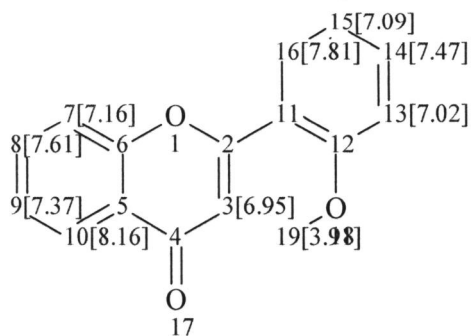
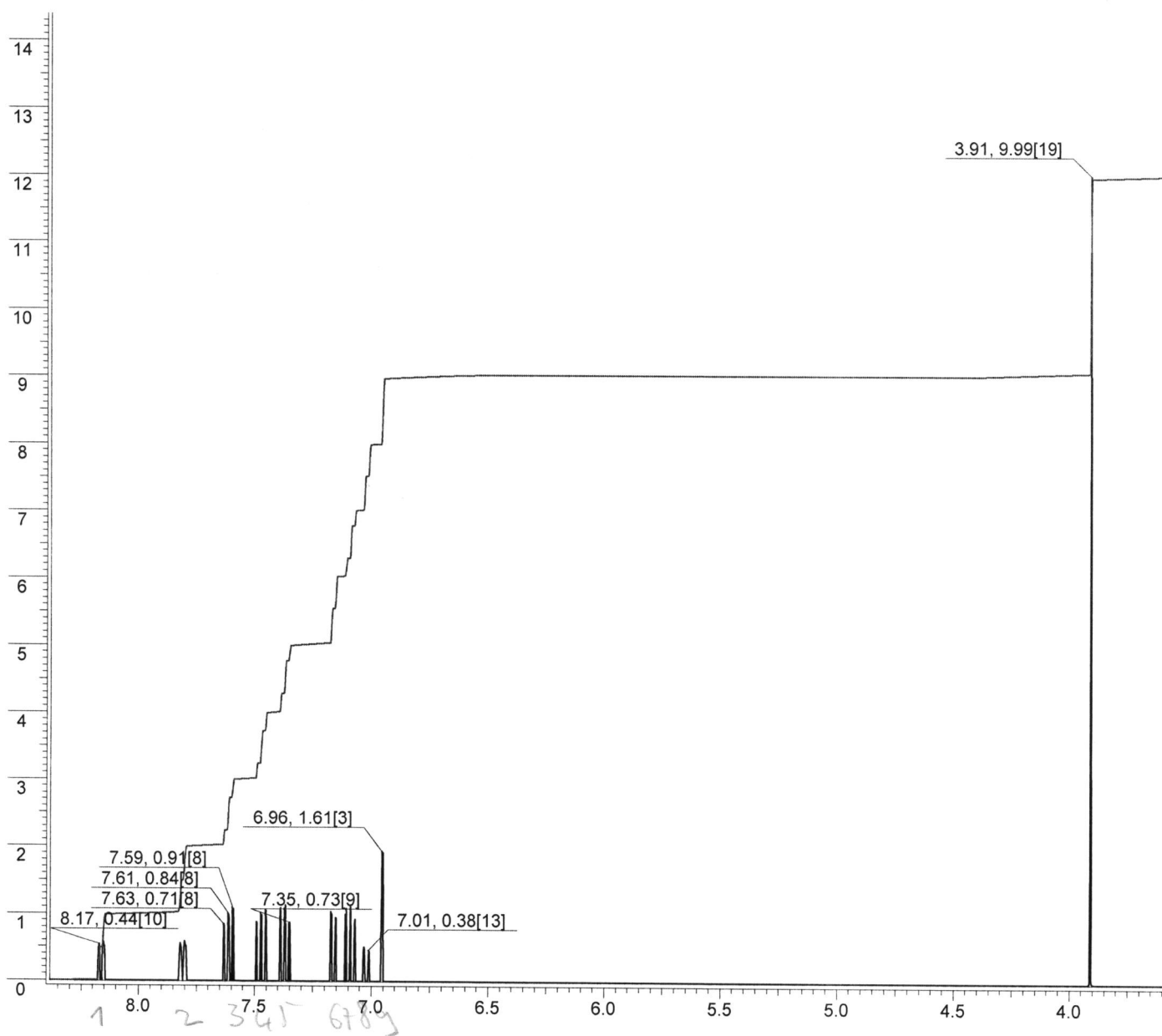


