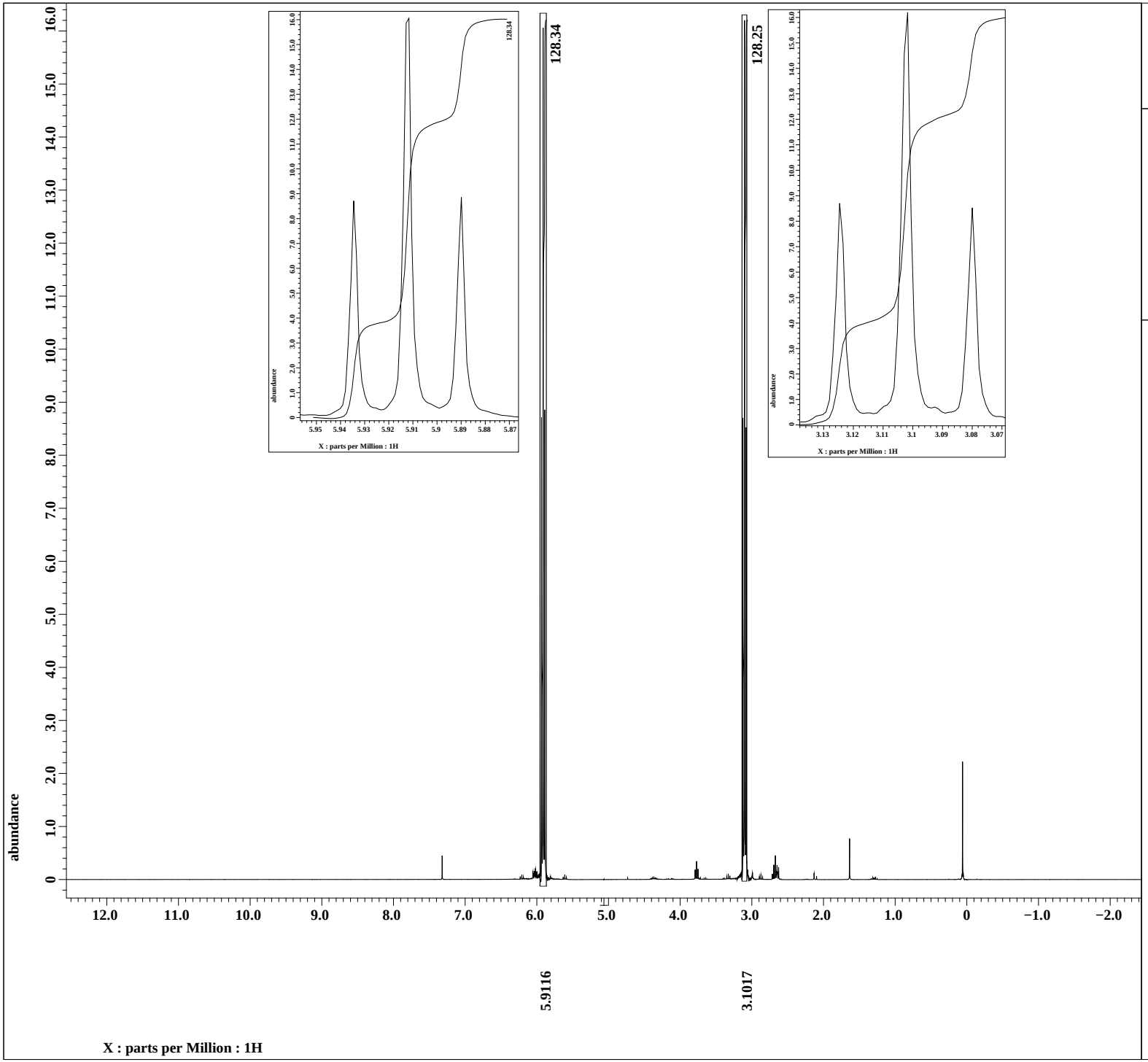
# Description of the Supplementary File

Figure 1 $^{1}H$ NMR of 1,1,3,3-tetrachloropropane

Figure 2 $^{13}C$ NMR of 1,1,3,3-tetrachloropropane




```
---- PROCESSING PARAMETERS ----
dc_balance : 0 : FALSE
sexp : 0.2[Hz] : 0.0[s]
trapezoid3 : 0[%] : 80[%] : 100[%]
zerofill : 1
fft : 1 : TRUE : TRUE
ppm
phase : 119.75 : 7 : 44.25879[%]

Derived from: 2013-7-12distillation-4.jd
```

