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SULFUR ANALYSIS

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Единый адрес для всех регионов: drs@nt-rt.ru || www.danimaster.nt-rt.ru

SULFUR ANALYSIS

> *Time is Money.*
>
> Benjamin Franklin

Time is always a key factor in today's laboratories productivity.

Master your Time with the DANI Gas Analyzers.

The ability to provide the proper configuration to meet the most challenging analytical demands comes from a long and proven experience and a deep industry knowledge. As requirements are constantly changing, even a highly reliable instrumentation could not be enough to succeed in getting trustworthy results: complete and guaranteed solutions are essential to comply with the latest industry standards and specifications.
After a long working relationship with its customers to know and to best match their real needs, DANI Instruments has developed key analytical solutions that cover a broad array of applications, requirements and protocols in the environmental industry.
Master DANI Air Analyzers are **PRE-CONFIGURED, PRE-ASSEMBLED AND FACTORY-TESTED SYSTEMS** specifically designed for peculiar analyses. The analyzers include the **HARDWARE**, the **SOFTWARE**, **COLUMNS AND CONSUMABLES**, the **OPTIMIZED ANALYSIS METHOD**, the **ANALYTICAL CONDITIONS**, and the **DOCUMENTATION** to run up your analysis from day one.

PRE-CONFIGURED, PRE-ASSEMBLED AND FACTORY-TESTED SYSTEMS

The installation process is faster than ever before and all the startup procedure is oversimplified ensuring immediate analytical performance and results.

HARDWARE AND SOFTWARE

DAA Analyzers are pre-engineered systems based on the versatility, flexibility and robustness of the proven Master GC hardware. All the Master GC parameters are set prior the shipment.

COLUMNS AND CONSUMABLES

No more doubts about the proper column, parts and supplies. DAA Analyzers are delivered with all you may need for your analysis.*

OPTIMIZED ANALYSIS METHOD

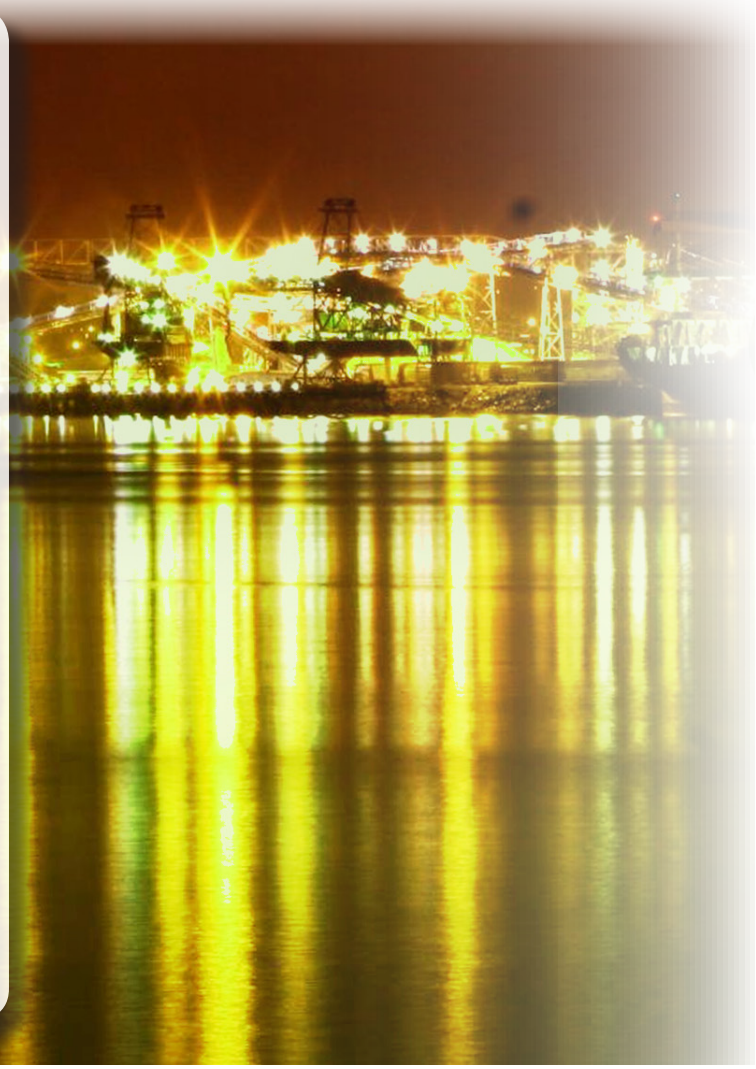
Analytical methods are pre-loaded to be immediately used for the determination of pollutants in air. Whenever possible, reduction of analysis time and amounts of toxic solvents are considered. Method development time and costs are thus dramatically reduced.

ANALYTICAL CONDITIONS

DAA Analyzers are designed to perfectly accomplish the analytical conditions of interest.

DOCUMENTATION

A getting started manual, calibration and method files, and all the information for a quick startup are included .



