Agilent Technologies

Certificate of Analysis

SULFUR CHEMILUMINESCENCE TEST SAMPLE

Agilent Part Number: **G2933-85001** **Sample Lot Number:** **LRAD2138**
Storage Condition: **Refrigerate**

This is a test mix for Sulfur Chemiluminescence Detectors (SCD).

Below is a list of the purity and/or grade of the components that are included in the mix.

Neat Material		**Neat material Purity and/or Grade**
Dimethylsulfide (CAS NO.: 75-18-3)		minimum purity 99.5% GC
Ethyl methyl sulfide (CAS NO.: 624-89-5)		minimum purity 99.0% GC
Thiophene (CAS NO.: 110-02-1)		minimum purity 99.0% GC
Solvent Composition:		
Toluene (CAS NO.: 108-88-3)	100%	HPLC Grade

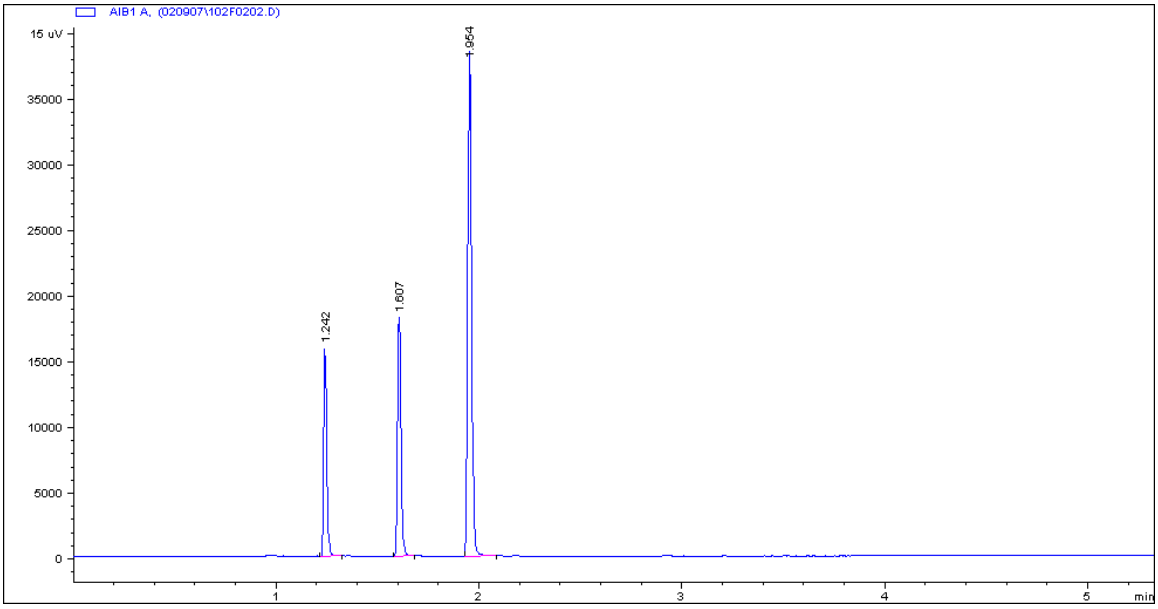
Traceability:

These standards have been produced gravimetrically (weight to volume) using ISO9001 quality procedures. Balances used are calibrated regularly and meet the requirements of ISO. Concentration of analytes in solution is ug/ml +/- 0.5%, uncertainty based upon balance and Class A volumetric glassware.

Analytical concentration is +/- 10.0% of the stated concentration.

Component	Weight Concentration (mg/L)
Dimethylsulfide	11.36
Ethyl methyl sulfide	19.04
Thiophene	48.80

Analytical Spectrum :



Operating Parameters:

Model 355 SCD operated according to standard conditions (attenuation = 1);
Agilent Model 6890N GC;
Column : 30m x 0.32mm x 1.0um DB-1
Oven: 65 ºC for 1 minute; 15 ºC/min to 130ºC
12 psi head-pressure
1 uL injection size, split 1:50

Date of Manufacture: 09 MAR 2022
Date of Expiration: 09 MAR 2023