File Name \\nas1-ipb\nwc_ed\bweigel\Eigene
Dateien\Projekte\Flavonoids\Primula\2'-methoxy-flavone_CDCL3.HSP (modified on
24 APR 2012)

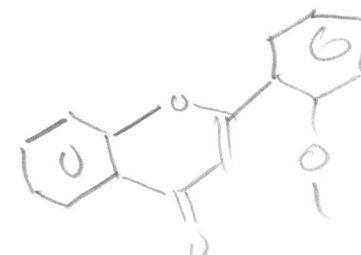


Group	nH	Shift	Conf. Limits	Av.Exp	Neural Net
3	1	6.95	0.33	6.97..7.35	6.72
7	1	7.16	0.41	6.88..7.42	7.49
8	1	7.61	0.41	7.52..7.67	7.60
9	1	7.37	0.41	7.34..7.40	7.34
10	1	8.16	0.41	8.16	8.14
13	1	7.02	0.41	7.02	7.02
14	1	7.47	0.41	7.47	7.38
15	1	7.09	0.41	7.09	7.15
16	1	7.81	0.41	7.83	7.81
19	3	3.91	0.28	3.91	3.74



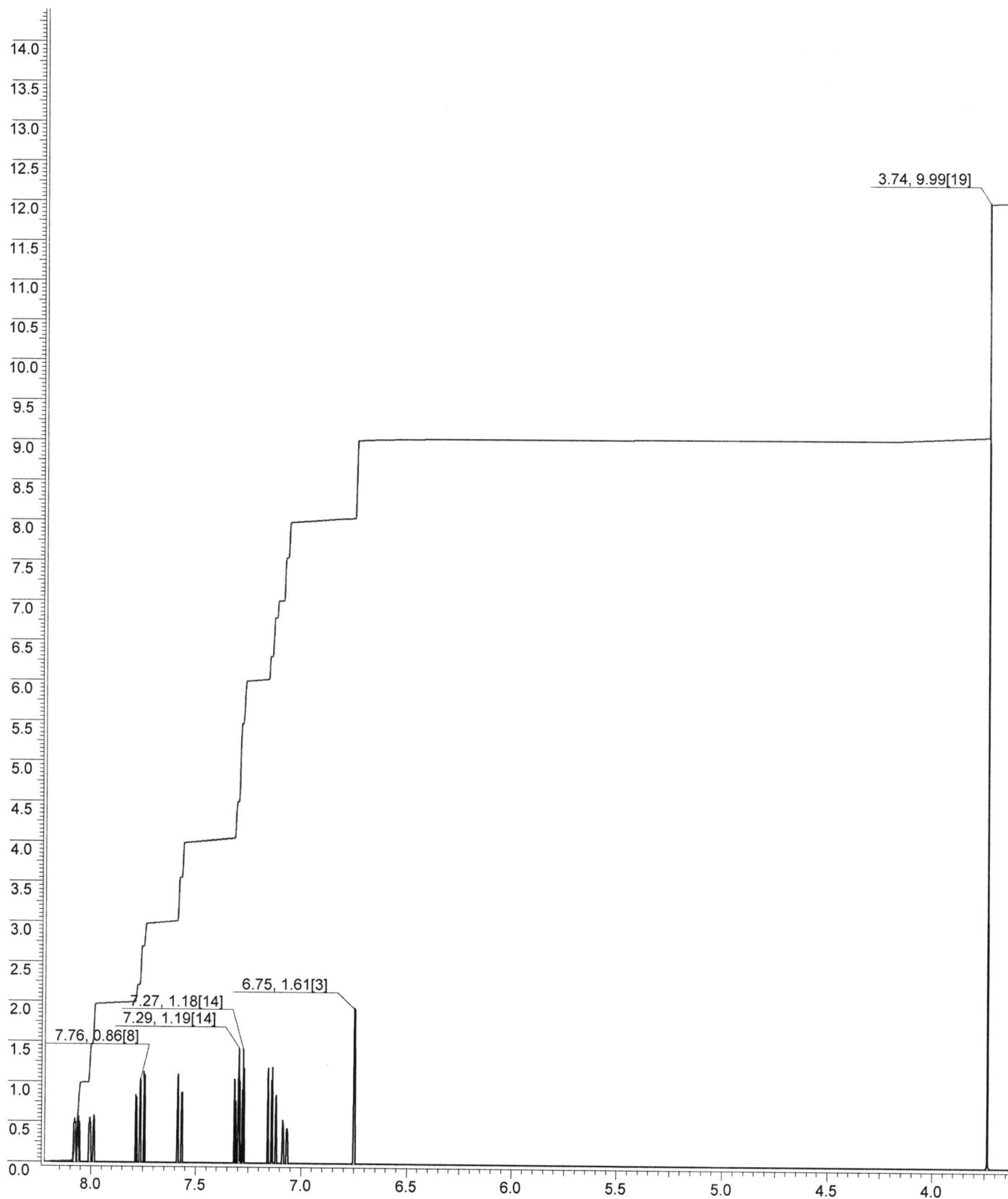
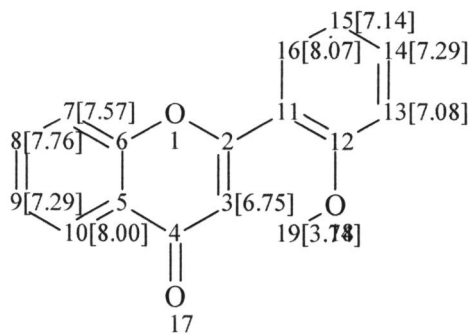
WEB100_A.esp