* Chemicals are not supplied

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DANI Master GC

- **Intuitive ad easy-to-use touchscreen interface.**
- **Complete range of injectors:**
  - Split/Splitless Injector
  - Programmable Temperature Vaporizer (PTV)
  - Packed Injector
- **Wide selection of detectors:**
  - Flame Ionization Detector (FID)
  - Electron Capture Detector (ECD)
  - Nitrogen-Phosphorus Detector (NPD)
  - Flame Photometric Detector (FPD)
  - Thermal Conductivity Detector (TCD)
  - Pulse Discharge Detector (PDD)
  - Master TOF-MS Time of Flight Mass Spectrometer
- **Extensive Choice of Dedicated Devices:**
  - Auxiliary ovens
  - Gas sampling and switching valves
  - Liquid sampling valves
  - GC oven cryogenic cooling device
  - Methanizer

DANI Master AUX

Auxiliary Ovens for Isothermal Temperature

- Up to 7 valves (5 gas + 2 liquids)
- Up to 250° C
- Up to 2 auxiliary gas valves
- Up to 6 needle valves
- Extremely compact design
- Two models available with different capacities to house valves and columns for dedicated analyses

DANI Master SHS

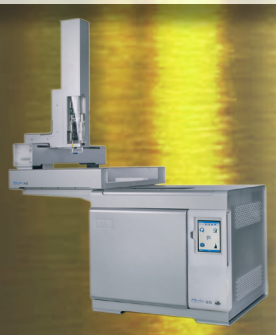
Static Headspace Sampler

- A robust and flexible system to meet complex and versatile needs
- Reliable results and exceptional reproducibility
- Intuitive, powerful, and straightforward user interface
- Highest sample capacity with a 120-position vial tray
- Unlimited priority sample position
- Unmatched oven capacity: 18 vials simultaneously

DANI Master AS

Liquid Autosampler

- Superior flexibility, repeatability, and performance
- Easy-to-use
- 160 samples capacity
- No sample degradation or solvent evaporation
- up to 7 syringe capacity types
- unmatche injection capabilities



SULFUR ANALYSIS

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Configuration	Typical Detected Compounds		Official Methods Met	Sample Type
DGA-006 DANI Gas Analyzer for Sulfur Compounds H_2S, COS, CS2, and Mercaptanes				
Single channel with FPD, one valve, and auxiliary oven.	carbonyl sulfide methanetiol dimethyl sulfide	propyl mercaptan carbon disulfide hydrogen sulfide		Gas
DGA-016 DANI Gas Analyzer for Natural Gas with Permanent Gas and H_2S				
Single channel with µTCD, two valves, capillary columns, auxiliary oven.	hydrogen argon oxygen methane nitrogen	carbon monoxide carbon dioxide dicarbon hydrogen sulfide		
DGA-018 DANI Gas Analyzer for Hydrocarbons and Sulfur Compounds				
	methane ethane n-butane isobutane	n-pentane isopentane C_6+ (hexane and higher hydrocarbons)		
DGA-022 DANI Gas Analyzer for Permanent Gas, Hydrocarbons and H_2S				
Single channel with TCD and FID, packed columns, three valves, and auxiliary oven.	oxygen nitrogen carbon dioxide methane ethane propane	*iso*-butane *iso*-pentane pentane hexane hydrogen sulfide	ASTM 1945 ASTM 1946 GPA 2177	Gas
DGA-025 DANI Gas Analyzer for Permanent Gas, Hydrocarbons, and Sulfur Compounds				
Three channels with µTCD, FID, FPD, micro-packed and capillary columns, two valves, auxiliary oven.	oxygen carbon monoxide nitrogen carbon dioxide methane ethane	propane *n*-butane isobutane *n*-pentane isopentane	ASTM 1945 ASTM 1946 GPA 2177	Gas
DGA-033 DANI Gas Analyzer for Permanent Gas, CO_2, Hydrocarbons, COS, H_2S, CS_2				
Dual channels with FID, µTCD, FPD, three valves, and auxiliary oven.	oxygen nitrogen carbon dioxide carbonyl sulfide hydrogen sulfide carbon disulfide methane	ethane propane *i*-butane *n*-butane *i*-pentane *n*-pentane *n*-hexane		Gas

SULFUR ANALYSIS

DGA-006

DANI Gas Analyzer for Sulfur Compounds H_2S, COS, CS_2, and Mercaptanes

The sulfur compounds analysis is carried out using a split/ splitless (SL/IN) injector, a capillary column and a flame photometric detector (FPD).
Moreover, the gas chromatograph is configured with a 6-port VALCO Hastelloy valve located in an auxiliary oven. The gas sample is introduced into the system by the 6-port sampling valve equipped with 3 mL sample loop.

DANI DGA-006 is the ready-to-go solution to attain the maximum performance in the shortest time for your analysis of Permanent Gas, H_2 and Hydrocarbons.

Master DGA-006

SAMPLE TYPE:

Gas

TYPICAL DETECTED COMPOUNDS:

COS, CH_4S, C_2H_6S, C_3H_8S, CS_2, H_2S;

KEY FEATURES & BENEFITS:

The 6-port valve enables the system to introduce the sample into the FPD channel equipped with a capillary column GASPRO (30 m length, 0.32 mm internal diameter).

