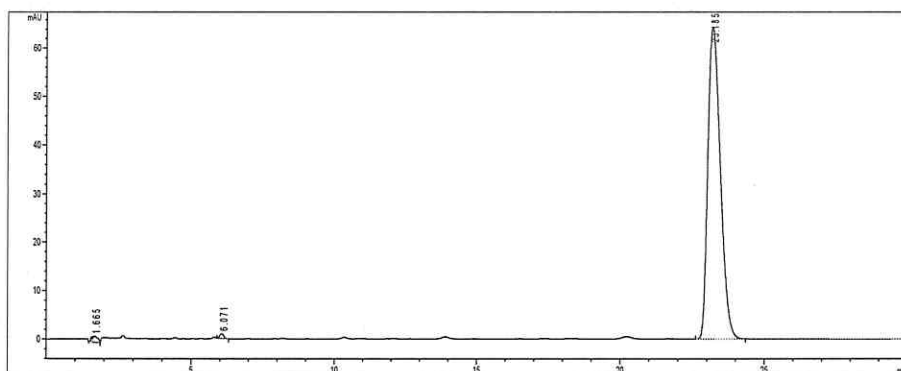
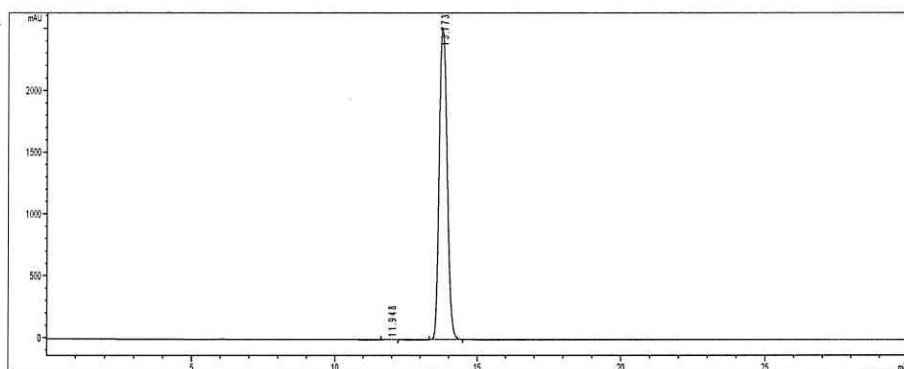


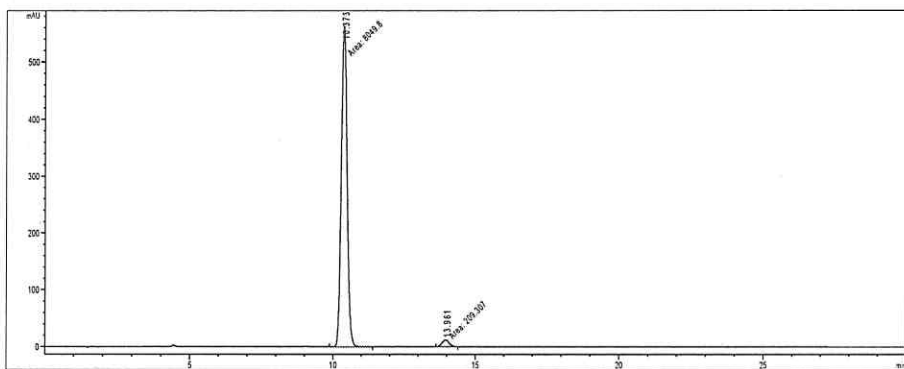
HPLC CHROMATOGRAMS



Compound	Retention time	Area%
CD1	23.19	>98



Compound	Retention time	Area%
CD2	13.77	>99



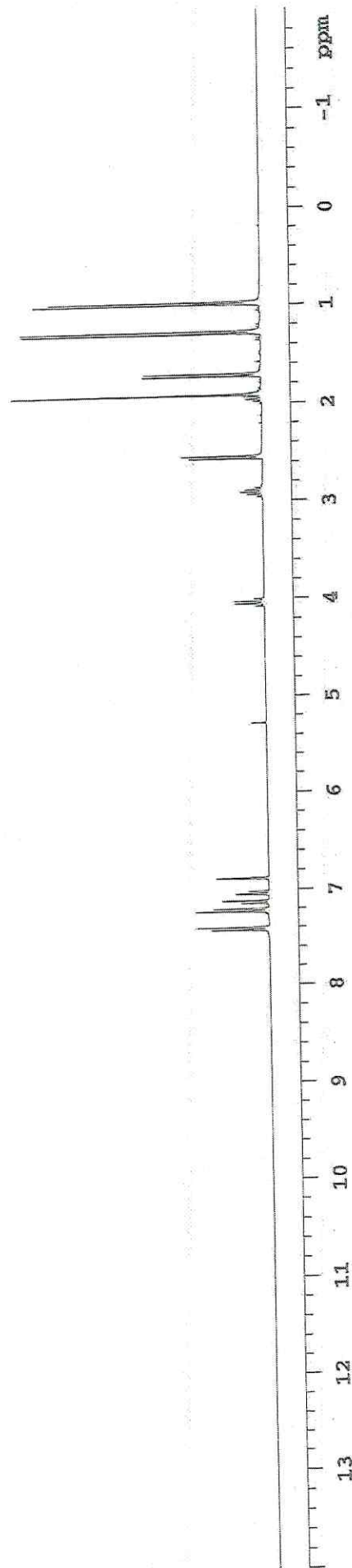
Compound	Retention time	Area%
CD3	10.40	>97