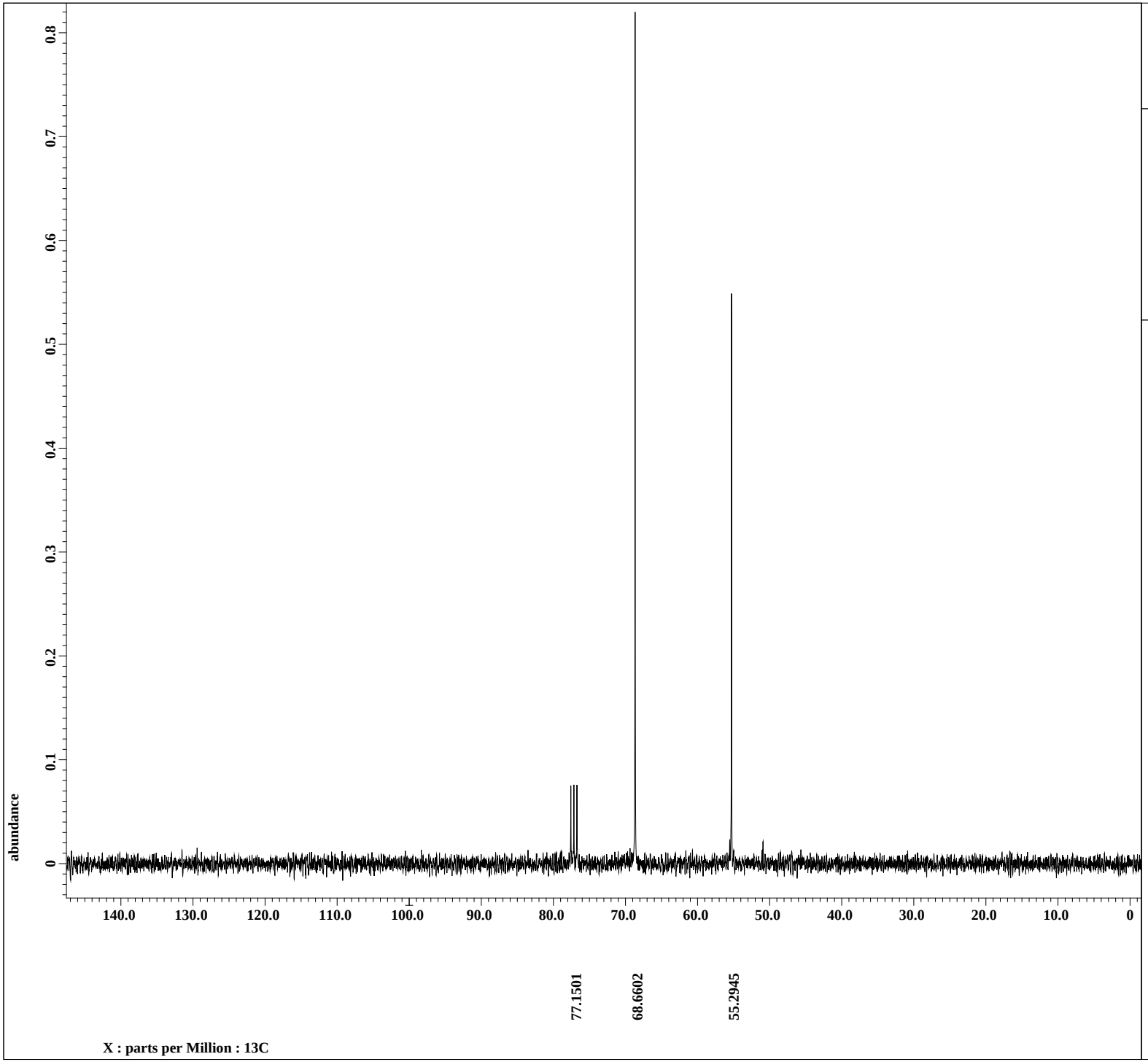
```
Filename          = 2013-7-12distillation
Author            = delta
Experiment        = single_pulse.ex2
Sample_id         = S#526198
Solvent           = CHLOROFORM-D
Creation_time     = 12-JUL-2013 14:45:52
Revision_time     = 15-JUL-2013 16:20:04
Current_time      = 15-JUL-2013 16:20:27

Comment           = 1H
Data_format       = 1D COMPLEX
Dim_size          = 13107
Dim_title         = 1H
Dim_units         = [ppm]
Dimensions        = X
Site              = ECA300
Spectrometer      = DELTA2_NMR

Field_strength    = 7.0586013[T] (300[MHz
X_acq_duration    = 2.90717696[s]
X_domain          = 1H
X_freq            = 300.52965592[MHz]
X_offset          = 5[ppm]
X_points          = 16384
X_prescans        = 1
X_resolution      = 0.34397631[Hz]
X_sweep           = 5.63570784[kHz]
Irr_domain        = 1H
Irr_freq          = 300.52965592[MHz]
Irr_offset        = 5[ppm]
Tri_domain        = 1H
Tri_freq          = 300.52965592[MHz]
Tri_offset        = 5[ppm]
Clipped           = FALSE
Mod_return        = 1
Scans             = 4
Total_scans       = 4

X_90_width        = 14.5[us]
X_acq_time        = 2.90717696[s]
X_angle           = 45[deg]
X_atn             = 3[dB]
X_pulse           = 7.25[us]
Irr_mode          = Off
Tri_mode          = Off
Dante_presat      = FALSE
Initial_wait      = 1[s]
Recvr_gain        = 36
Relaxation_delay  = 30[s]
Repetition_time   = 32.90717696[s]
Temp_get          = 21.1[dC]
```