The valve system configuration and their default positions of switching are factory set up. The user can visualize their default position through the gas chromatograph's touch screen device; press "Menu", then "Aux/Events", then "Events"l;

In order to perform sulfur compounds analysis the system is equipped with a split/ splitless injector, a capillary column and an FPD. The 6-port valve, equipped with a 3 mL sample loop, enables the introduction of the sample into the GASPRO (30 m length, 0.32 mm ID).

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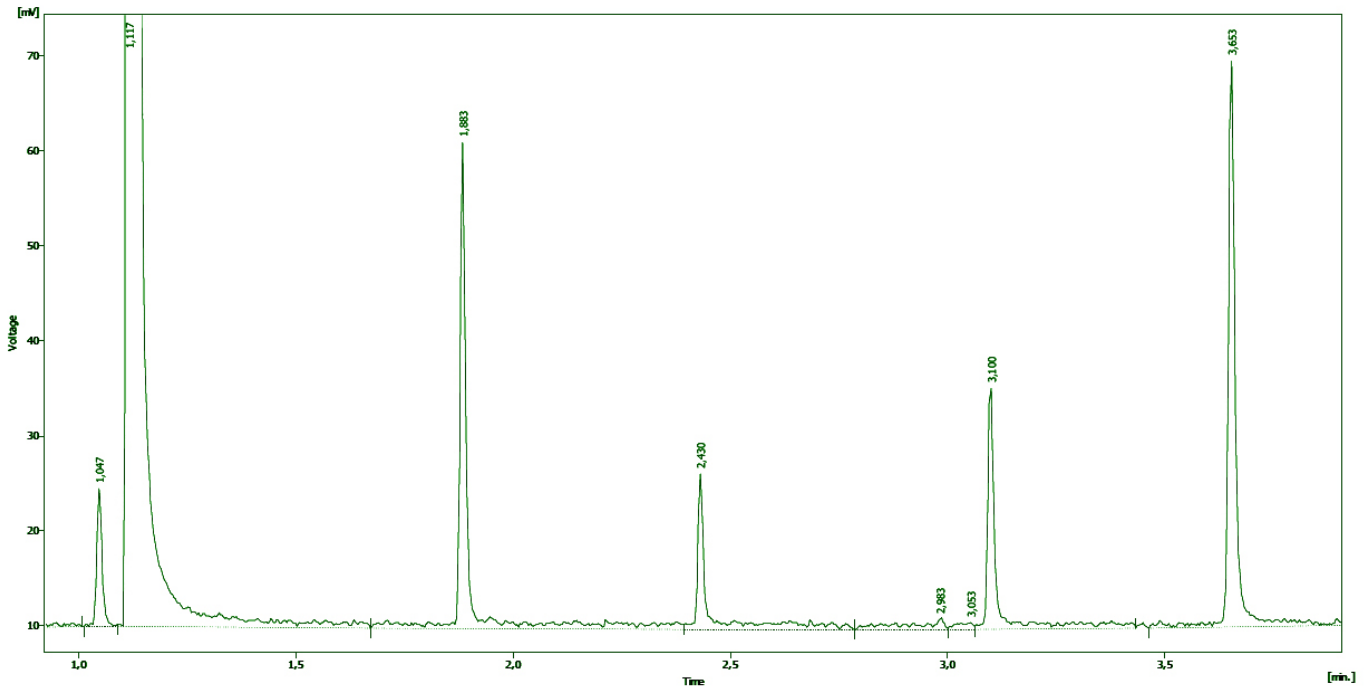
DGA 006



Gas chromatographic profile of the sulphur compounds sample. Peaks correspond to: COS, H2S, CS2, methyl mercaptan, ethyl mercaptan, propyl mercaptan.

EXPERIMENTAL PARAMETERS	
Master GC Analyzer	
Columns	**GASPRO** (30m lelngth, 0.32 mm ID)
GC Oven	
Temperature	50° to 250°C at 50°C/min
Injector B: SL/IN	
Temperature	250°C
Carrier Gas	Helium
Control Mode	Constant Flow
Flow	10 mL/min
Split Mode and Ratio	Split 1:10
SPlit Purge	5 mL/min
Column Outlet	ambient
Detector A : FPD	
Temperature	230°C
Auxiliary Gas Type	Nitrogen
Aux Flow	20 mL/min
H_2 Flow	215 mL/min
Air Flow	5 mL/min
Air 2 Flow	180 mL/min
Range	1
Min Half-Peak Width	1s
Digital Acquisition Rate	10 Hz
PMP Control	ON
PMP Voltage	0.8 kV
Auxiliary Temperature	
Aux Temp 1 (°C) FPD Head Temp	130°C
Aux Temp 2 (°C) - Aux Oven Temp	50°C

SULFUR ANALYSIS

DGA-016

Sulfur Analyzer for NGA for Permanent Gas and H_2S

The DGA-016 analyzer enables the analysis of permanent gases and other compounds which is performed usiong a split/split-less injector (SL/IN), capillary columns and a micro thermal condictivity detector (µTCD).
The GC oven is equipped with a cryogenic system that allows oven temperature to go below zero.

