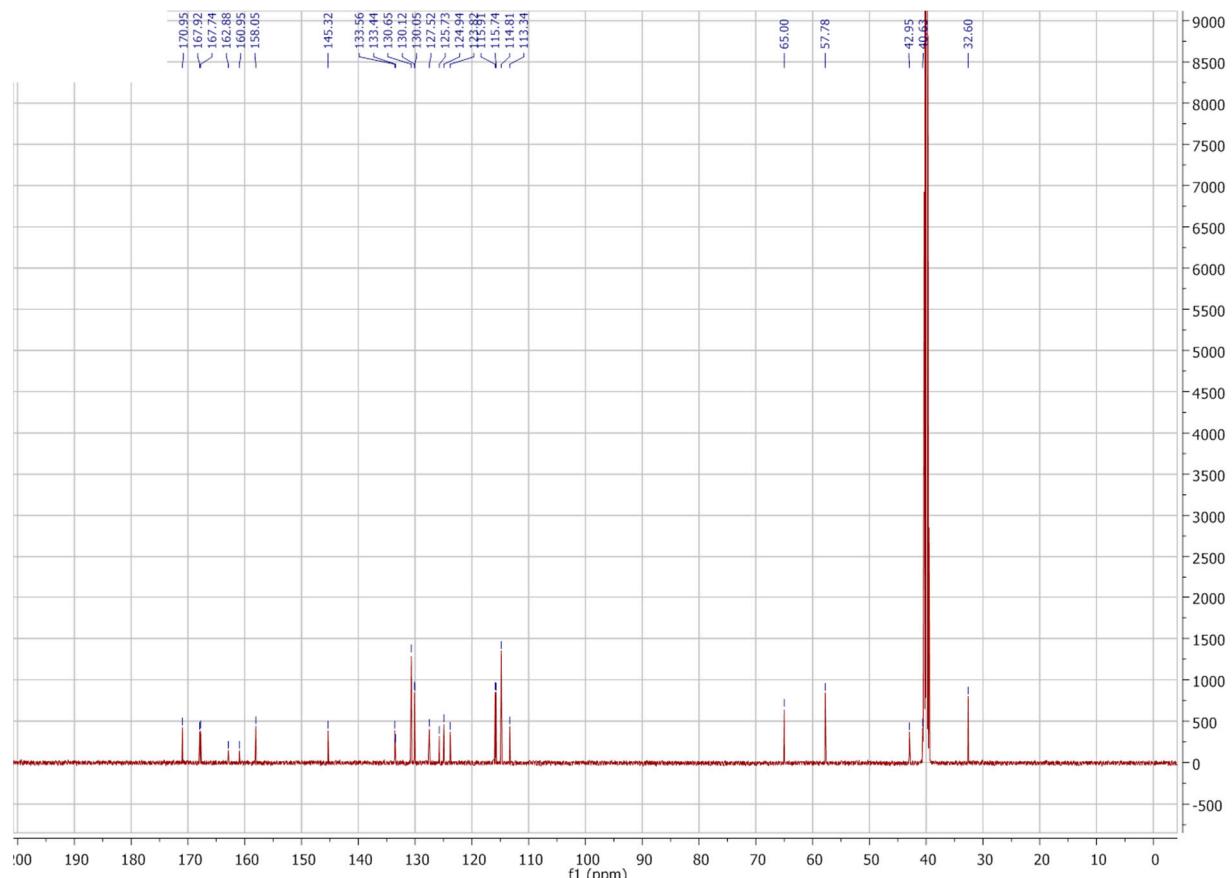


N-{2-[(4-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl}-2-[4-(3-hydroxypropoxy)phenyl]acetamide (13k**; ZHAWOC6642)**

NMR

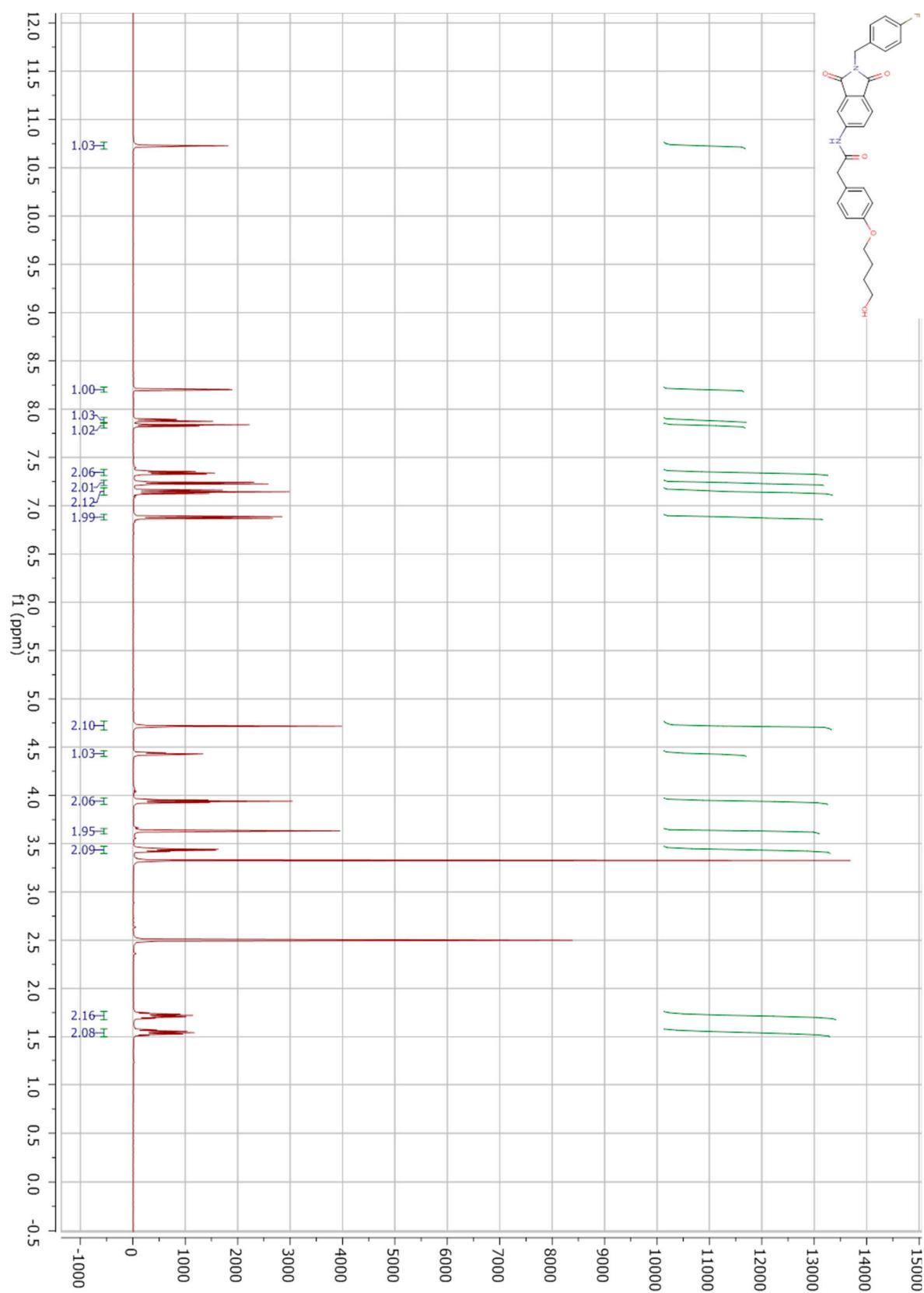


N-{2-[*(4*-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl}-2-[4-(3-hydroxypropoxy)phenyl]acetamide (**13k**; ZHAWOC6642)

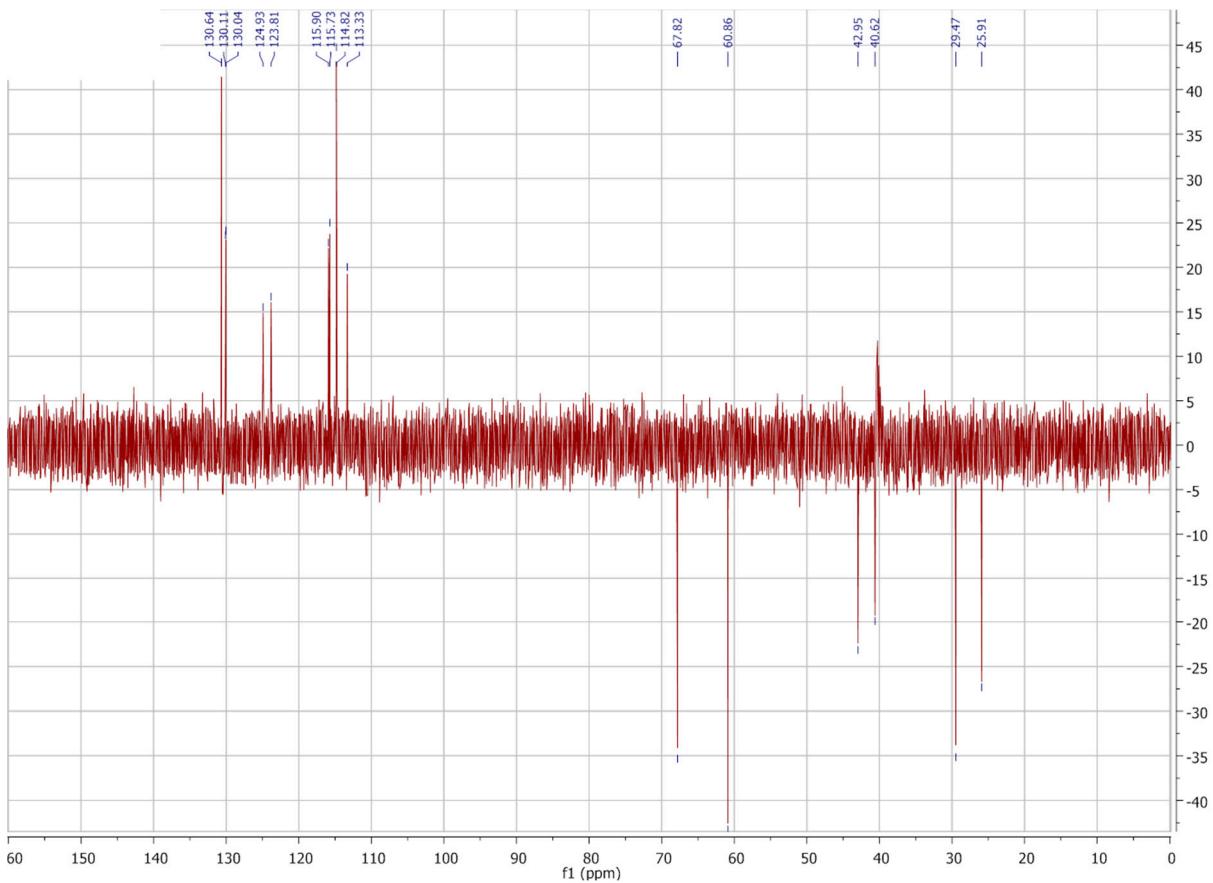
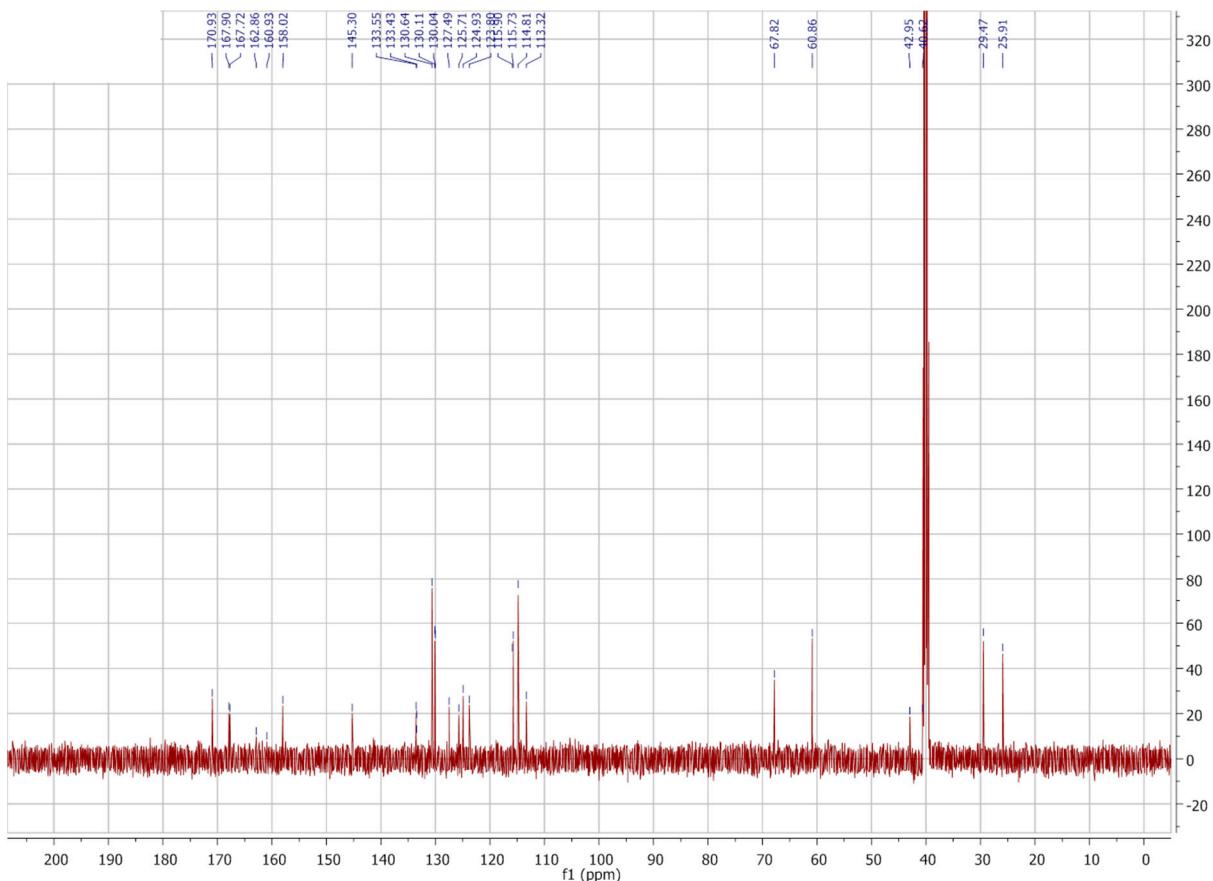


N-{2-[*(4*-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl}-2-[4-(4-hydroxybutoxy)phenyl]acetamide (**13I**; ZHAWOC5462)

NMR

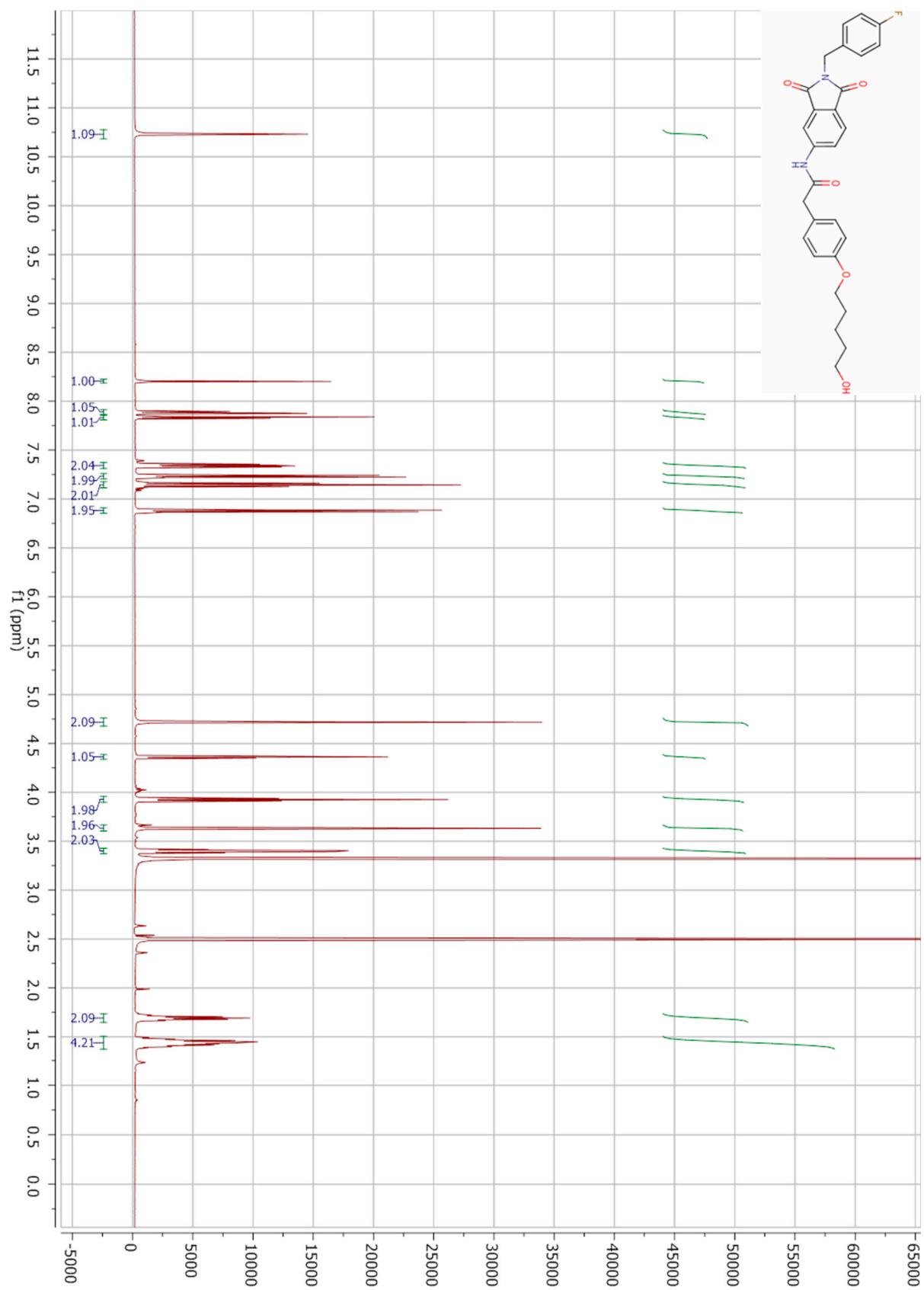


N-{2-[(4-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl}-2-[4-(4-hydroxybutoxy)phenyl]acetamide (**13I**; ZHAWOC5462)

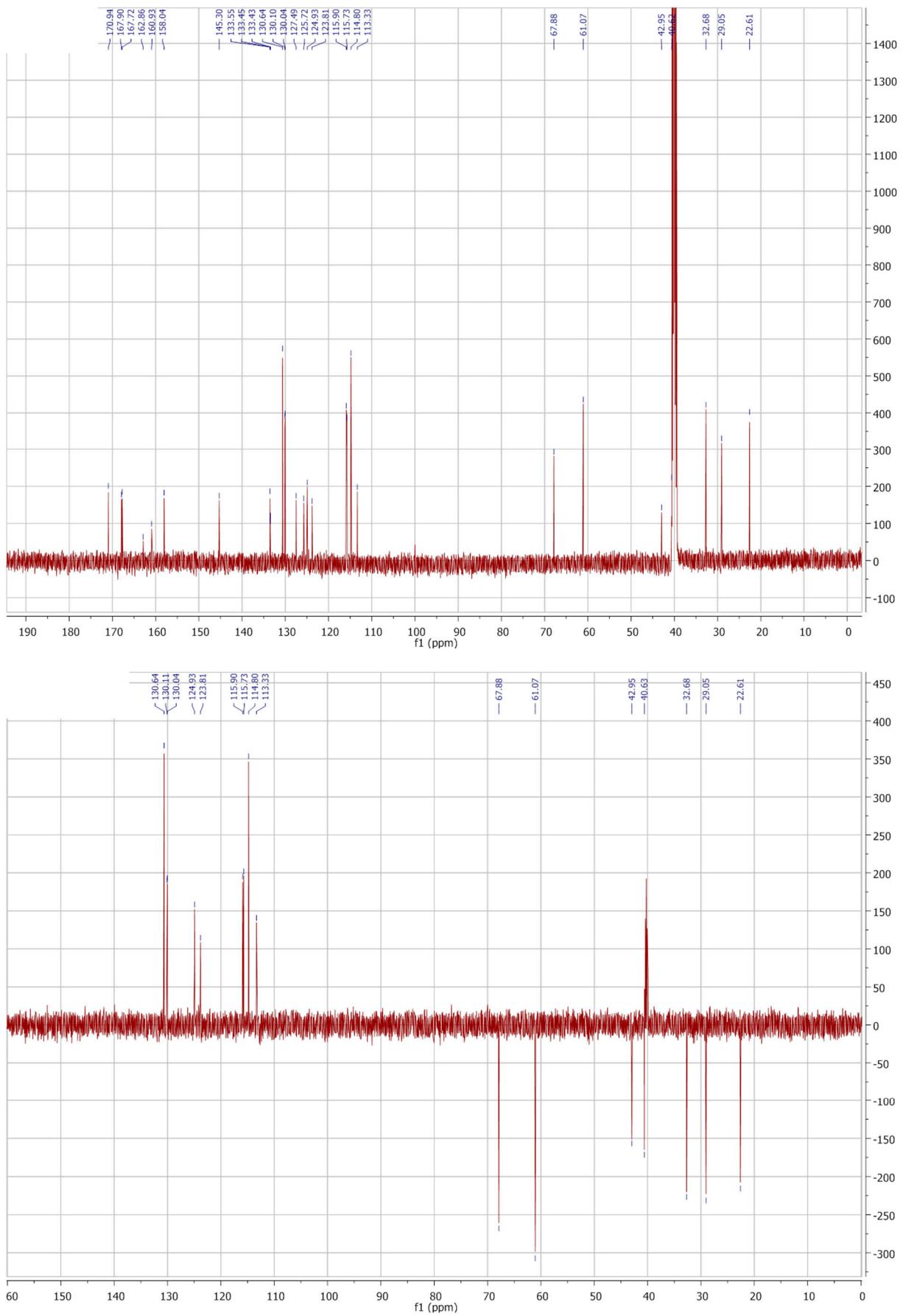


N-{2-[*(4*-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl}-2-{4-[*(5*-hydroxypentyl)oxy]phenyl}acetamide (**13m**; ZHAWOC5683)

NMR

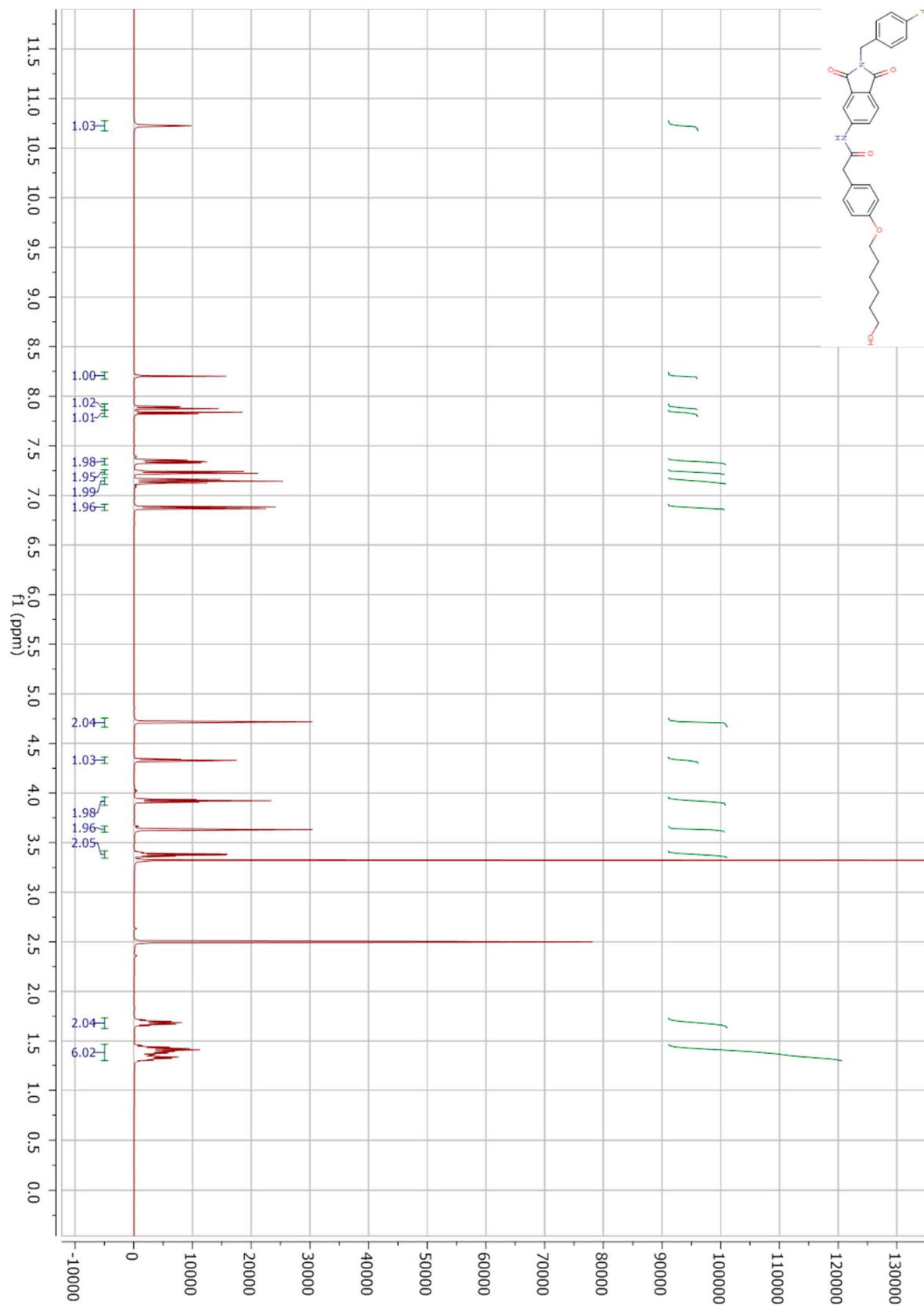


N-{2-[*(4*-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl}-2-{4-[*(5*-hydroxypentyl)oxy]phenyl}acetamide (**13m**; ZHAWOC5683)

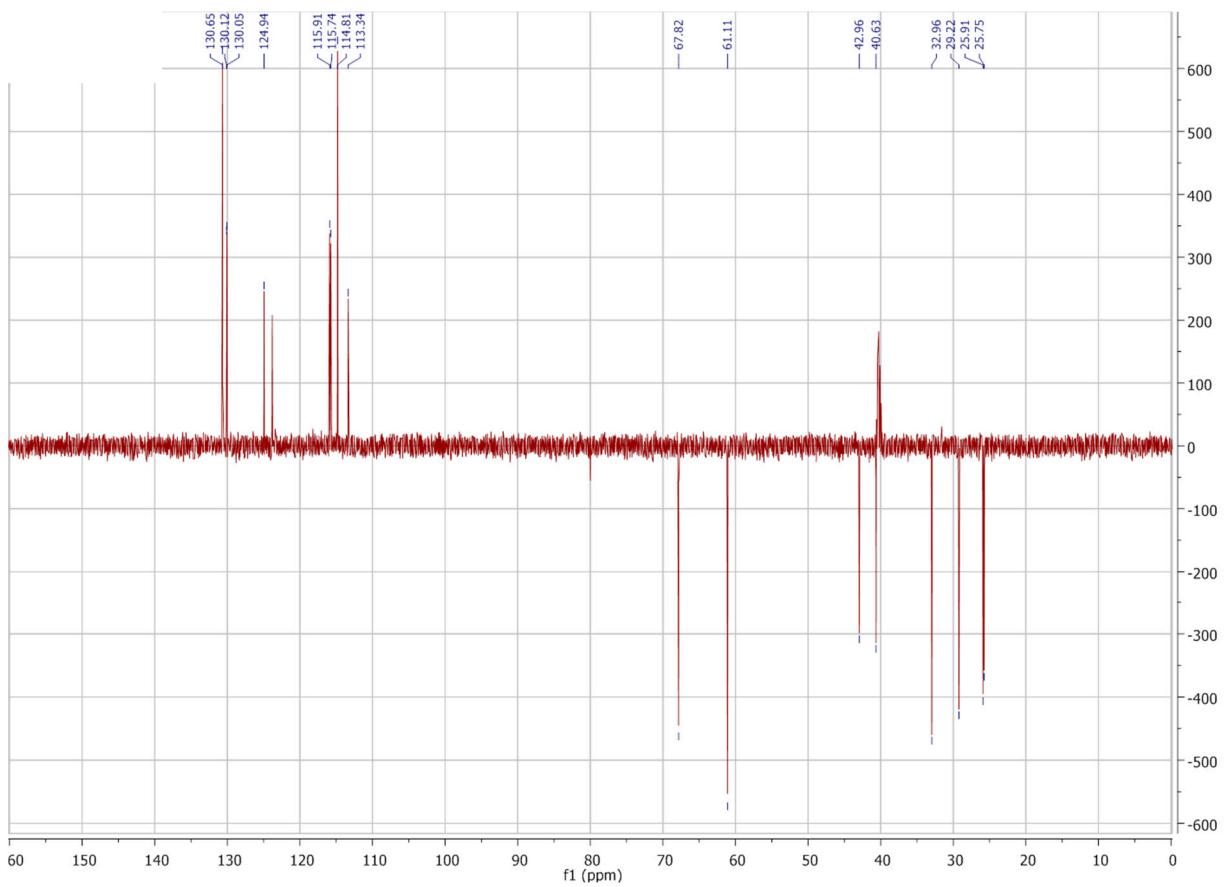
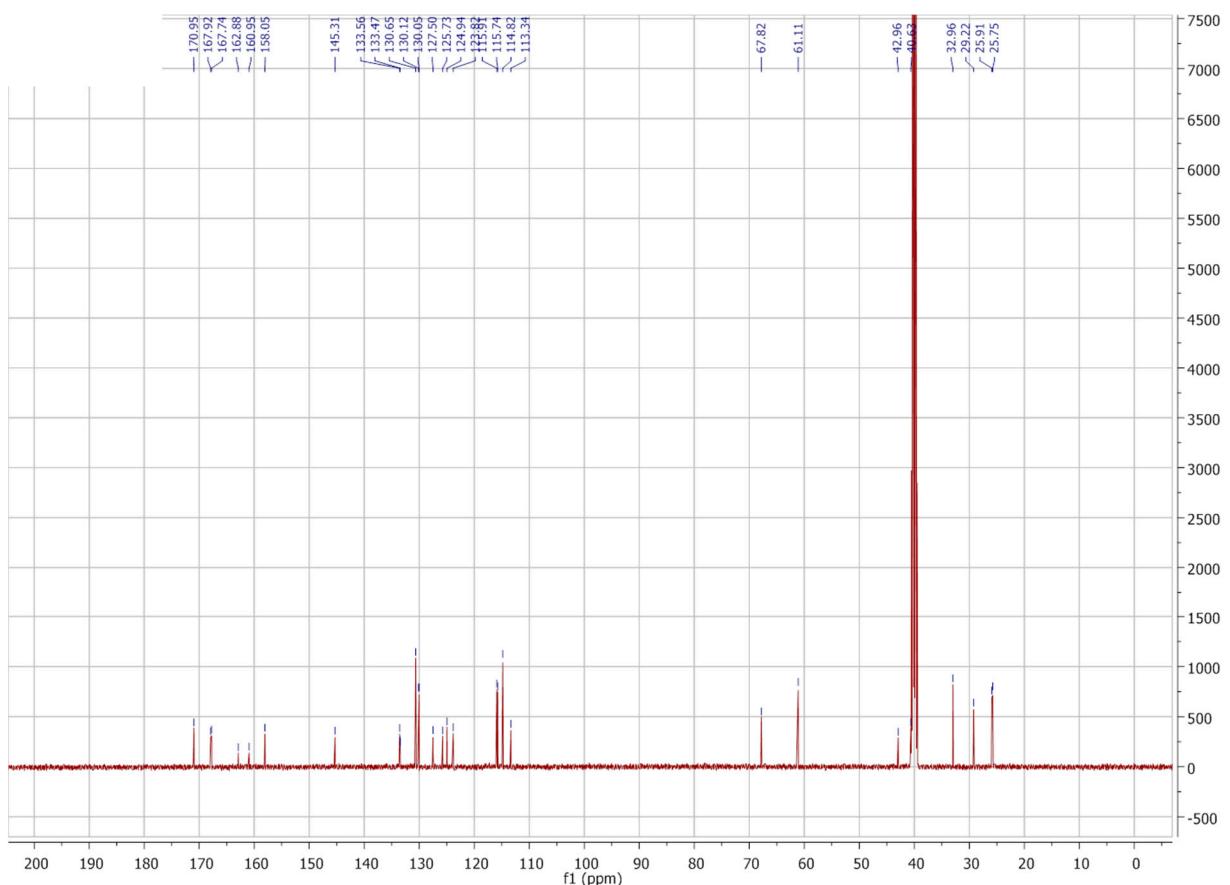


N-{2-[(4-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl}-2-{4-[(6-hydroxyhexyl)oxy]phenyl}acetamide (13n; ZHAWOC6643)

NMR

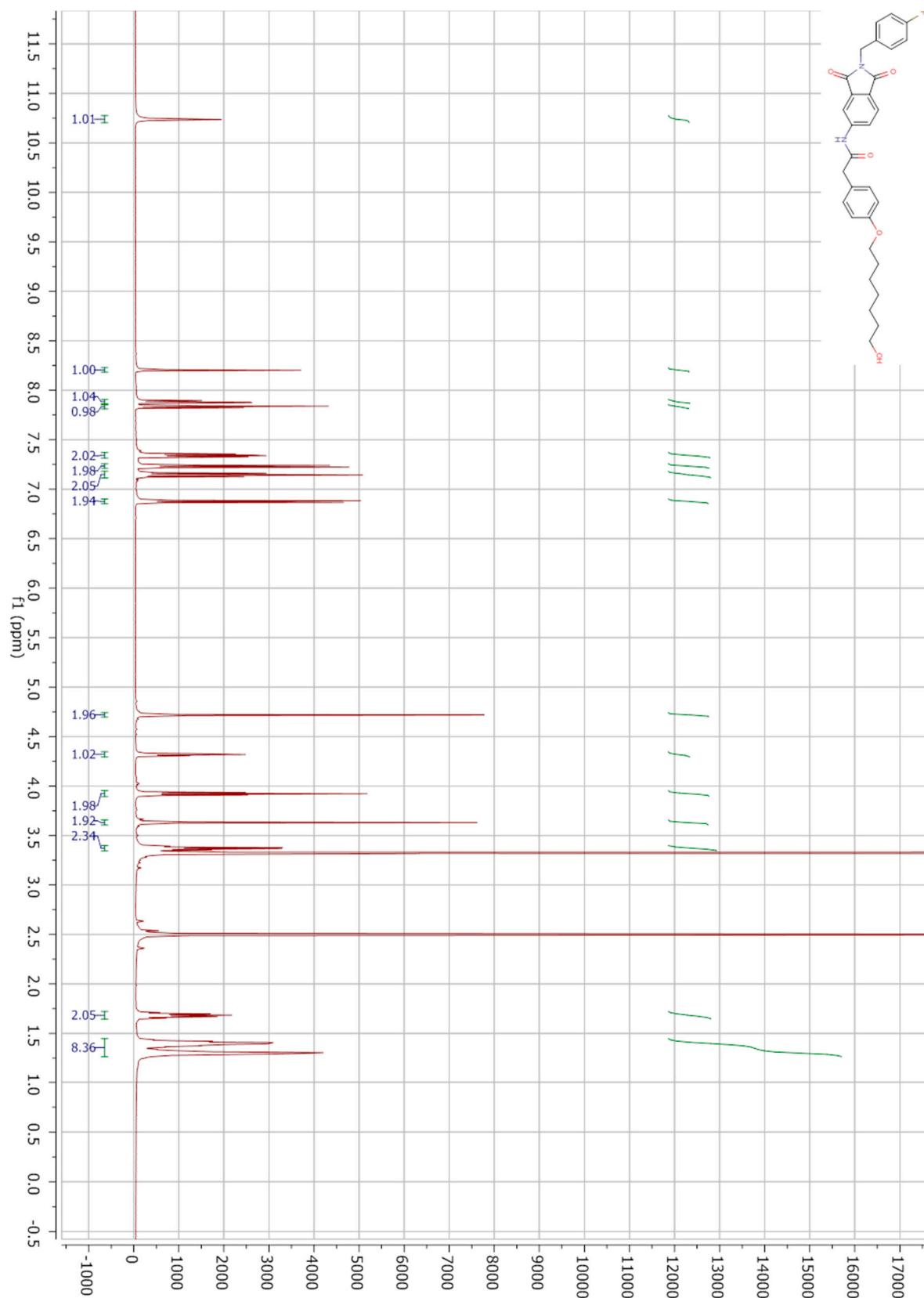


N-{2-[*(4*-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl}-2-{4-[6-hydroxyhexyl]oxy}phenylacetamide (**13n**; ZHAWOC6643)