Sample Name: Ibu-car_fraz_27-36
 Data Collected on: m300-mercury300
 Archive directory: /home/caccia/vnmrsys/data
 Sample directory: OLP-NA_MARI1_20211021_01
 FIDFile: PROTON

Pulse Sequence: PROTON (s2pul)
 Solvent: cdcl3
 Data collected on: Feb 17 2022

Operator: caccia

Relax. delay 1.000 sec
 Pulse 45.0 degrees
 Acq. time 1.706 sec
 Width 4803.1 Hz
 32 repetitions
 OBSERVE H1, 300.1976543 MHz
 DATA PROCESSING
 FT size 16384
 Total time 1 min 29 sec

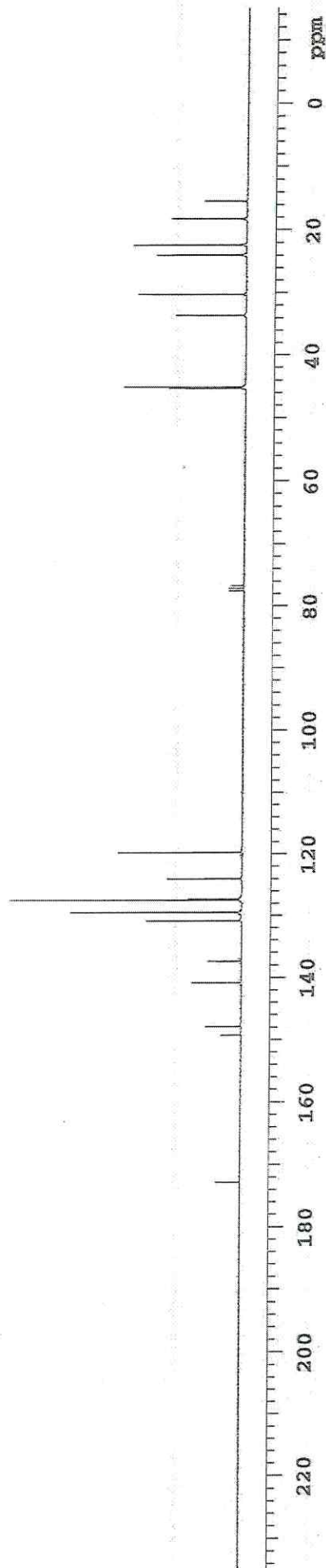


Sample Name:
Ibu-car_fraz_27-36
Data Collected on:
m300-mercury300
Archive directory:
/home/caccia/vnmrsws/data
Sample directory:
OLP-RA_MARI_20211021_01
Fidfile: CARBON

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Feb 16 2022

Operator: caccia

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 0.868 sec
Width 18867.9 Hz
2000 repetitions
OBSERVE C13, 75.4847602 MHz
DECOUPLE H1, 300.1991980 MHz
Power 38 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
Ft size 32768
Total time 1 hr, 4 min



