



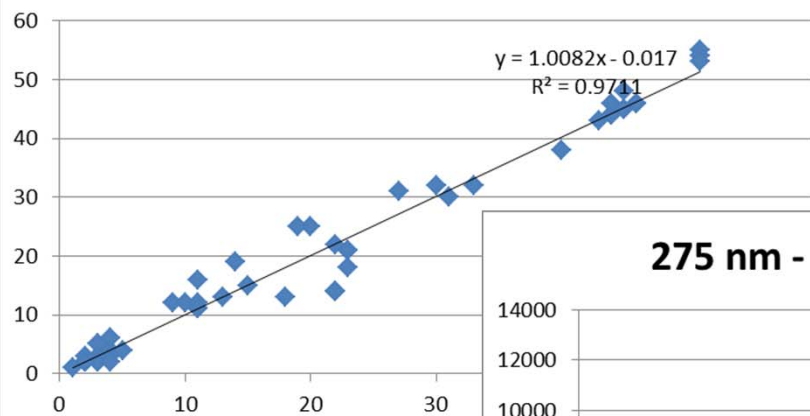
NMR-Spektroskopische Untersuchungen von Paraffinen und Vaseline:

Vergleich von ^1H -NMR-Messungen mit UV-
Methode nach DAB 8

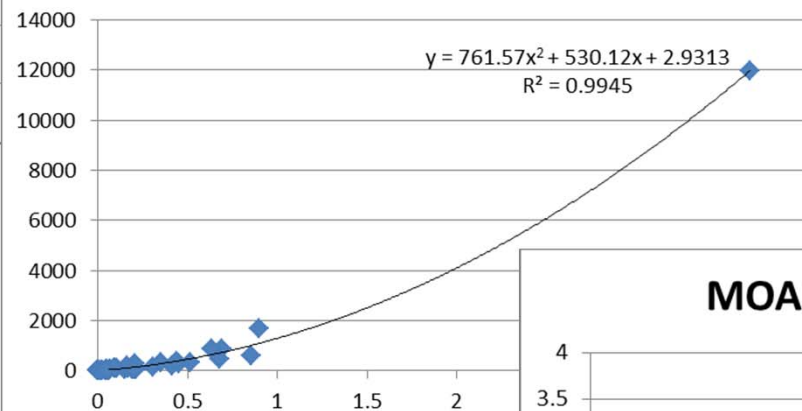
NMR: Messparameter



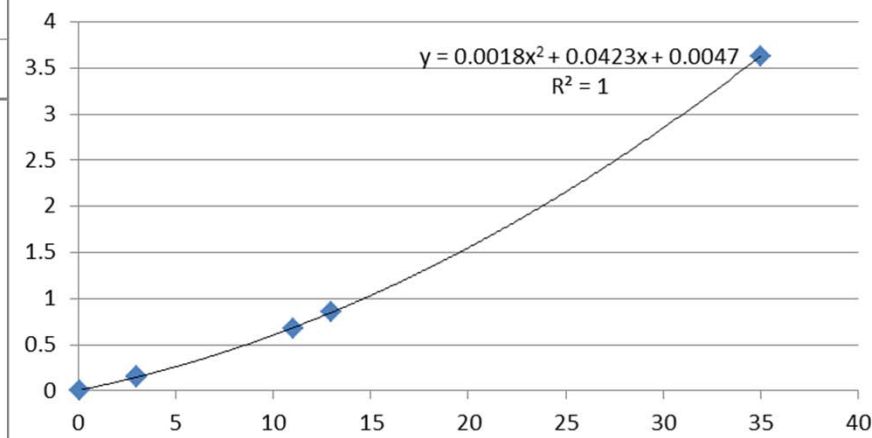
Rang 275 nm - Rang Aromat/Aliphat



275 nm - Aromat/Aliphat [%]



MOAH - Aromat/Aliphat [%]





1. Probenvorbereitung
2. Hardware
3. Akquisitionsparameter
4. Prozessierungsparameter



Lösungsmittel:

- Chloroform-d1 (99.96 atm%)
- Chloroform-d1 (99.96 atm%, 0.03% V/V TMS)
- Dichlormethan-d2 (99.8 atm%)

Probenkonzentration:

- 25 mg/ml (Vaseline)
- 100 mg/ml (Paraffine)



- **Magnet:** Bruker UltraShield 400 MHz/54 mm-Magnet, 9.4 T, 400 MHz
- **Konsole:** Bruker Avance III 400 MHz, 2-Kanal-Sendersystem
- **Probenkopf:** 5mm PABBI ATM 1H/D-BB Z-GRD (Breitband Invers-Messkopf mit ATM)
- **Probenwechsler:** B-ACS 60 (Automatic Sample Changer), 60 Proben
- **Temperiereinheit:** BSVT (Bruker Smart Variable Temperature System) + BCU (Bruker Cooling Unit)