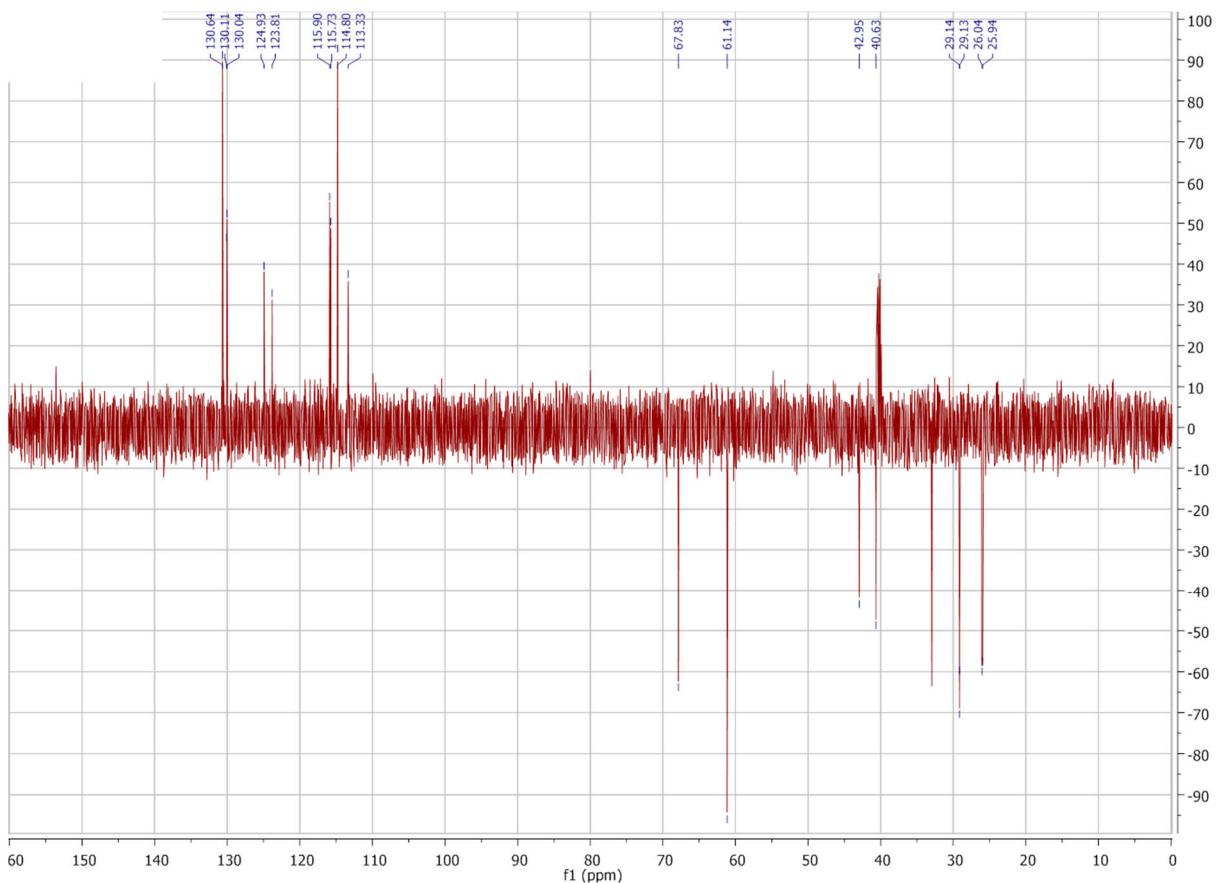
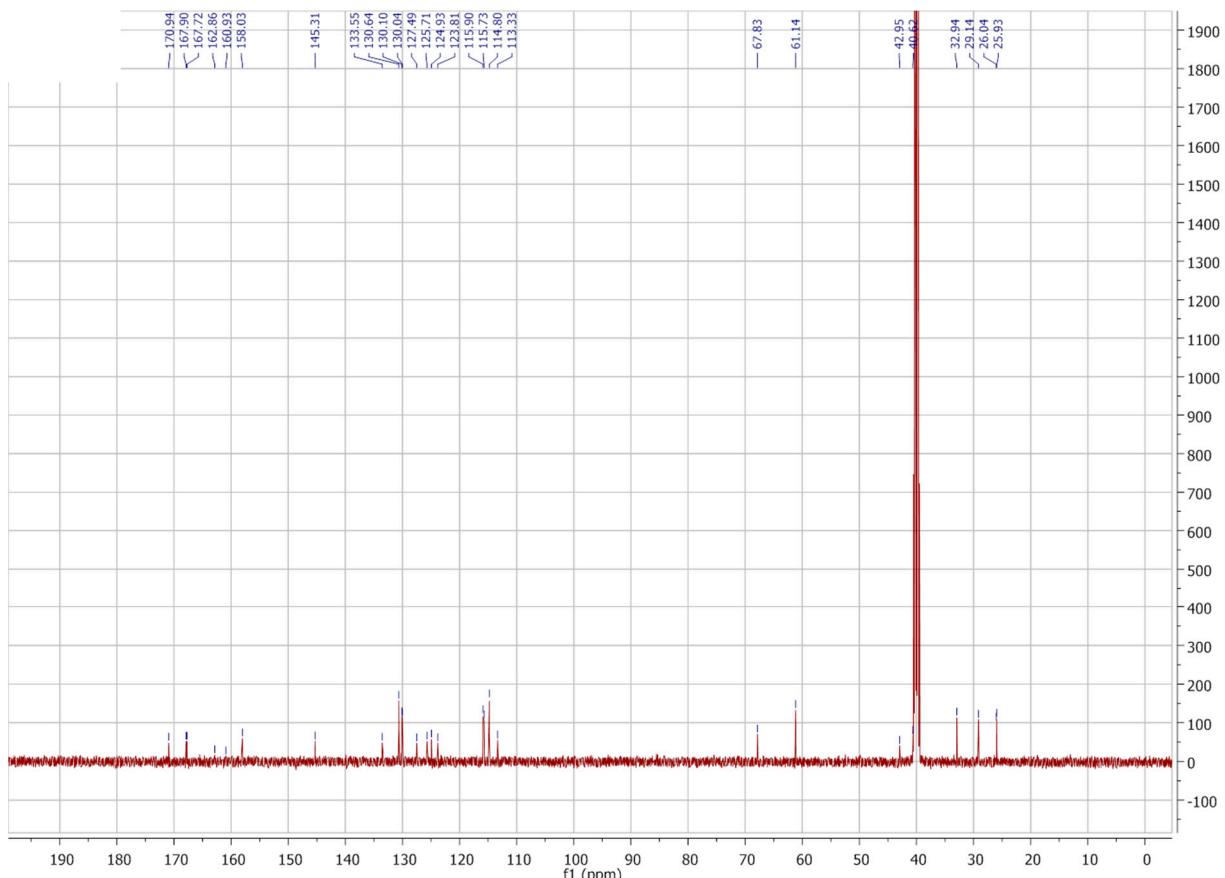


N-{2-[(4-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl}-2-{4-[(7-hydroxyheptyl)oxy]phenyl}acetamide (13o**; ZHAWOC6636)**

NMR

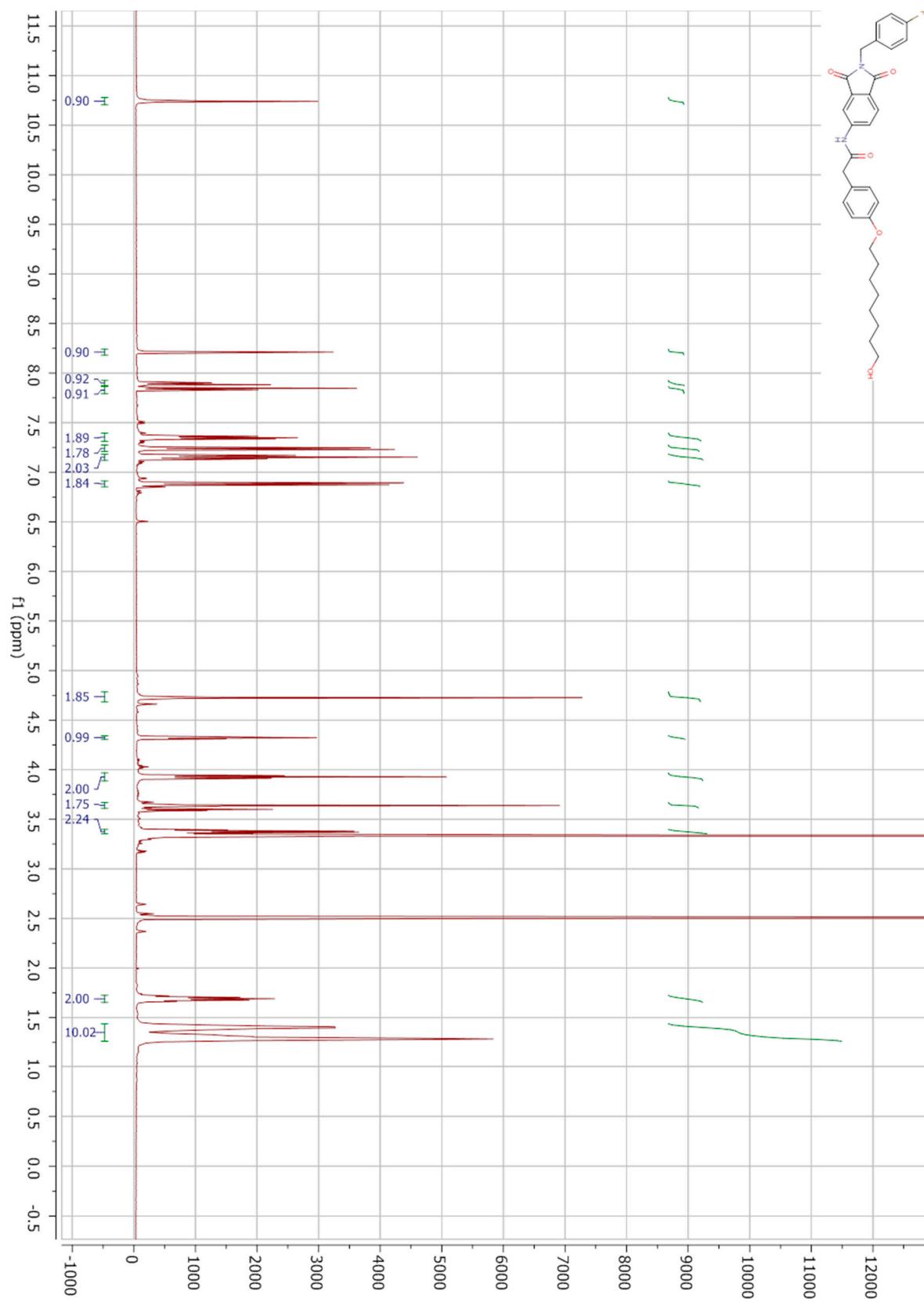


N-{2-[(4-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl}-2-{4-[(7-hydroxyheptyl)oxy]phenyl}acetamide (**13o**; ZHAWOC6636)

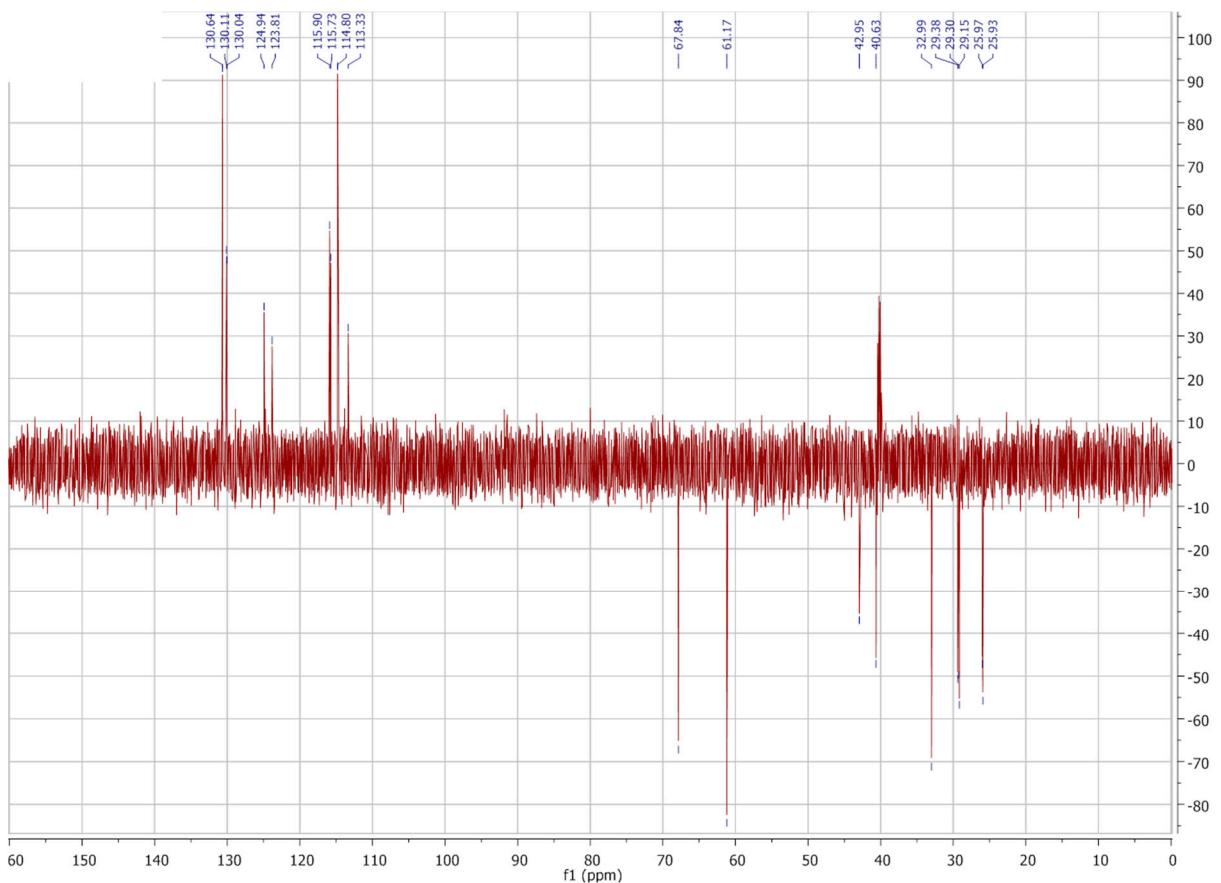
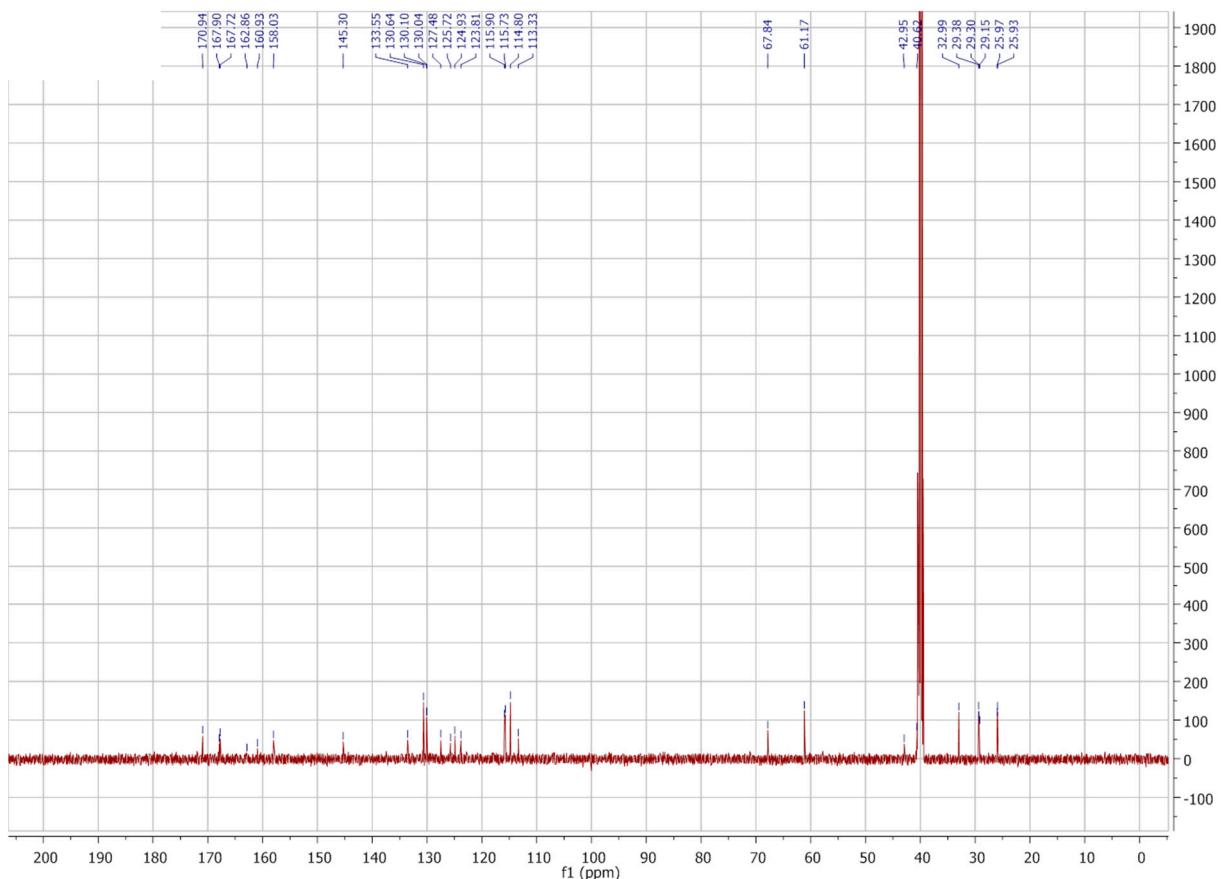


N-{2-[*(4*-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl}-2-{4-[*(8*-hydroxyoctyl)oxy]phenyl}acetamide (**13p**; ZHAWOC6639)

NMR

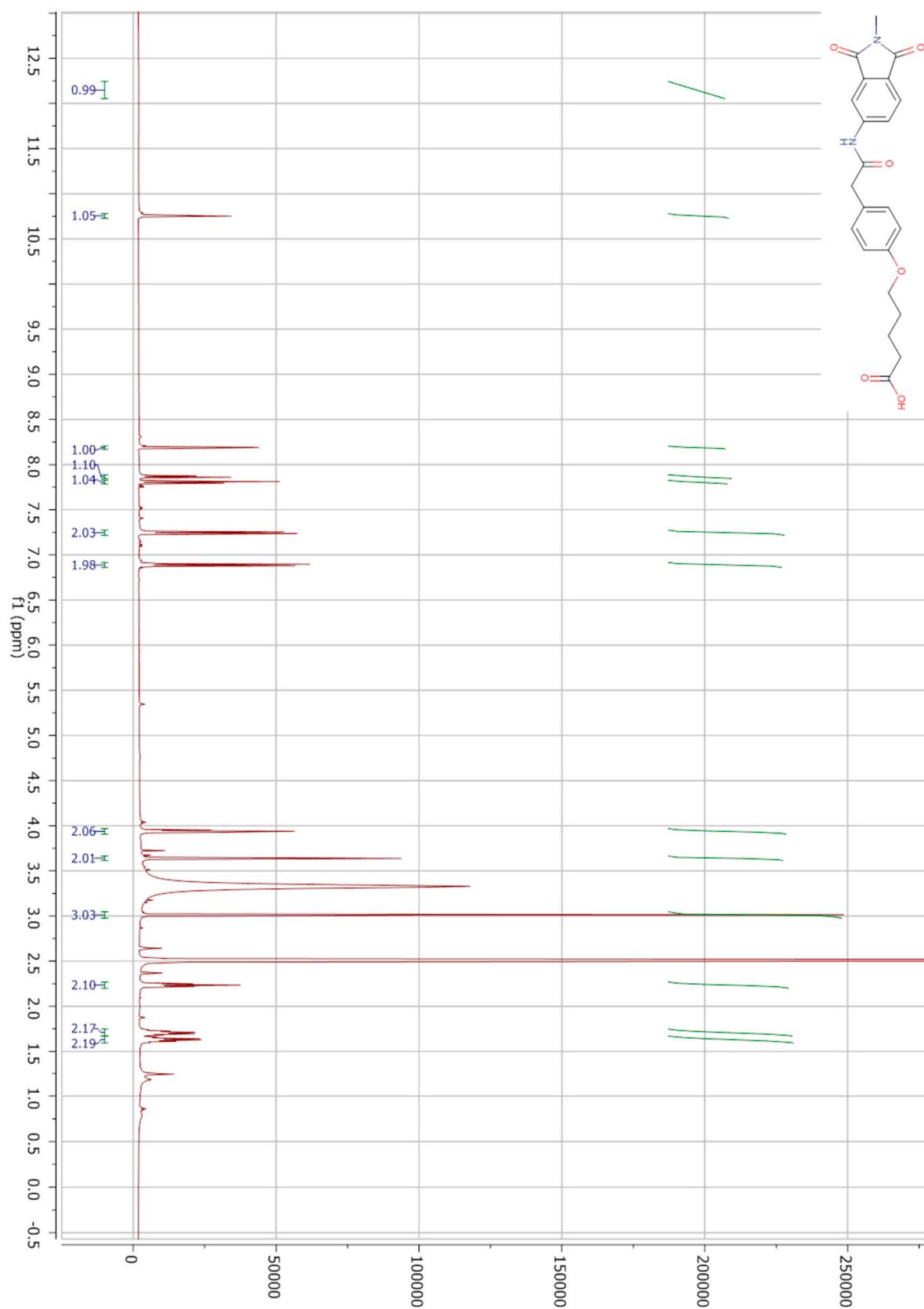


N-{2-[(4-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl}-2-{4-[(8-hydroxyoctyl)oxy]phenyl}acetamide (**13p**; ZHAWOC6639)

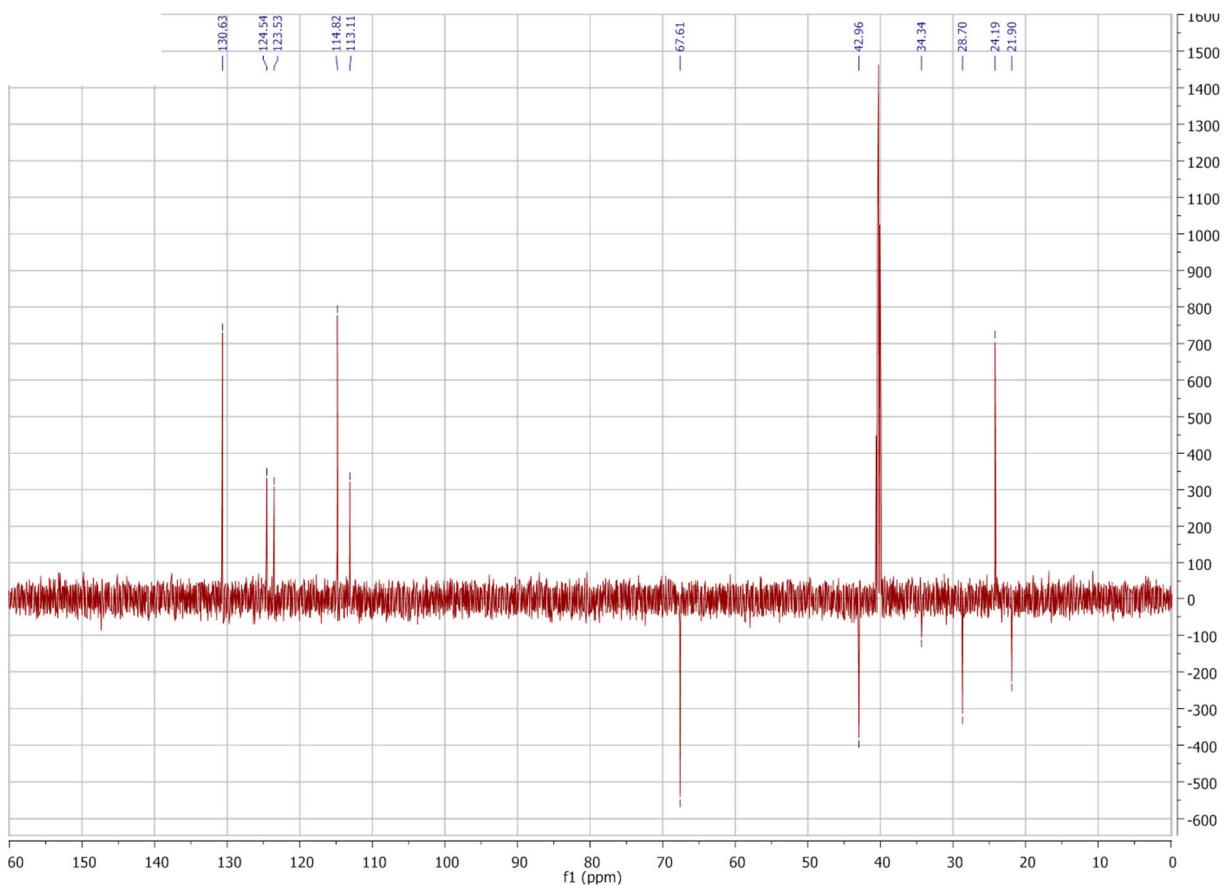
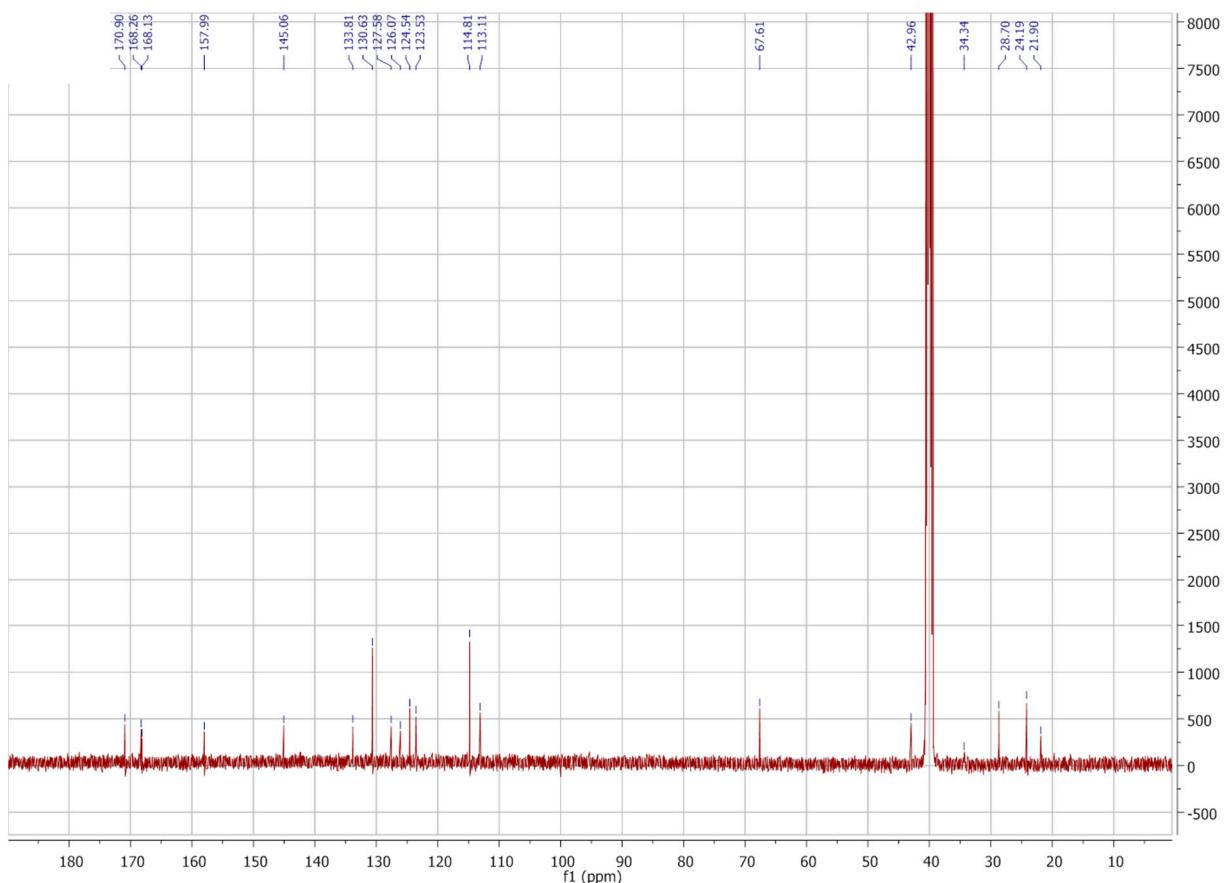


*5-(4-{[(2-methyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl)carbamoyl]methyl}phenoxy)pentanoic acid (**14a**; ZHAWOC6649)*

NMR

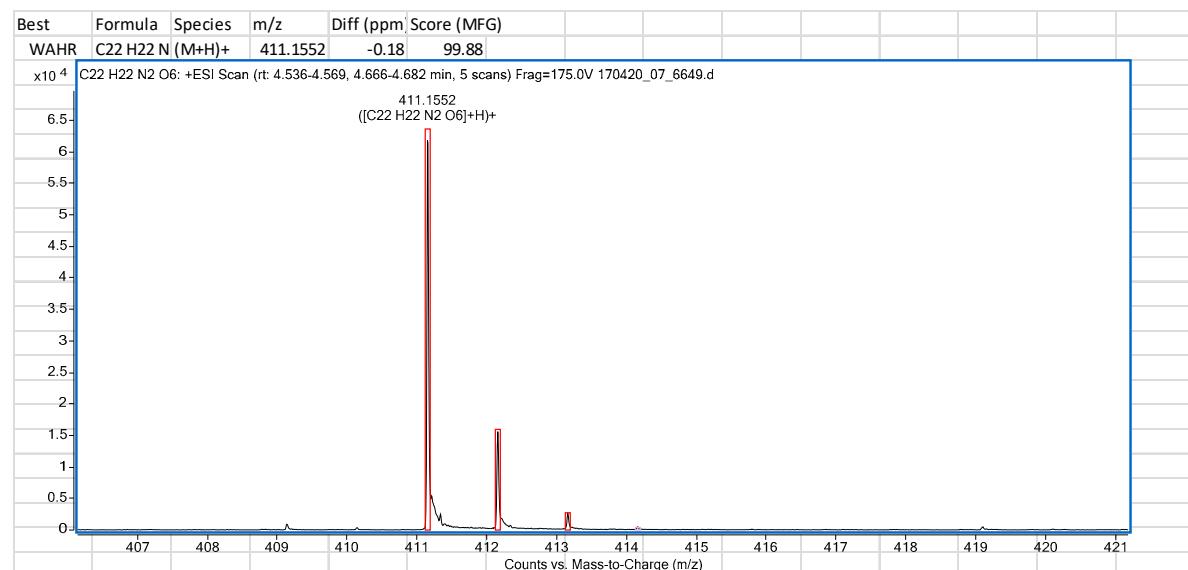


5-(4-{{(2-methyl-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl)carbamoyl}methyl}phenoxy)pentanoic acid (14a**; ZHAWOC6649)**



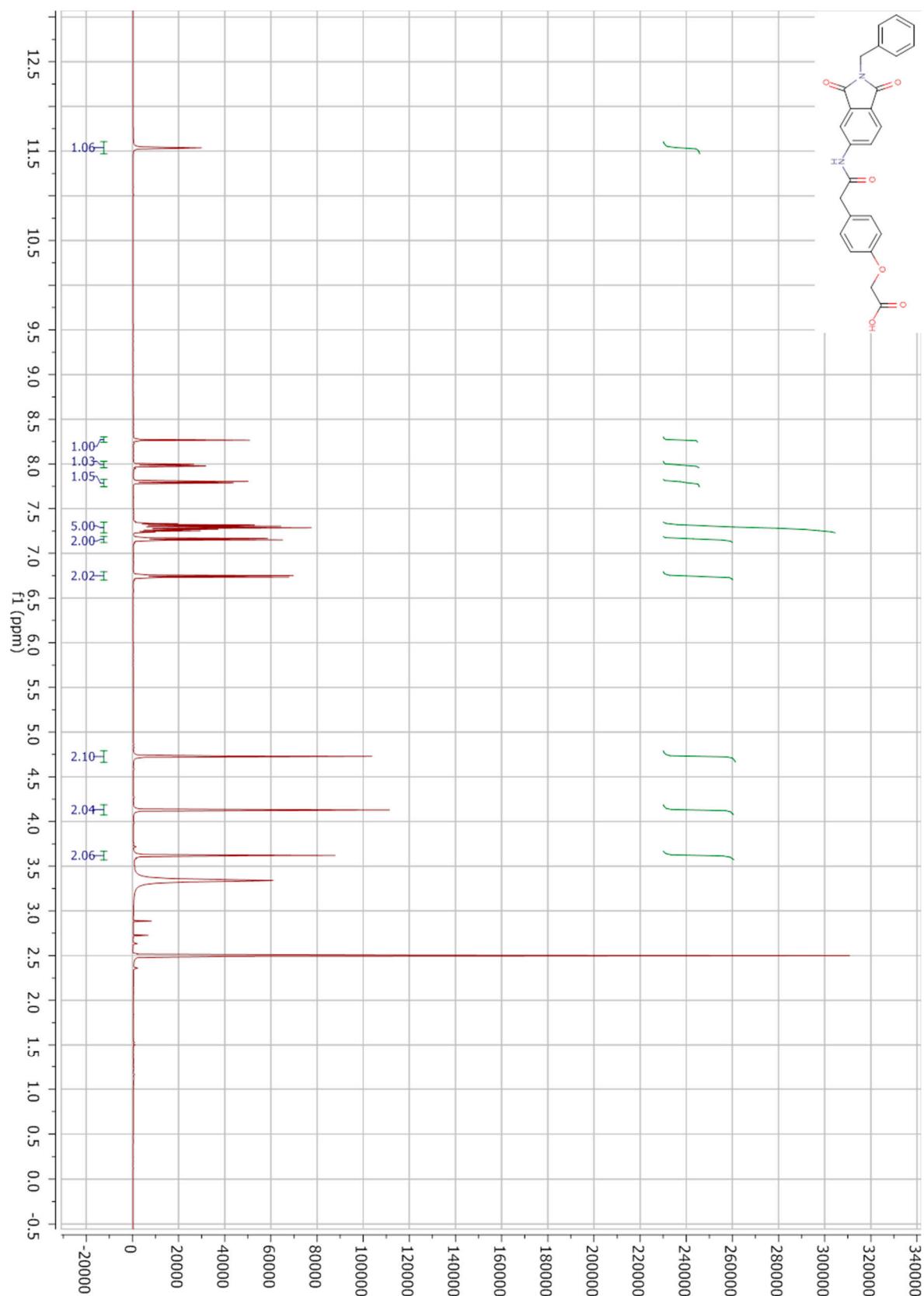
*5-(4-{[(2-methyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl)carbamoyl]methyl}phenoxy)pentanoic acid (**14a**; ZHAWOC6649)*