VerticalScaleFactor = 1



No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height	No.	(ppm)	(Hz)	Height
1	3.94	1577.4	1.0000	9	7.14	2855.2	0.0541	17	7.48	2989.5	0.0491	25	7.67	3066.4	0.0592	33	7.92	3168.4	0.0795
2	7.04	2817.3	0.0831	10	7.16	2862.2	0.2519	18	7.49	2995.0	0.0531	26	7.68	3071.9	0.0566	34	7.93	3170.3	0.0724
3	7.07	2825.9	0.0930	11	7.39	2955.9	0.0439	19	7.49	2996.5	0.0631	27	7.69	3073.5	0.0824	35	8.23	3291.0	0.0673
4	7.10	2839.2	0.0487	12	7.39	2957.1	0.0465	20	7.50	2997.7	0.0576	28	7.69	3075.0	0.0533	36	8.23	3292.6	0.0690
5	7.10	2839.9	0.0453	13	7.41	2964.1	0.0917	21	7.51	3003.2	0.0402	29	7.70	3080.5	0.0399	37	8.25	3298.8	0.0653
6	7.12	2847.0	0.0877	14	7.43	2971.2	0.0512	22	7.51	3005.1	0.0458	30	7.71	3082.1	0.0419	38	8.25	3300.4	0.0656
7	7.12	2847.7	0.0854	15	7.43	2971.9	0.0535	23	7.55	3018.4	0.1726	31	7.90	3160.6	0.0807				
8	7.14	2854.4	0.0573	16	7.47	2987.6	0.0491	24	7.66	3064.9	0.0580	32	7.91	3162.1	0.0762				

File Name \\nas1-ipb\nwc_ed\bweigel\Eigene
Dateien\Projekte\Flavonoids\Primula2'-methoxy-flavone.HSP (modified on 24 APR
2012)



WEB100_A/CDC13/1H
Weigel 118/12
Thu Apr 26 17:55 2012
duration: 0h 2min

exp1 PROTON

SAMPLE lp 0
date Apr 26 2012 nm cdc ph
samplename WEB100_A
sample WEB100_A
solvent cdc13
file /home/vnmr1/n-
wnwc/WEB100_A/WEB-
100_A.PROTON_01.fi-
d