- Temperatur: 312 K \pm 0.1 K (Bruker-NMR-Thermometer Methanol-d4 99.8%)
- Pulswinkel: 90°
- Digitaler Filter
- SW: 30 ppm
- TD: 128k
- NS: 256
- D1: 1 s
- AQ: 5.45 s
- RG: 22.6



- Software: Topspin 3.5
- Phasenkorrektur: 0. Ordnung, manuell
- Basislinienkorrektur:
 - 14 – 12 ppm
 - 10 – 6 ppm
 - 5 – (-2) ppm bzw. 5 – (-4) ppm (Paraffine)
- Integrale
 - Aromaten: 9.1 – 7.3 ppm, 7.22 – 6.5 ppm bzw. 9.1 – 6.5 ppm (Paraffine)
 - Aliphaten: 4 – 0.16 ppm



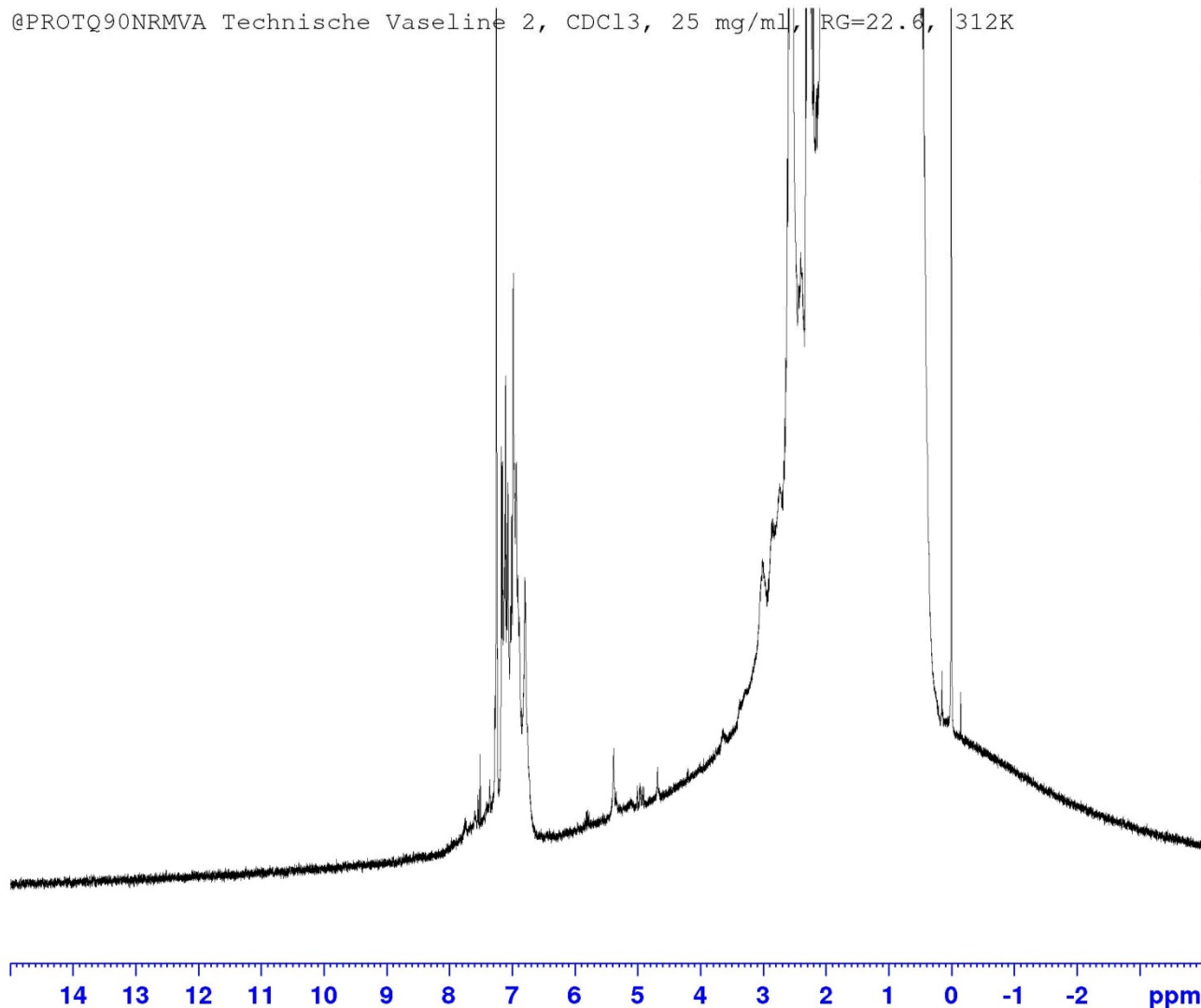
@PROTQ90NRMVA Technische Vaseline 2, CDC13, 25 mg/ml, RG=22.6, 312K



Current Data Parameters
NAME TV2_MVA
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20170831
Time 22.32 h
INSTRUM spect
PROBHD z120175_0001 (
PULPROG zg
TD 131072
SOLVENT CDC13
NS 256
DS 2
SWH 12019.230 Hz
FIDRES 0.183399 Hz
AQ 5.4525952 sec
RG 22.59
DW 41.600 usec
DE 13.66 usec
TE 312.6 K
D1 1.00000000 sec
TD0 1
SFO1 400.1320007 MHz
NUC1 1H
P1 9.13 usec
PLW1 10.39900017 W