HRMS

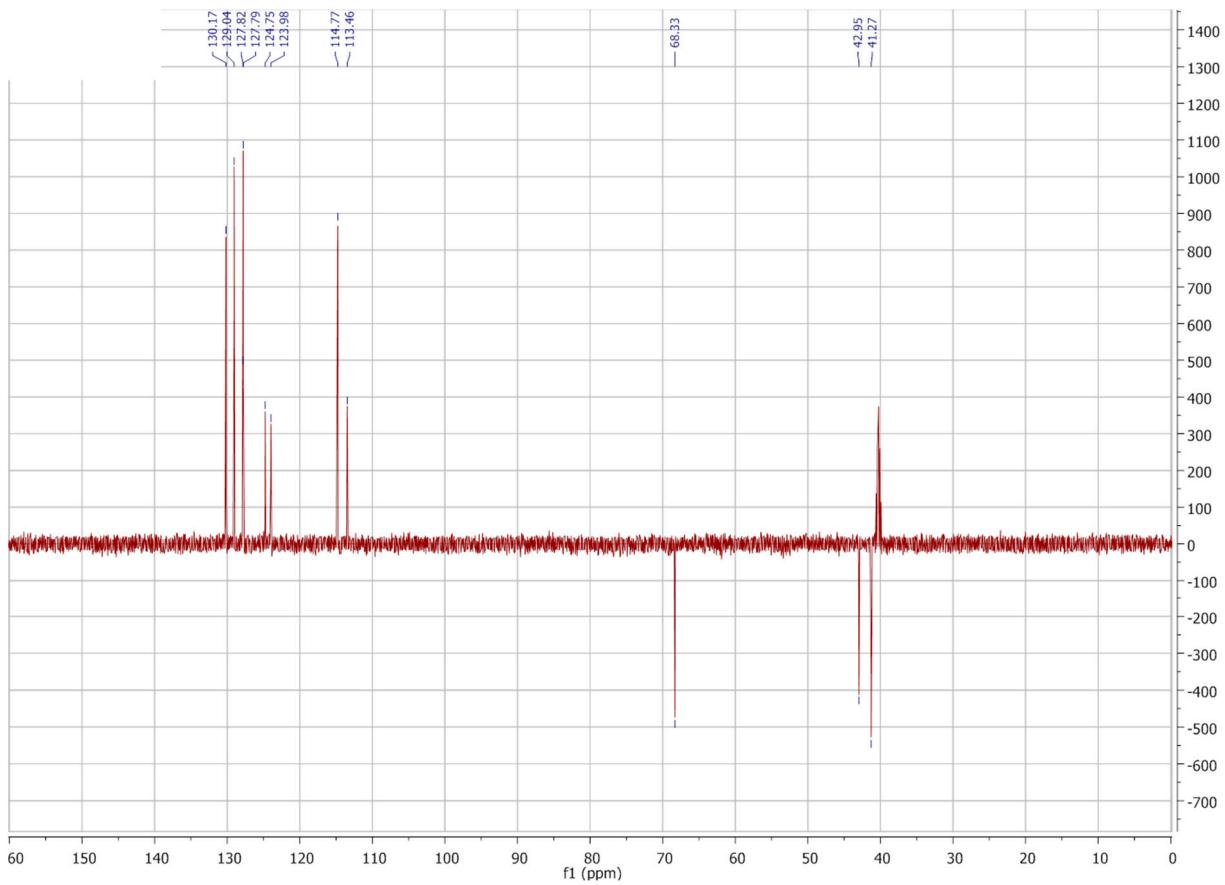
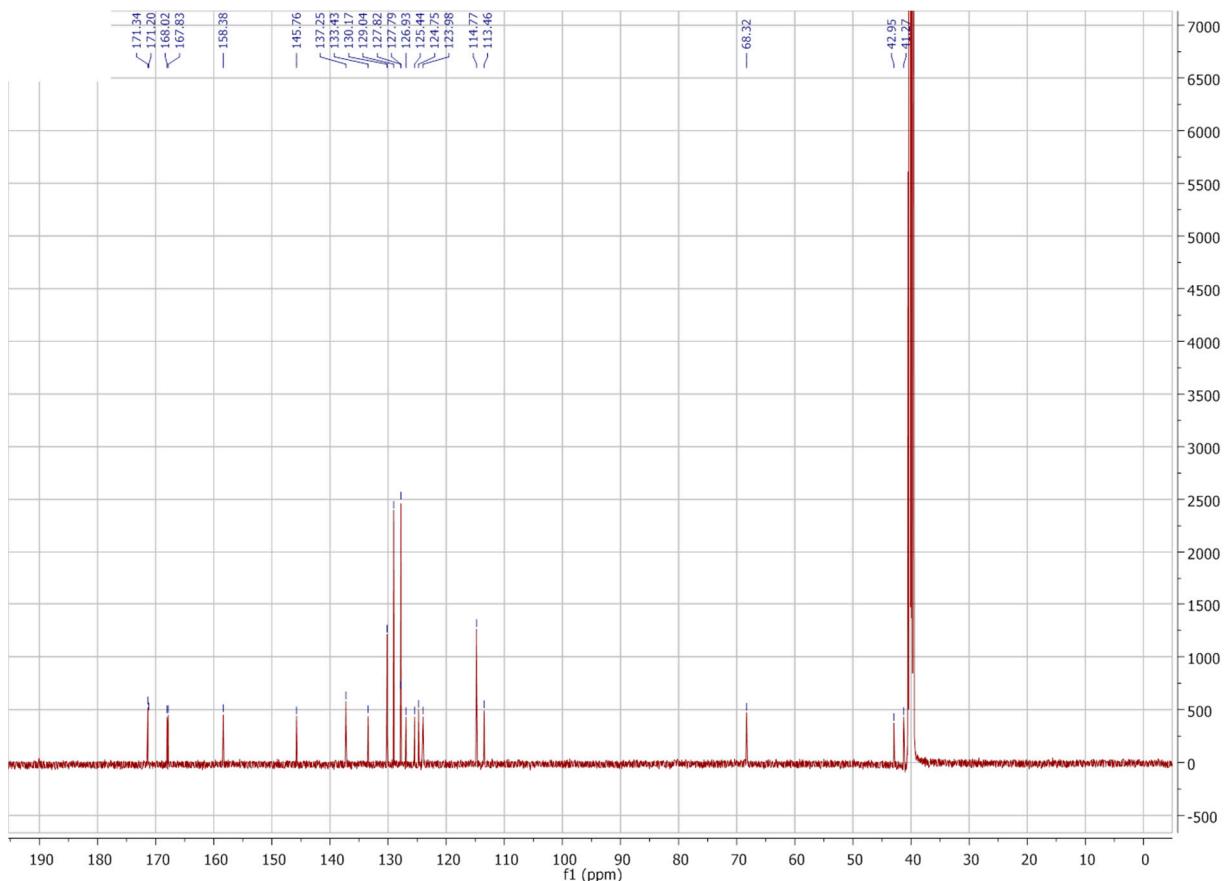


*2-(4-{[(2-benzyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl)carbamoyl]methyl}phenoxy)acetic acid (**14b**; ZHAWOC5474)*

NMR

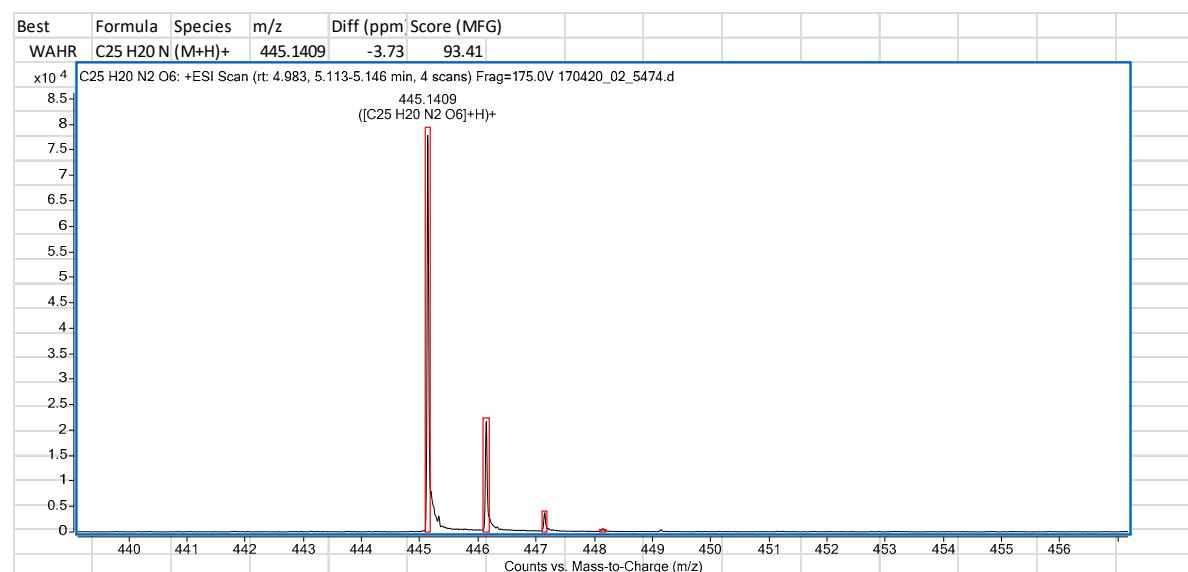


2-(4-{{(2-benzyl-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl)carbamoyl}methyl}phenoxy)acetic acid (14b**; ZHAWOC5474)**



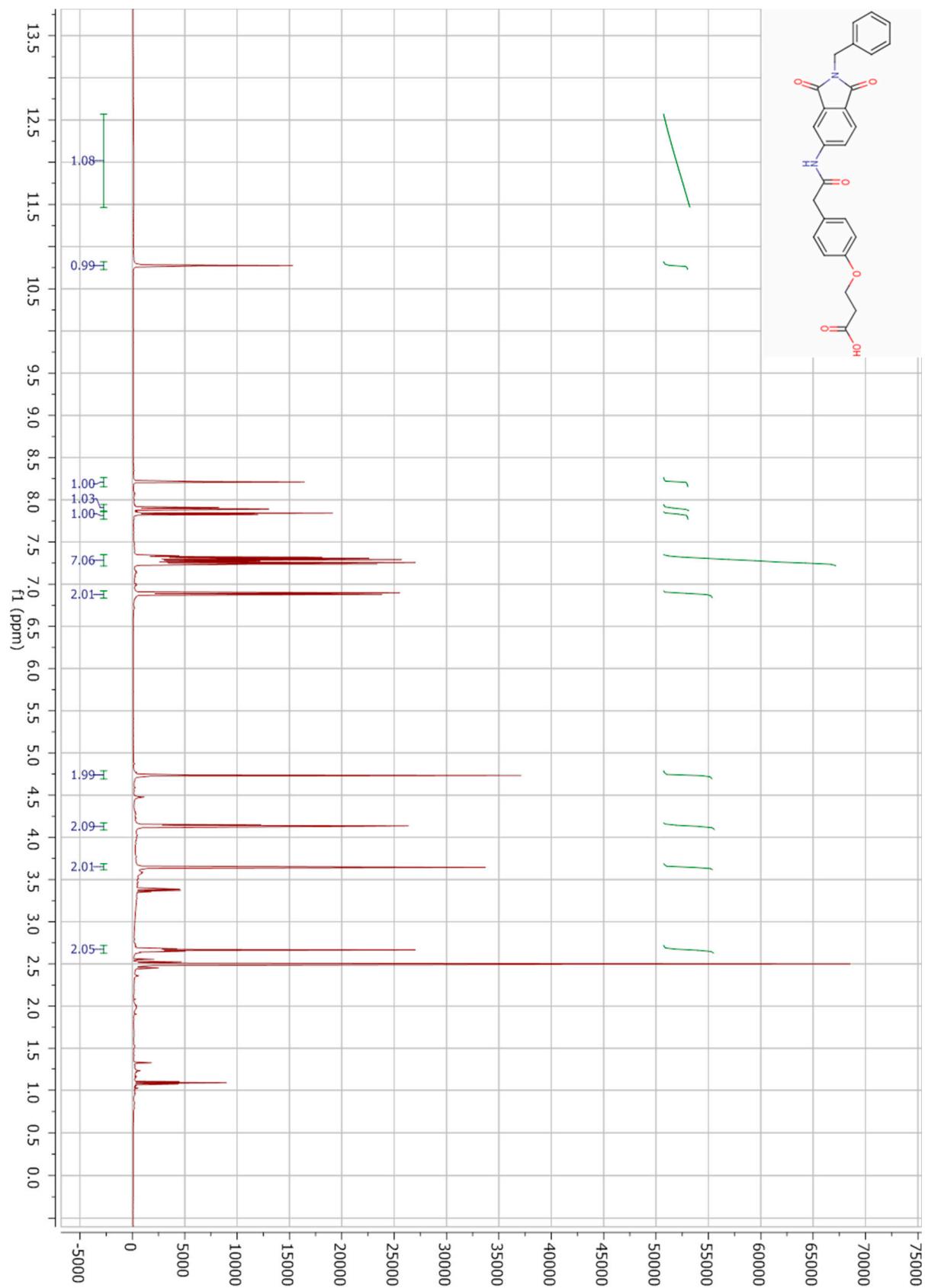
2-(4-{[(2-benzyl-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl)carbamoyl]methyl}phenoxy)acetic acid (14b**; ZHAWOC5474)**

HRMS

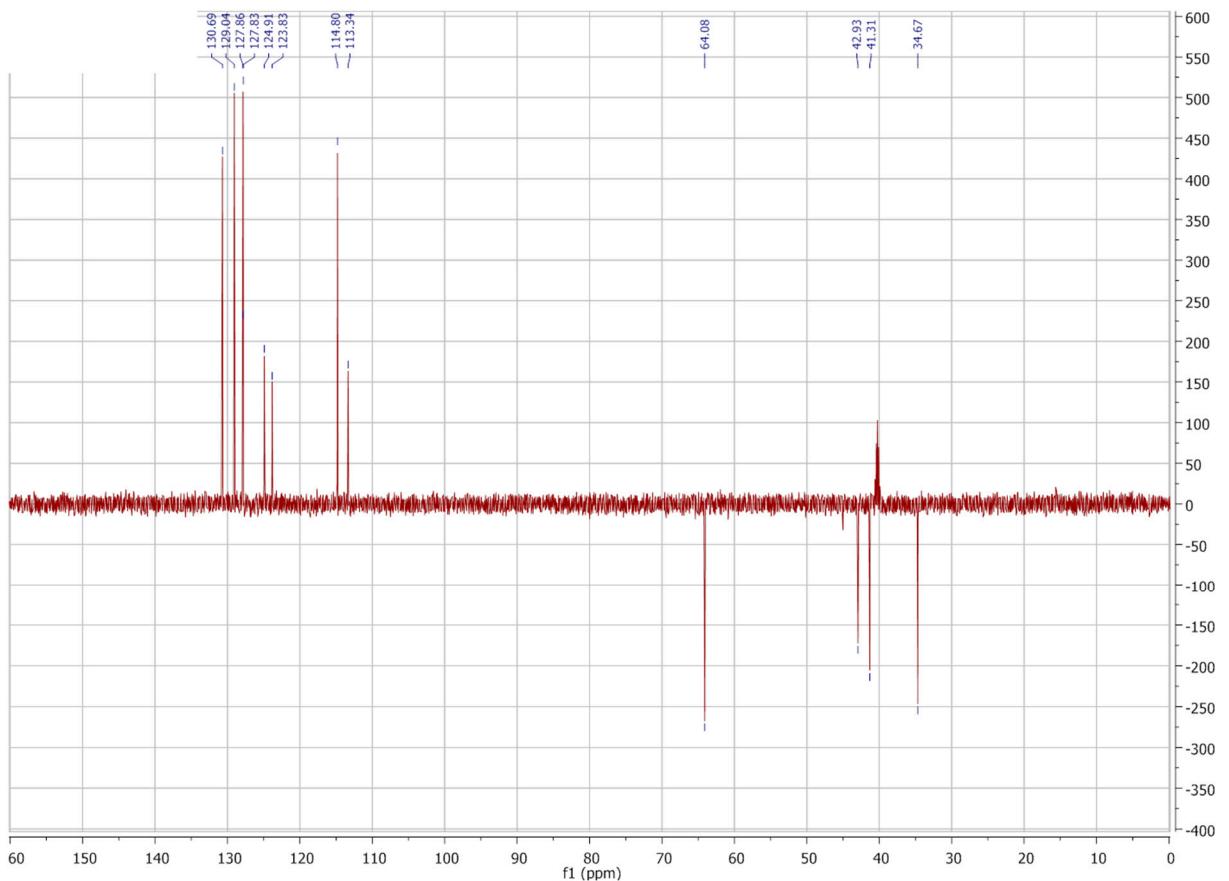
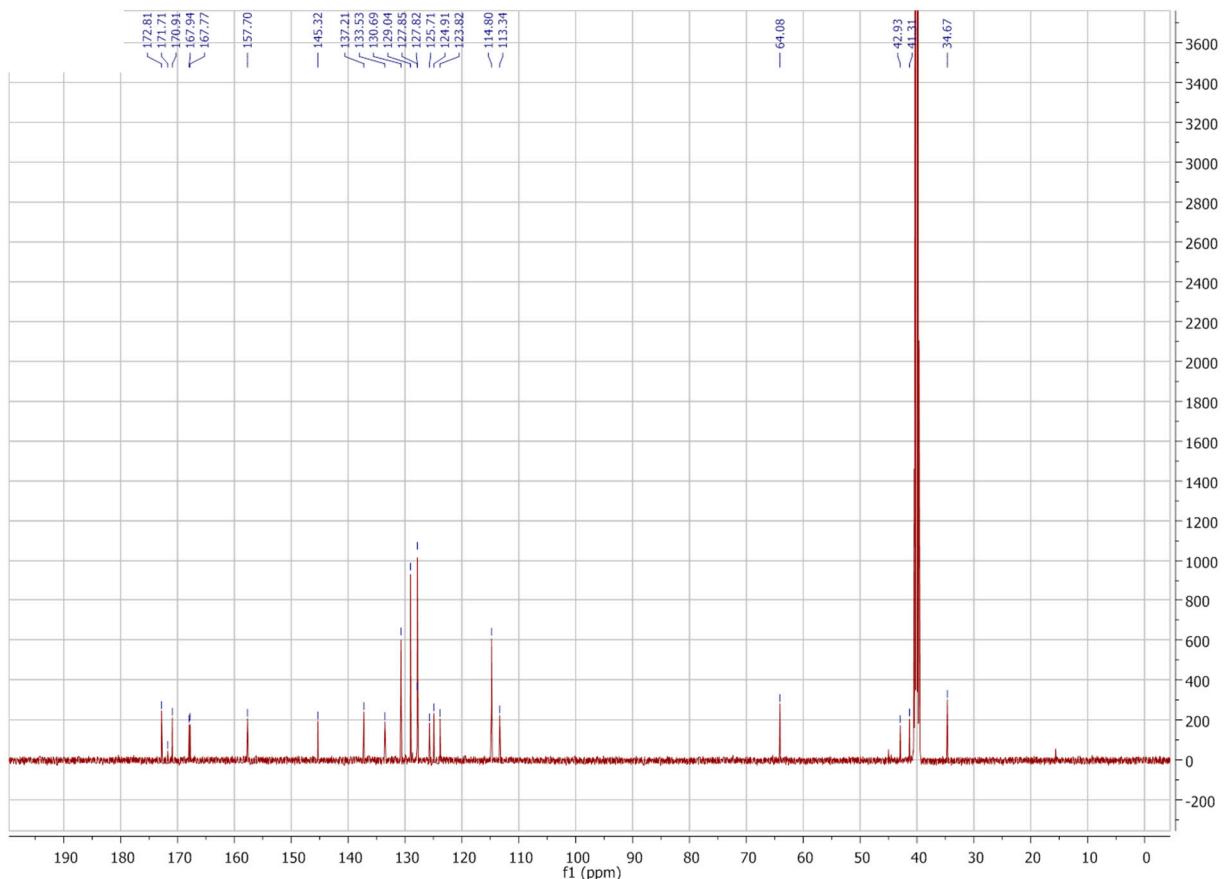


*3-(4-{[(2-benzyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl)carbamoyl]methyl}phenoxy)propanoic acid (**14c**; ZHAWOC4765)*

NMR

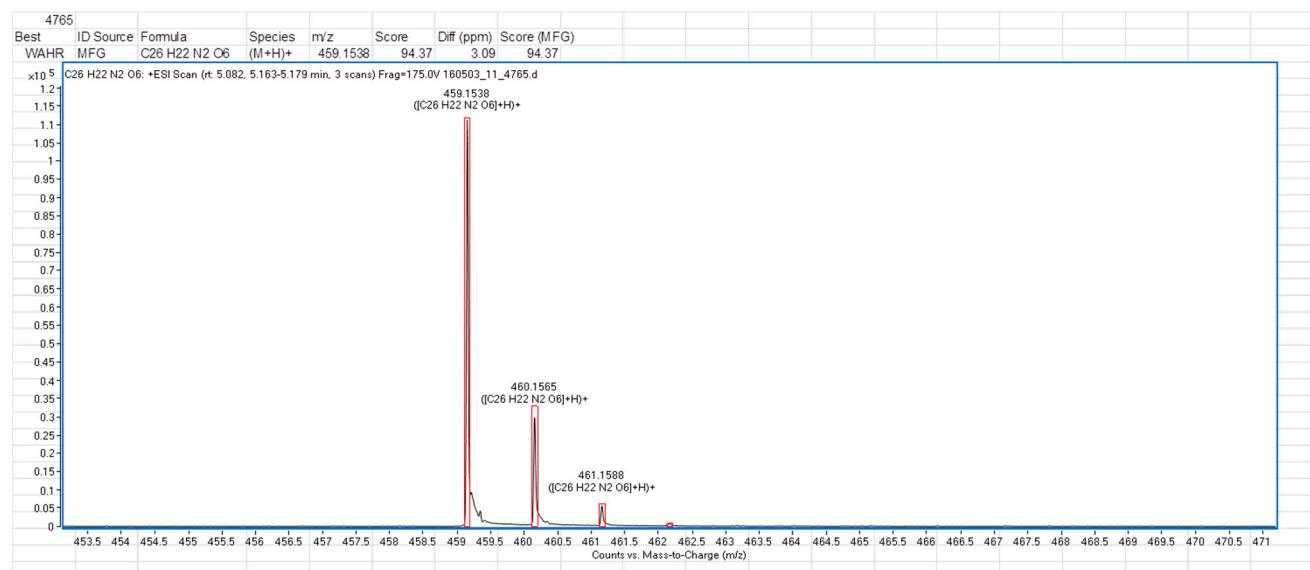


3-(4-{{[2-benzyl-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl]carbamoyl}methyl}phenoxy)propanoic acid (14c**; ZHAWOC4765)**

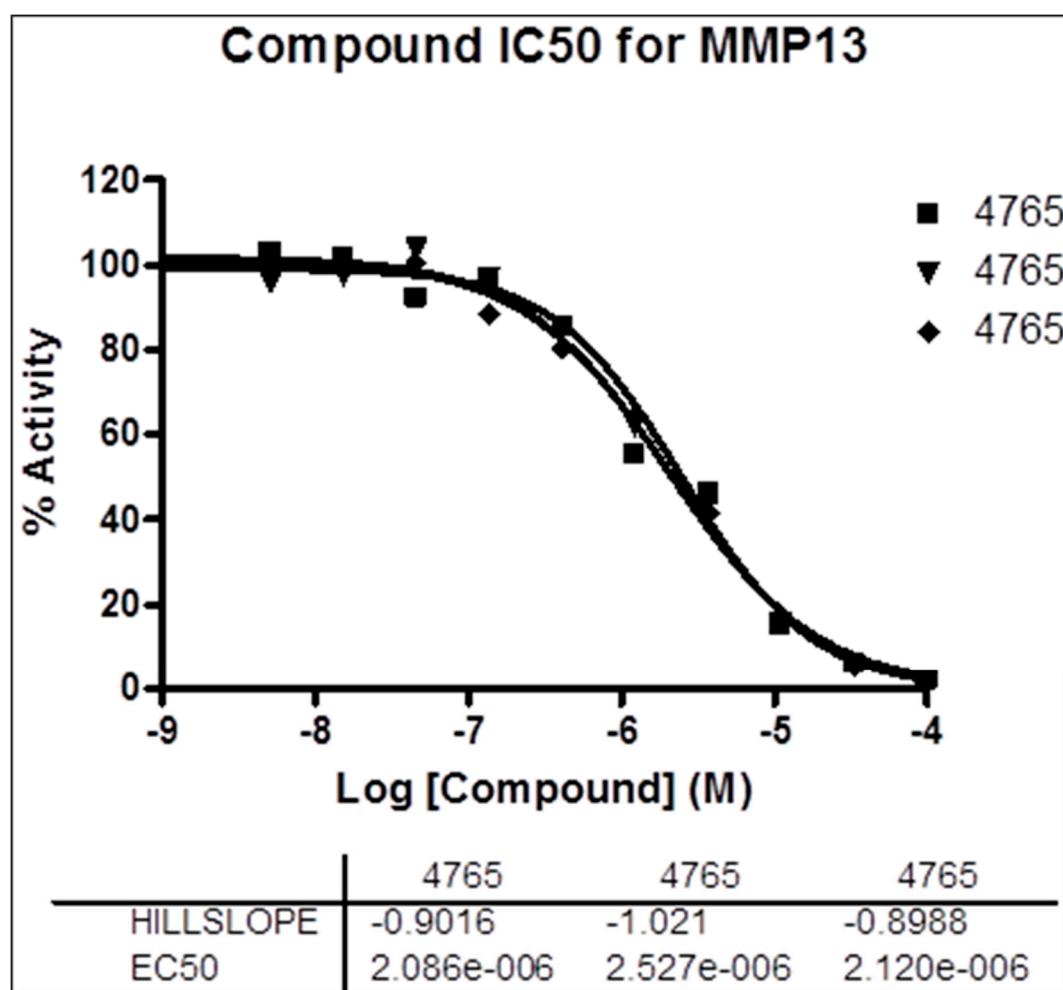


3-(4-{[(2-benzyl-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl)carbamoyl]methyl}phenoxy)propanoic acid (14c**; ZHAWOC4765)**

HRMS

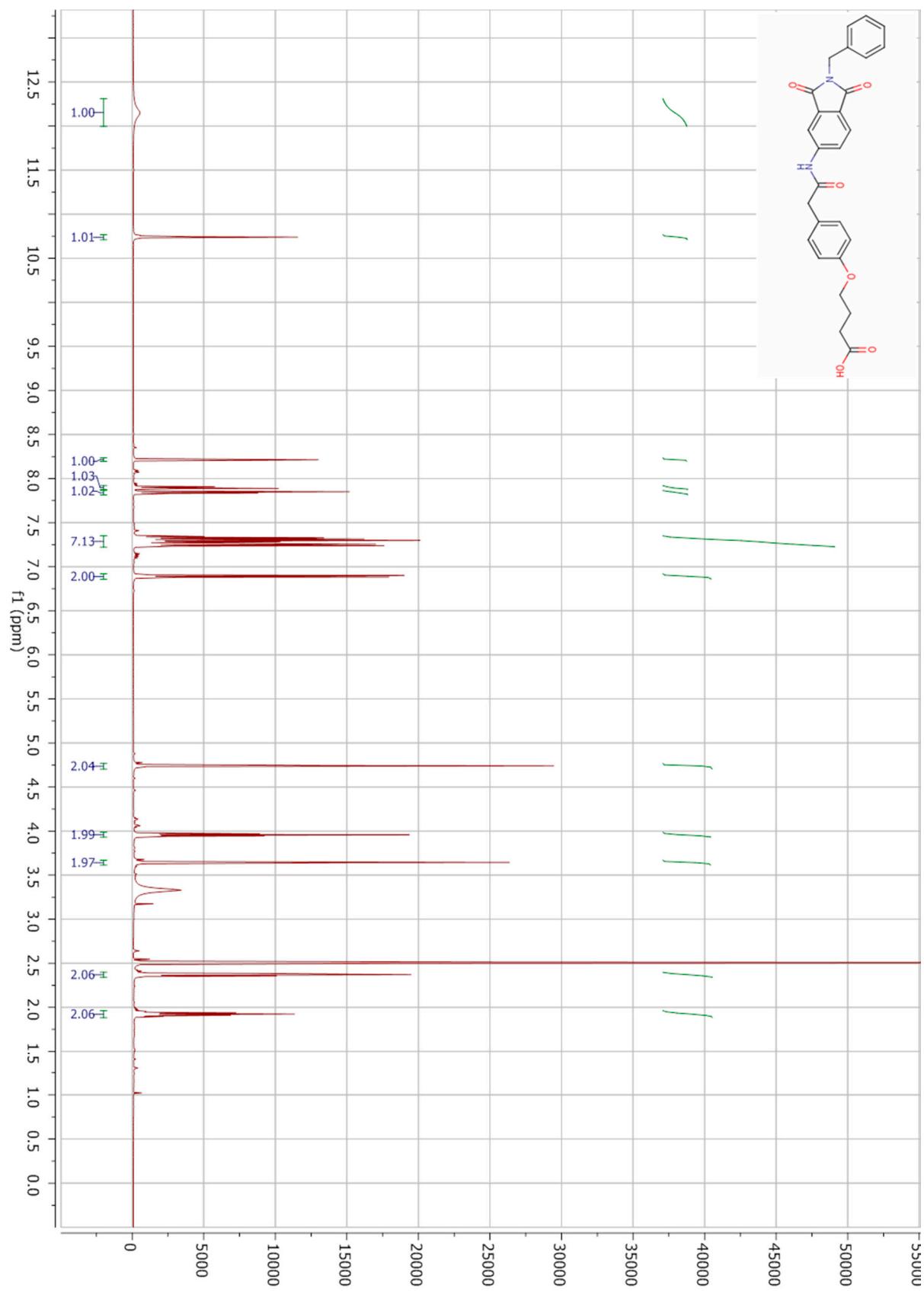


IC₅₀

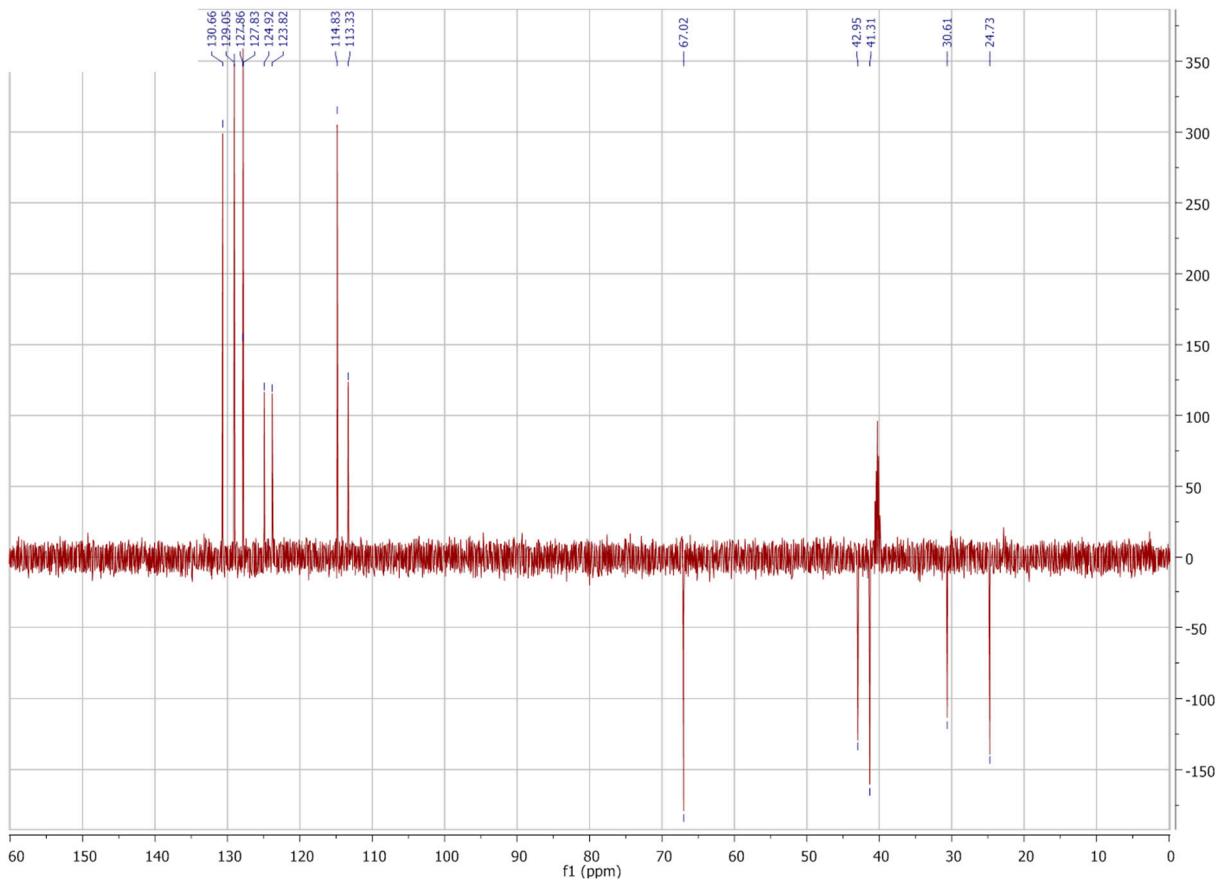
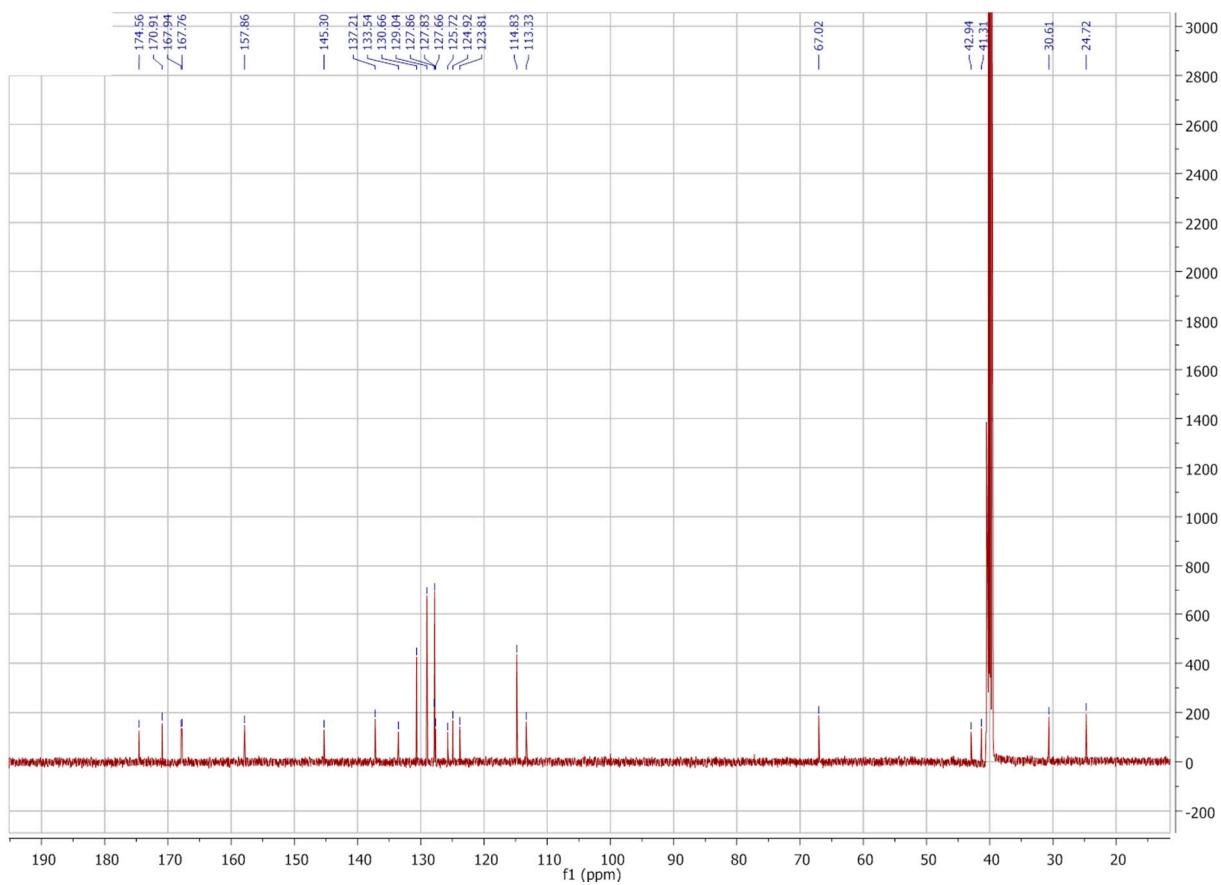


*4-(4-{{[(2-benzyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl)carbamoyl]methyl}phenoxy)butanoic acid (**14d**; ZHAWOC4766)*