DANI DGA-016 is the ready-to-go solution to attain the maximum performance in the shortest time for your analysis of Permanent Gaas, and H_2S.

Master DGA-016

SAMPLE TYPE:

Gas

TYPICAL DETECTED COMPOUNDS:

H_2, Ar, O_2, CH_4, N_2, CO, CO_2, C_2, H_2S

OFFICIAL METHODS MET:

KEY FEATURES & BENEFITS:

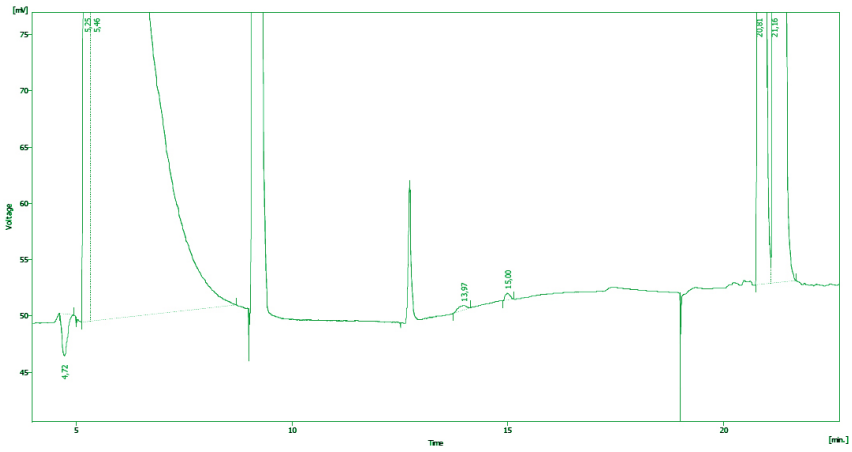
With the DGA-016 Analyzer it is possible to determine H_2, Ar, O_2, CH_4, N_2, CO, CO_2, C_2, and H_2S in a gas mixture and to separate these compounds using a switch valve and a molsieve column;

High sepration power and high retention for permanent gases are guaranteed by the optimized choice of columns;

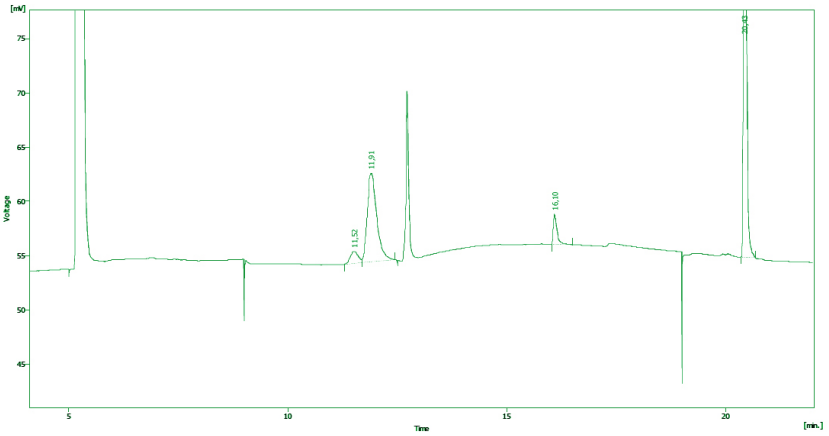
The cryogenic system assures improved resolution and better detection limits;

All the analytical parameters can be controlled by the DDS Clarity™ Chromatography Station Software;

DGA 016



uTCD chromatogram of the Gas standard mixture 1. It is possible to recognize the peaks of H2 , CO2 , C2H4, C2H6 , N2, CO



uTCD chromatogram of the Gas standard mixture 2. It is possible to recognize the peaks of Ar, O2 , H2S, N2

EXPERIMENTAL PARAMETERS FOR PERMANENT GAS AND H_2S DETERMINATION		
Master GC Analyzer		
Columns	Channel A	Poraplot Q (25m, 0.32 mm ID, 30 µm) Molsieve 5A (25m, 0.32 mm ID, 10 µm)
GC Oven		
Temperature	at 12.5 min from 200°C to 36°C at 50°C/min after 1 min from 36°C to 200°C at 20°C/min for 10 min	
Cryo Threshold	32°C	
Injector B: SL/IN		
Temperature	200°C	
Carrier Gas	Helium	
Split Flow	Splitless	
Flow	8 ml/min	
Detector A : µTCD		
Temperature	150°C	
Filament Temperature	210°C	
Signal Zeroing	50mV	
Filament Safety	Injector B	
Auxiliary Temperature		
Aux temp 1 - Aux oven temp	90°C	

SULFUR ANALYSIS

DGA-018
DANI Gas Analyzer for Hydrocarbons and Sulfur Compounds

The analysis with MASTER GC Analyzer is performed using a split/ splitless (SLIN) injector, micro-packed columns and a micro thermal conductivity detector (mTCD) the instrument is equipped also with a FID detector that can be used for the hydrocarbons analysis.
The channel A of the instruments is equipped with a SL/IN injector and an FPD detector that have not been used in this instrument setup.
Moreover, the gas chromatograph is configured with two valves: an internal 10 port valve for gas samples injection and a side-mounted 4-port valve for liquid samples injection.