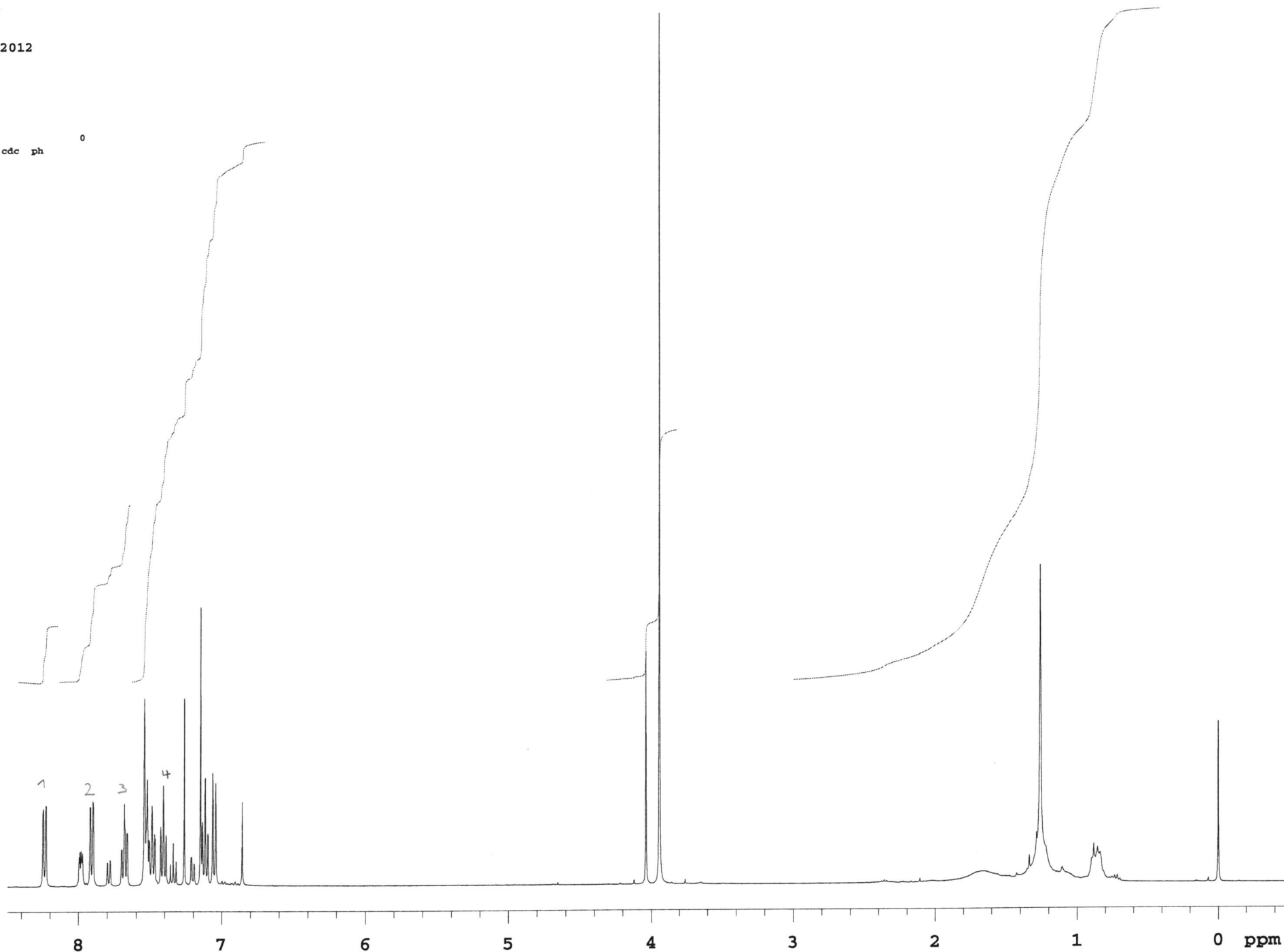
ACQUISITION
instrum g400
probe_ glnmr
seqfil s2pul
sfrq 399.815
tn H1
at 2.281
np 32768
sw 7183.9
bs 4
tpwr 61
pw 2.1
d1 0.719
d2 0
tof 799.6
nt 40
ct 40
alock n
gain 44