NMR

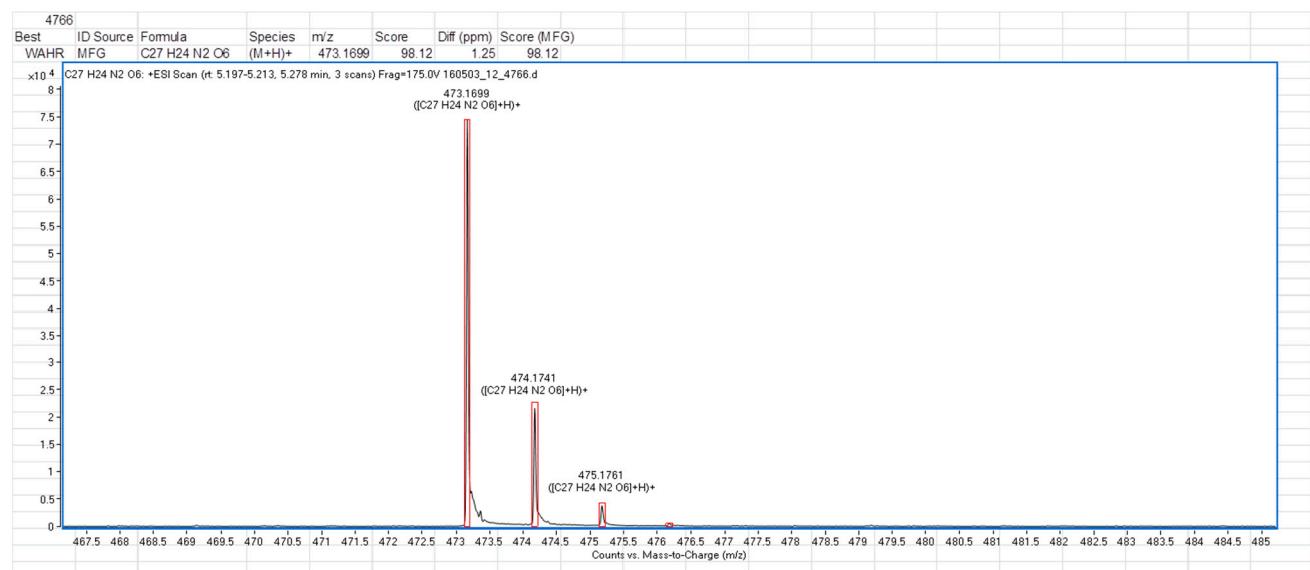


4-(4-{{(2-benzyl-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl)carbamoyl}methyl}phenoxy)butanoic acid (14d**; ZHAWOC4766)**

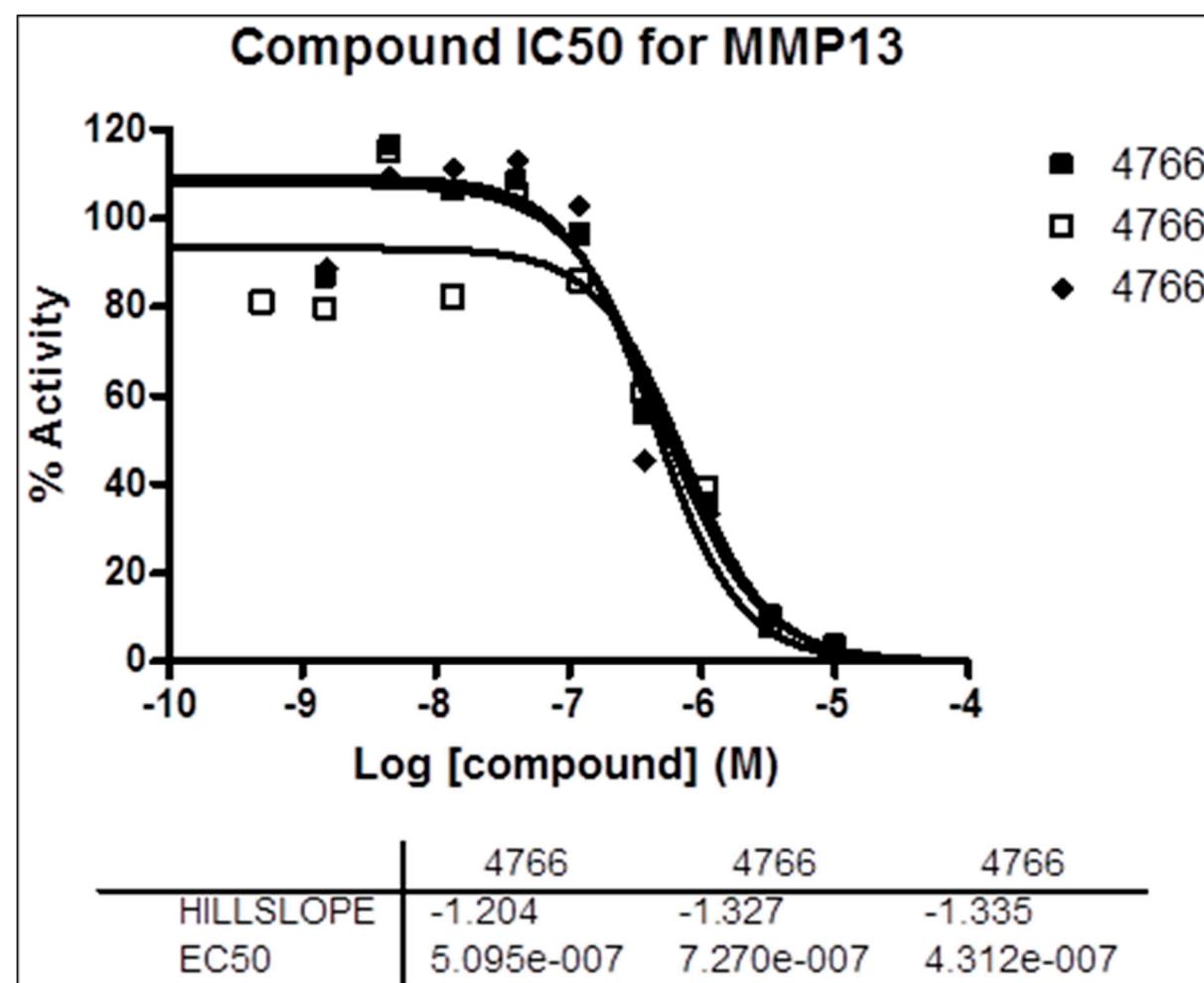


4-(4-{{[2-benzyl-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl]carbamoyl}methyl}phenoxy)butanoic acid (14d**; ZHAWOC4766)**

HRMS

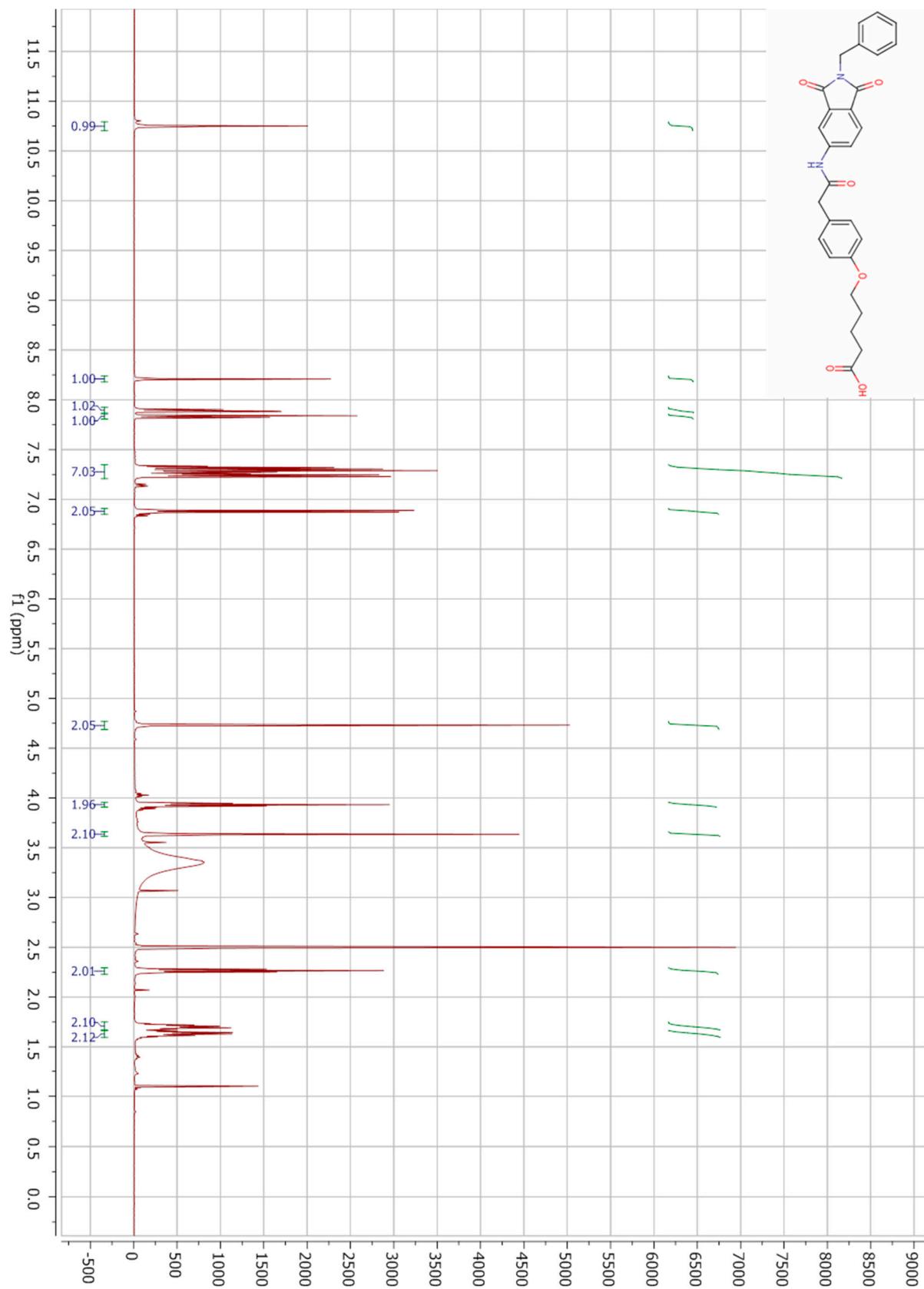


IC₅₀

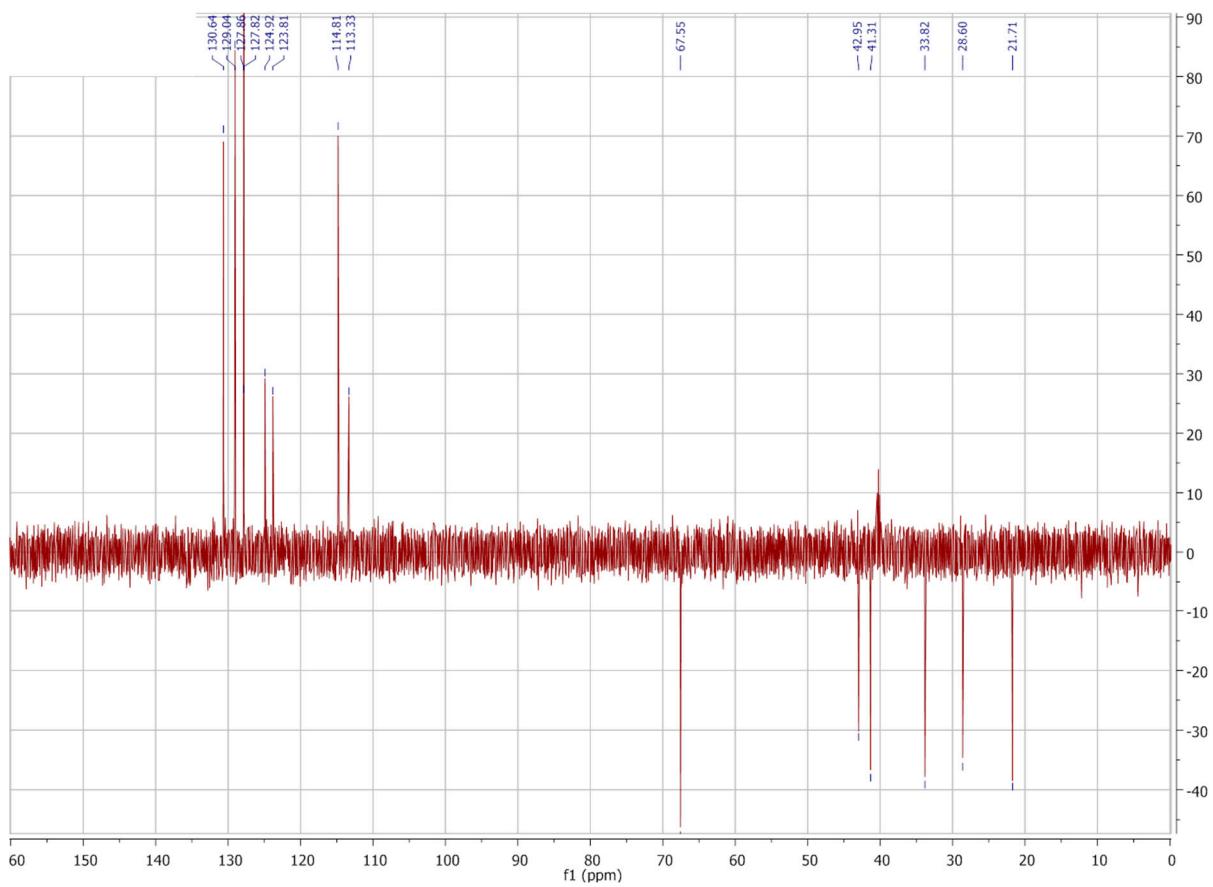
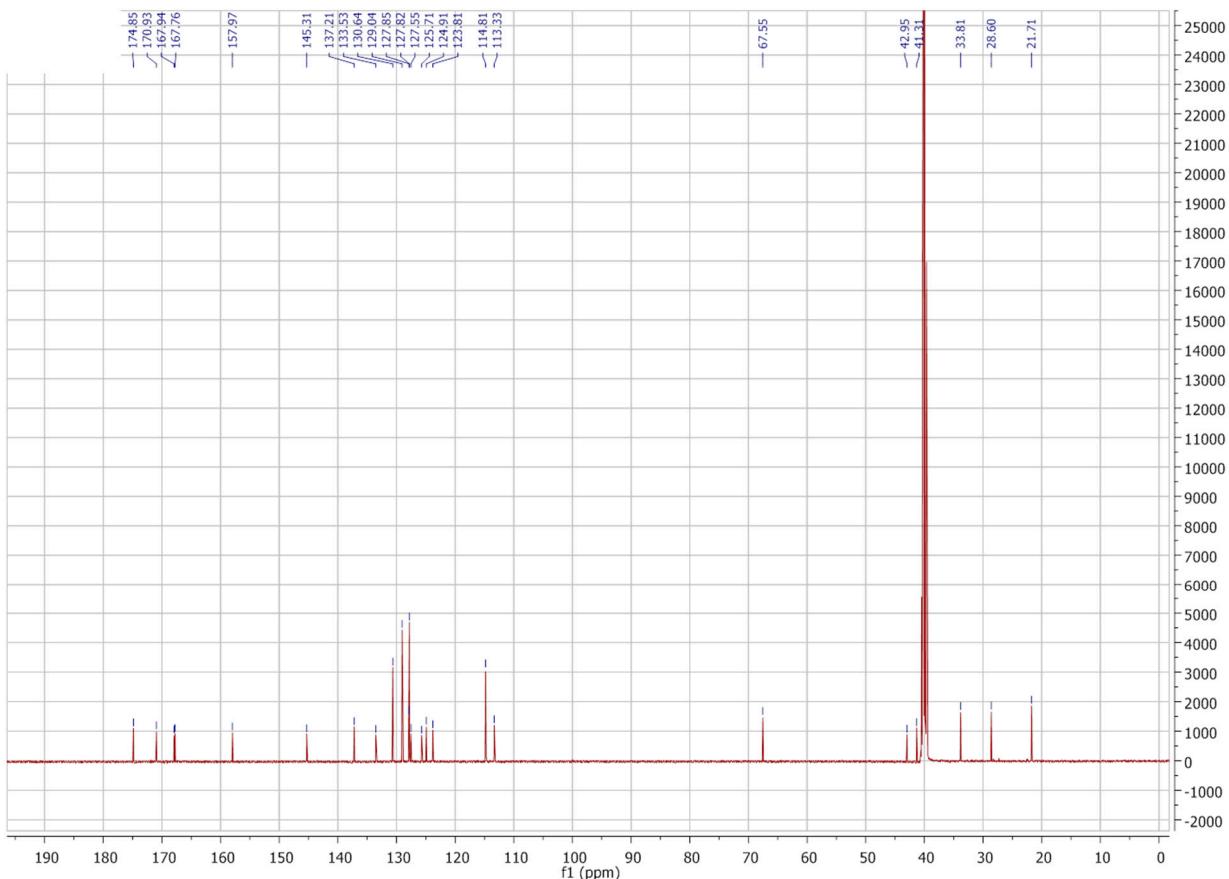


*5-(4-{[(2-benzyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl)carbamoyl]methyl}phenoxy)pentanoic acid (**14e**; ZHAWOC5131)*

NMR

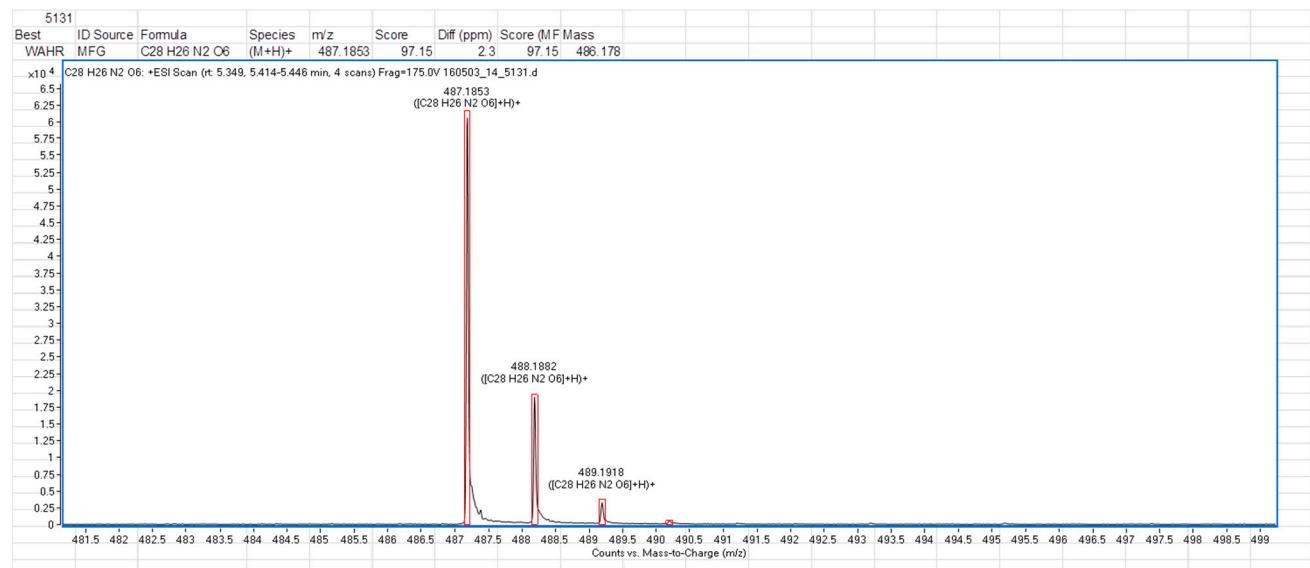


5-(4-{{[2-benzyl-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl]carbamoyl}methyl}phenoxy)pentanoic acid (14e**; ZHAWOC5131)**

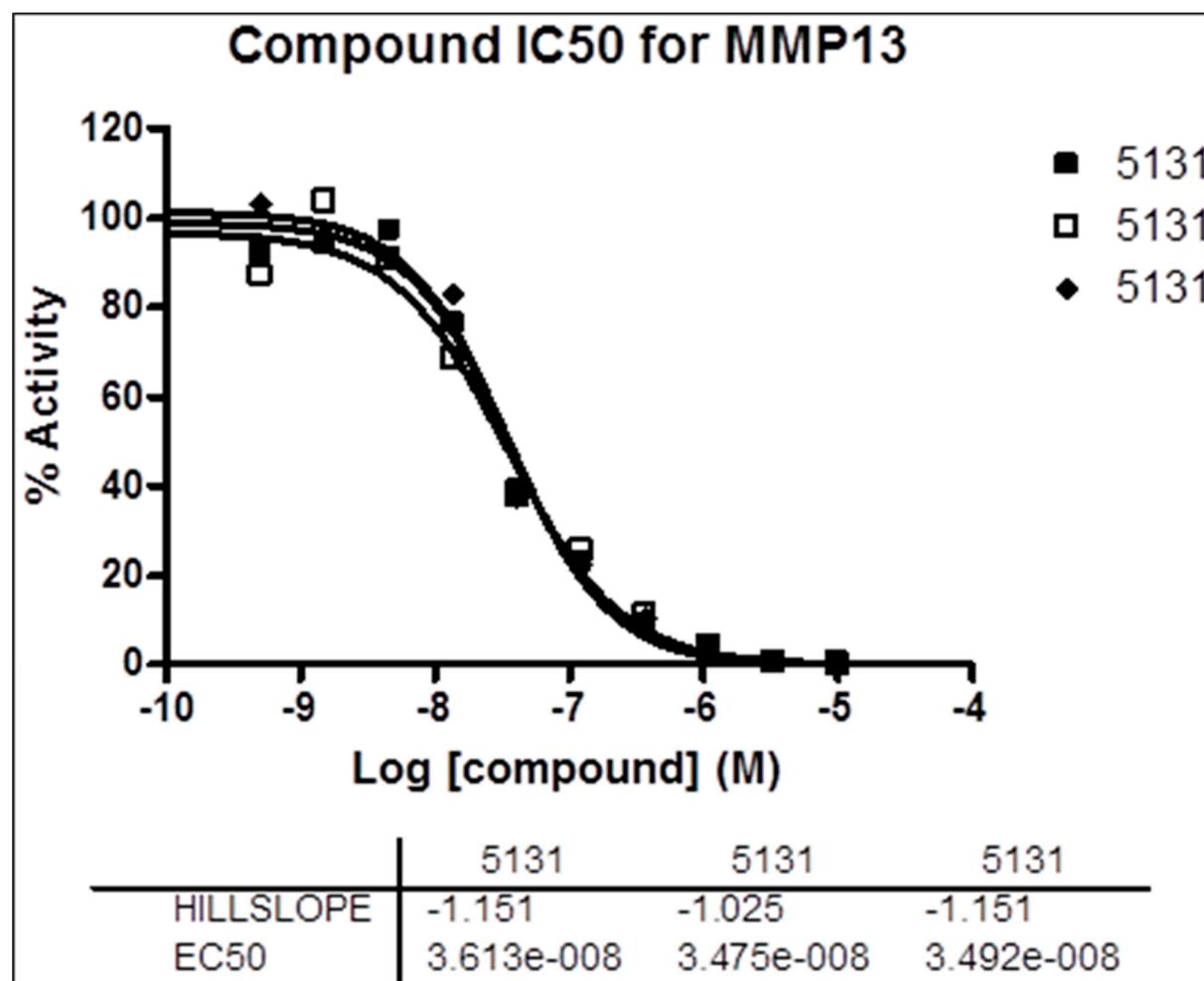


*5-(4-{[(2-benzyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-*y*l)carbamoyl]methyl}phenoxy)pentanoic acid (**14e**; ZHAWOC5131)*

HRMS

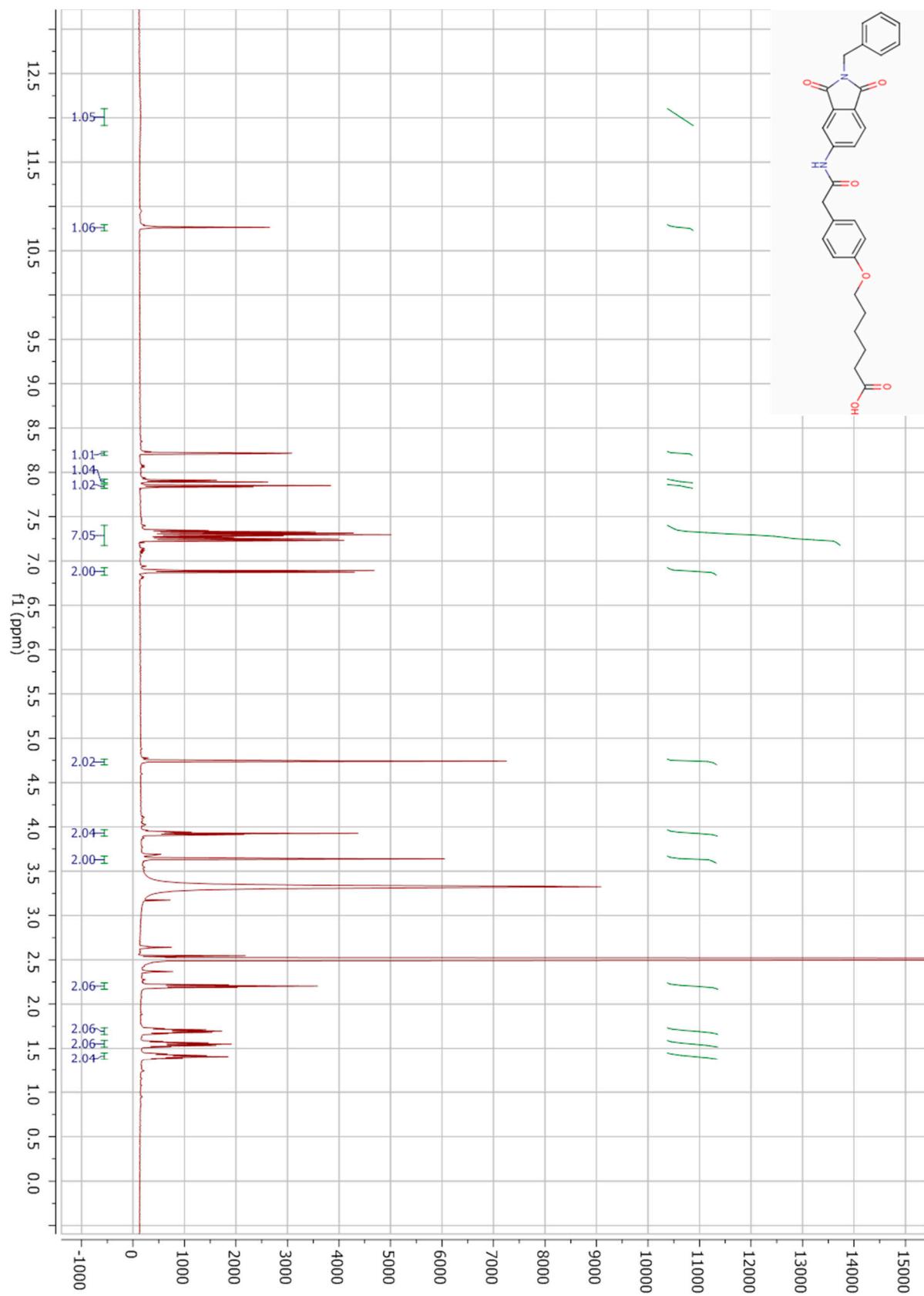


IC₅₀

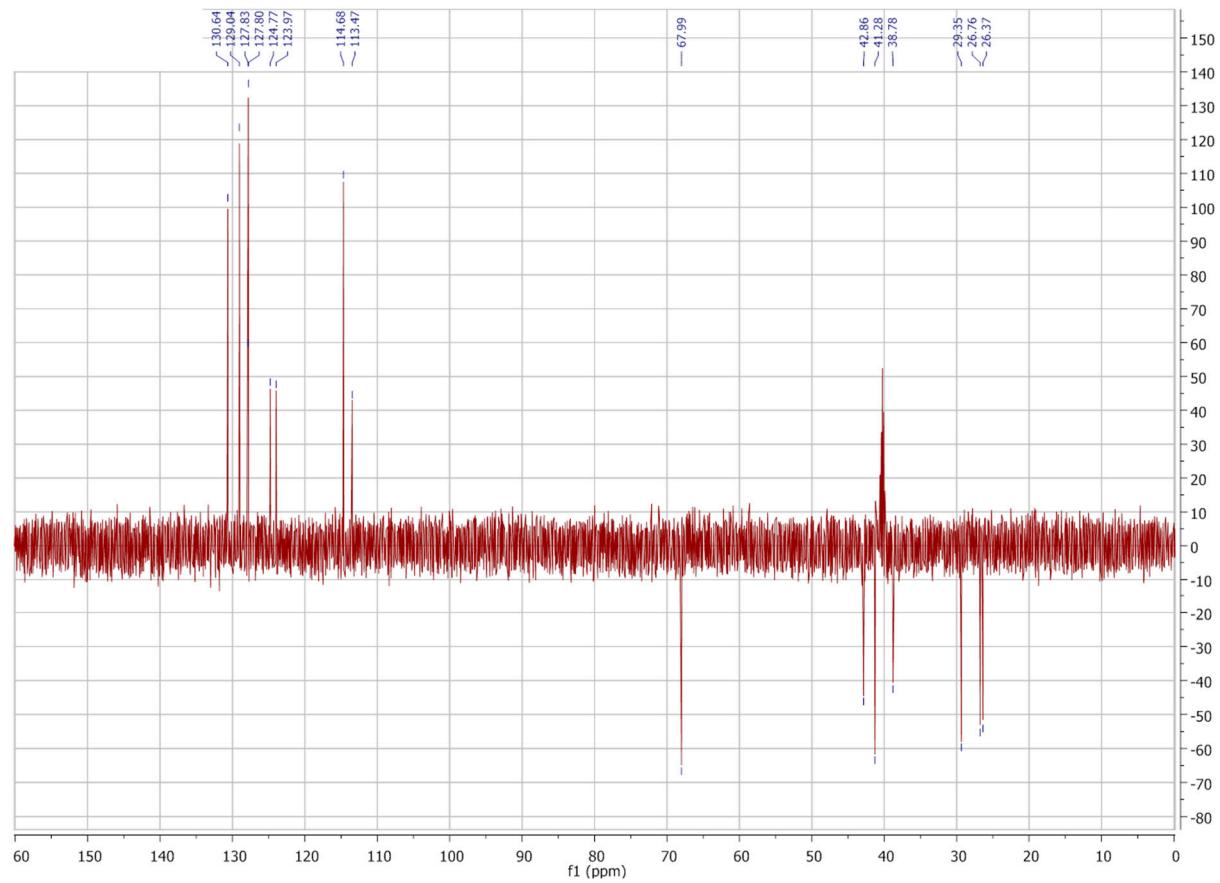
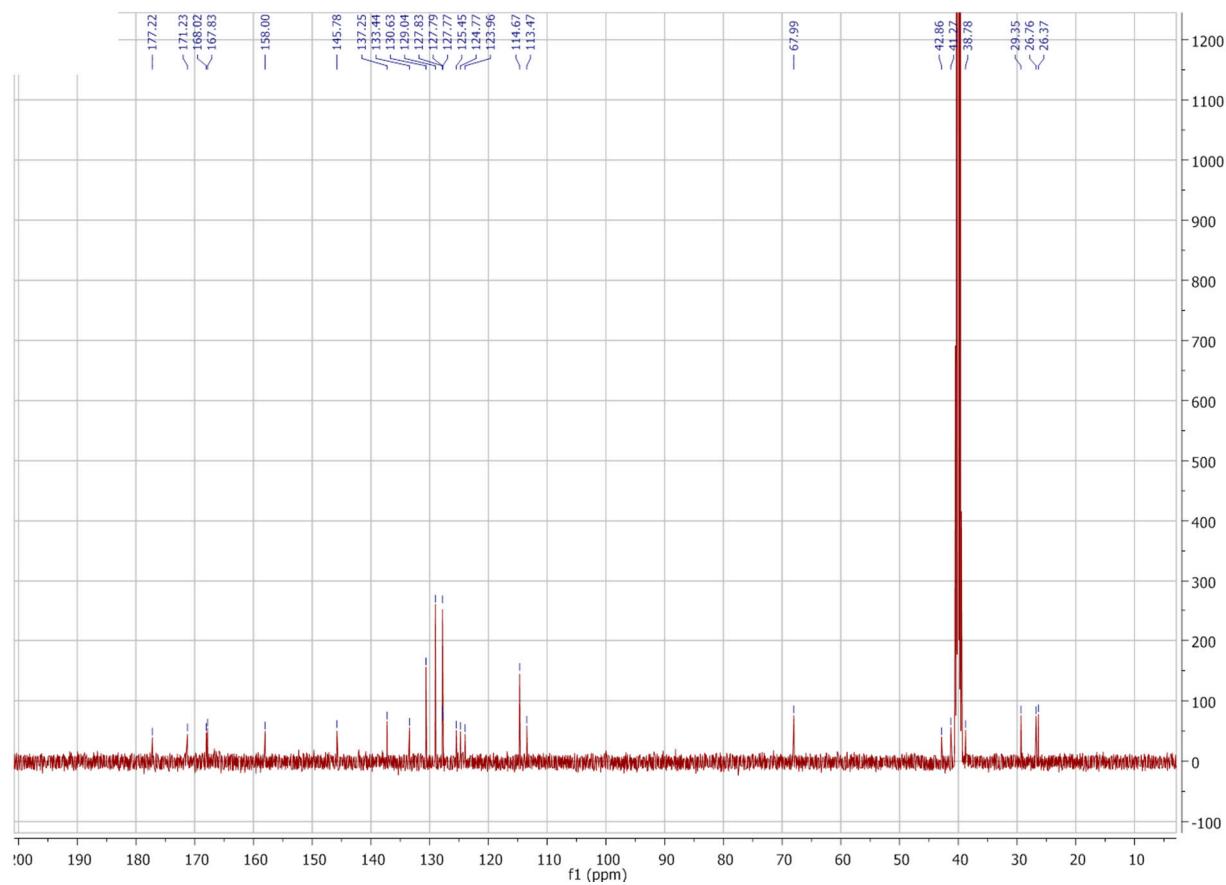


*6-(4-{[(2-benzyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl)carbamoyl]methyl}phenoxy)hexanoic acid (**14f**; ZHAWOC5133)*

NMR

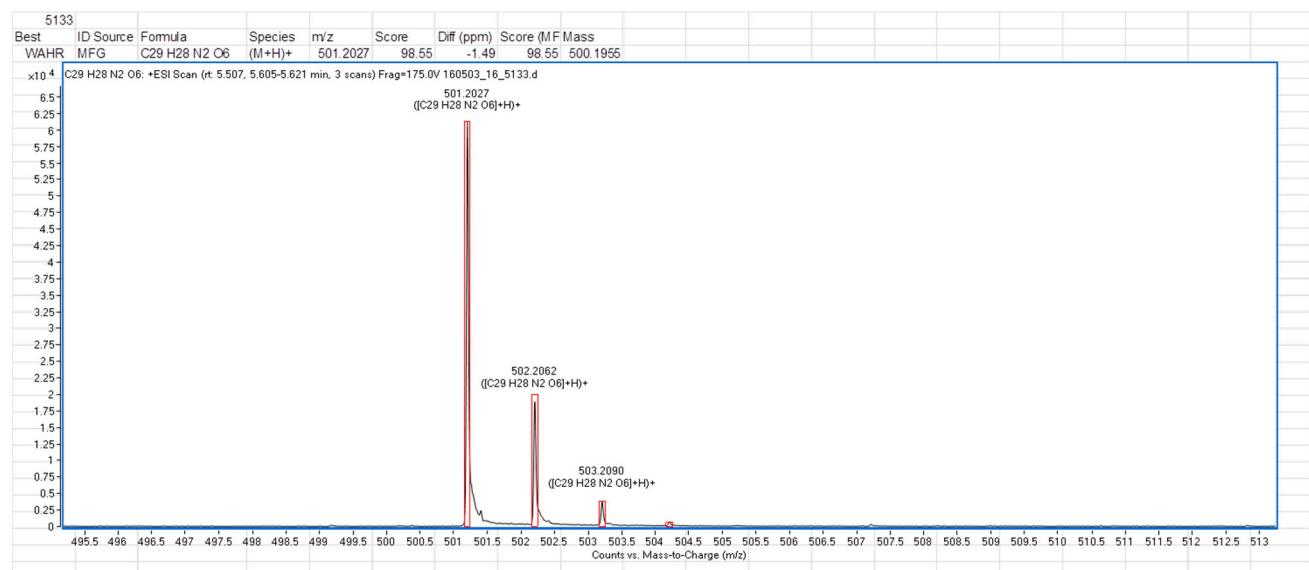


6-(4-{[(2-benzyl-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl)carbamoyl]methyl}phenoxy)hexanoic acid (14f**; ZHAWOC5133)**