DANI DGA-018 is the ready-to-go solution to attain the maximum performance in the shortest time for your analysis of Hydrocarbons and Sulfur Compounds

Master DGA-018

SAMPLE TYPE:

TYPICAL DETECTED COMPOUNDS:

CH_4, ethane, propane, *n*-butane, isobutane, *n*-pentane, isopentane and C_6+ (hexane and higher hydrocarbons)

OFFICIAL METHODS MET:

KEY FEATURES & BENEFITS:

Analysis of the hydrocarbons is performed using the channel equipped with mTCD detector. The hydrocarbons gas sample is introduced using the 10-port internal valve and carried to the Hayesep Q column by carrier B.

The gas sample is introduced in the system by the 10-port valve equipped with two 1 ml sample loops.

The external valve gives the possibility to introduce liquid samples in the analytical channel;

All the analytical parameters can be controlled by the DDS Clarity™ Chromatography Station Software;

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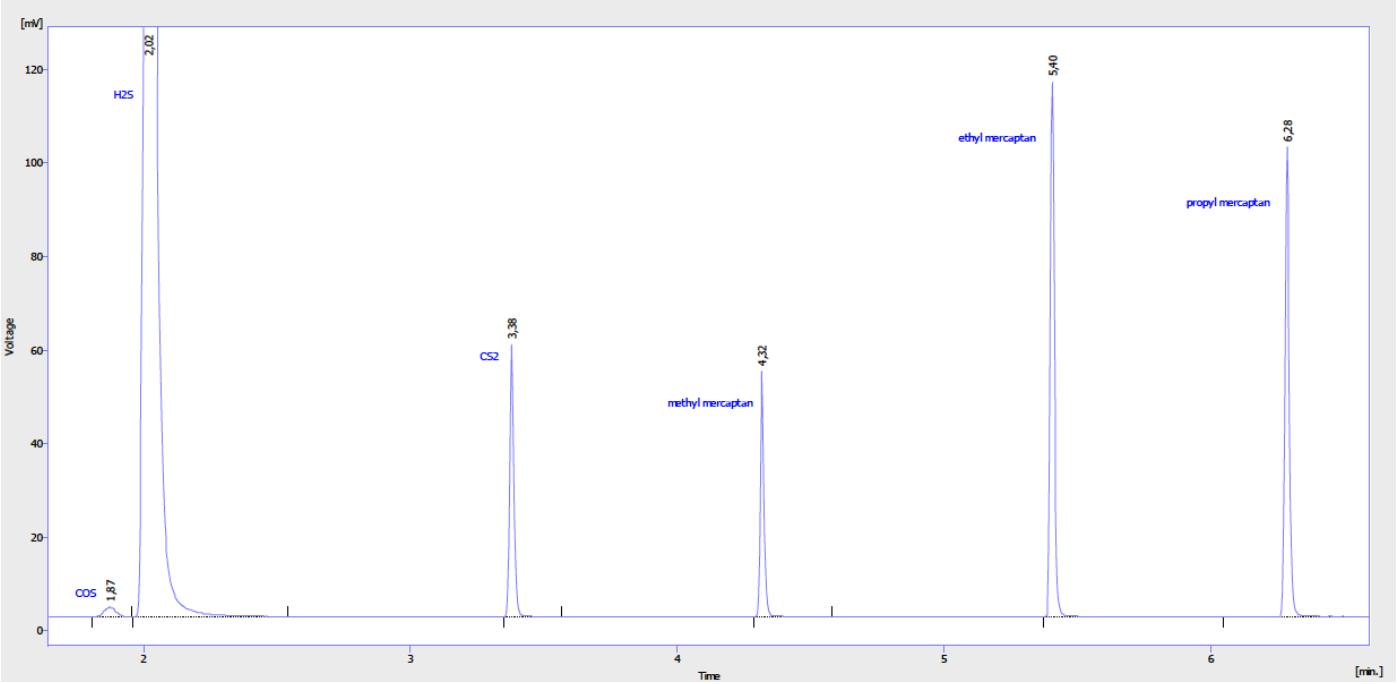
DGA 018



FPD (channel A) chromatogram of the standard gas mixture. It is possible to identify the peaks corresponding to: COS, H2S, CS2 , methyl mercaptan, ethyl mercaptan, propyl mercaptan.