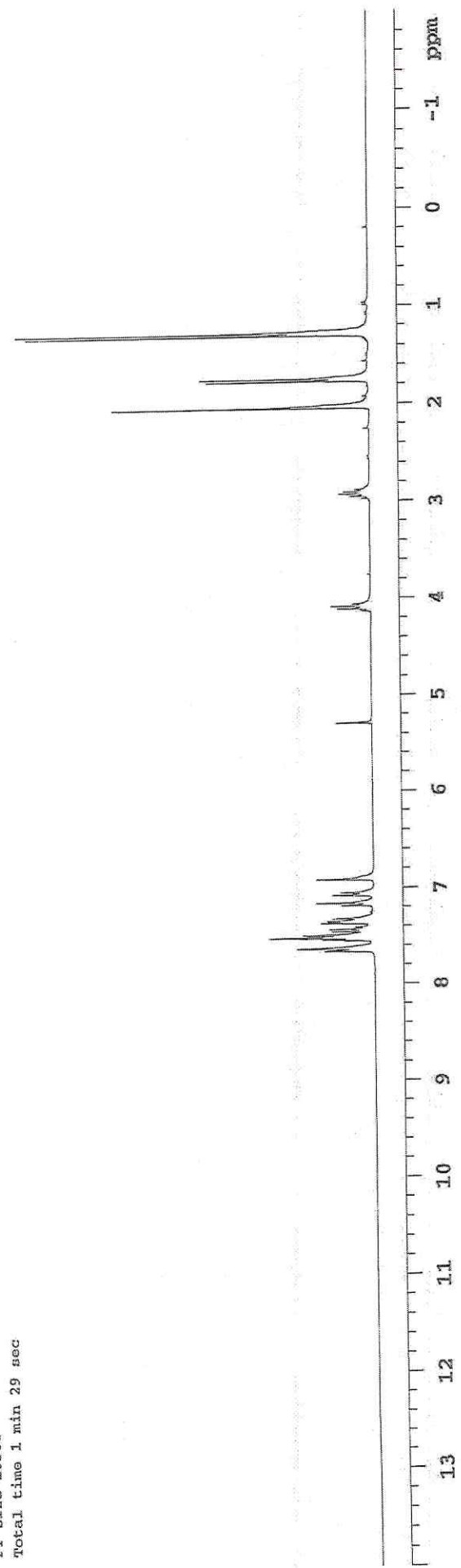


Sample Name:
Flu-car_fraz_39-71
Data Collected on:
m300-mercury300
Archive directory:
/home/caccia/vmrays/data
Sample directory:
OLP-RA_MARI1_20211021_01
FidFile: PROTON

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Feb 15 2022

Operator: caccia

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.706 sec
Width 4803.1 Hz
32 repetitions
OBSERVE H1, 300.1976543 MHz
DATA PROCESSING
Ft size 16384
Total time 1 min 29 sec

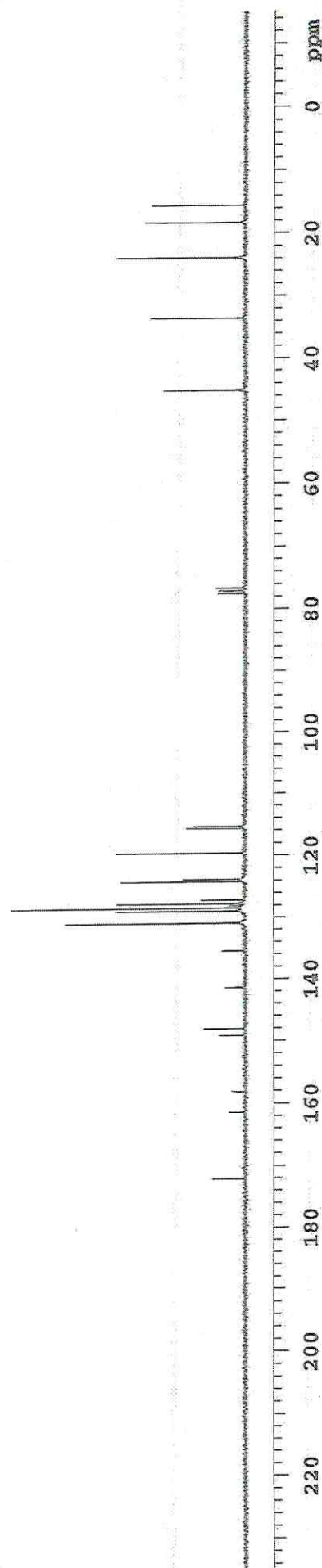


Sample Name:
Flur-car_fraz_39-71
Data Collected on:
m300-mercury300
Archive directory:
/home/caccia/vnmrSYS/data
Sample directory:
OLP-RA_MAR11_20211021_01
FidFile: CARBON

Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Feb 16 2022

Operator: caccia

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 0.868 sec
Width 18867.9 Hz
2000 repetitions
OBSERVE C13, 75.4847602 MHz
DECOUPLE H1, 300.1991980 MHz
Power 38 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 32768
Total time 1 hr, 4 min