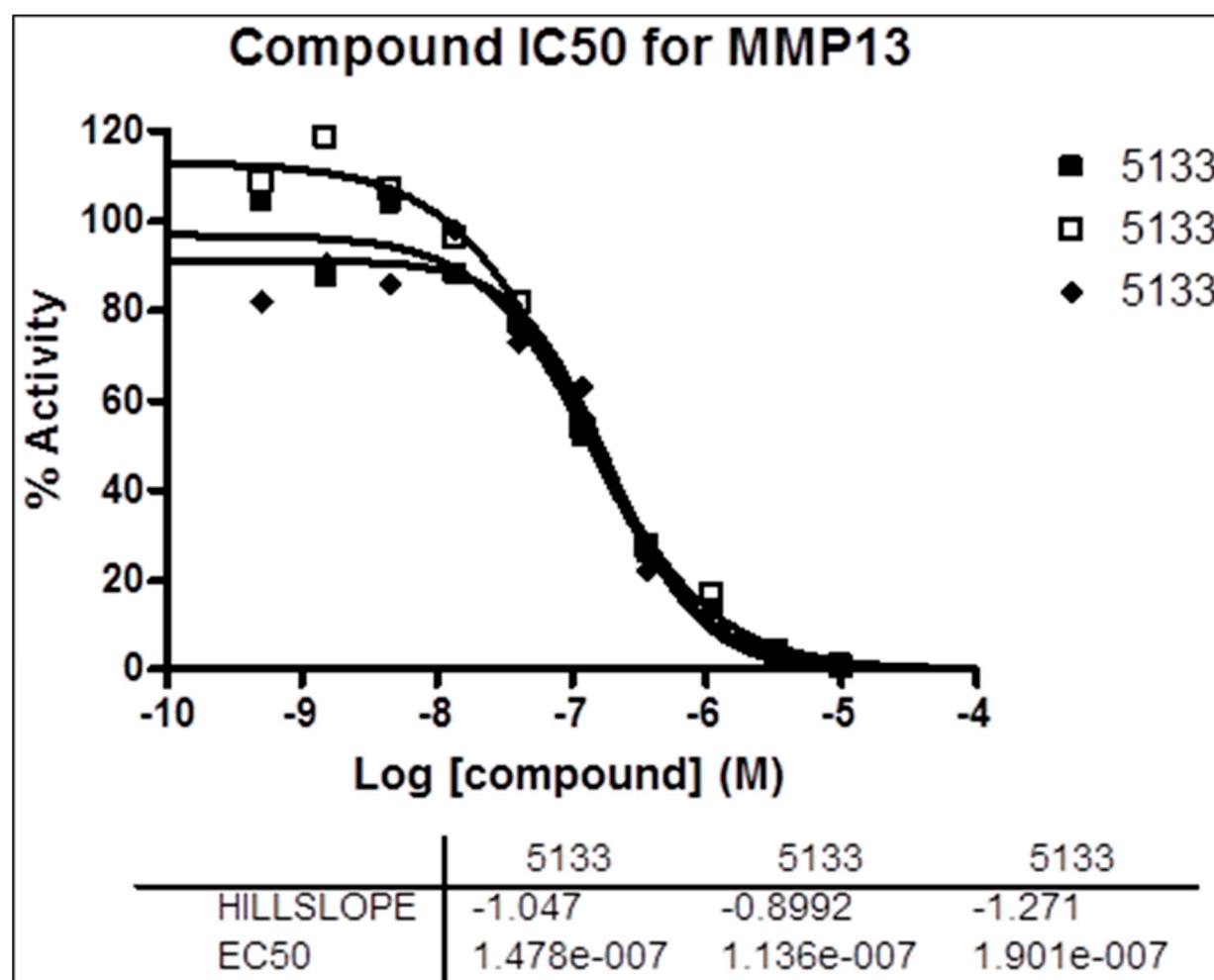


6-(4-{{(2-benzyl-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl)carbamoyl}methyl}phenoxy)hexanoic acid (14f**; ZHAWOC5133)**

HRMS

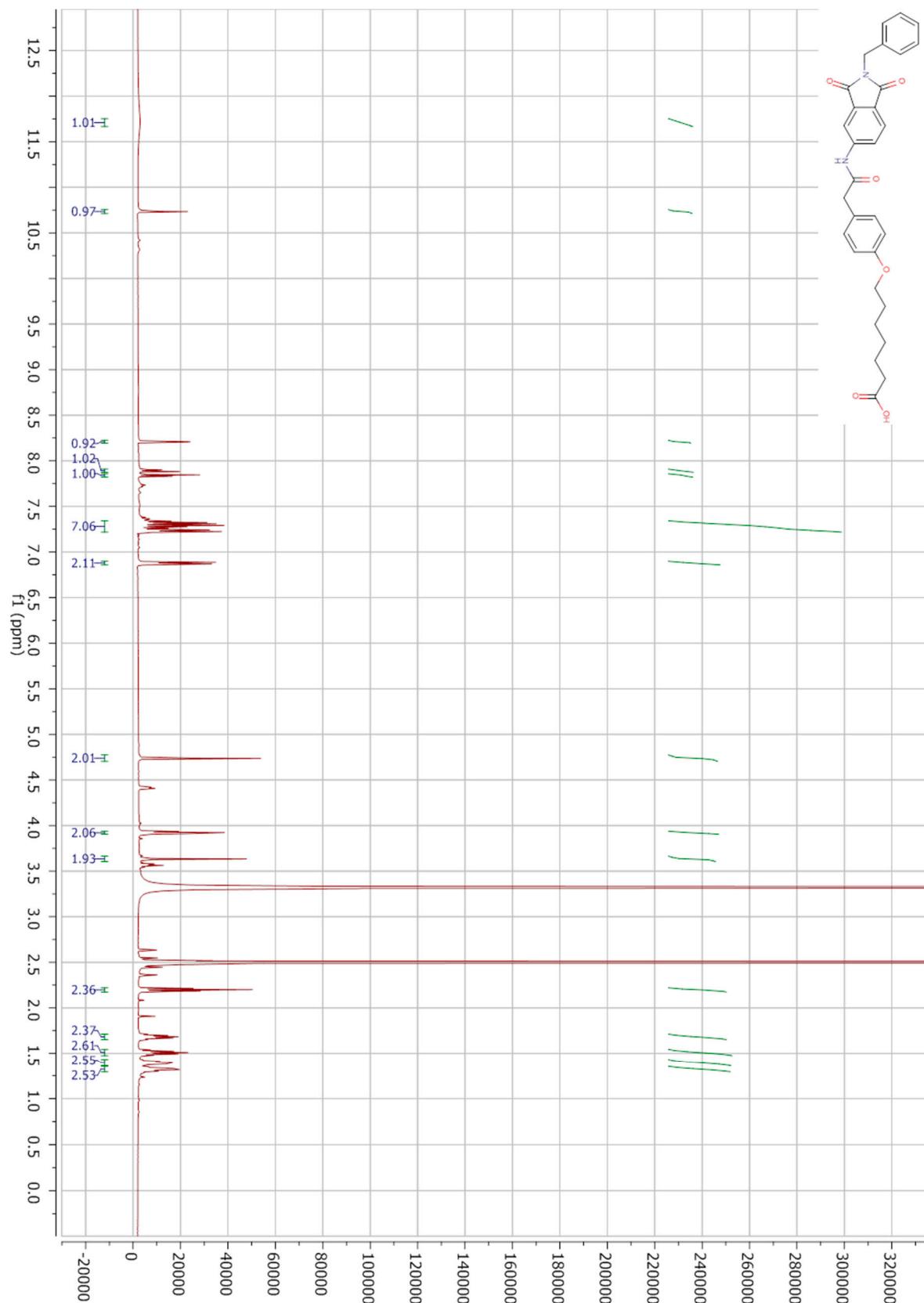


IC₅₀

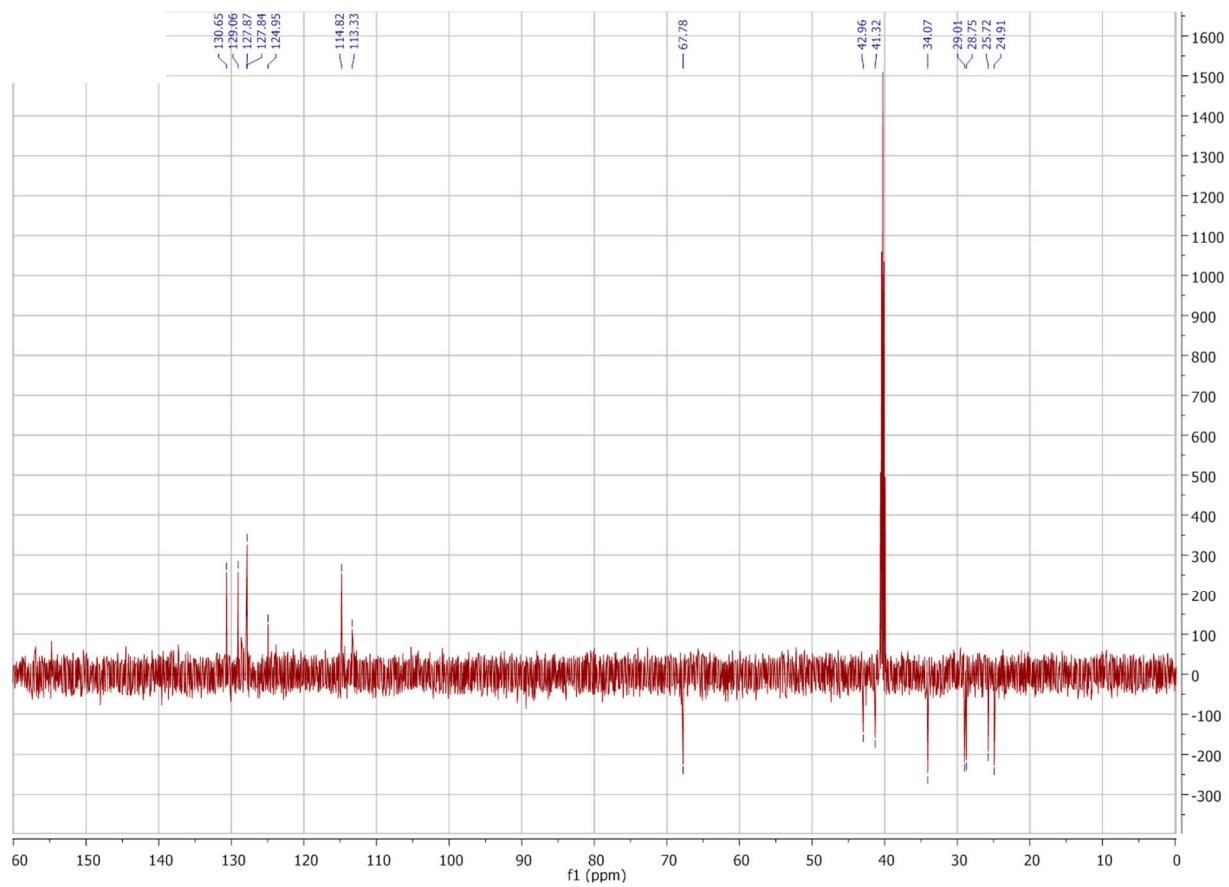
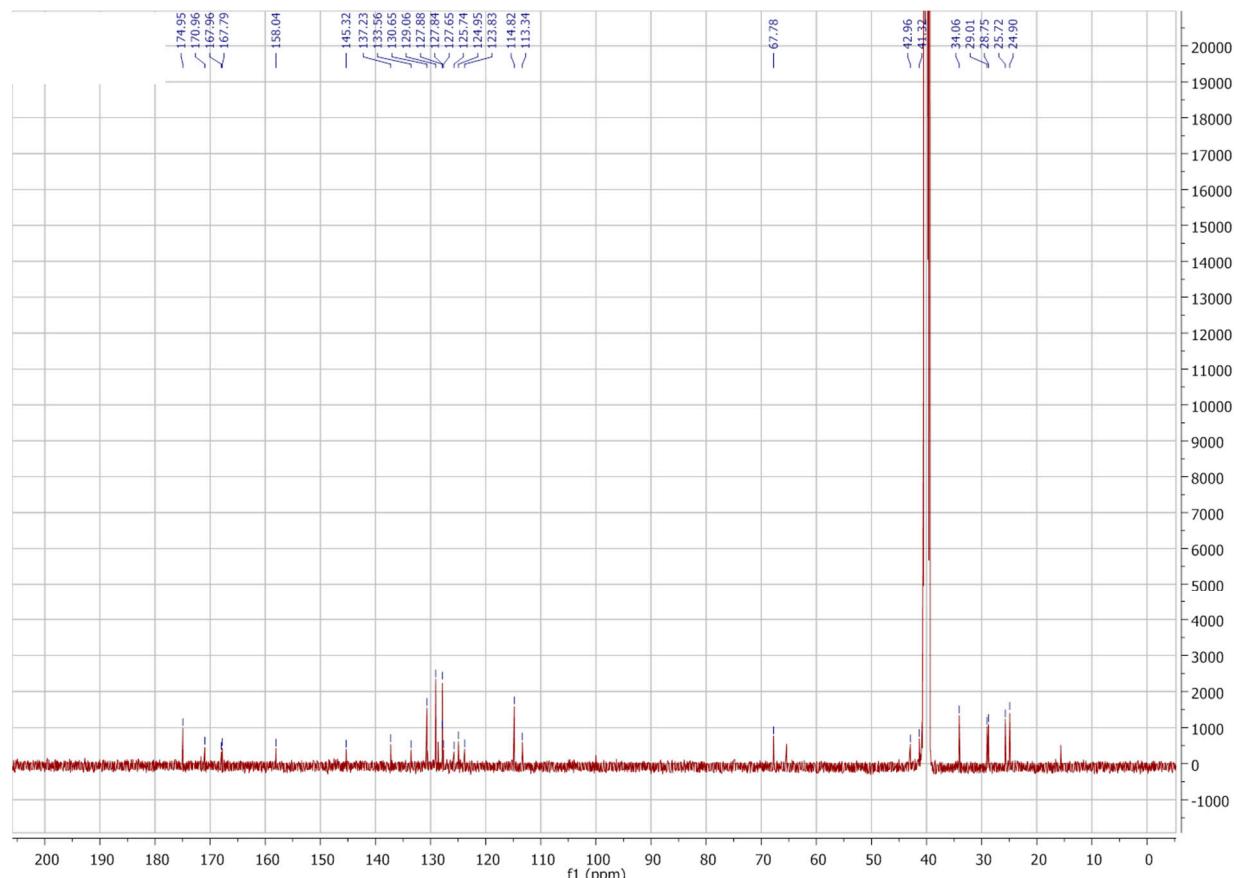


7-(4-{{[2-benzyl-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl]carbamoyl}methyl}phenoxy)heptanoic acid (14g**; ZHAWOC6650)**

NMR

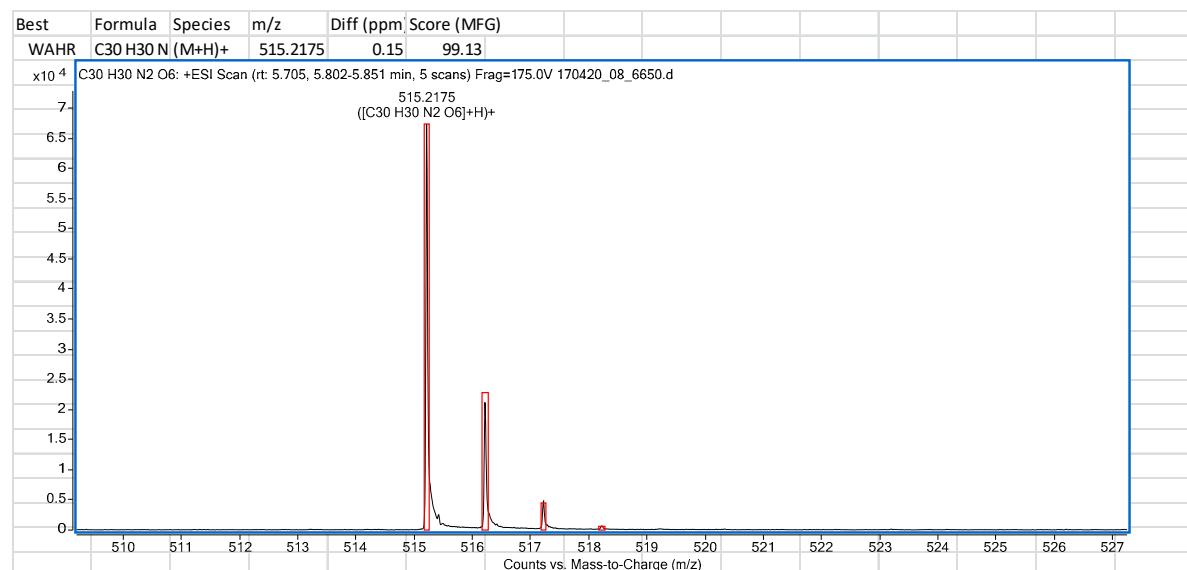


7-(4-{{[2-benzyl-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl]carbamoyl}methyl}phenoxy)heptanoic acid (14g**; ZHAWOC6650)**



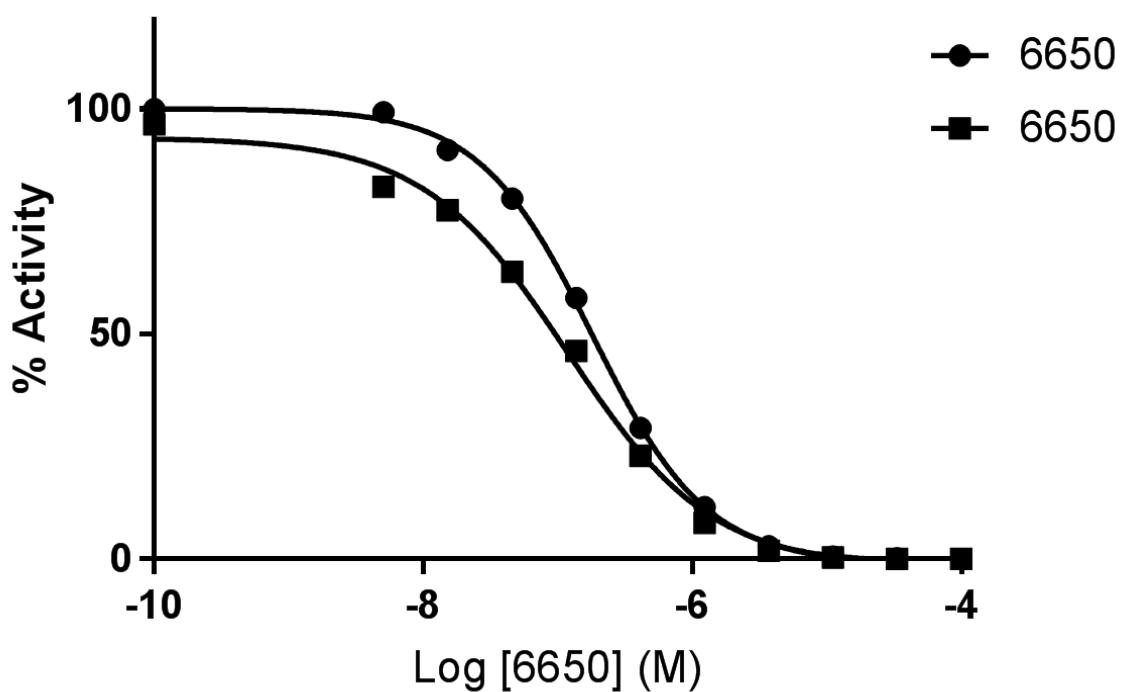
*7-(4-{[(2-benzyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-*y*l)carbamoyl]methyl}phenoxy)heptanoic acid (**14g**; ZHAWOC6650)*

HRMS



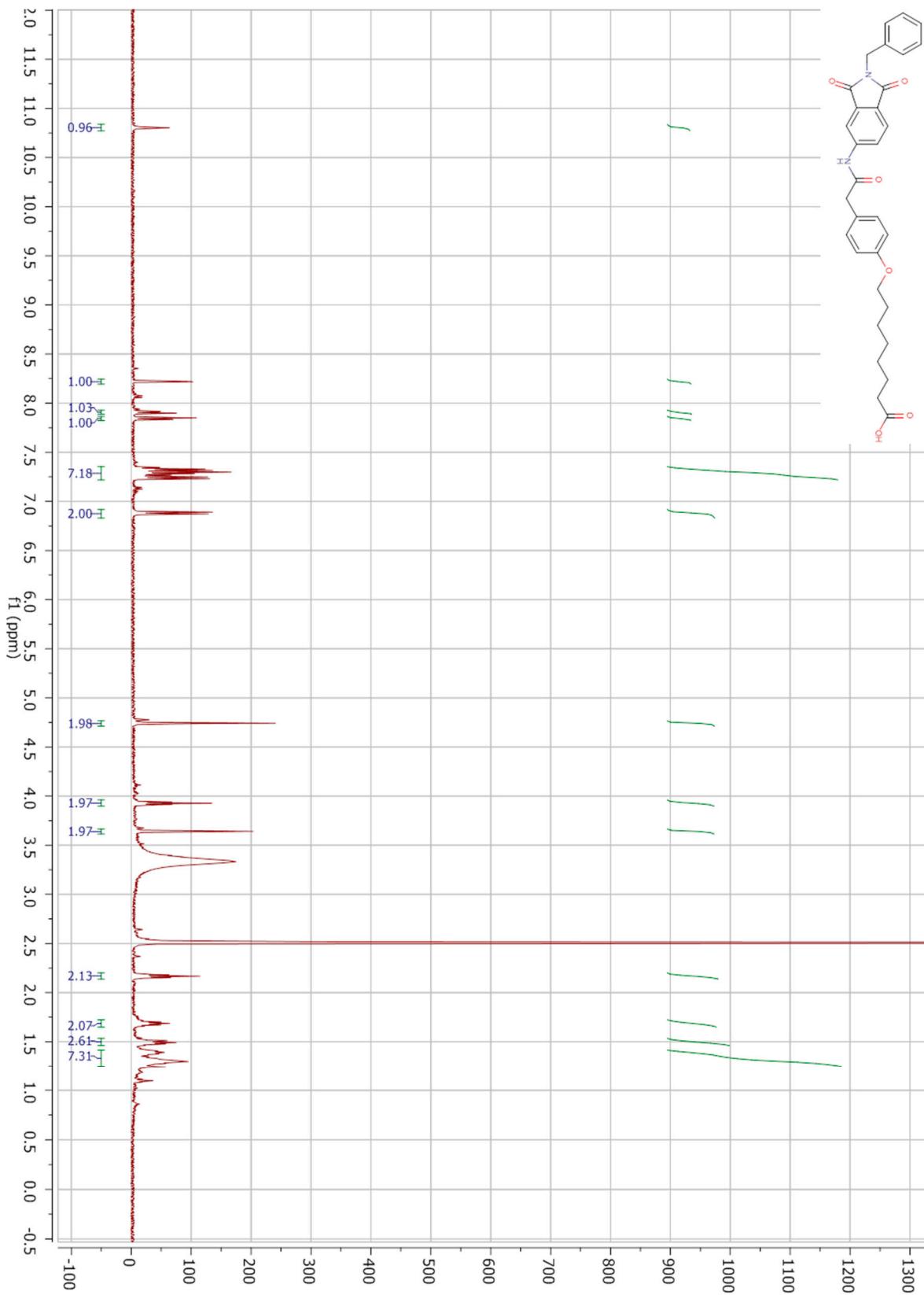
IC₅₀

6650 IC₅₀ for MMP13

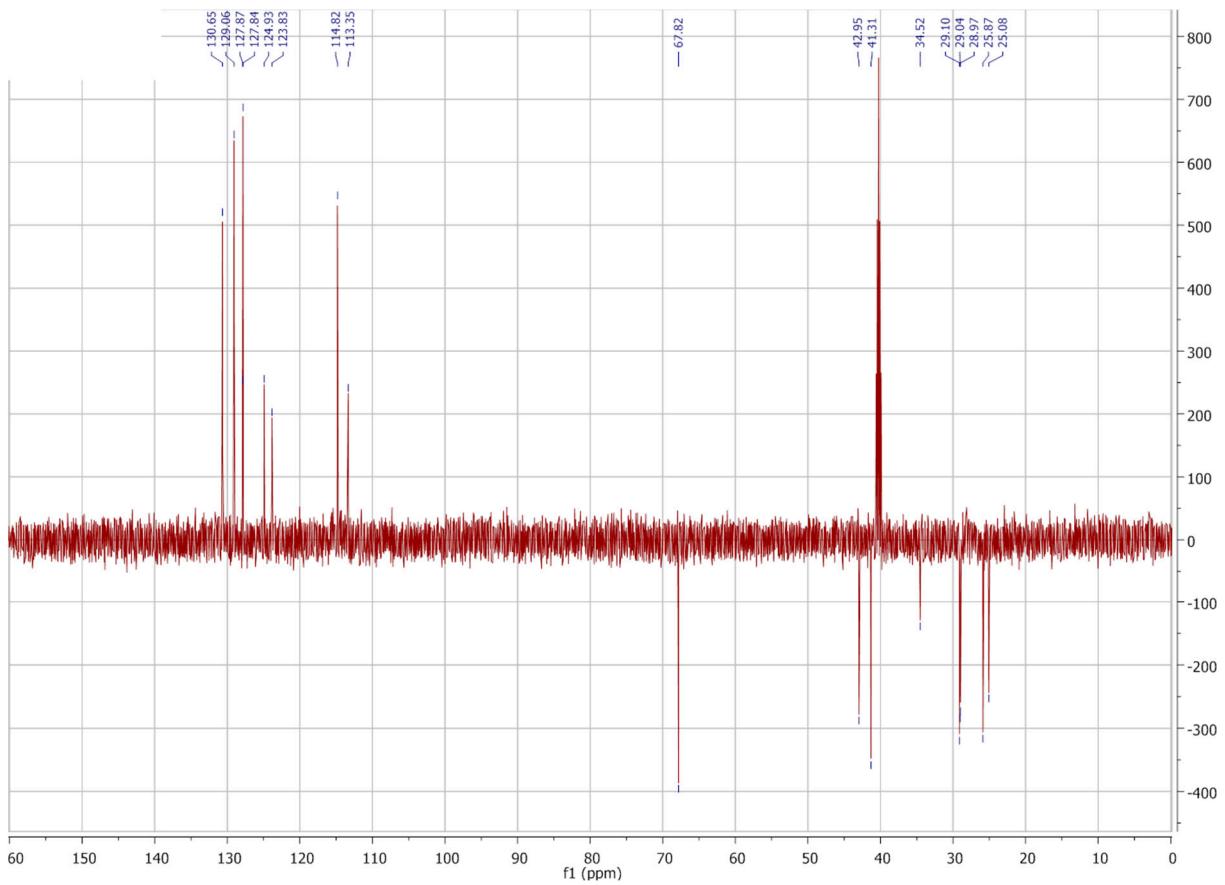
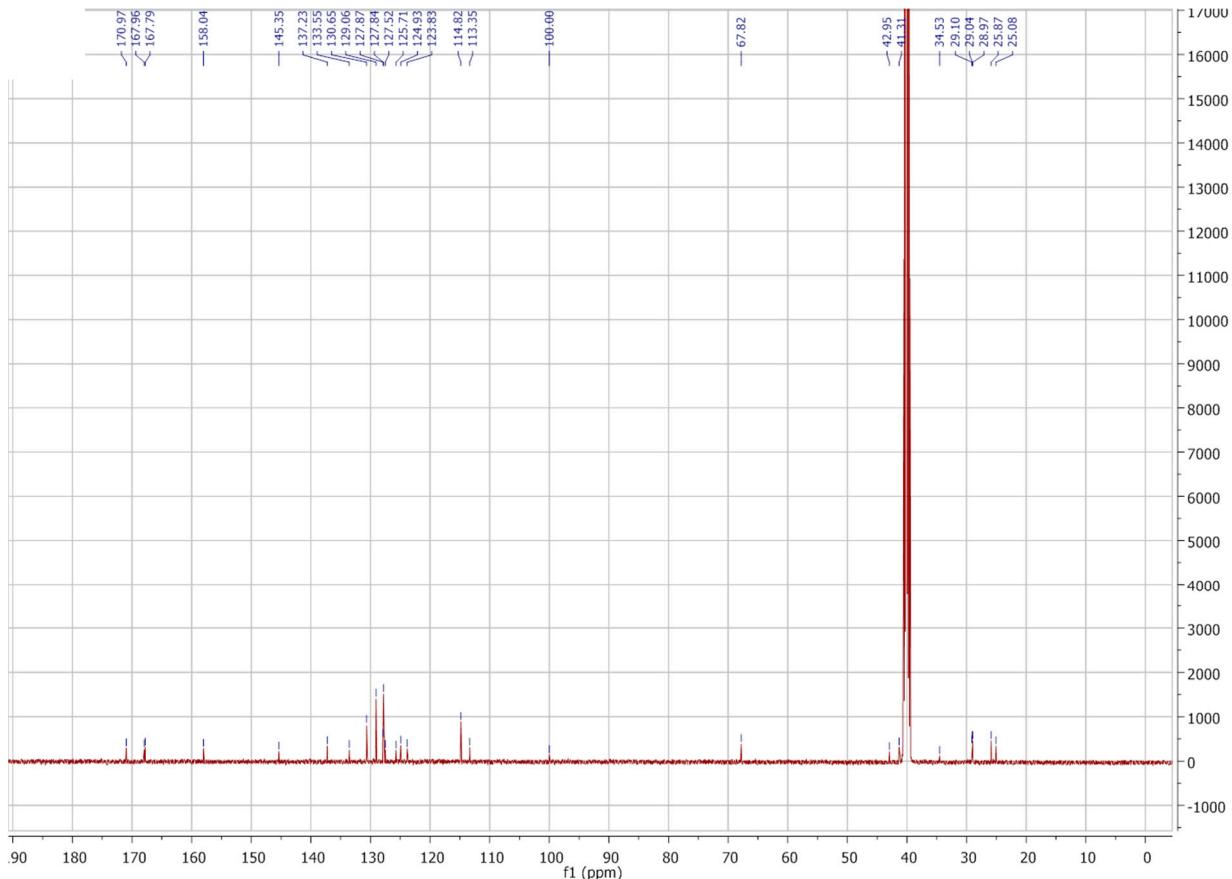


8-(4-{{[(2-benzyl-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl)carbamoyl]methyl}phenoxy)octanoic acid (14h; ZHAWOC6651)

NMR

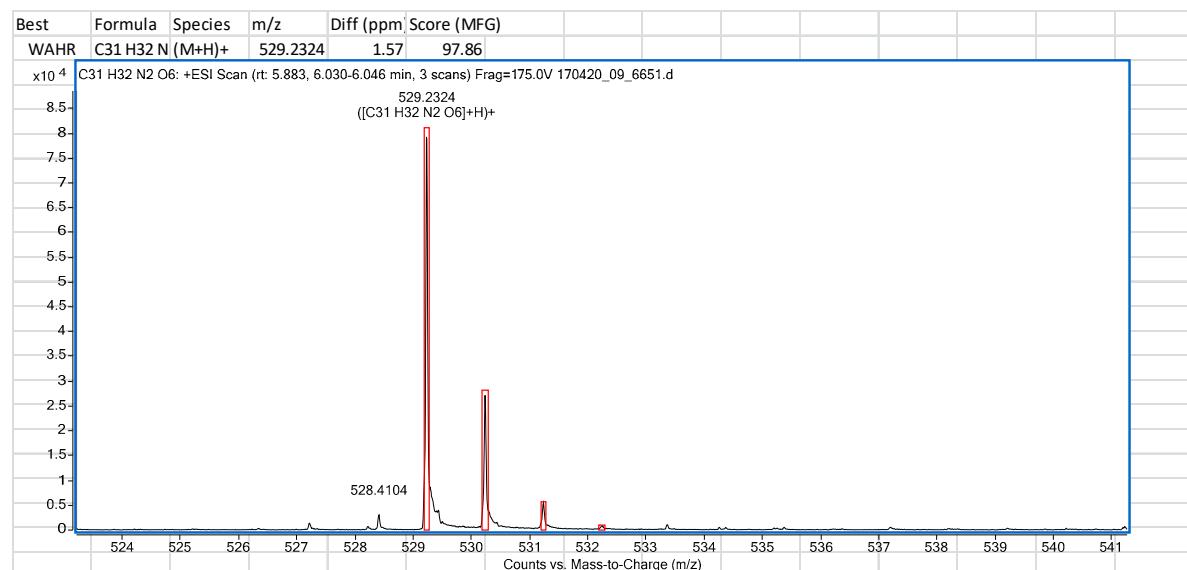


8-(4-{{[2-benzyl-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl]carbamoyl}methyl}phenoxy)octanoic acid (14h; ZHAWOC6651)



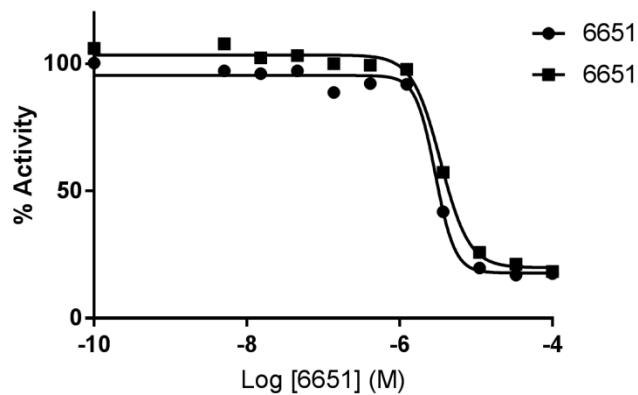
*8-(4-{[(2-benzyl-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl)carbamoyl]methyl}phenoxy)octanoic acid (**14h**; ZHAWOC6651)*