EXPERIMENTAL PARAMETERS		
Master GC Analyzer		
Columns	Channel C	**Hayesep Q** (3m, 1/16", 80/100 mesh)
GC Oven		
Temperature	at 2 min 32°C to 180°C at 30°C/min then to 280 at 20°C for 2 min	
Injector B: SL/IN		
Temperature	250°C	
Carrier Gas	Helium	
Split Ratio	1:2	
Flow	10 ml/min	
Detector A : µTCD		
Temperature	200°C	
Main FIlament Temperature	220°C	
Main Filament Safety	Injector B	
Min. Half-Peak WIdth	1 s	
Digital Acquisition Rate	10 Hz	
Signal Zeroing	50 mV	

SULFUR ANALYSIS

DGA-022

DANI Gas Analyzer for Permanent Gas, Hydrocarbons and H_2S Determination

The analysis is performed using a packed Injector (PK), packed columns, a Thermal Conductivity Detector (TCD) with gold plated filmants and a Flame ionization Detector.

One 10-port valve and two 6-port valves are used for the injection and the sepration of the compounds.

DANI DGA-022 is the ready-to-go solution to attain the maximum performance in the shortest time for your analysis of Permanent Gas, Hydrocarbons and H_2S

Master DGA-022

SAMPLE TYPE:

Gas

TYPICAL DETECTED COMPOUNDS:

O_2, N_2, CO_2, CH_4, ethane, propane, *iso*-butane, *iso*-pentane, pentane, hexane, H_2S;

OFFICIAL METHODS MET:

ASTM 1945, ASTM 1946, GPA 2177

KEY FEATURES & BENEFITS:

The separation of permanent gases and hydrocarbons is made possible by the presence of packed Molsieve column;

The TCD detector responds to all the pure substances that the FID cannot detect while, on the other hand, the FID, because of its sensitivity, it is the solution of choice for the analysis of hydrocarbons. The combination of the two detectors guarantees an accurate a precise detection of all the components;

All the analytical parameters can be controlled by the DDS Clarity™ Chromatography Station Software;

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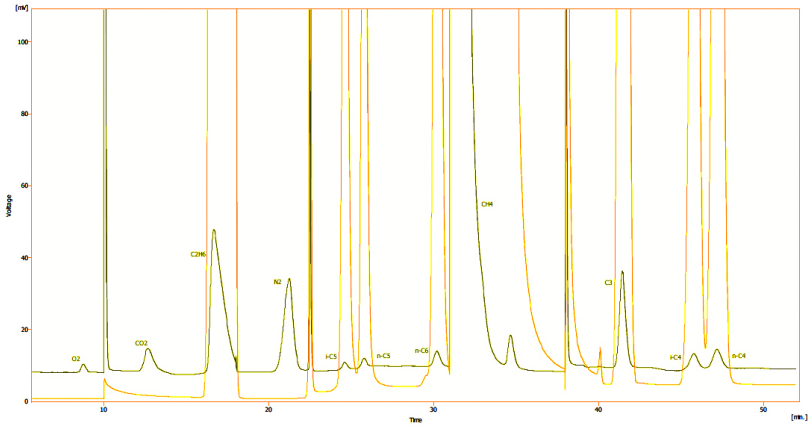
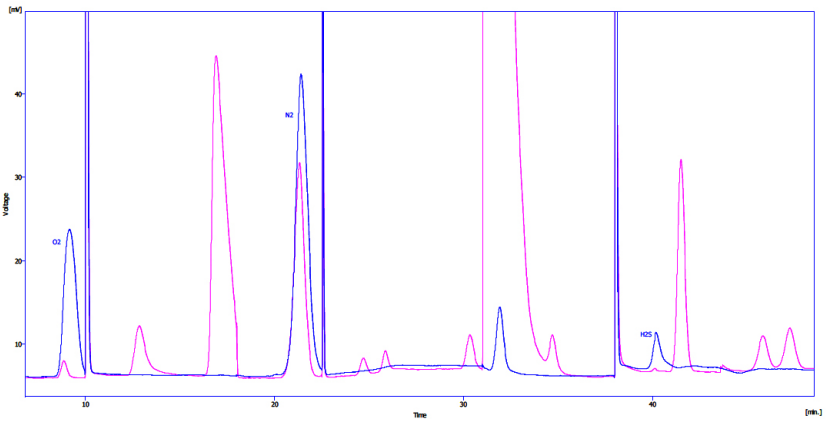
DGA 022



TCD (green) and FID (orange) overlaid chromatograms of the gas standard mixture (C6). Labelled peaks correspond to: O2, CO2, C2H6, N2, i-pentane, n-pentane, hexane, CH4, propane, ibutane, n-butane.



TCD chromatograms of the two gas standard mixtures: C6 (purple) and O2/H2S (blue). Labelled peaks correspond to: O2, N2, H2S.

