

## TRSMEDOR : sulfur compounds analysis (PPB range)

### Analytical conditions :

Carrier gas : Air with a 4 ml/min flow rate

Oven : Column MXT ; 3 + 27 m ; 0.53 mm id

Detector : wet cell – Electrometer ppb

Sample flow : - 100 ml/min

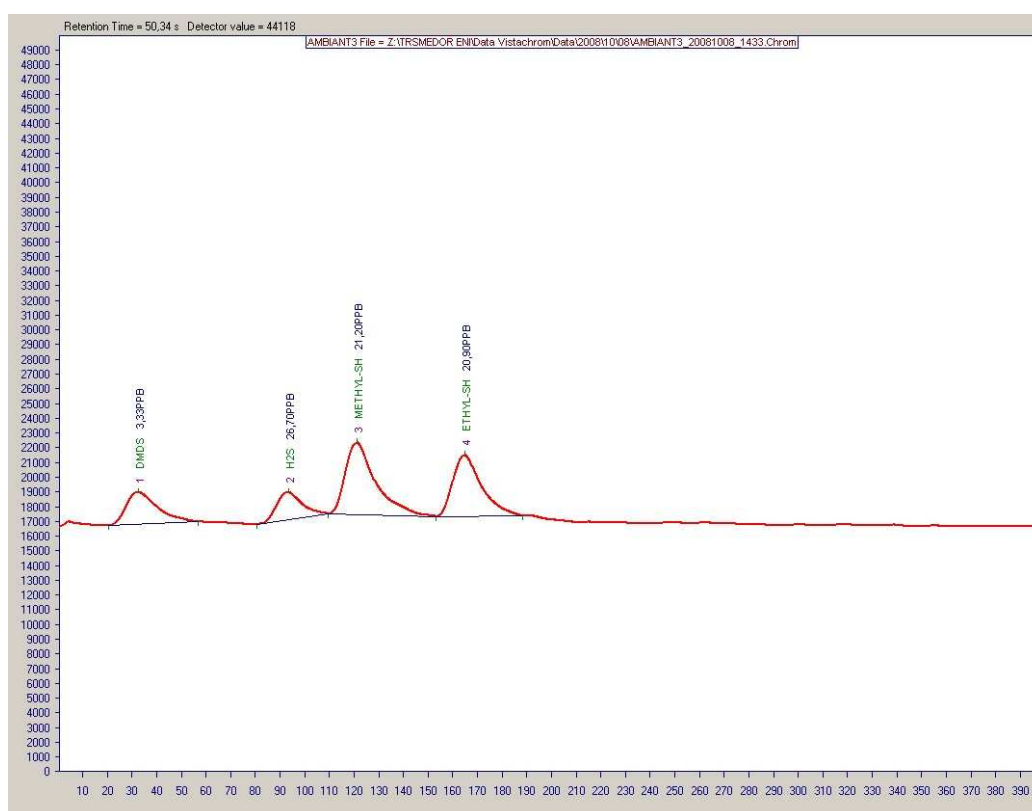
### APPLICATION 1 :

**Column temperature : 40 °C**

Analysis cycle = 600 seconds - Acquisition time : 400 seconds

Loop : 500 µl

Electrometer : amplification = high (3)



| # | Name      | Rt Min | Rt Max | Alarm Min | Alarm Max | Factor | Def | Area off | Stand | fitmode | NoFM |
|---|-----------|--------|--------|-----------|-----------|--------|-----|----------|-------|---------|------|
| 1 | DES       | 3      | 22     | 0         | 9999      | 0.42   | 0   | 0        | 0     | 0       | 1    |
| 2 | DMDS      | 25     | 45     | 0         | 9999      | 0.08   | 0   | 0        | 0     | 0       | 1    |
| 3 | H2S       | 84     | 100    | 0         | 9999      | 0.34   | 0   | 0        | 0     | 2       | 1    |
| 4 | METHYL-SH | 110    | 130    | 0         | 9999      | 0.12   | 0   | 0        | 0     | 2       | 1    |
| 5 | ETHYL-SH  | 155    | 174    | 0         | 9999      | 0.133  | 0   | 0        | 0     | 0       | 1    |
| 6 | DMS       | 174    | 190    | 0         | 9999      | 0.1    | 0   | 0        | 0     | 0       | 1    |
| 7 | MES       | 295    | 325    | 0         | 9999      | 0.255  | 0   | 0        | 0     | 2       | 1    |

Substance: RSH-3 Serial Nr: #4580908

Analyzer type: 0: VOC1010

Warning: for the GC firmware versions below 6.0, "Area offset" should be set to zero