HRMS

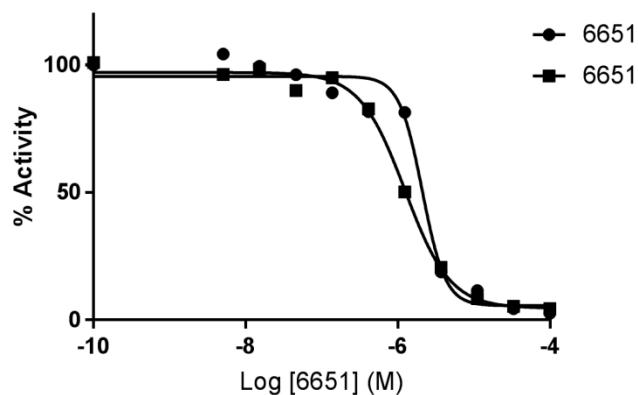


IC50

6651 IC50 for MMP7

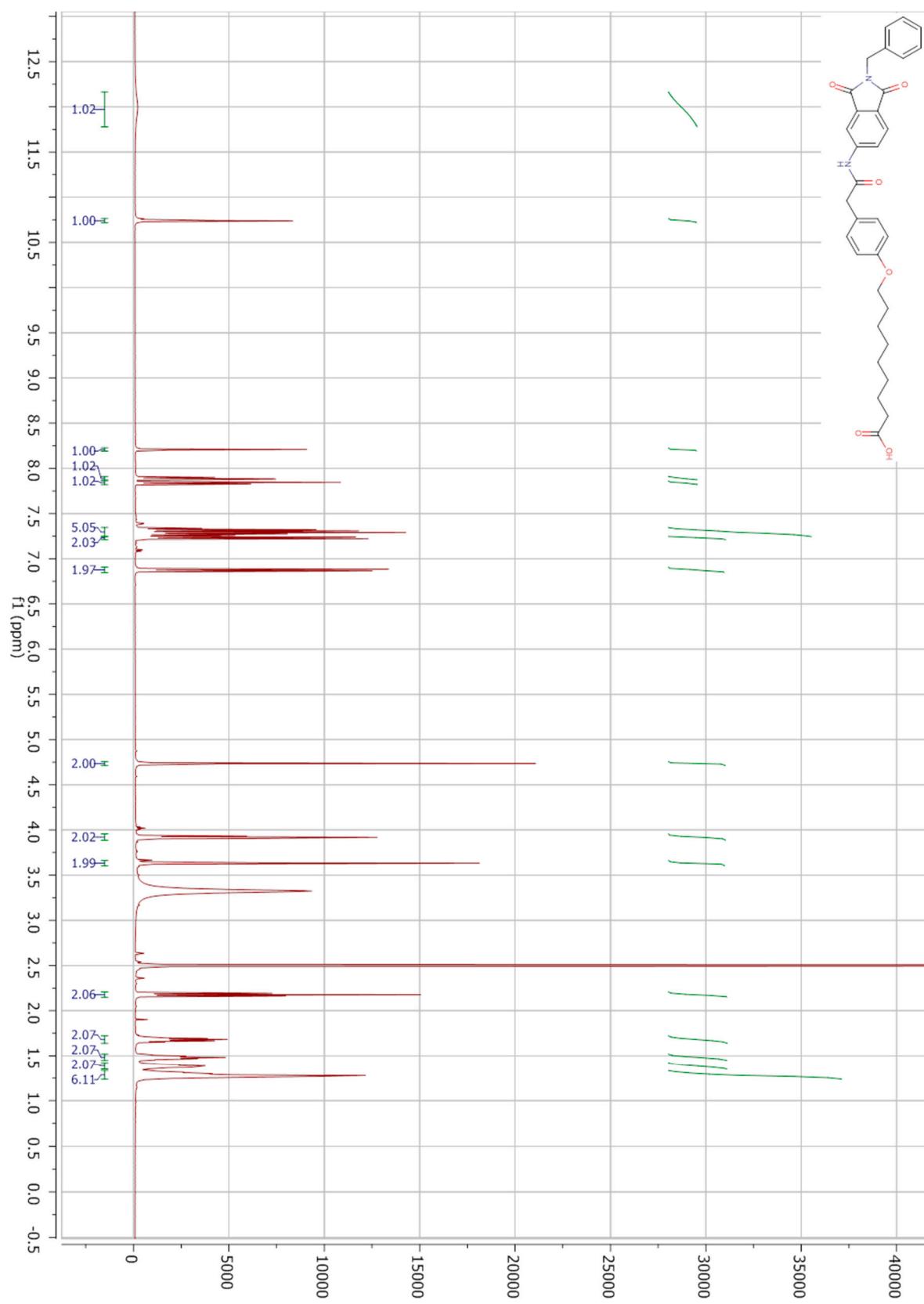


6651 IC50 for MMP13

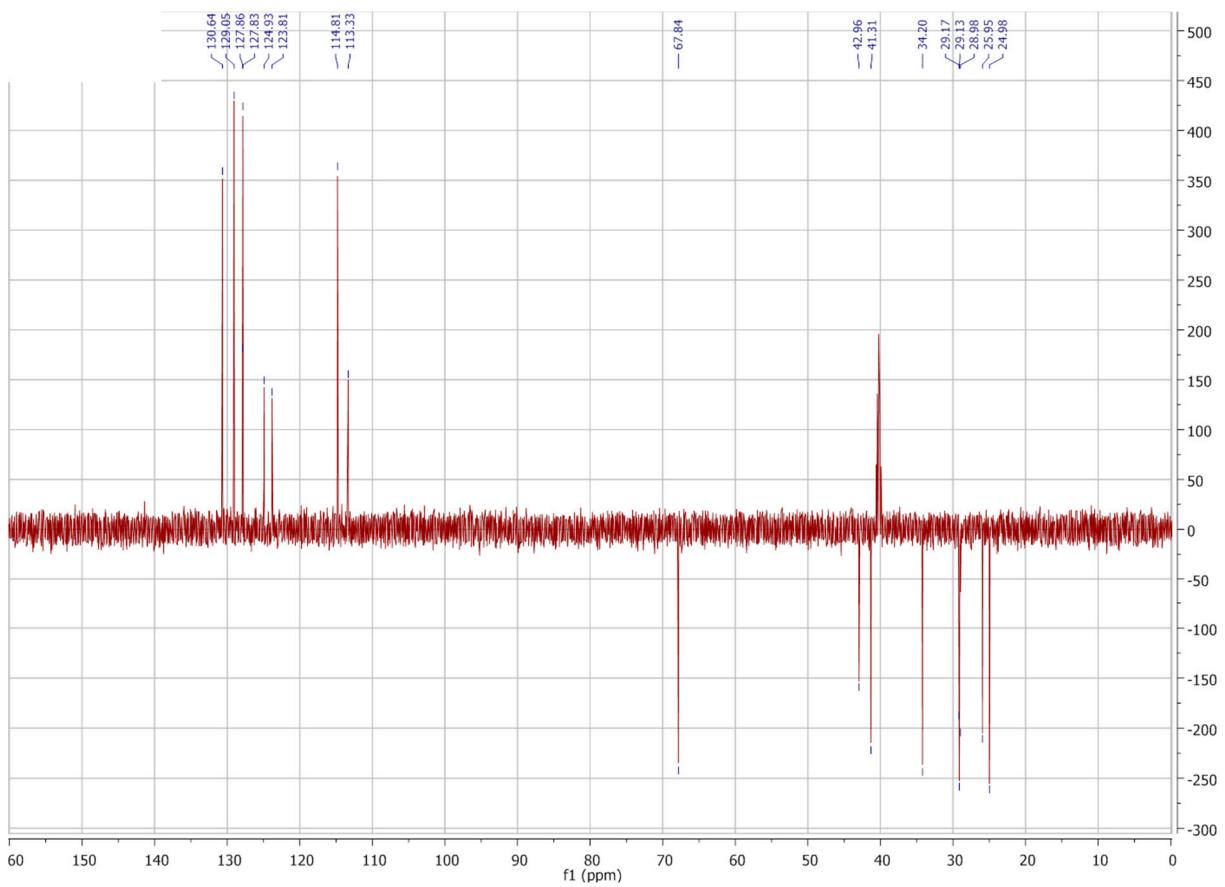
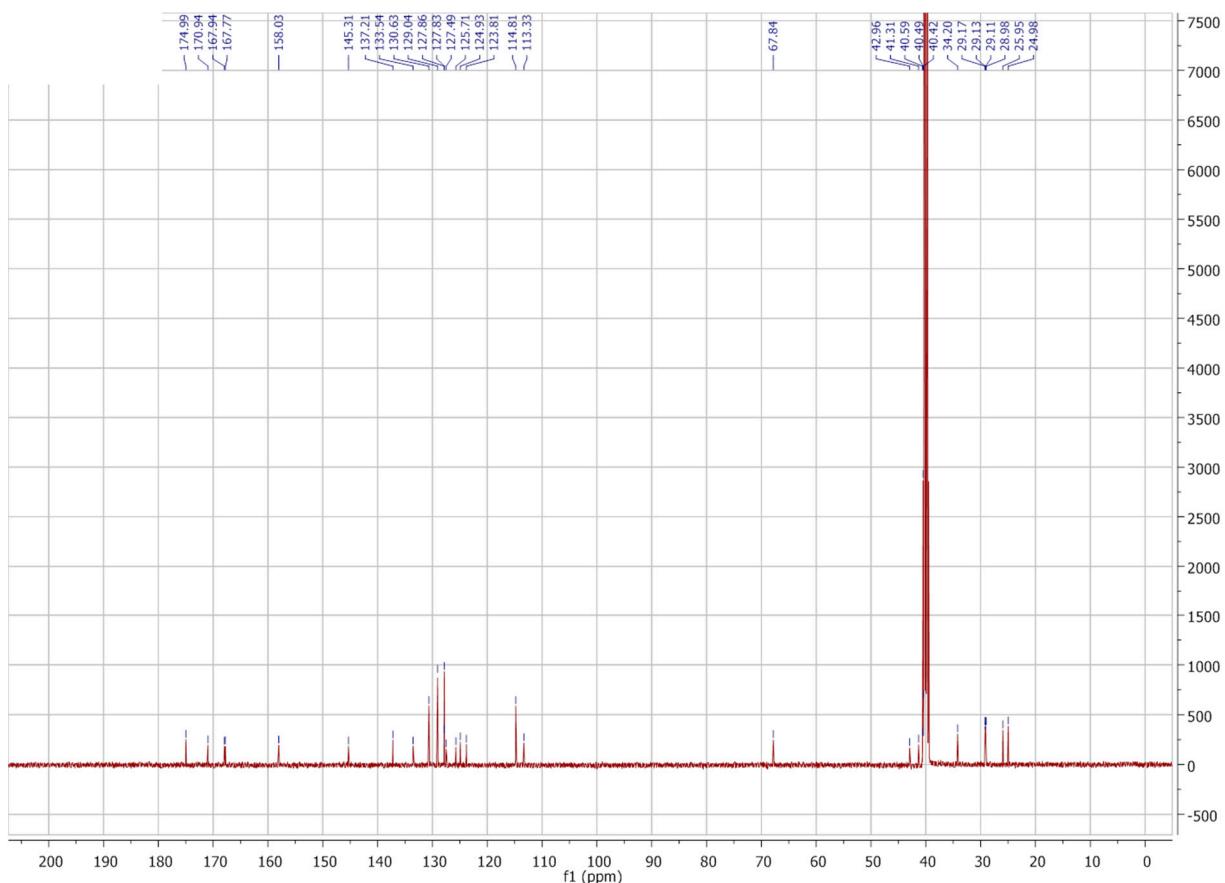


9-(4-{{[2-benzyl-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl]carbamoyl}methyl}phenoxy)nonanoic acid (14i**; ZHAWOC6941)**

NMR

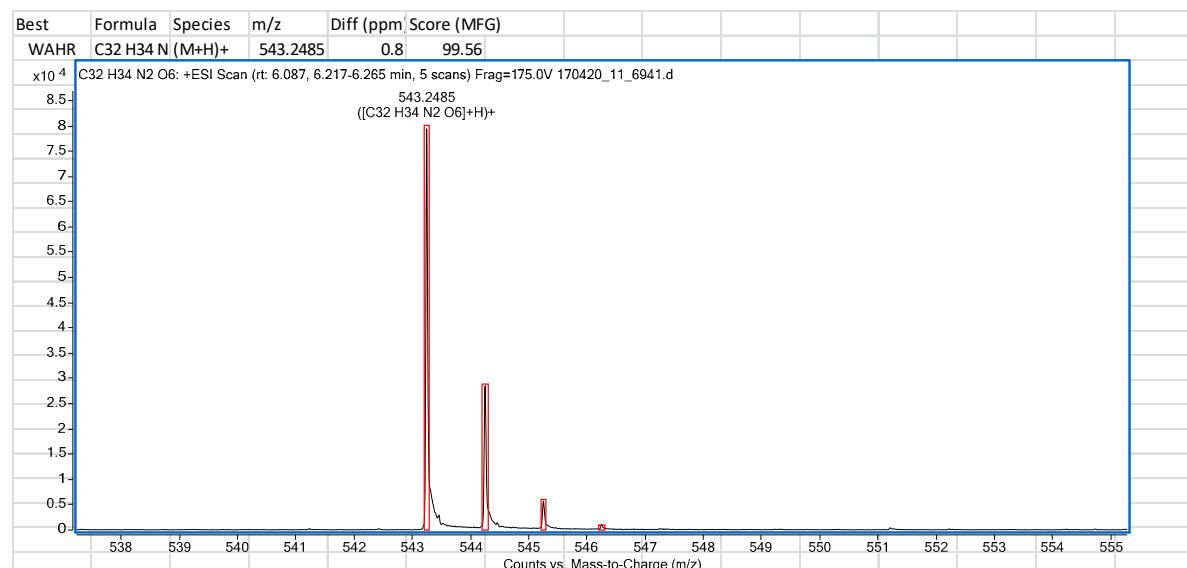


9-(4-{{[2-benzyl-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl]carbamoyl}methyl}phenoxy)nonanoic acid (14i**; ZHAWOC6941)**



9-(4-{[(2-benzyl-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl)carbamoyl]methyl}phenoxy)nonanoic acid (14i**; ZHAWOC6941)**

HRMS



IC₅₀

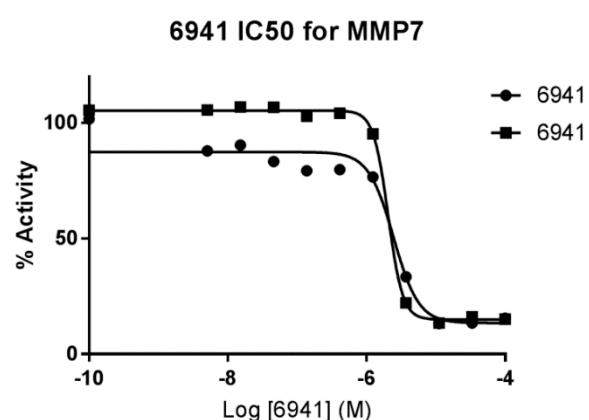


Figure S1a: Determination of the IC₅₀-value for compound **14i** against MMP-7.

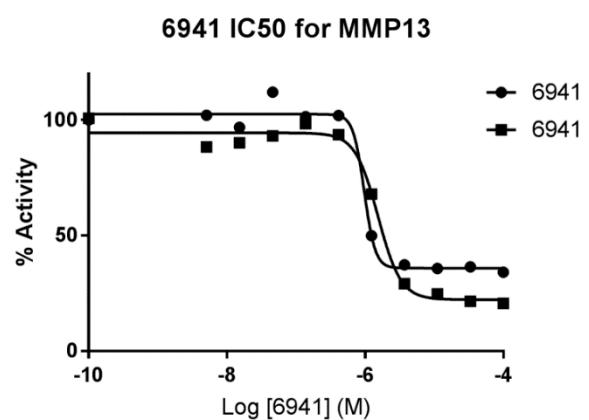
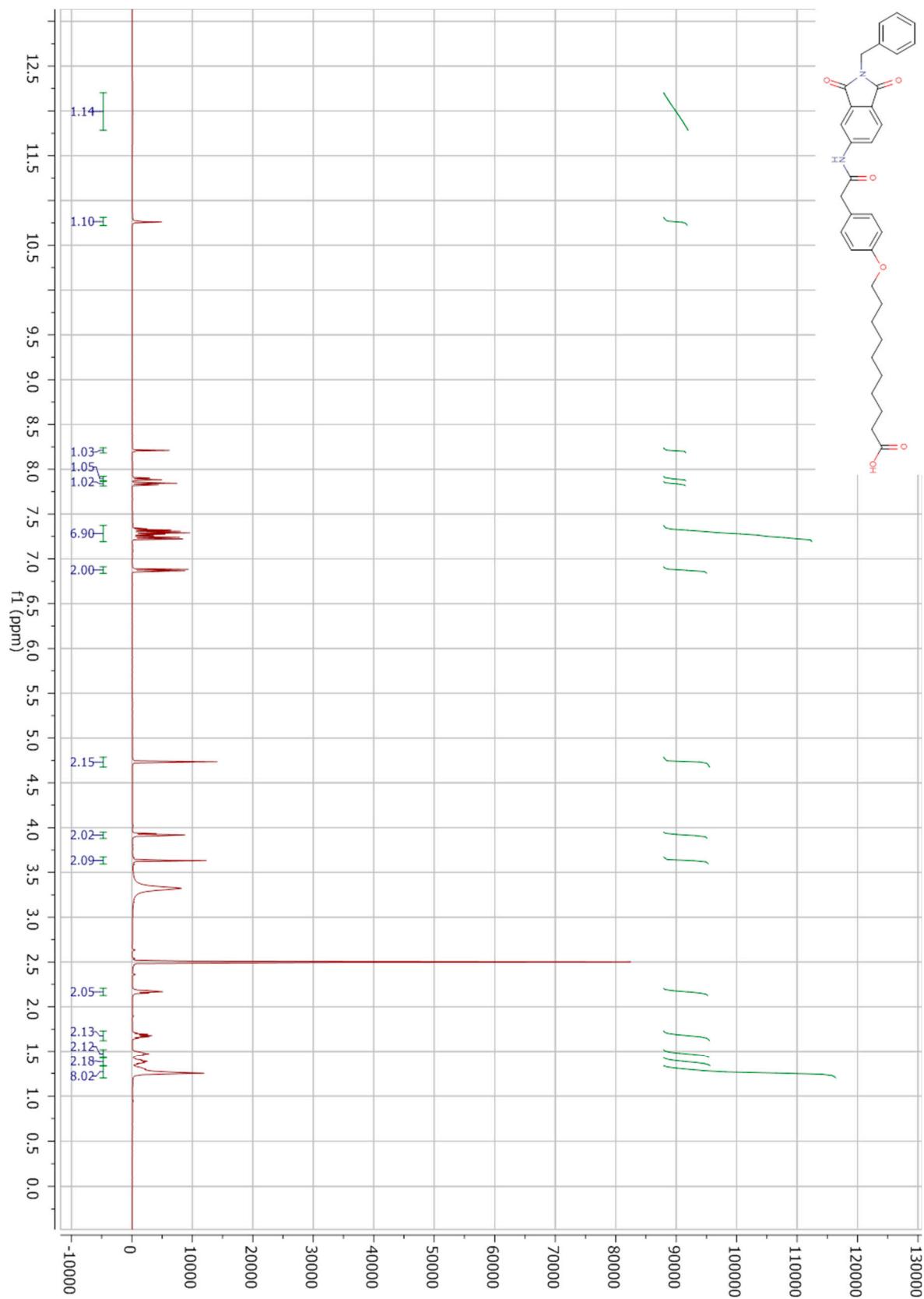


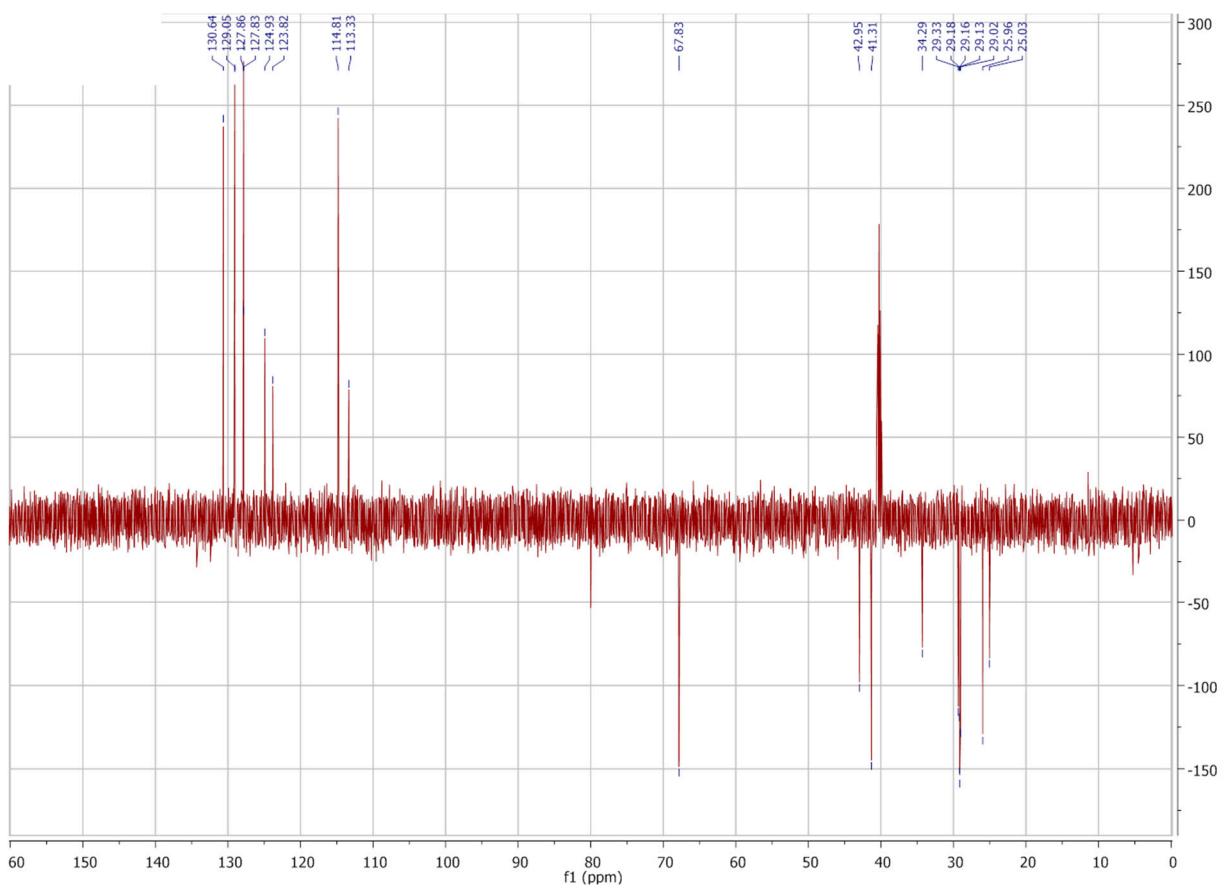
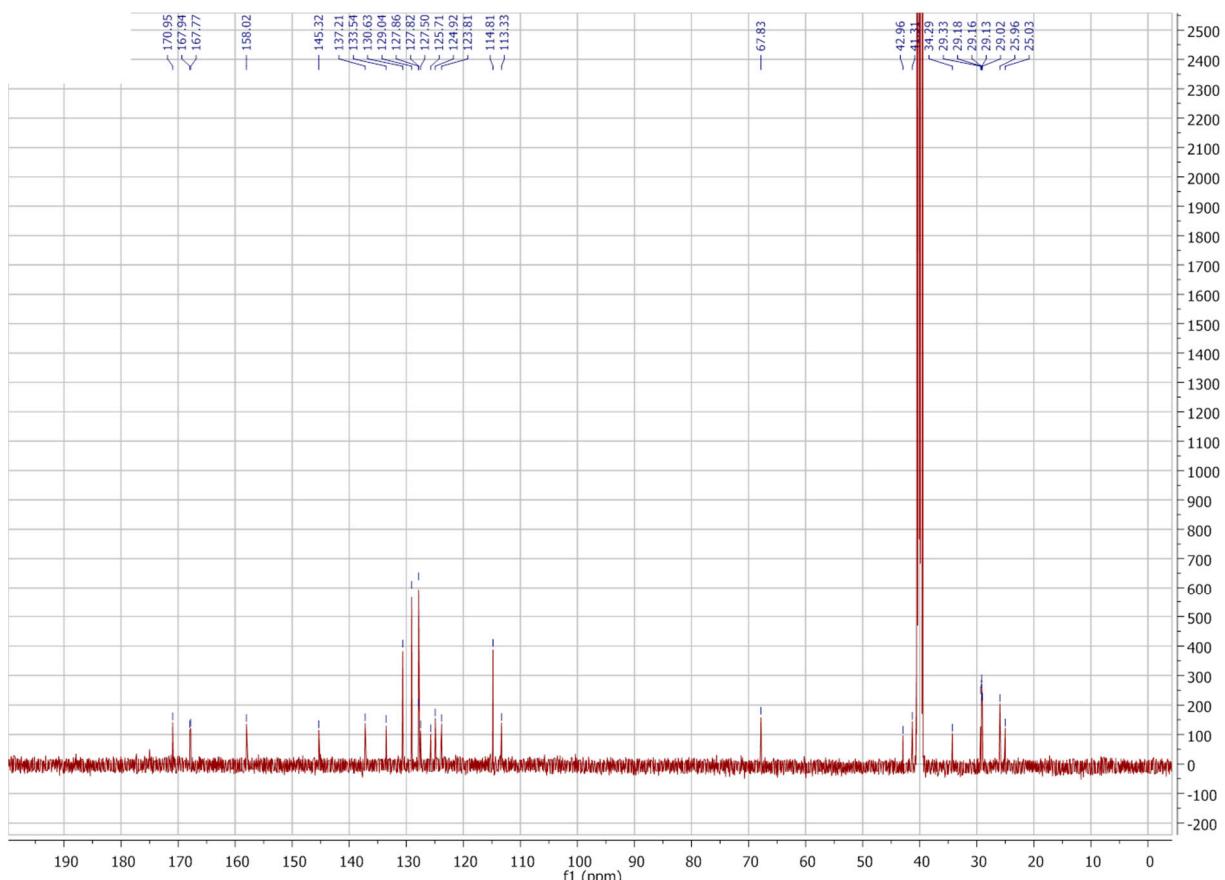
Figure S1b: Determination of the IC₅₀-value for compound **14i** against MMP-13.

*10-(4-[(2-benzyl-1,3-dioxo-2,3-dihydro-1*H*-isoindol-5-yl)carbamoyl]methyl)phenoxy)decanoic acid (**14j**; ZHAWOC6942)*

NMR

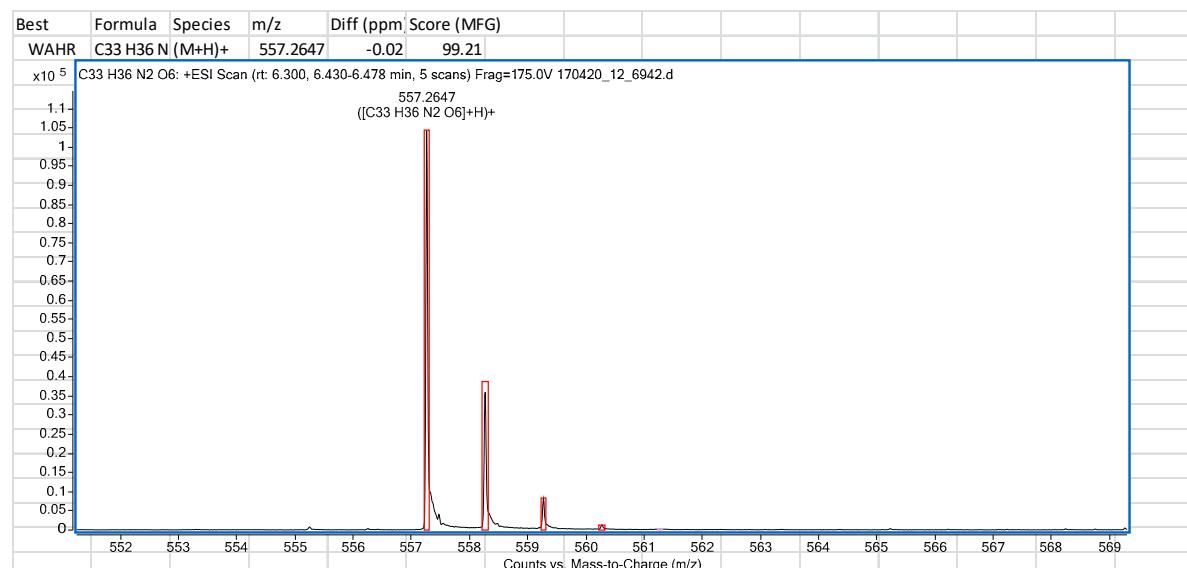


10-(4-[(2-benzyl-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl)carbamoyl]methyl)phenoxy)decanoic acid (14j**; ZHAWOC6942)**



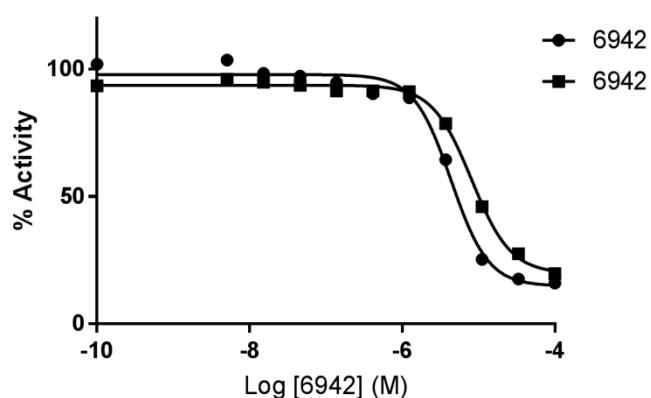
10-(4-[(2-benzyl-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl)carbamoyl]methyl)phenoxy)decanoic acid (14j**; ZHAWOC6942)**

HRMS

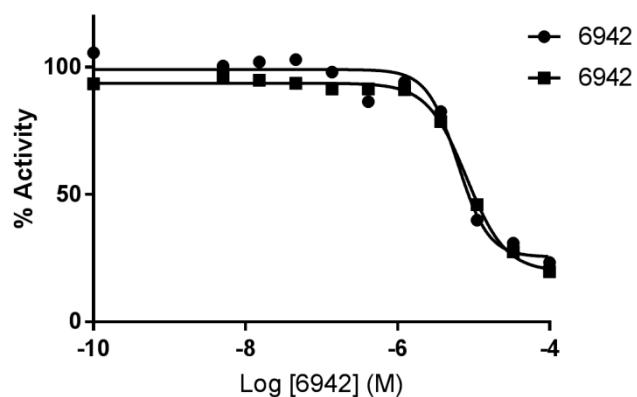


IC₅₀

6942 IC₅₀ for MMP7

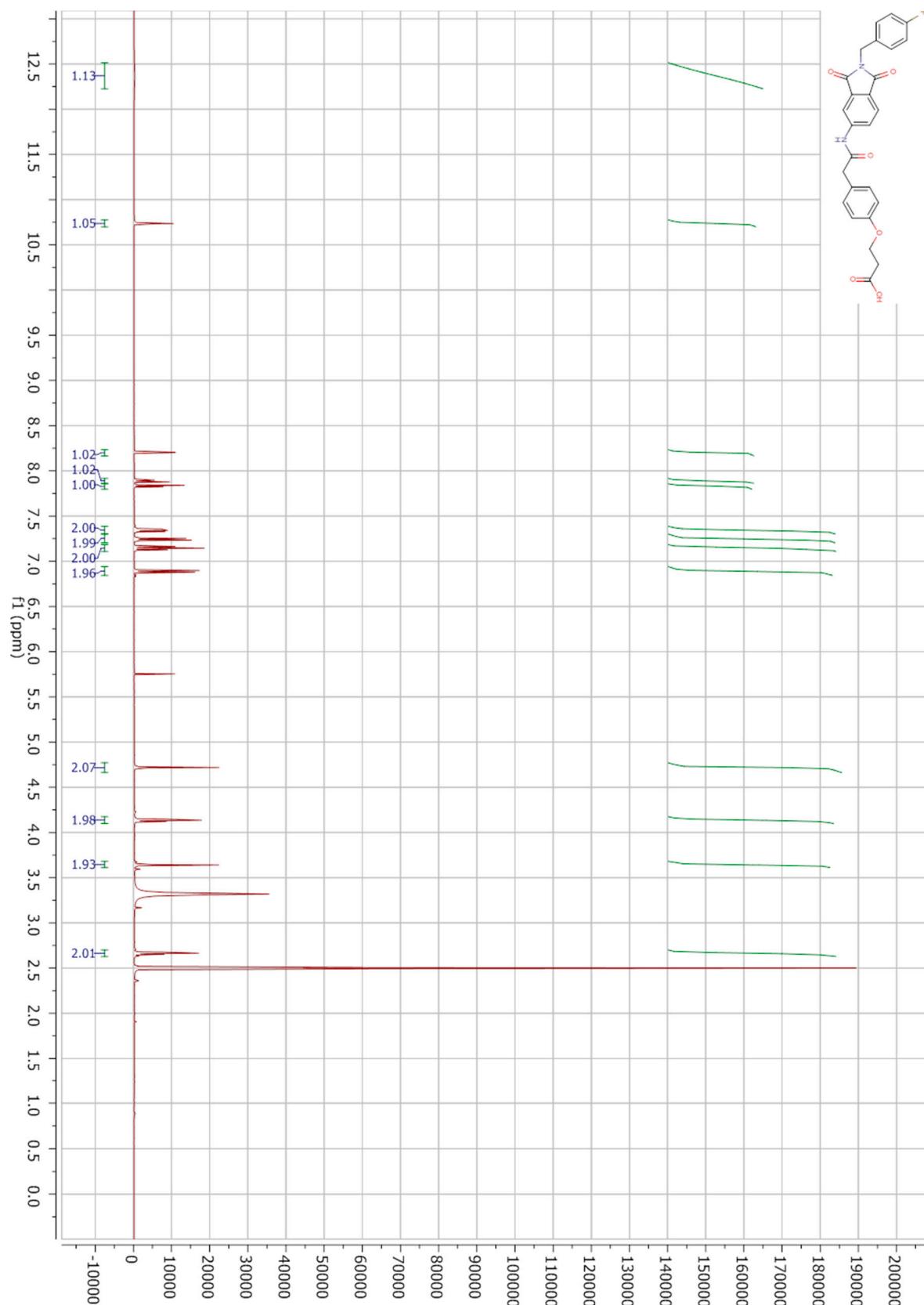


6942 IC₅₀ for MMP13

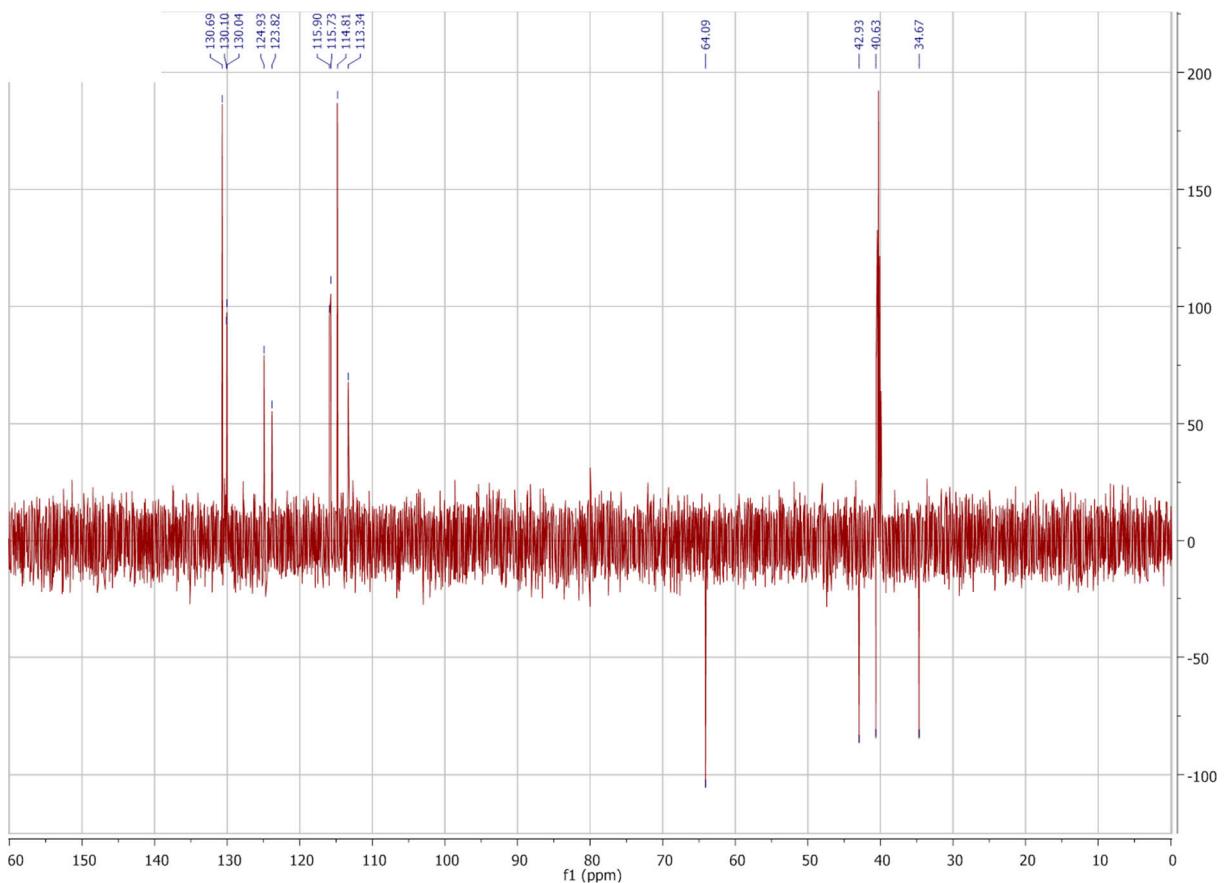
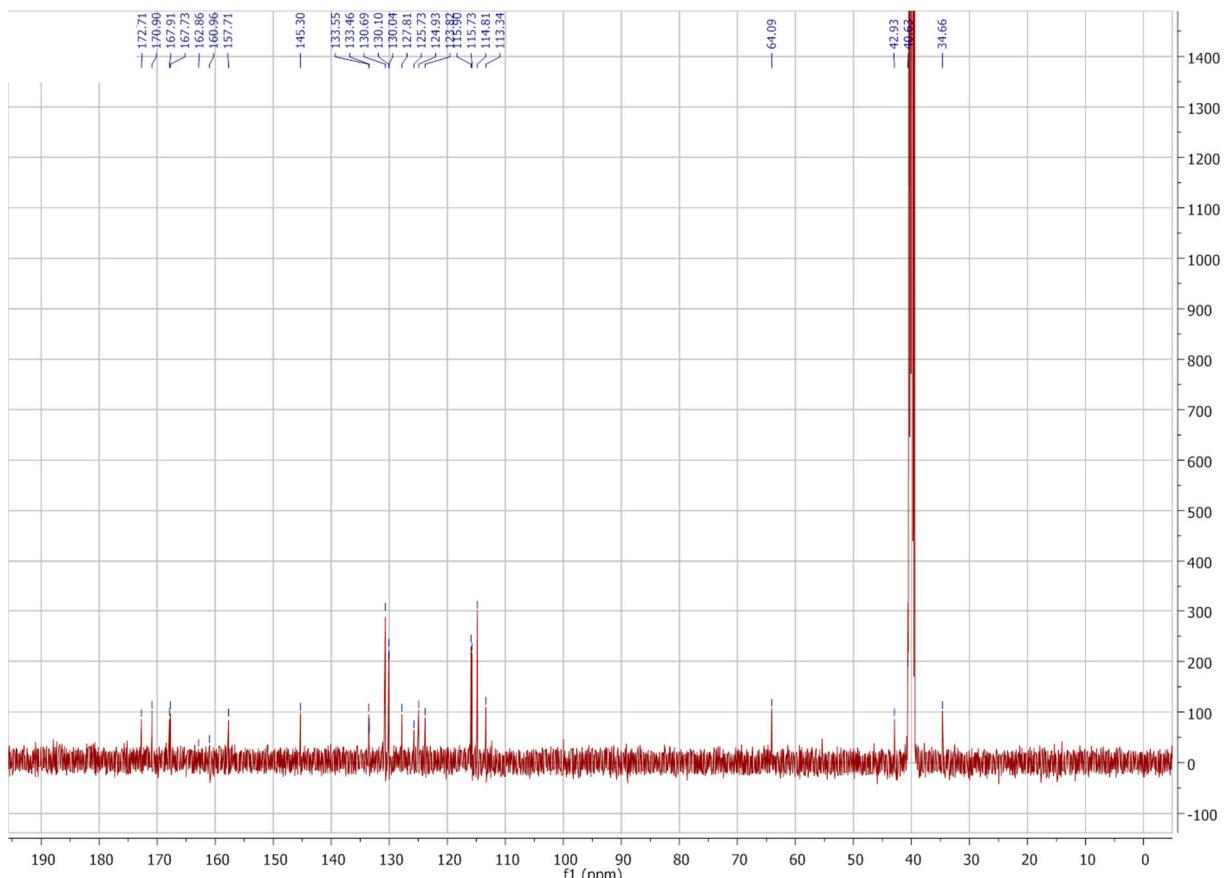