EXPERIMENTAL PARAMETERS	
Master GC Analyzer	
Columns	**DC 200** (0.3m, 4x3mm (ODxID), 60/80 mesh) **DC200** (5m, 4x3mm (ODxID), 60/80 mesh) **Porapack N** (2m, 4x3m (ODxID), 80/100 mesh) **Molsieve 5A** (2m, 4x3mm (ODxID), 60/80 mesh) **T max oven** : 140°C
GC Oven	
Temperature	40°C (for 20 min) then at 20°C/Min to 140°C (for 27 min)
Injector A: PK	
Temperature	250°C
Carrier Gas	Helium
Max Pressure	2 bar
Flow	20 ml/min
Detector C: FID	
Temperature	320°C
Aux Flow (N_2)	25 ml/min
H_2 Flow	40 ml/min
Air Flow	280 ml/min
Detector A: TCD	
Temperature	200°C
Voltage	6.00 V
Polarity	Negative (-)
Maximum Current	180 mA
Filament Safety	Injector A
Filament Safety Reference	Aux Gas 1
Signal Target	10 mV
Aux Pressure	
Aux 1 Pressure	0.18 bar

SULFUR ANALYSIS

DGA-025

DANI Gas Analyzer for Permanent Gas, Hydrocarbons and Sulfur Compounds

The DGA-025 Analyzer can perform the analysis of permanent Gas, Hydrocarbons and Sulfur Compounds with two Split/Splitless Injectors (SL/IN), micro-packed and capillary columns, a Micro Thermal COnductivity Detector (µTCD) and a Flame Photometric Detector (FPD).
The system is equipped also with a FLame Ionization Detector that can be used for the Hydrocarbons analysis.
One 10-port valve for gas samples injection and one 6-port switch valve are located in the GC auxiliary oven

DANI DGA-025 is the ready-to-go solution to attain the maximum performance in the shortest time for your analysis of Permanent Gas, Hydrocarbons and Sulfur Compounds

Master DGA-025

SAMPLE TYPE:

Gas

TYPICAL DETECTED COMPOUNDS:

O_2, CO, N_2, CO_2, CH_4, ethane, propane, n-butane, isobutane, n-pentane, isopentane

OFFICIAL METHODS MET:

ASTM 1945, ASTM 1946, GPA 2177

KEY FEATURES & BENEFITS:

Analysis of the permanent gas and hydrocarbons is performed using the channel equipped with mTCD and FID detector. The hydrocarbons gas sample is introduced using the 10-port valve and carried to the Hayesep Q and Molesieve columns by carrier C. At the same time the 10-port valve, using carrier B, injects the sample to the second channel equipped with the GasPro capillary column and the FPD detector;

Furthermore it is possible to analyze sulfur compounds using the channel equipped with FPD detector;

All the analytical parameters can be controlled by the DDS Clarity™ Chromatography Station Software;

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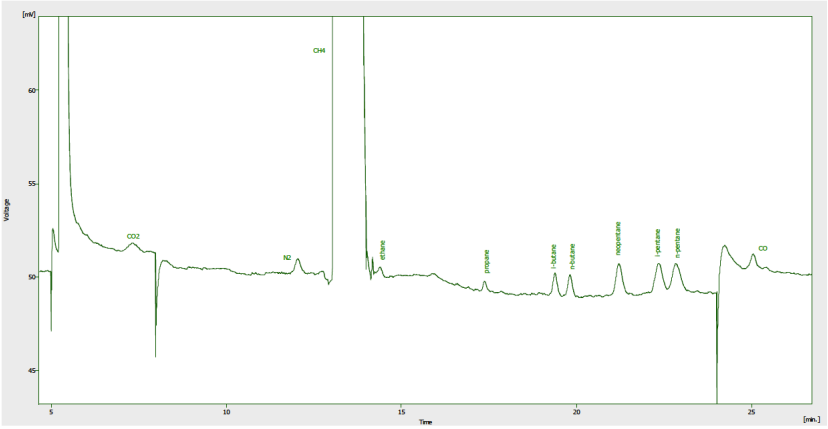
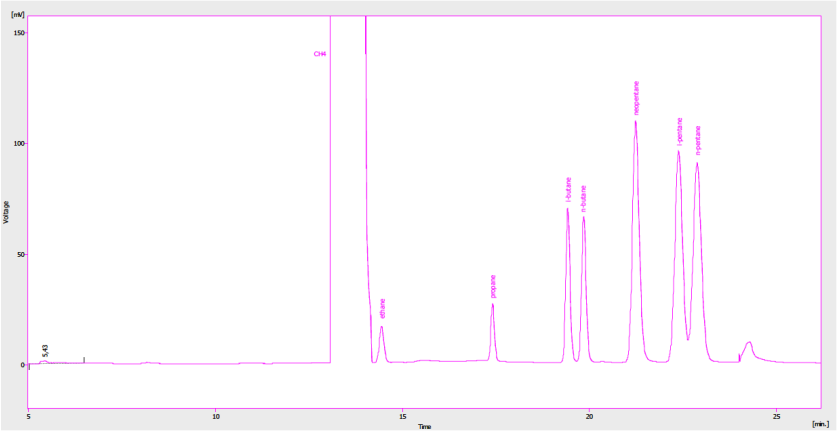
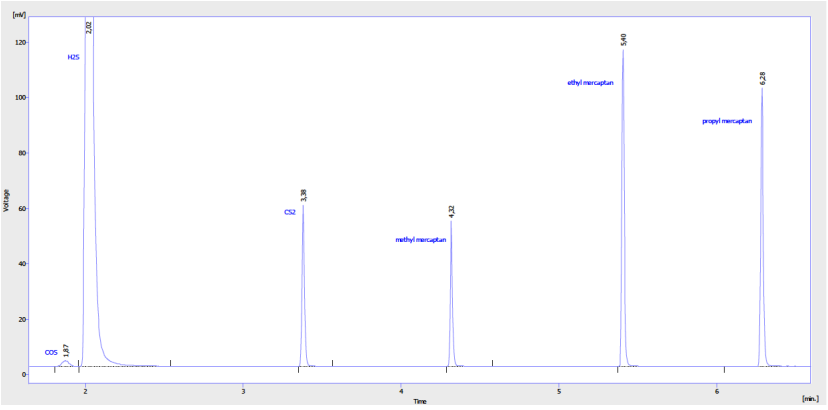
DGA 025