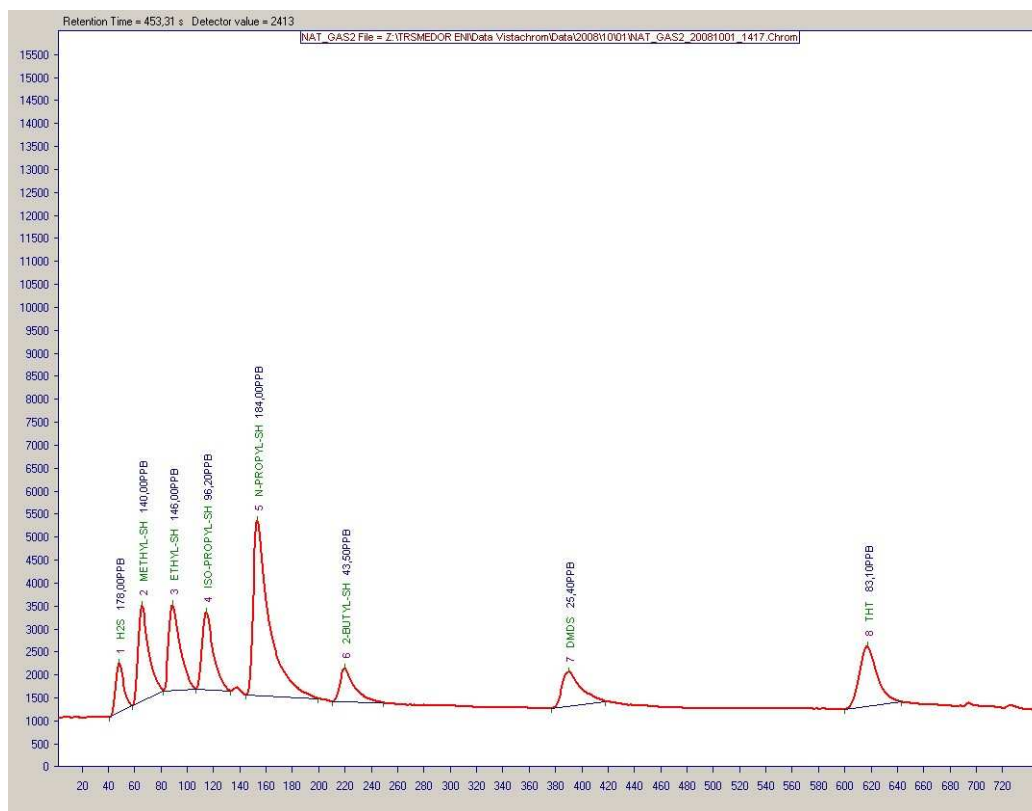
fit mode value:  
 With Standard = 0.4 C  
 0 : select middle peak  
 1 : sum all peaks  
 2 : select max peak  
 With Standard = C  
 3 : Auto-Calibration type 1  
 4 : Auto-Calibration type 2

Substance: All Retention Times

X Cancel Save

**APPLICATION 2 :****Column temperature 65 °C**Analysis cycle = 1200 seconds

- Acquisition time : 900 seconds

Loop : 250 µlElectrometer : amplification = middle (2)

**Substance Table**

Substance Table Information

Name: NAT\_GAS2 Serial Nr: #4580908

Author:

Analyzer type: 0: VOC1010

fit mode value:

With Standard = 0. 4.C

0: select middle peak

1: sum all peaks

2: select max peak

With Standard = C

3: Auto-Calibration type 1

4: Auto-Calibration type 2

Warning: for the GC firmware versions below 6.0, "Area offset" should be set to zero

| #  | Name          | Rt Min | Rt Max | Alarm Min | Alarm Max | Factor | Def | Area off | Stand | fitmode | NotM |
|----|---------------|--------|--------|-----------|-----------|--------|-----|----------|-------|---------|------|
| 1  | H2S           | 40     | 55     | 0         | 9999      | 2,45   | 0   | 0        | 0     | 2       | 1    |
| 2  | METHYL-SH     | 58     | 72     | 0         | 9999      | 1,06   | 0   | 0        | 0     | 2       | 1    |
| 3  | ETHYL-SH      | 82     | 100    | 0         | 9999      | 1,52   | 0   | 0        | 0     | 0       | 1    |
| 4  | ISO-PROPYL-SH | 105    | 120    | 0         | 9999      | 1,34   | 0   | 0        | 0     | 0       | 1    |
| 5  | TBM           | 130    | 145    | 0         | 9999      | 1,5    | 0   | 0        | 0     | 2       | 1    |
| 6  | N-PROPYL-SH   | 147    | 165    | 0         | 9999      | 0,8    | 0   | 0        | 0     | 2       | 1    |
| 7  | 2-BUTYL-SH    | 205    | 235    | 0         | 9999      | 1,3    | 0   | 0        | 0     | 2       | 1    |
| 8  | DES           | 260    | 290    | 0         | 9999      | 4,2    | 0   | 0        | 0     | 2       | 1    |
| 9  | DMDS          | 380    | 410    | 0         | 9999      | 0,6    | 0   | 0        | 0     | 2       | 1    |
| 10 | THT           | 600    | 640    | 0         | 9999      | 1,1    | 0   | 0        | 0     | 2       | 1    |

Substance

All Retention Times

Cancel Save

**Remark :** The Base Sensitivity of the analyser is calculated with the middle (2) amplification of the electrometer. In standard, we use a calibration by permeation tube for trsMEDOR.

The calibration in amplification 2 is realized from DMS at 90 ppb.