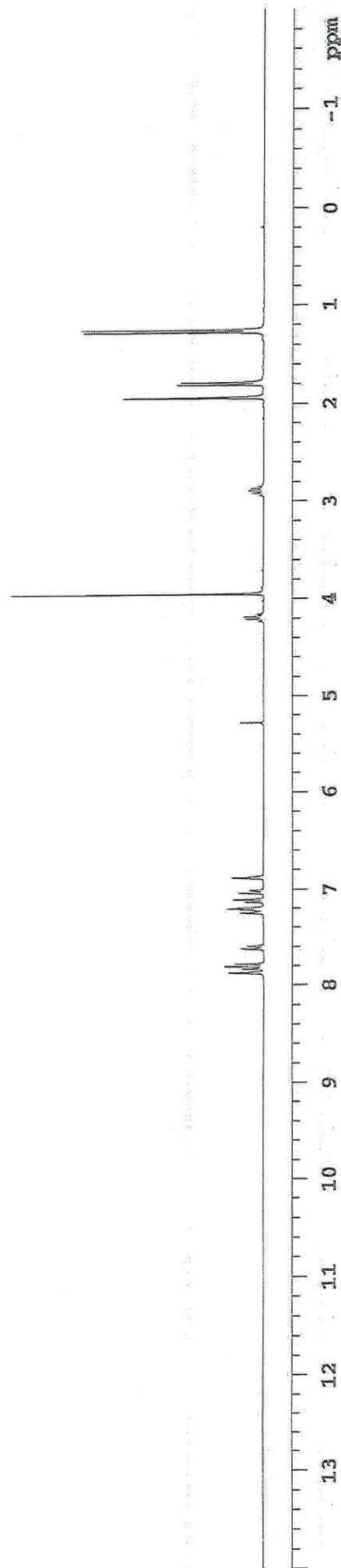


Sample Name:
Naprox-CAR
Data Collected on:
m300-mercury300
Archive directory:
/home/caccia/vnmrsys/data
Sample directory:
OLP-RA_MARI1_20211021_01
Fidfile: PROTON

Pulse Sequence: PROTON (s2pul)
Solvent: cdcl3
Data collected on: Feb 15 2022

Operator: caccia

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 1.706 sec
Width 4803.1 Hz
32 repetitions
OBSERVE H1, 300.1976543 MHz
DATA PROCESSING
Ft size 16384
Total time 1 min 29 sec

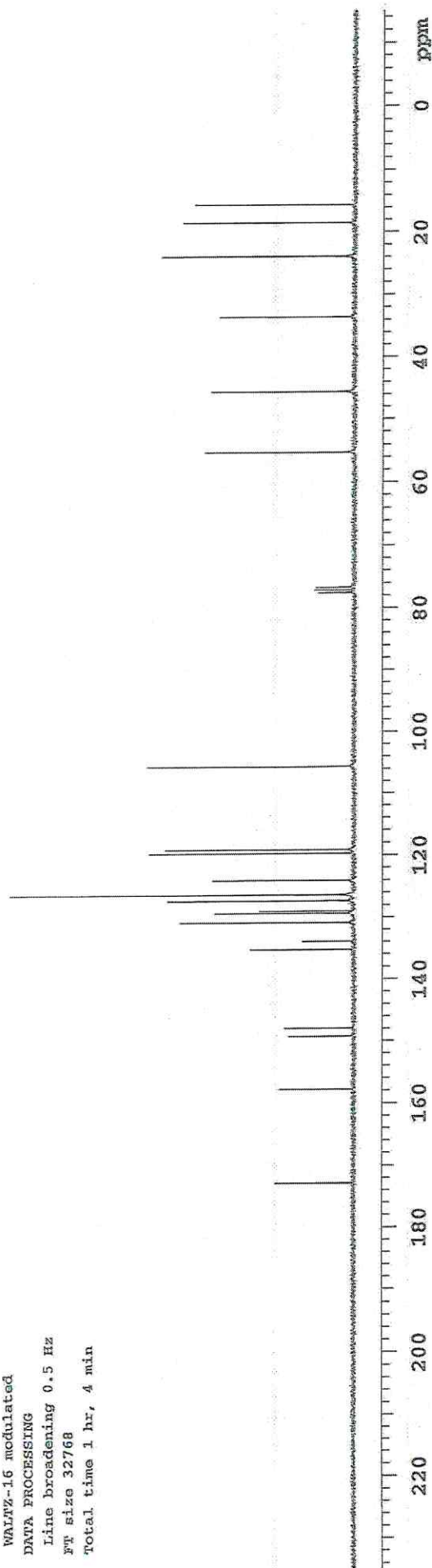




Sample Name:
Naprox-CAR
Data Collected on:
m300-mercury300
Archive directory:
/home/caccia/vnmrsws/data
Sample directory:
OLP-RA_MARI1_20211021_01
FidFile: CARBON
Pulse Sequence: CARBON (s2pul)
Solvent: cdcl3
Data collected on: Feb 15 2022