*3-{4-[({2-[{(4-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl}carbamoyl)methyl]phenoxy}propanoic acid (**14k**; ZHAWOC6644)*

NMR

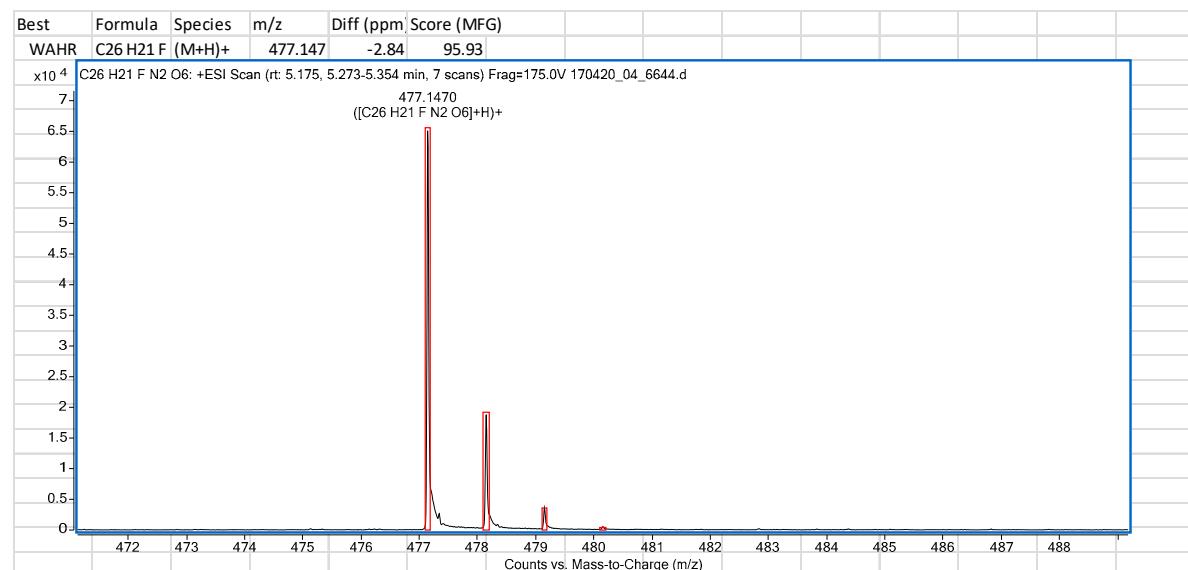


3-{4-[{2-[{(4-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl}carbamoyl)methyl]phenoxy}propanoic acid (14k**; ZHAWOC6644)**



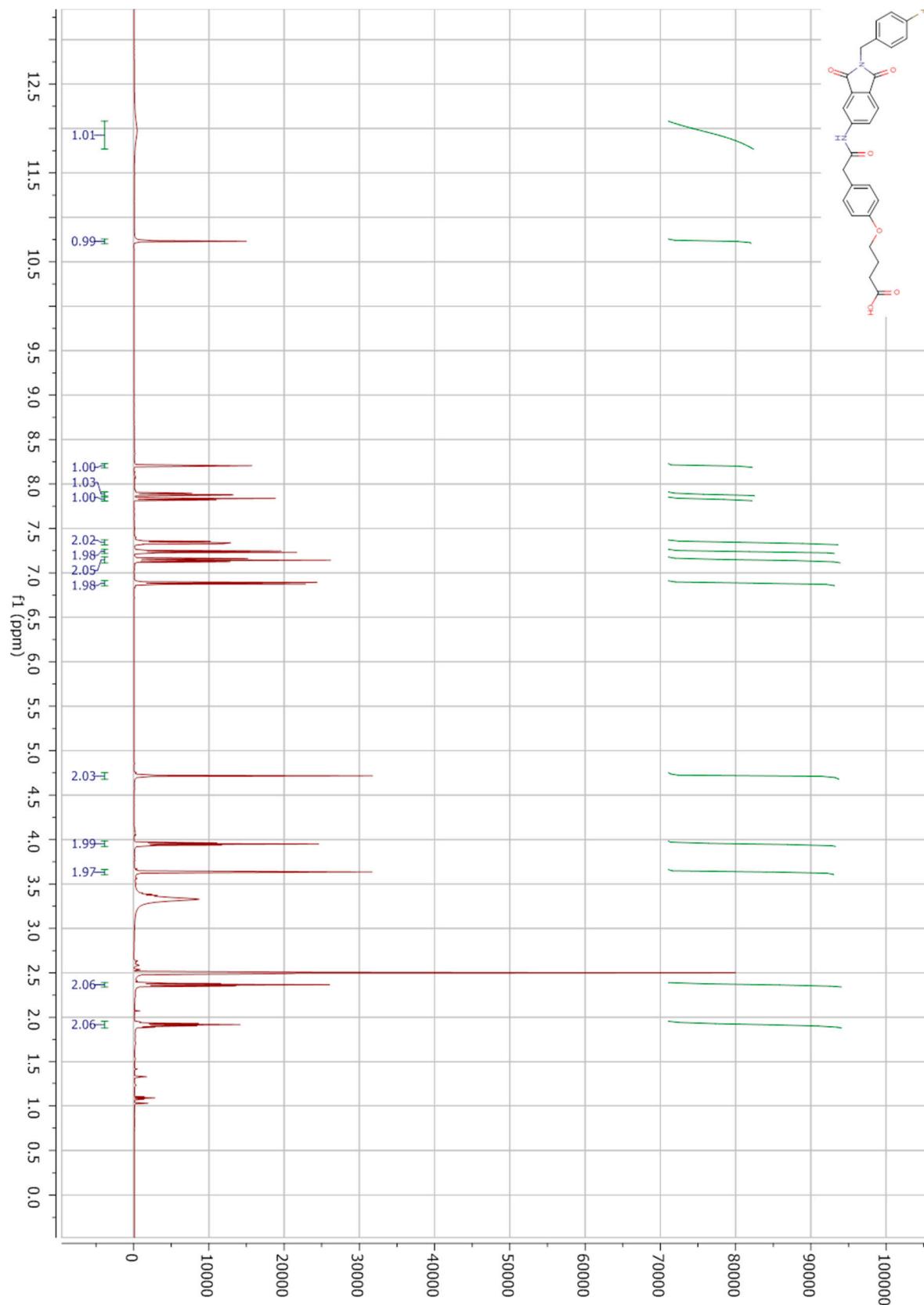
*3-{4-[({2-[{(4-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl}carbamoyl)methyl]phenoxy}propanoic acid (**14k**; ZHAWOC6644)*

HRMS

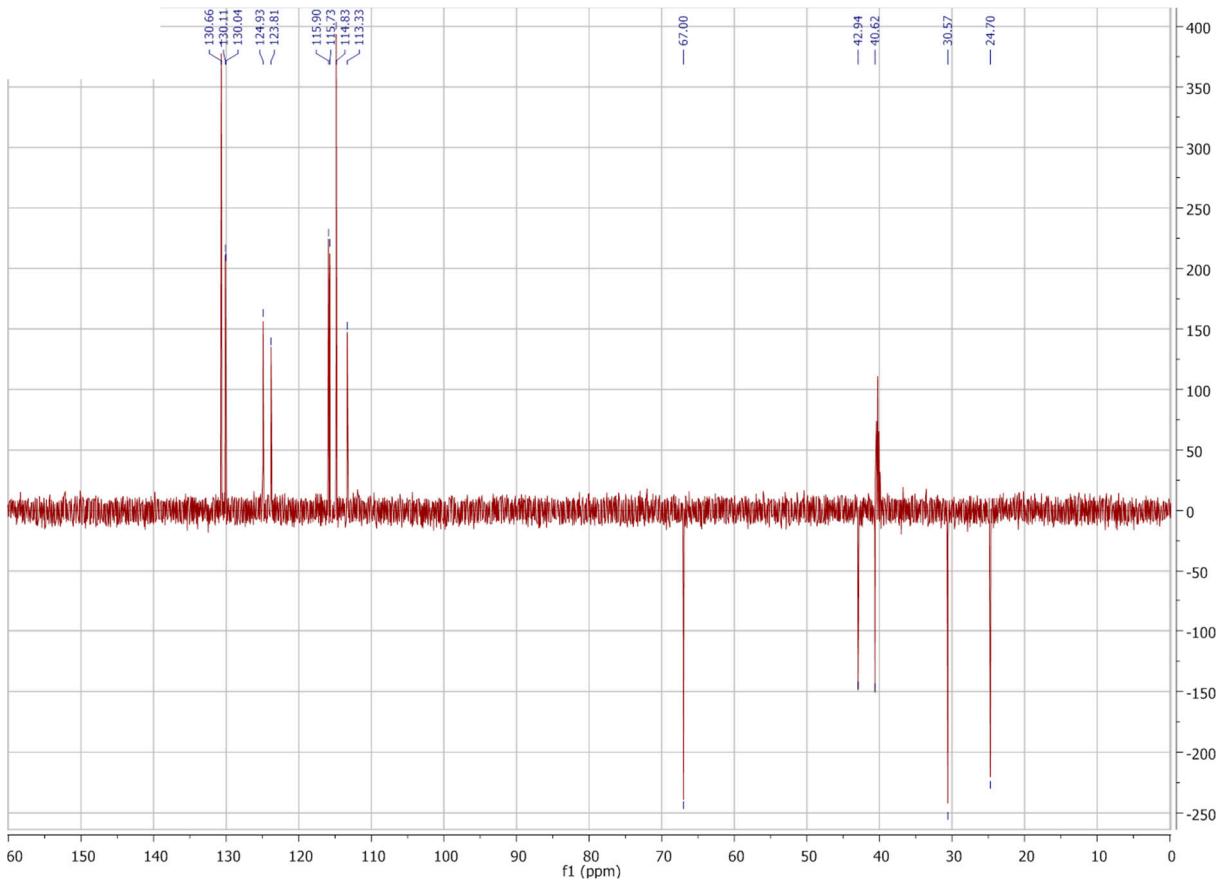
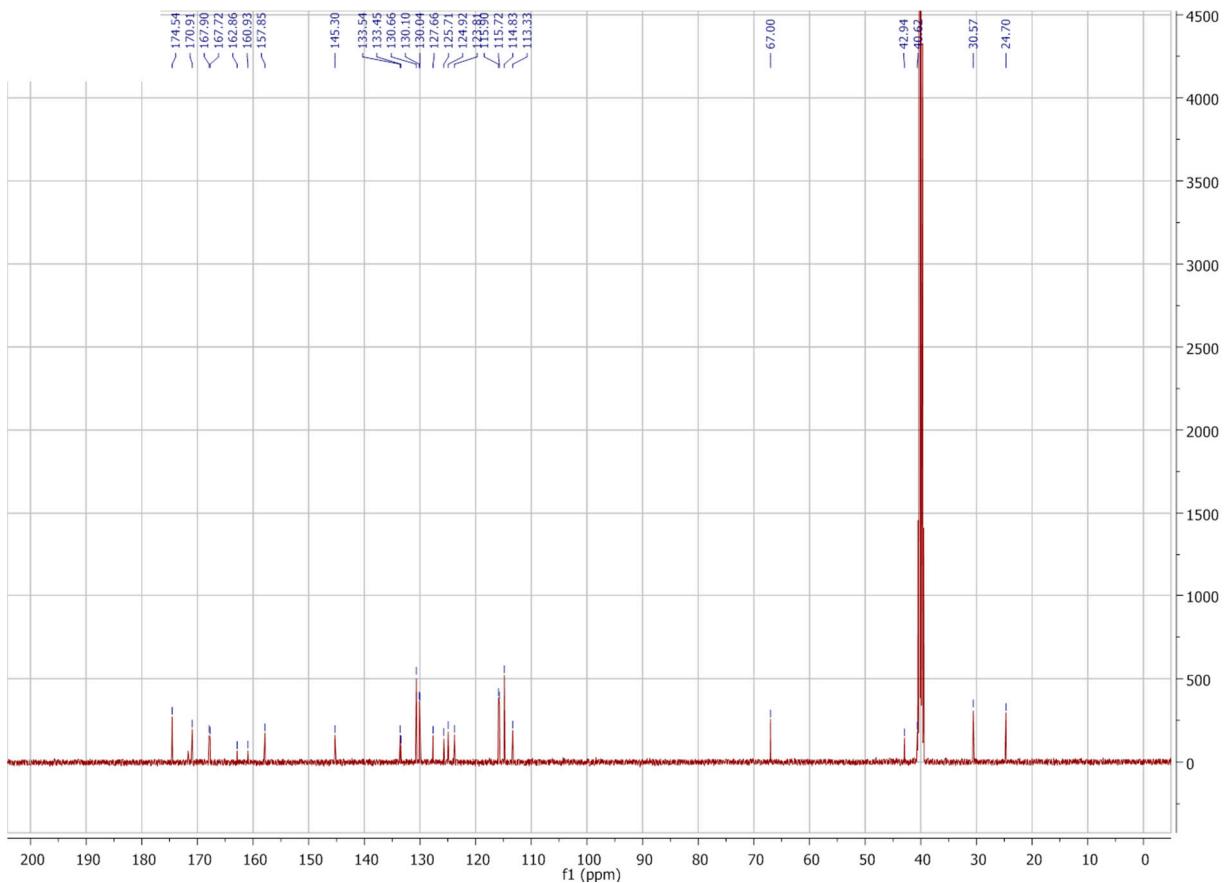


4-{4-[{(2-[(4-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl}carbamoyl)methyl]phenoxy}butanoic acid (14l; ZHAWOC5463)

NMR

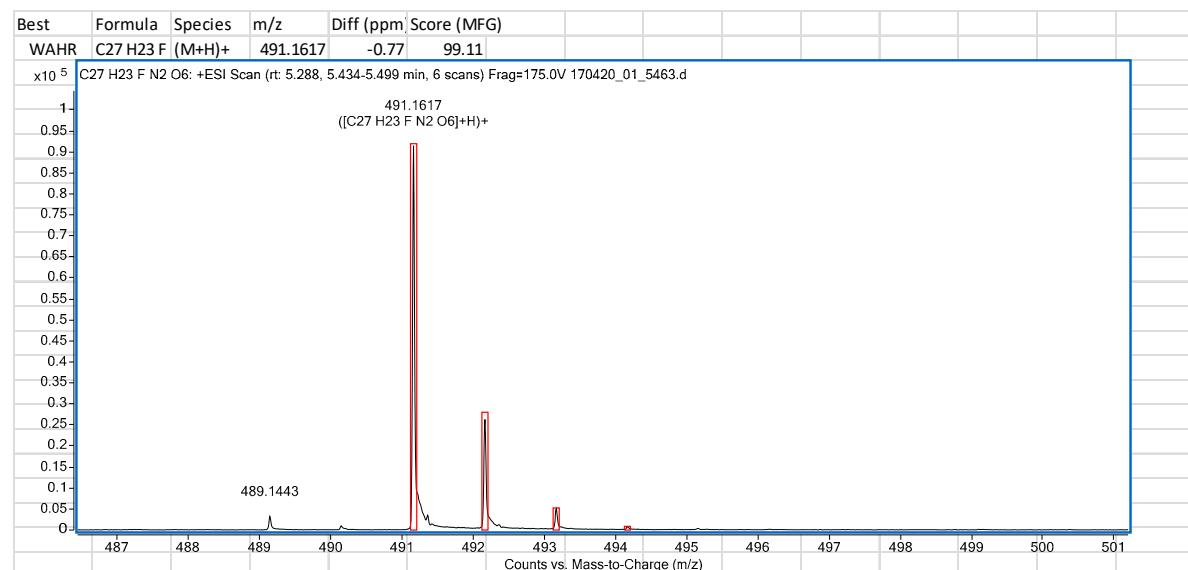


4-{{4-[(2-[(4-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl)carbamoyl)methyl]phenoxy}butanoic acid (14I; ZHAWOC5463)}

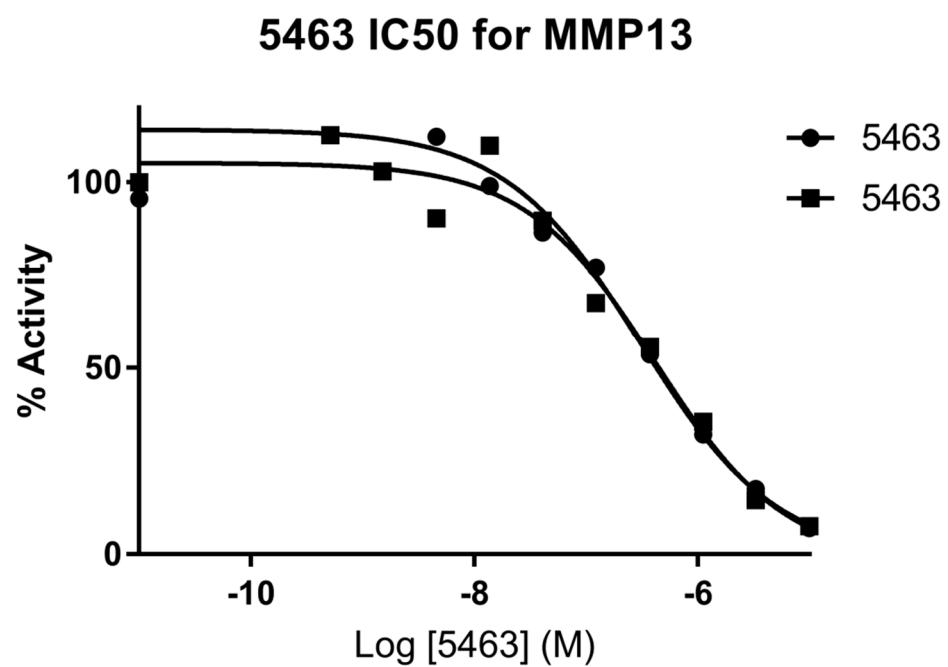


*4-{4-[({2-[{(4-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl}carbamoyl)methyl]phenoxy}butanoic acid (**14I**; ZHAWOC5463)*

HRMS

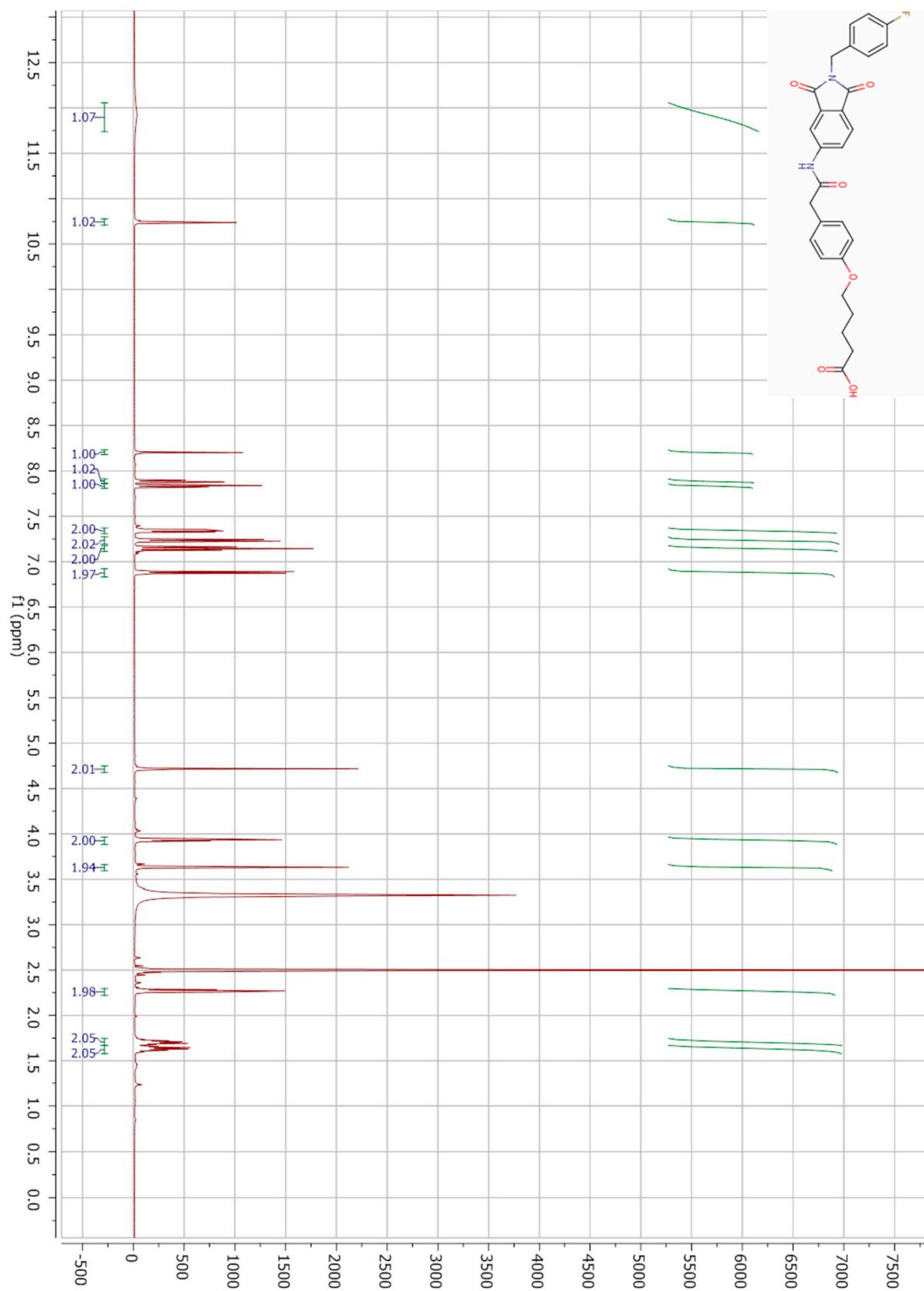


IC₅₀

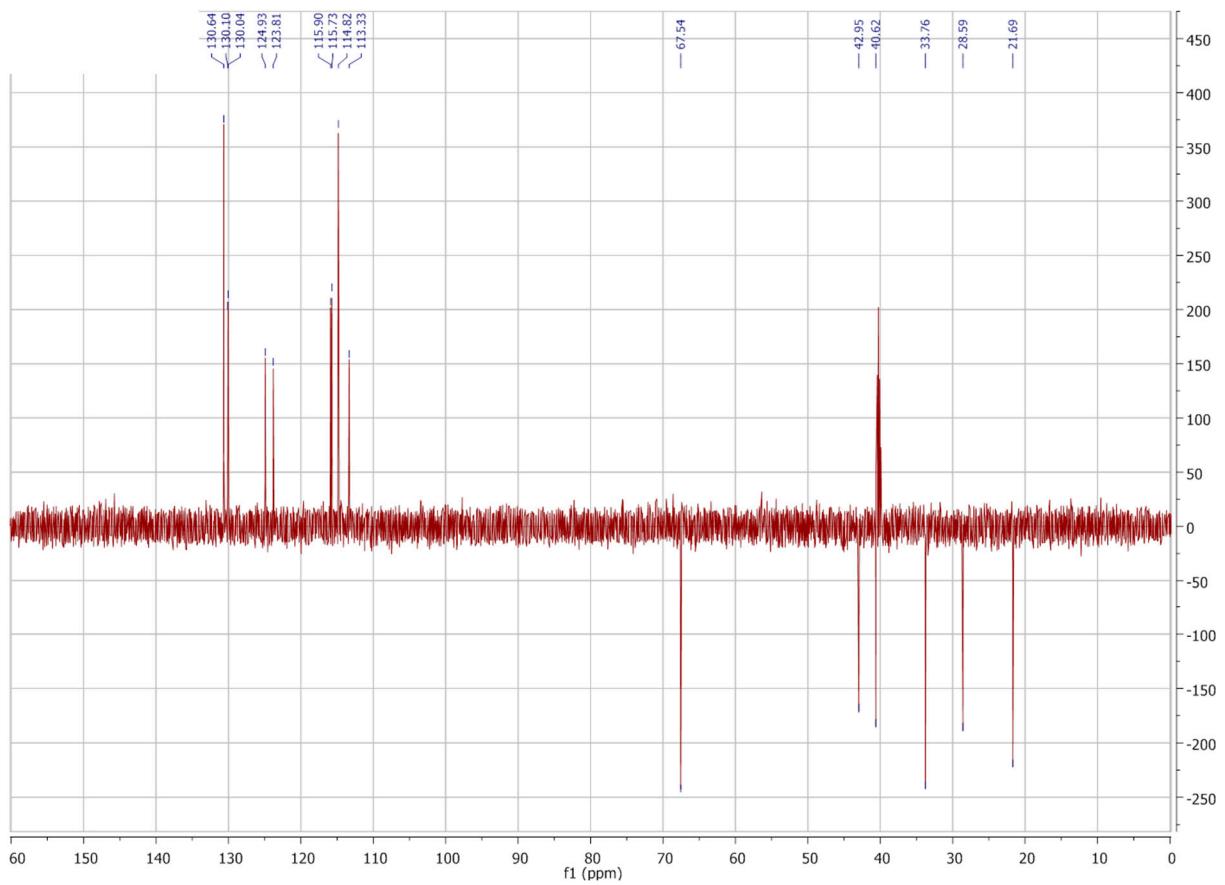
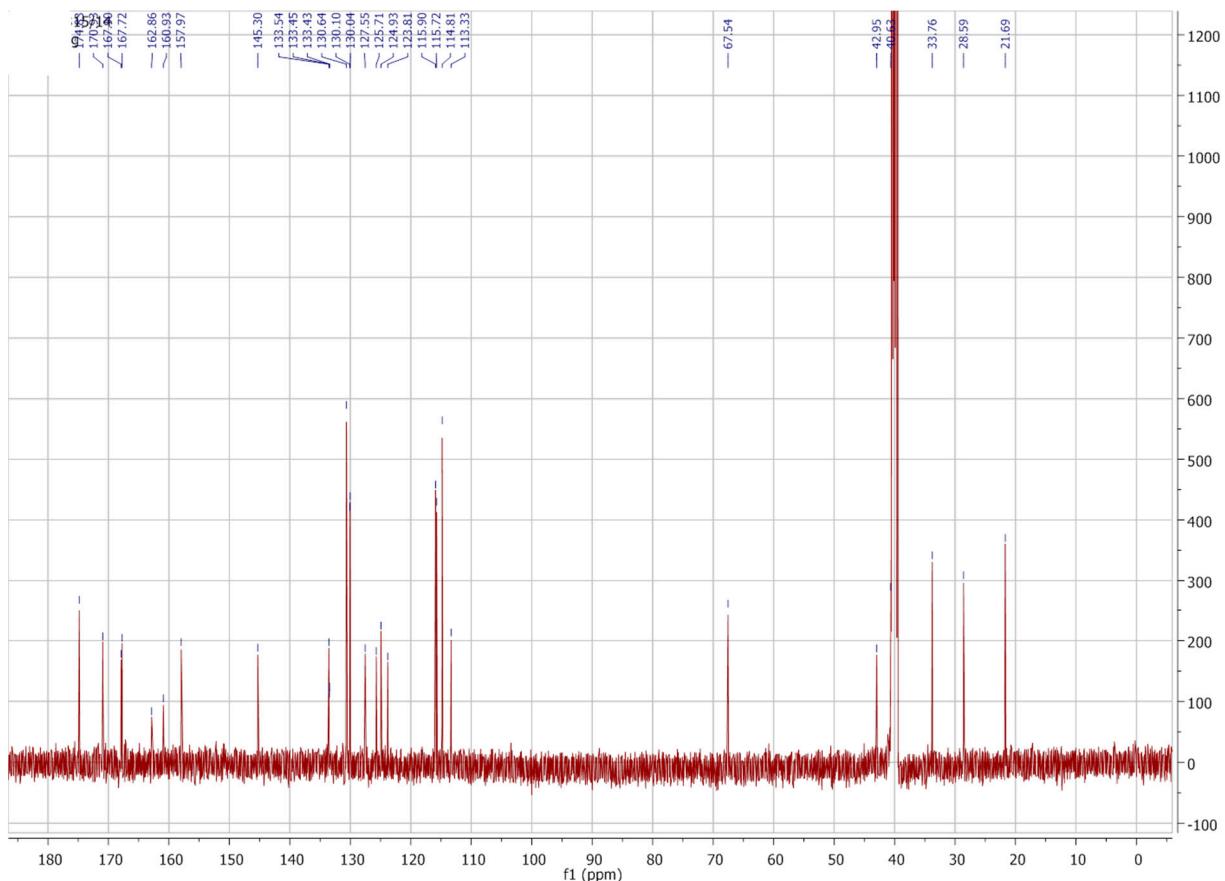


*5-{4-[({2-[{(4-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl}carbamoyl)methyl]phenoxy}pentanoic acid (**5**; ZHAWOC5684)*

NMR

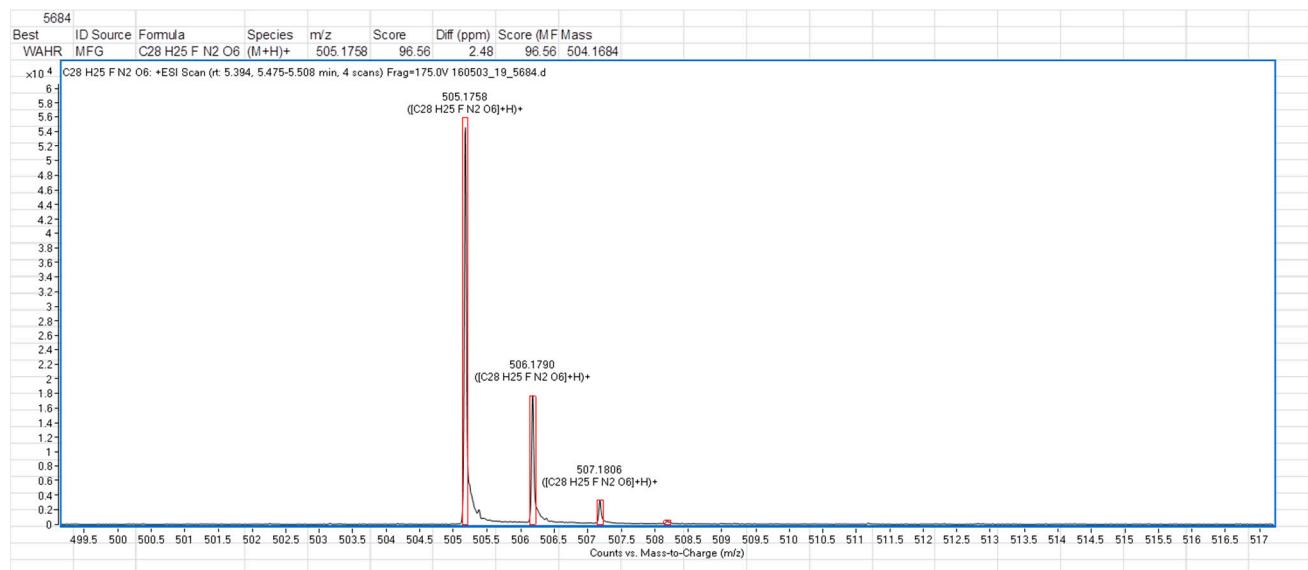


5-{4-[{(2-[(4-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl}carbamoyl)methyl]phenoxy}pentanoic acid (5**; ZHAWOC5684)**



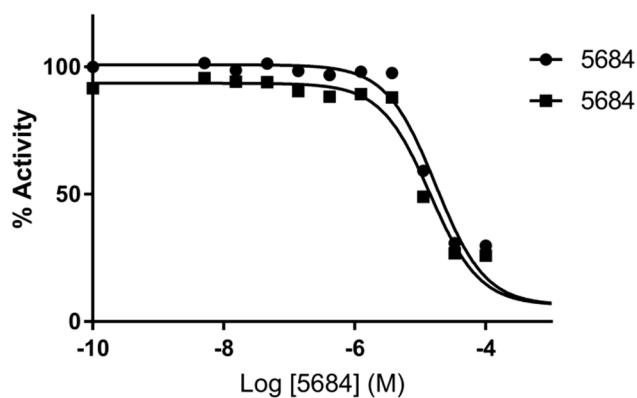
5-{4-[({2-[(4-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl}carbamoyl)methyl}phenoxy}pentanoic acid (5**; ZHAWOC5684)**