Figure 1 $^{1}$H NMR of 1,1,3,3-tetrachloropropane




```
---- PROCESSING PARAMETERS ----
dc_balance : 0 : FALSE
sexp : 2.0[Hz] : 0.0[s]
trapezoid3 : 0[%] : 80[%] : 100[%]
zerofill : 1
fft : 1 : TRUE : TRUE
machinephase
ppm

Derived from: 2013-7-12distillation-C-5.
```

```
Filename          = 2013-7-12distillation
Author            = delta
Experiment        = single_pulse_irr
Sample_id         = S#539994
Solvent           = CHLOROFORM-D
Creation_time     = 12-JUL-2013 15:31:16
Revision_time     = 12-JUL-2013 15:36:29
Current_time      = 15-JUL-2013 16:07:36

Comment           = single pulse irrtride
Data_format       = 1D COMPLEX
Dim_size          = 26214
Dim_title         = 13C
Dim_units         = [ppm]
Dimensions        = X
Site              = ECA300
Spectrometer      = DELTA2_NMR

Field_strength    = 7.0586013[T] (300[MHz
X_acq_duration    = 1.38412032[s]
X_domain          = 13C
X_freq            = 75.56823426[MHz]
X_offset          = 100[ppm]
X_points          = 32768
X_prescans        = 4
X_resolution      = 0.72248054[Hz]
X_sweep           = 23.67424242[kHz]
Irr_domain        = 1H
Irr_freq          = 300.52965592[MHz]
Irr_offset        = 5[ppm]
Tri_domain        = 19F
Tri_freq          = 282.78036857[MHz]
Tri_offset        = -125[ppm]
Clipped           = TRUE
Mod_return        = 1
Scans             = 500
Total_scans       = 500

X_90_width        = 12.5[us]
X_acq_time        = 1.38412032[s]
X_angle           = 30[deg]
X_atn             = 10.6[dB]
X_pulse           = 4.16666667[us]
Irr_atn_dec       = 23.466[dB]
Irr_atn_noe       = 23.466[dB]
Irr_decoupling    = TRUE
Irr_noe           = TRUE
Irr_noise         = WALTZ
Tri_atn_dec       = 16[dB]
Tri_decoupling    = TRUE
Tri_noe           = FALSE
Tri_noise         = MPF10
Initial_wait      = 1[s]
```

Figure 2 $^{13}$C NMR of 1,1,3,3-tetrachloropropane