Operator: caccia

Relax. delay 1.000 sec
Pulse 45.0 degrees
Acq. time 0.868 sec
Width 18867.9 Hz
1664 repetitions
OBSERVE C13, 75.4847602 MHz
DECOUPLE H1, 300.1991980 MHz
Power 38 dB
continuously on
WALTZ-16 modulated
DATA PROCESSING
Line broadening 0.5 Hz
FT size 32768
Total time 1 hr, 4 min

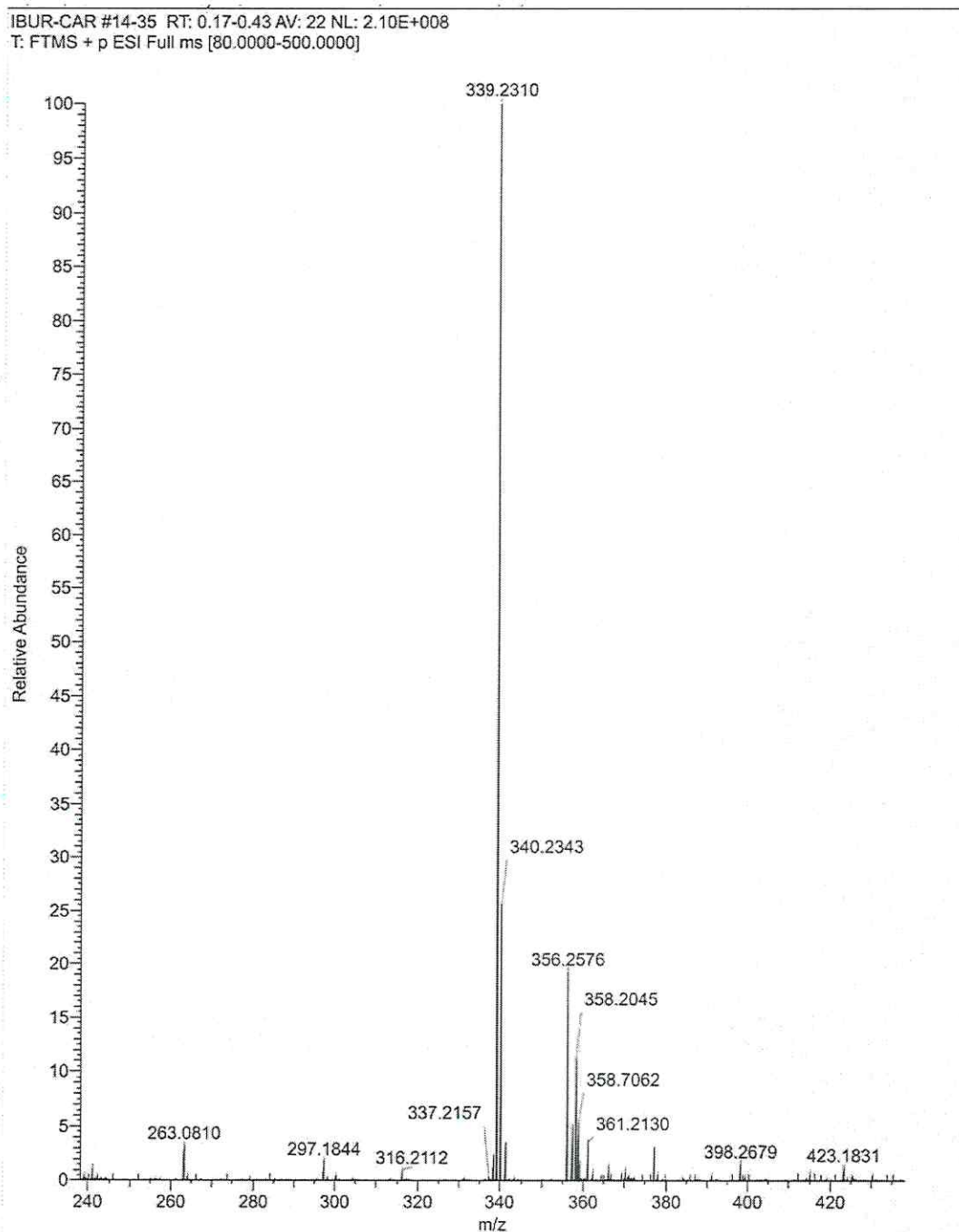


HR-MS SPECTRA

High Resolution Mass Spectrometry Analysis

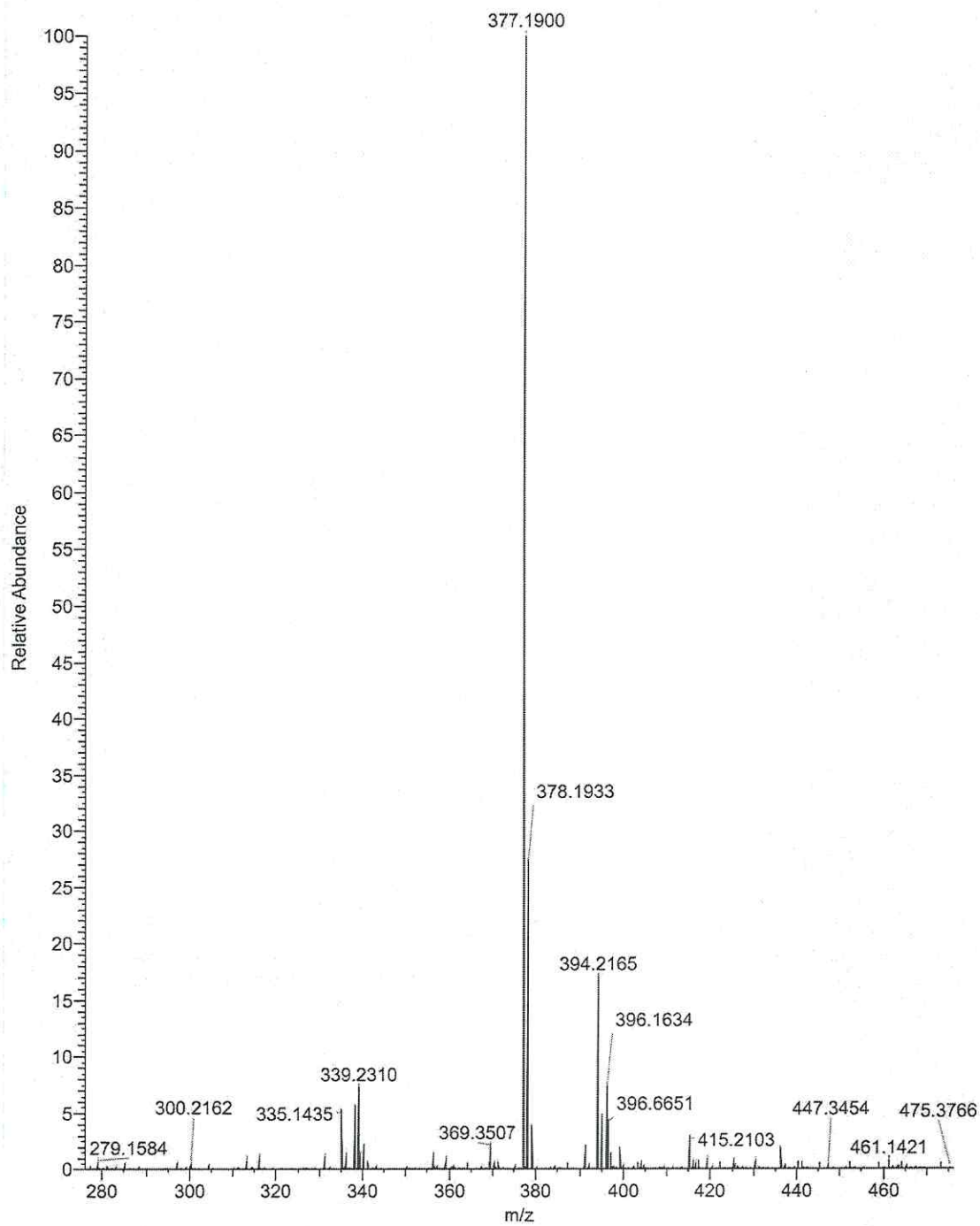
10 µg/mL of each investigated compound was dissolved in ACN/H₂O 80/20 with 0.1% of formic acid and injected into the mass spectrometer through a syringe pump at a flow rate of 5 µL/min. The mass spectrometer was a Thermo Fischer Orbitrap Fusion™ Tribrid™ operating in MS scan in the m/z range of 80 to 500 m/z by using the Orbitrap as detector type at 240,000 of mass resolution (FWHM). All compounds were acquired in positive ion mode.