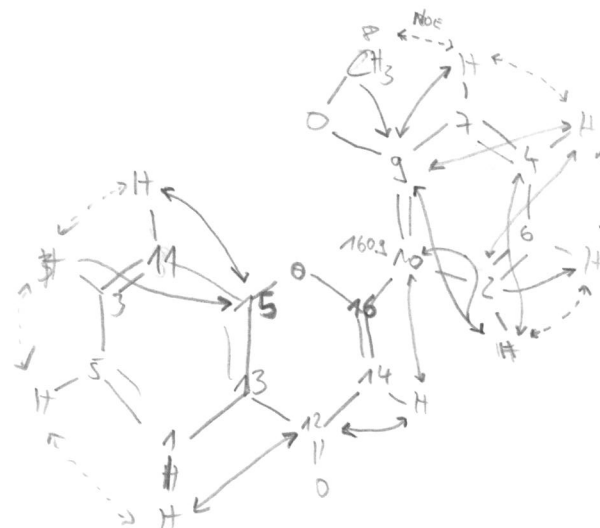
FLAGS
il n
in n
dp y

DEC. & VT
dn C13
dfrq 100.542
homo n
dpwr 36
dof 0
dm nnn
dmm c
dmf 29412
pplvl 55
pp 15.0
temp 25.0

PROCESSING
lb 0.40
wtfile
proc ft
fn 32768

DISPLAY
sp -199.9
wp 3598.1
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wc 250
hzmm 14.39
is 1500.00
rf1 791.9
rfp 0
th 7.0
ins 100.000
rp 82.5

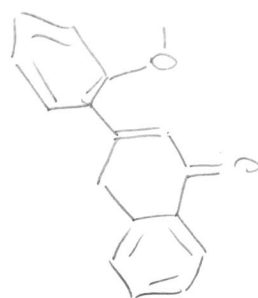




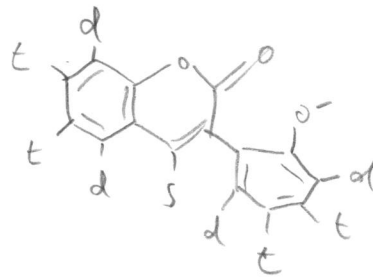
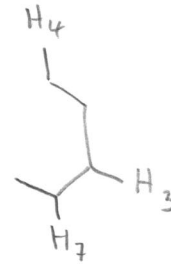
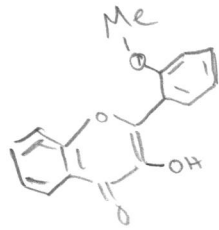
4 ↔ 9

7.15 / 112.6

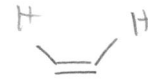
8



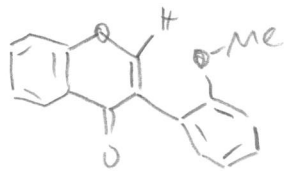
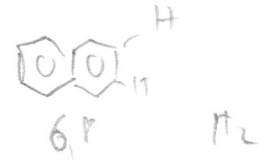
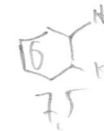
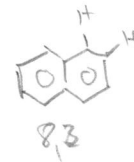
$3 \leftrightarrow 7$ (8,59 Hz)
 $3 \leftrightarrow 4$ (1,85 Hz)



3,5 ortho 0-20 Hz



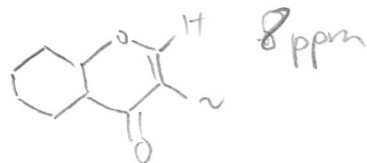
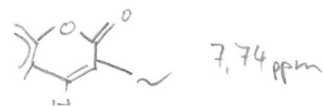
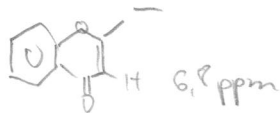
$3J = 11,6$



4) meta-Koppel.
 5) para-Koppel.