HRMS

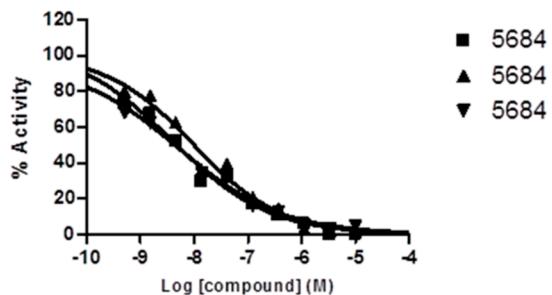


IC₅₀

5684 IC₅₀ for MMP7



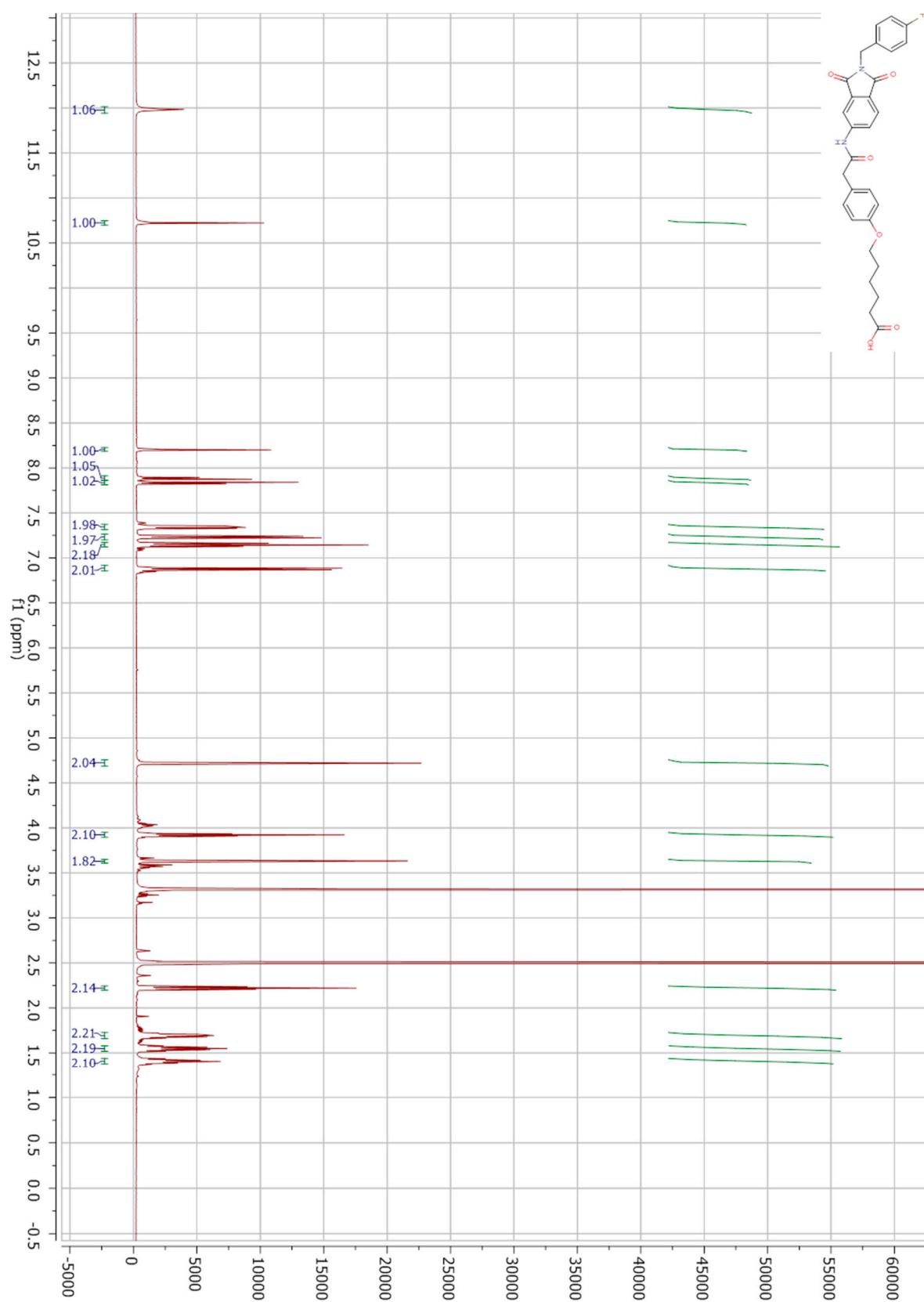
Compound IC₅₀ for MMP 13



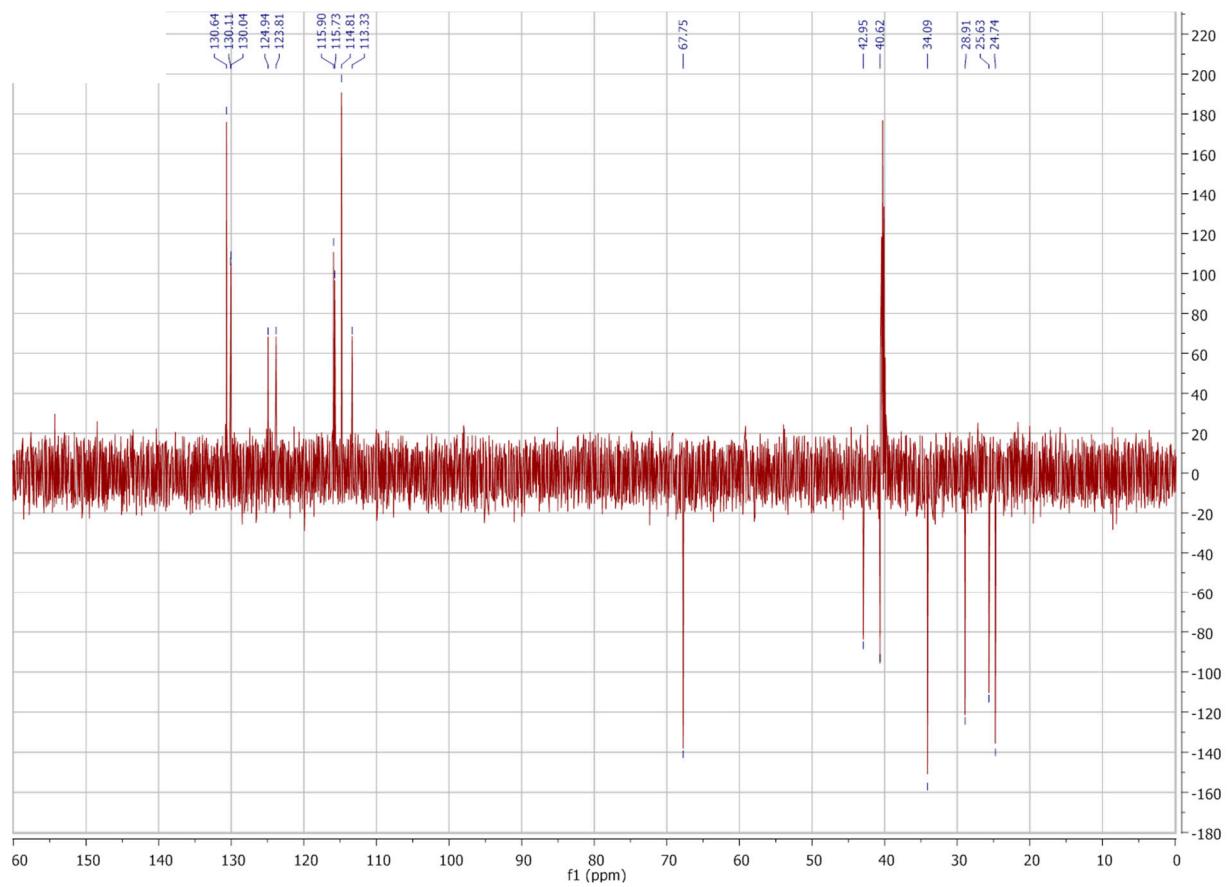
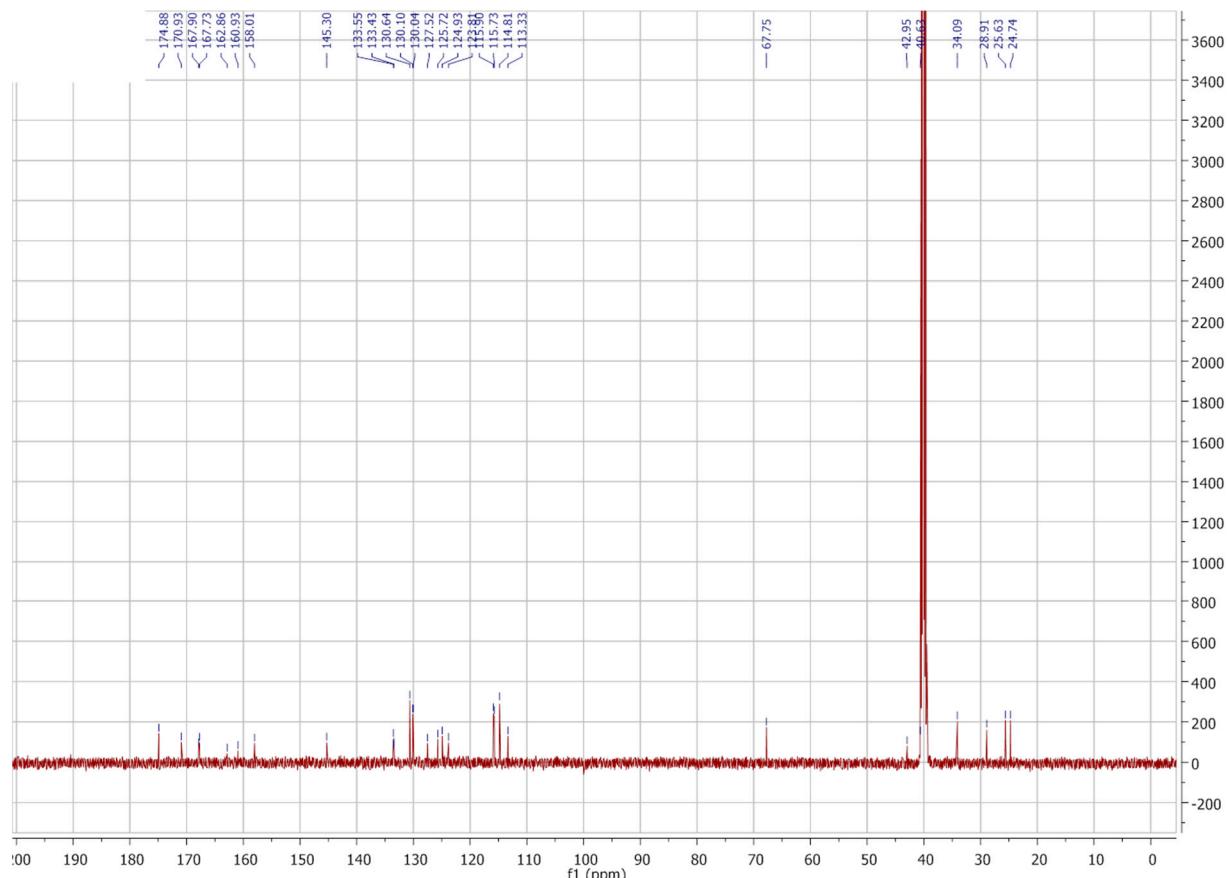
	5684	5684	5684
HILLSLOPE	-0.4789	-0.5361	-0.4540
EC50	3.835e-009	9.790e-009	5.316e-009

*6-{4-[{(2-[(4-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl}carbamoyl)methyl]phenoxy}hexanoic acid (**14m**; ZHAWOC6645)*

NMR

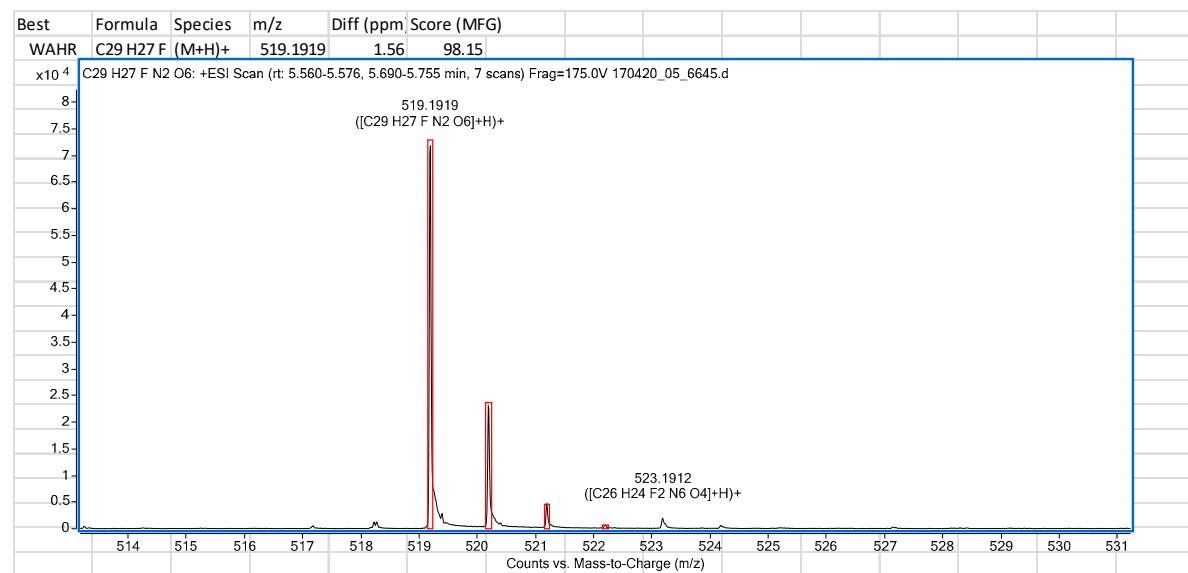


6-{4-[{(2-[(4-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl}carbamoyl)methyl]phenoxy}hexanoic acid (14m**; ZHAWOC6645)**



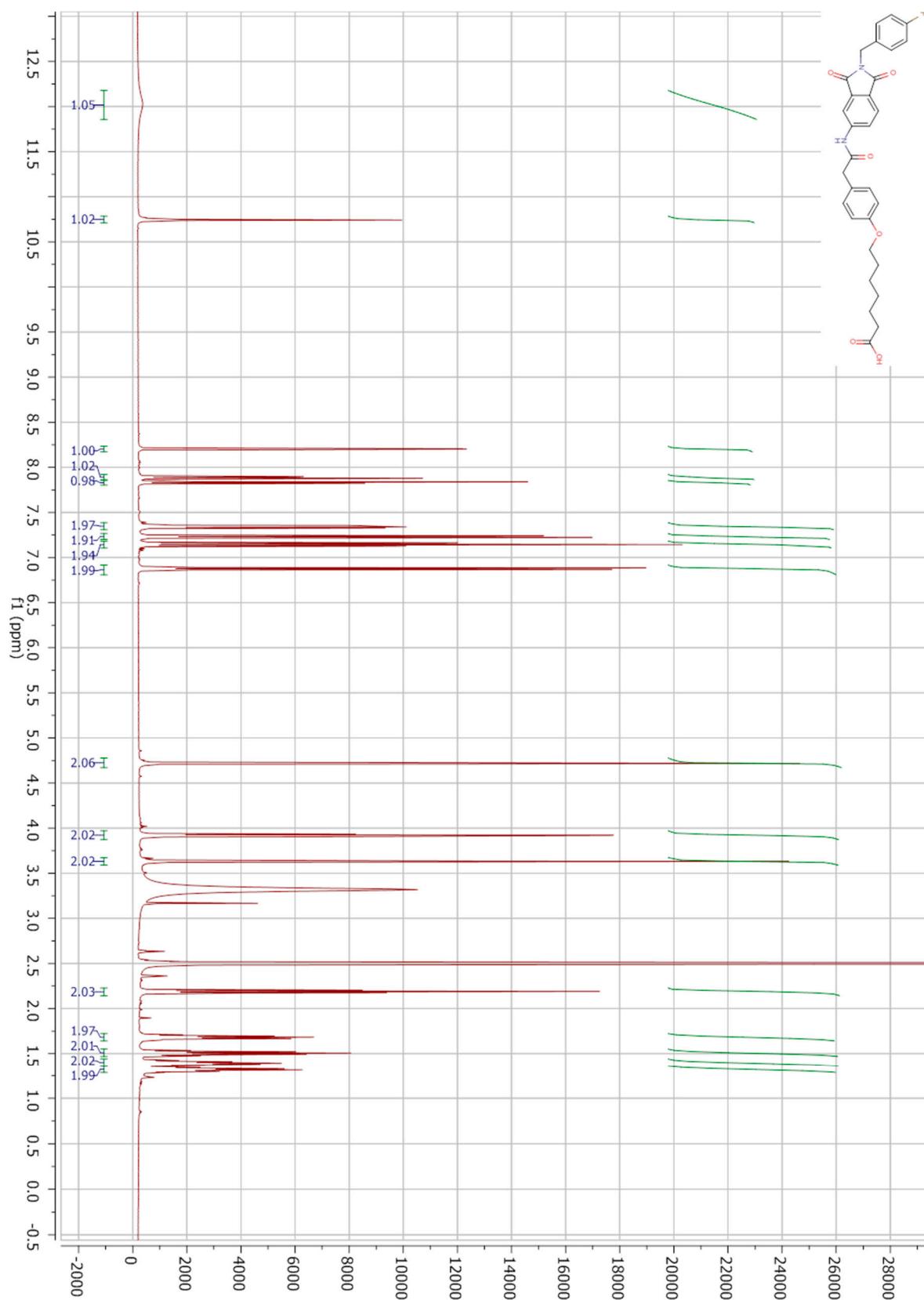
6-{4-[({2-[{(4-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl}carbamoyl)methyl]phenoxy}hexanoic acid (14m**; ZHAWOC6645)**

HRMS

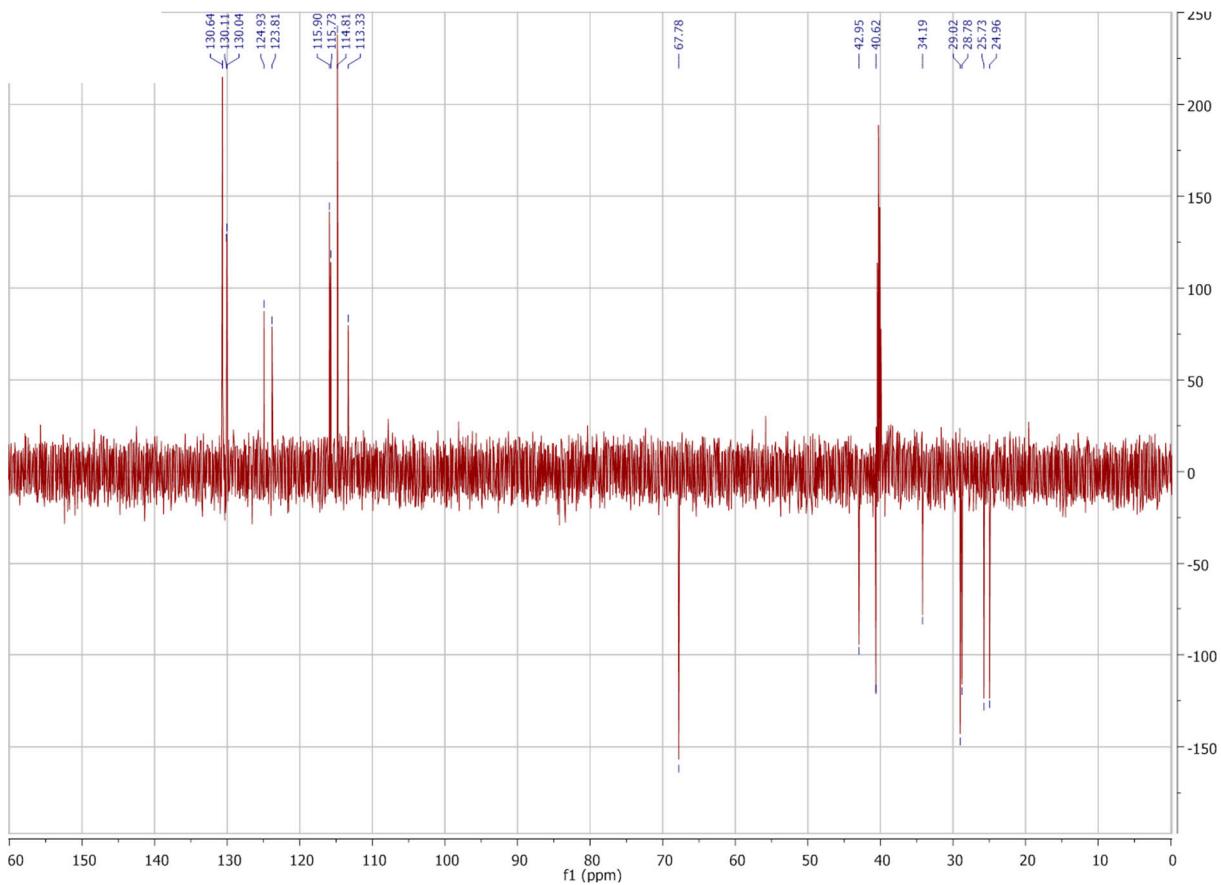
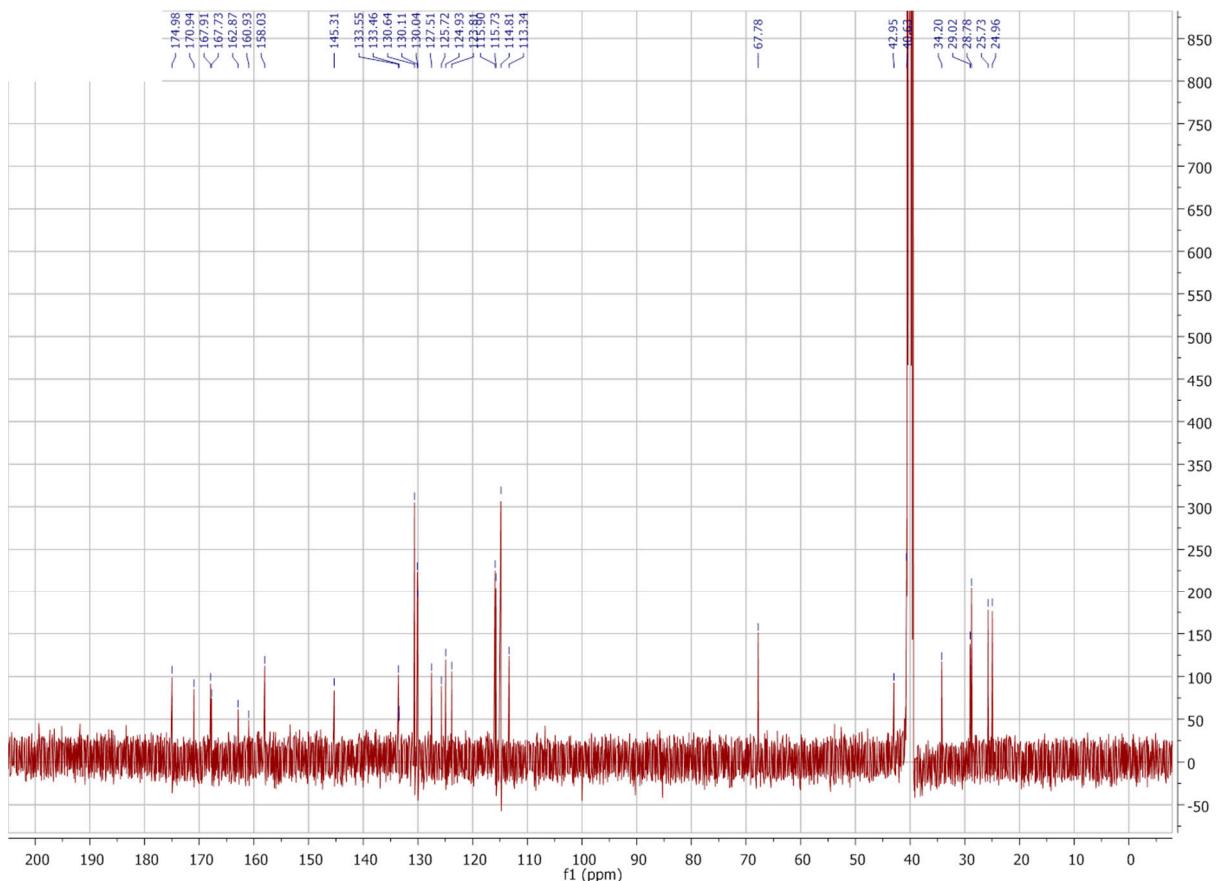


7-{4-[({2-[{(4-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl}carbamoyl)methyl]phenoxy}heptanoic acid (14n**; ZHAWOC6637)**

NMR

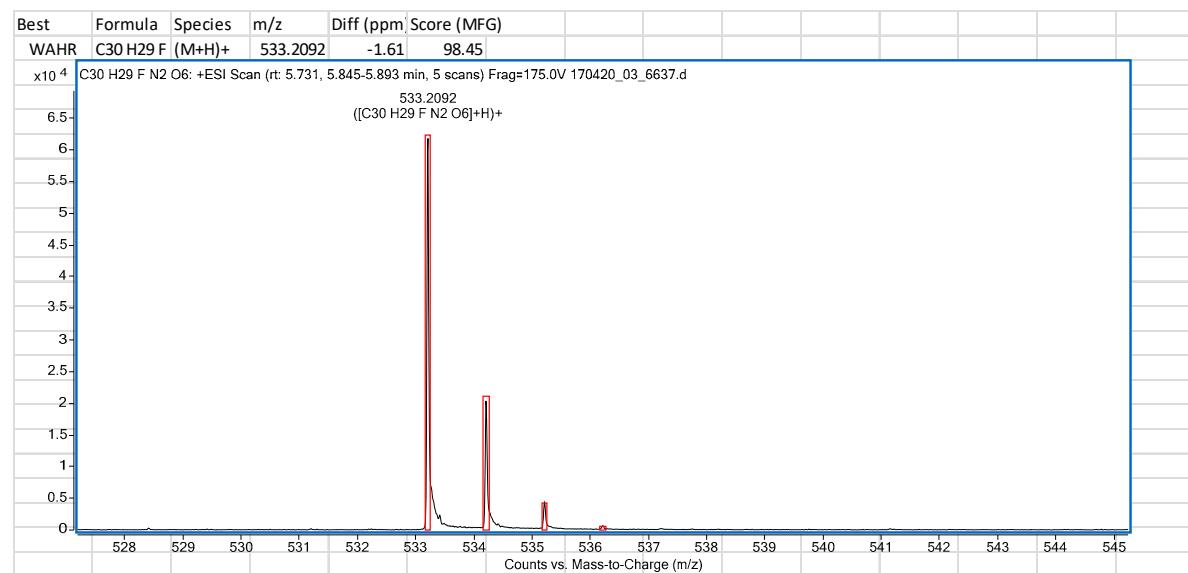


7-{4-[{(2-[(4-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl}carbamoyl)methyl]phenoxy}heptanoic acid (14n**; ZHAWOC6637)**



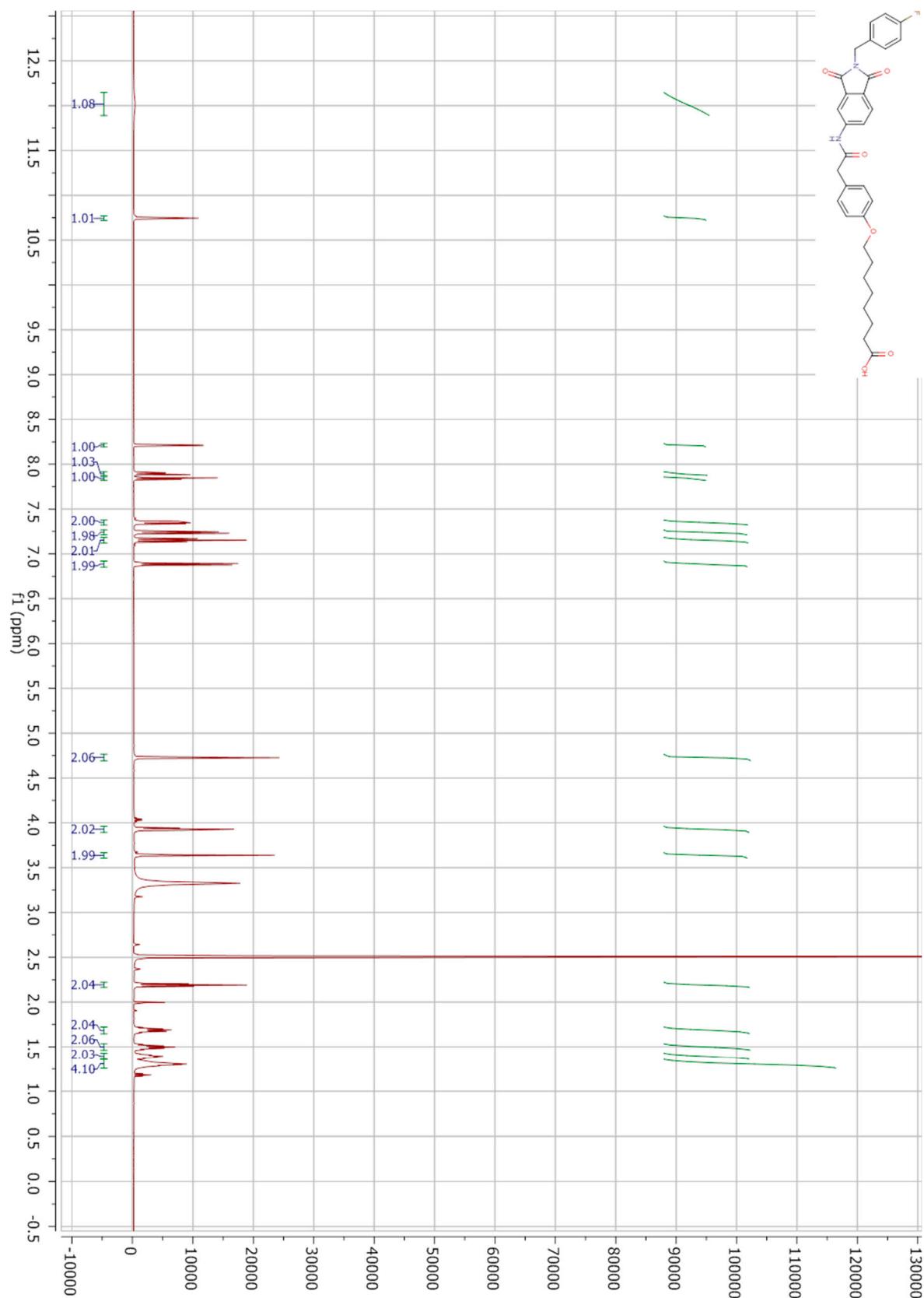
7-{4-[({2-[{(4-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl}carbamoyl)methyl]phenoxy}heptanoic acid (14n**; ZHAWOC6637)**

HRMS

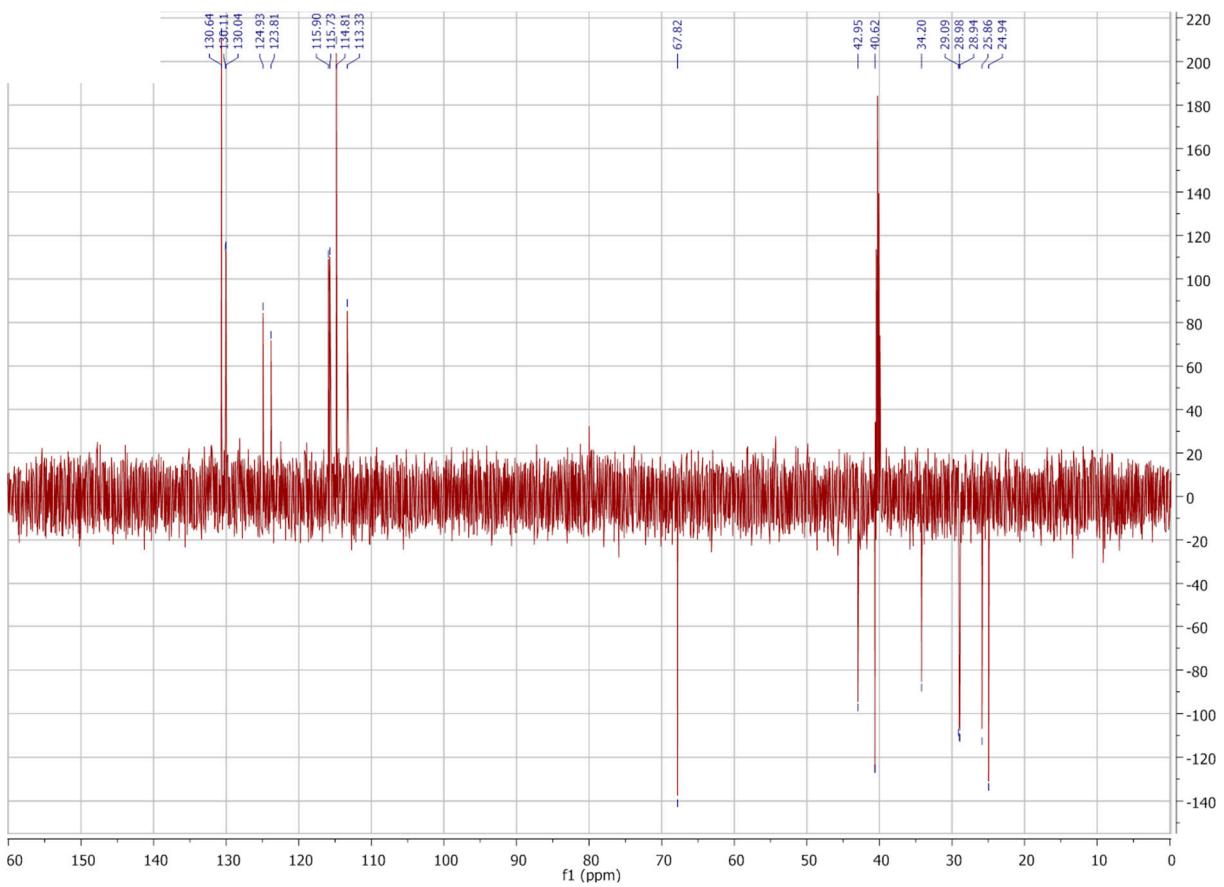
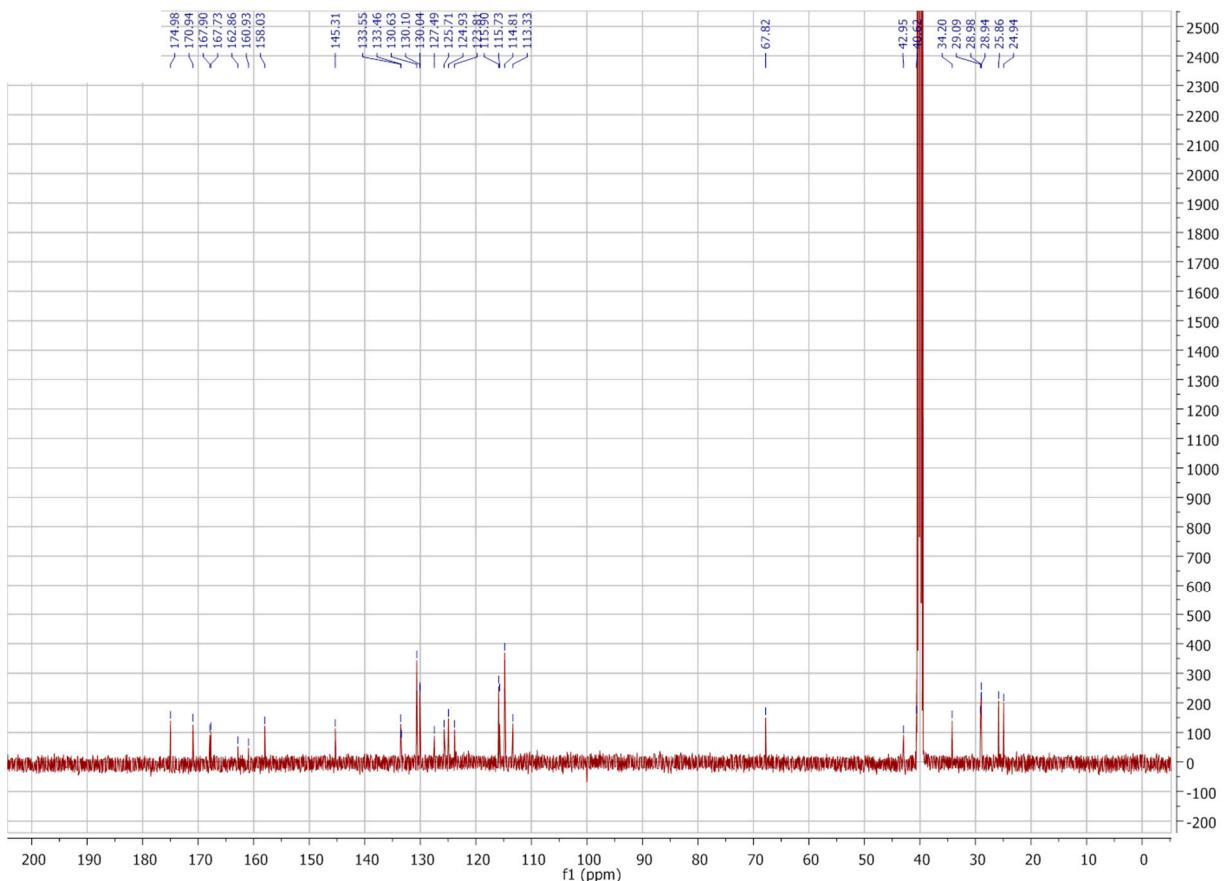


*8-{4-[({2-[{(4-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl}carbamoyl)methyl]phenoxy}octanoic acid (**14o**; ZHAWOC6646)*

NMR



8-{4-[{(2-[(4-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl}carbamoyl)methyl]phenoxy}octanoic acid (14o**; ZHAWOC6646)**



8-{4-[({2-[{(4-fluorophenyl)methyl]-1,3-dioxo-2,3-dihydro-1H-isoindol-5-yl}carbamoyl)methyl]phenoxy}octanoic acid (14o**; ZHAWOC6646)**

HRMS