CD1



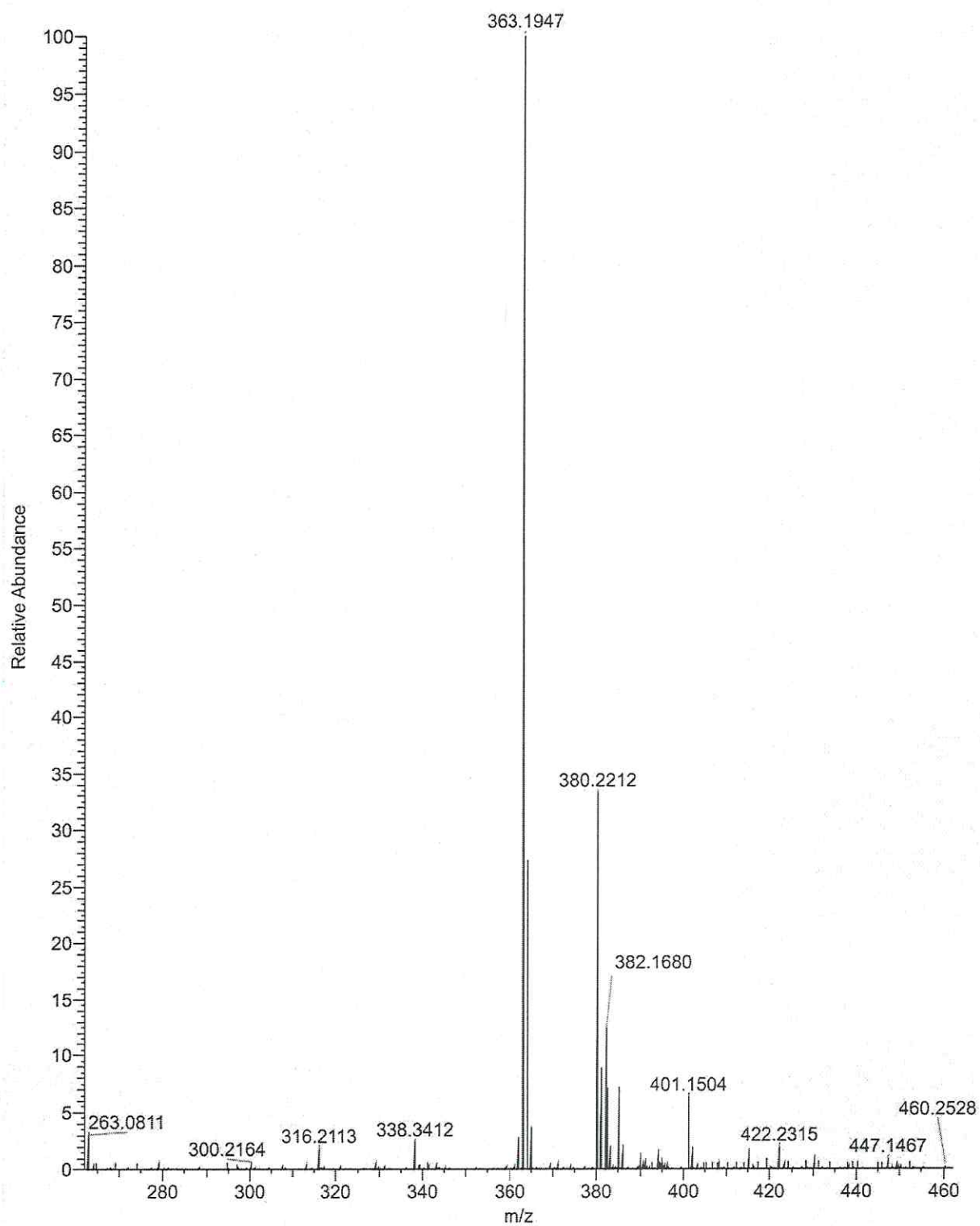
CD2

FLUR-CAR_240resolution #14-35 RT: 0.17-0.43 AV: 22 NL: 1.76E+008
T: FTMS + p ESI Full ms [80.0000-500.0000]



CD3

NAPROX-CAR #16-42 RT: 0.19-0.51 AV: 27 NL: 2.29E+008
T: FTMS + p ESI Full ms [80.0000-500.0000]



