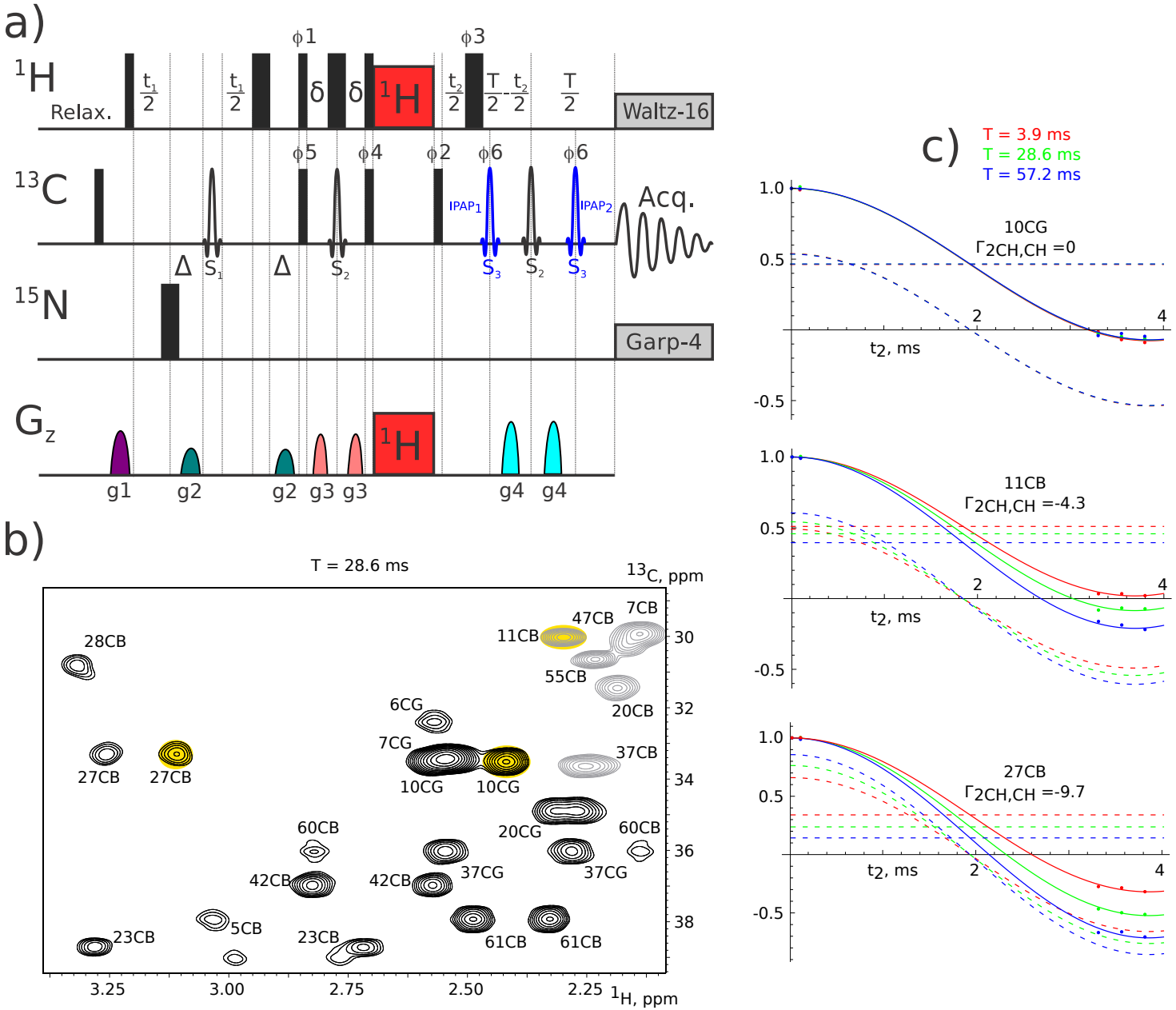
a)
^{1}H
Relax.
$\frac{t_1}{2}$
$\frac{t_1}{2}$
ϕ1
δ
δ
^{1}H
$\frac{t_2}{2}$
ϕ3
$\frac{T}{2}$
$\frac{t_2}{2}$
$\frac{T}{2}$
Waltz-16
^{13}C
ϕ5
ϕ4
ϕ2
ϕ6
ϕ6
IPAP$_1$
IPAP$_2$
Acq.
Δ
S$_1$
Δ
S$_2$
S$_3$
S$_2$
S$_3$
^{15}N
Garp-4
G$_z$
^{1}H
g1
g2
g2
g3
g3
g4
g4
b)
T = 28.6 ms
^{13}C, ppm
28CB
47CB
7CB
11CB
55CB
20CB
6CG
7CG
37CB
27CB
27CB
10CG
10CG
20CG
60CB
60CB
37CG
37CG
42CB
42CB
5CB
23CB
23CB
61CB
61CB
30
32
34
36
38
3.25
3.00
2.75
2.50
2.25
^{1}H, ppm
c)
T = 3.9 ms
T = 28.6 ms
T = 57.2 ms
10CG
Γ$_{2CH,CH}$ =0
11CB
Γ$_{2CH,CH}$ =-4.3
27CB
Γ$_{2CH,CH}$ =-9.7
1.0
0.5
-0.5
2
4
t$_2$, ms