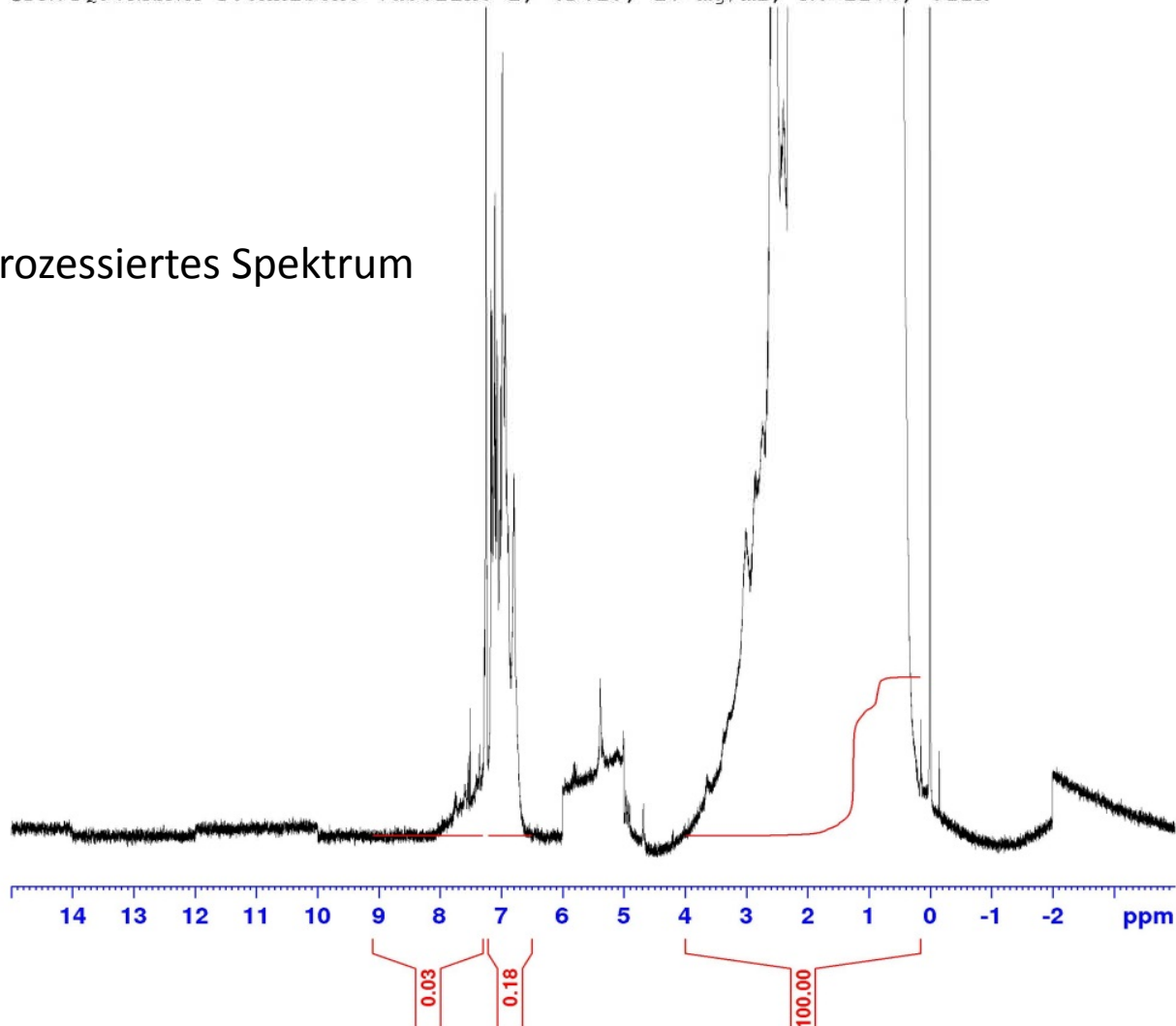
F2 - Processing parameters
SI 131072
SF 400.1300131 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00





@PROTQ90NRMVA Technische Vaseline 2, CDC13, 25 mg/ml, RG=22.6, 312K

Prozessiertes Spektrum



Current Data Parameters
NAME TV2_MVA
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20170831
Time 22.32 h
INSTRUM spect
PROBHD 2120175_0001 (
PULPROG zg
TD 131072
SOLVENT CDCl3
NS 256
DS 2
SWH 12019.230 Hz
FIDRES 0.183399 Hz
AQ 5.4525952 sec
RG 22.59
DW 41.600 usec
DE 13.66 usec
TE 312.6 K
D1 1.00000000 sec
TD0 1
SF01 400.1320007 MHz
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SI 131072
SF 400.1300131 MHz
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**Herzlichen Dank
für die Aufmerksamkeit**