$\sim 0-3 \text{ Hz}$

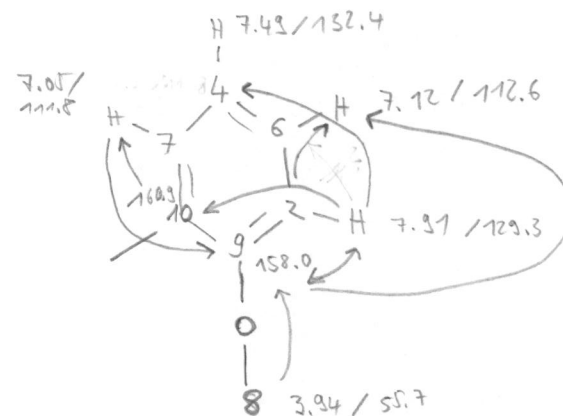
$\sim 0-2 \text{ Hz}$



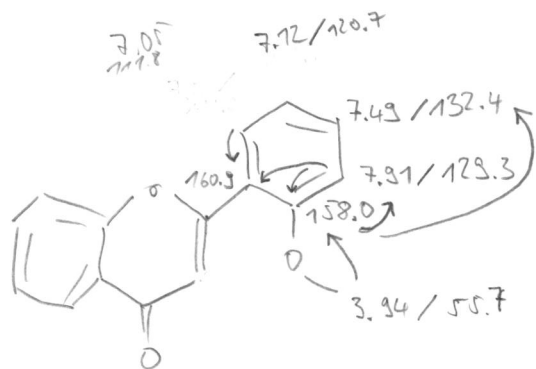
HMBC

$8^{(CH)} \rightarrow 9^{(C)} (158.0 \text{ ppm})$
 $9^{(C)} \rightarrow 2^{(CH)}, 6^{(CH)}$
 $2^{(CH)} \rightarrow 3^{(C)}, 10^{(C)} (160.9 \text{ ppm}), 4^{(C)}$
 $1^H \rightarrow [178.9] 12^{(C)}$
 $(12^C \rightarrow 7.15^{(H)}) (S)$
 $12^C \rightarrow 7.54^{(H)} 11$
 $13^C \rightarrow 5^H$
 $5^H \rightarrow 13^C 123.8 \text{ ppm}$

$2 \rightarrow 6$
 $6 \rightarrow 7, 2$
 $(10 \rightarrow 7.15?)$
 $10 \rightarrow 2, 7$



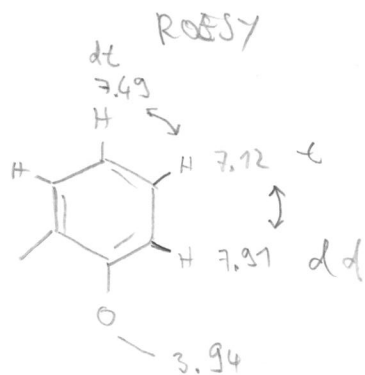
ROESY
 $H_8 \leftrightarrow H_7$. . .



7.15 / 112.6

1	8.24	d	125.6
2	7.91	d	129.3
3	7.68	t	133.5
4	7.49	t	132.4
5	7.41	t	124.9
6	7.12	t	120.7
7	7.05	d	111.8
8	3.94	s	55.7

9	158 ppm
10	160.3 ppm
11	7.54/129.0 ppm (Carbonyl) the HMBC signals
12	178.9
13	118.0/7.54
14	7.15/112.6



3.94 \leftrightarrow 7.05 (d)

7.05 \rightarrow 7.49 (t)

COSY

1 \rightarrow 5
(1 \rightarrow 3 Geht nicht)
2 \leftrightarrow 6
3 \leftrightarrow 5 (x) \rightarrow 11
4 \leftrightarrow 7, 6 ; 2 (Schwach)
5 \leftrightarrow 3, 1
6 \leftrightarrow 4, 2
7 \leftrightarrow 4

ROESY

8 \leftrightarrow 7
2 \leftrightarrow 6
1 \leftrightarrow 5
3 \leftrightarrow 11
3 \leftrightarrow 5

C₁₆H₁₀O₃