Additional biological data

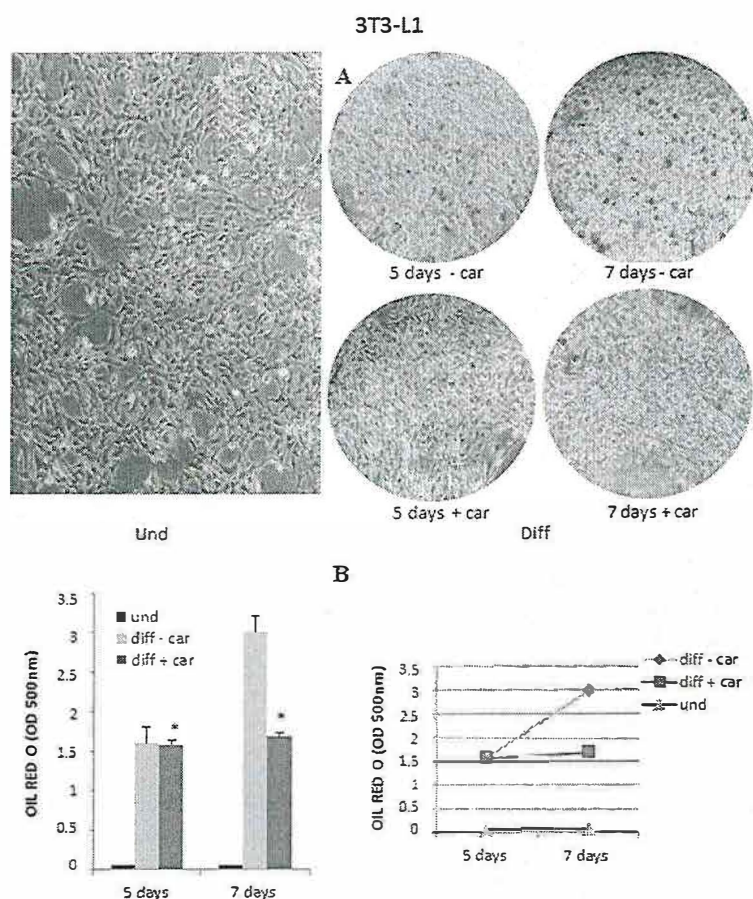


Figure S1. Reduction of adipocyte differentiation by car in 3T3-L1 cells. 3T3-L1 preadipocytes were grown in adipogenic differentiation medium until total differentiation (7 days) and treated with 25 μ M car. The visualization of triglyceride accumulation was conducted by Oil Red O staining (A). Lipid accumulation was measured through a spectrophotometer at 5 and 7 days of differentiation (B). Und = Undifferentiated cells; Diff = Differentiated cells without (diff - car) or with car (diff + car). Data are presented as mean \pm SD ($n = 3$). * $p < 0.05$: treated cells vs control (diff - car) and car (diff + car).

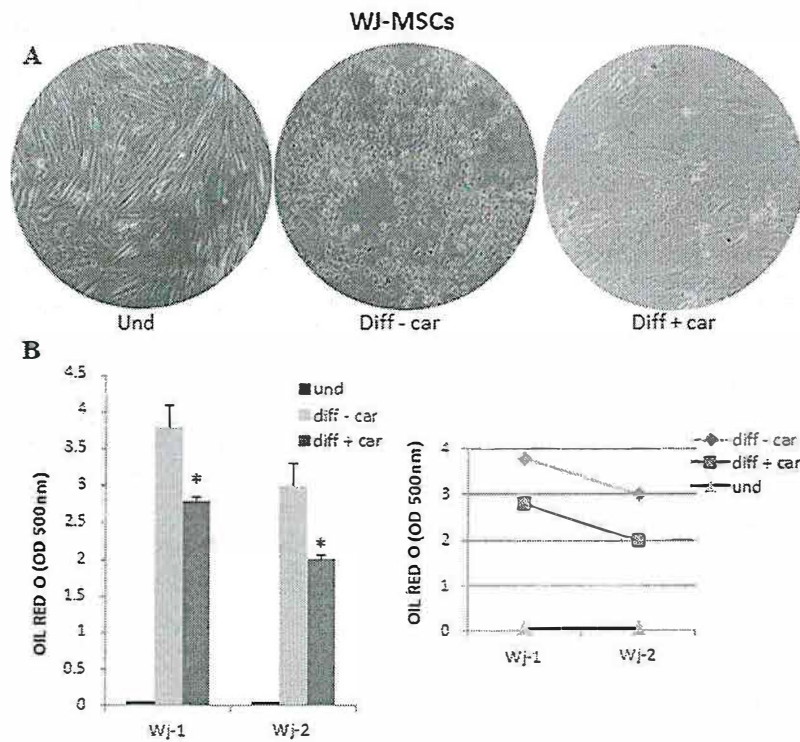


Figure S2. Reduction of adipocyte differentiation by car in WJ-MSCs cells. Two subcultures of Wharton's jelly WJ-MSCs, WJ-1, and WJ-2, were grown in an adipogenic differentiation medium until total differentiation (17 days) and treated with 25 μ M car. The visualization of triglyceride accumulation was conducted by Oil Red O staining. Lipid accumulation was measured through a spectrophotometer. Und = Undifferentiated cells; Diff = Differentiated cells without (diff - car) or with car (diff + car). Data are presented as mean \pm SD ($n = 3$). * $p < 0.05$: treated cells vs control (diff - car) and car (diff + car).