mTCD (channel C) chromatogram of the gas standard mixture (C5).
Peaks correspond to: CO2, N2, CH4, ethane, propane, isobutane, n-butane, isopentane, n-pentane, CO.



FID (channel B) chromatogram of the gas standard mixture (C5).
Peaks correspond to: CH4, ethane, propane, isobutane, n-butane, neopentane, isopentane, npentane.



FPD (channel A) chromatogram of the standard gas mixture. It is possible to identify the peaks corresponding to: COS, H2S, CS2 , methyl mercaptan, ethyl mercaptan, propyl mercaptan.

EXPERIMENTAL PARAMETERS FOR PERMANENT GAS AND HYDROCARBONS ANALYSIS	
Master GC Analyzer	
Columns	**Hayesep Q** (3m, 1mm ID, 1/16" OD, 80/100 mesh) **Molsieve 5A** (3m, 1mm ID, 1/16"OD, 80/100 mesh) **GasPro** (30m, =.32 mm ID) **Tmax** : 250°C
GC Oven	
Temperature	at 10 min 34°C to 200°C at 20°C/min for 15 min
Injector B: SL/IN	
Temperature	200°C
Carrier Gas	Helium
Split Ratio	1:2
Flow	5 ml/min
Injector C: SL/IN	
Temperature	200°C
Carrier Gas	Helium
Split Ratio	1:2
Flow	15 ml/min
Det A: FPD	
Temperature	200°C
Aux Flow	15 ml/min
H2 Flow	200 ml/min
Air Flow	2 ml/min
Air 2 Flow	160 ml/min
Aux Type	Nitrogen
PMP Voltage	0.650 kV
Det B: FID	
Temperature	300°C
Aux Flow	25 ml/min
H_2 Flow	40 ml/min
Air Flow	280 ml/min
Aux Type	Nitrogen

EXPERIMENTAL PARAMETERS FOR SULPHUR COMPOUNDS	
Master GC Analyzer	
Columns	**GasPro** (30m, =0.32 mm ID) **Tmax** : 250°C
GC Oven	
Temperature	40°C to 250°C at 30°C/min for 3 min
Injector B: SL/IN	
Temperature	200°C
Carrier Gas	Helium
Split Ratio	1:2
Flow	5 ml/min
Det A: FPD	
Temperature	250°C
Aux Flow	15 ml/min
H2 Flow	200 ml/min
Air Flow	2 ml/min
Air 2 Flow	160 ml/min
Aux Type	Nitrogen
PMP Voltage	0.650 kV

SULFUR ANALYSIS

DGA-033

Natural Gas Analyzer for Permanent Gas, CO_2, Hydrocarbons, COS, H_2S ans CS_2

This MASTER GC Analyzer enables the analysis of permanent gas, CO_2, COS, H_2S, CS_2 and hydrocarbons up to C_6.
The analysis are performed with two different pathway equipped as follows:
Channel 1 is composed by a PK injector, two types of columns (Plot Q and Molesieve), a micro Thermal Conductivity Detector (µTCD), a Flame Photometric Detector (FPD);
Channel 2 is composed by a SL/IN injector, a Plot Q column and a Flame Ionized Detector (FID).
Moreover, the gas chromatograph is configured with a 10-ports valve for sampling, two 6-ports valves for switching and a 8-ports liquid valve all located in the GC auxiliary oven.

DANI DGA-033 is the ready-to-go solution to attain the maximum performance in the shortest time for your analysis of Permanent Gas, CO_2, Hydrocarbons, COS, H_2S, and CS_2

Master DGA-033

SAMPLE TYPE:

Gas

TYPICAL DETECTED COMPOUNDS:

O_2, N_2, CO_2, COS, H_2S, CS2, methane, ethane, propane, *i*-butane, *n*-butane, *i*-pentane, *n*-pentane, *n*-hexane;

OFFICIAL METHODS MET:

KEY FEATURES & BENEFITS:

Typical components of interest in this type of gas analysis are: O_2 , N_2, CH_4 , CO , COS, H_2S, CS_2 , methane, ethane, propane, i-butane, n-butane, i-pentane, n-pentane and n-hexane.
With this analyzer it is possible to separate and analyze these compounds or part of them.

Higher sensitivity and precision are obtained through the use of the µTCD and FID detectors;

All the analytical parameters can be controlled by the DDS Clarity™ Chromatography Station Software;

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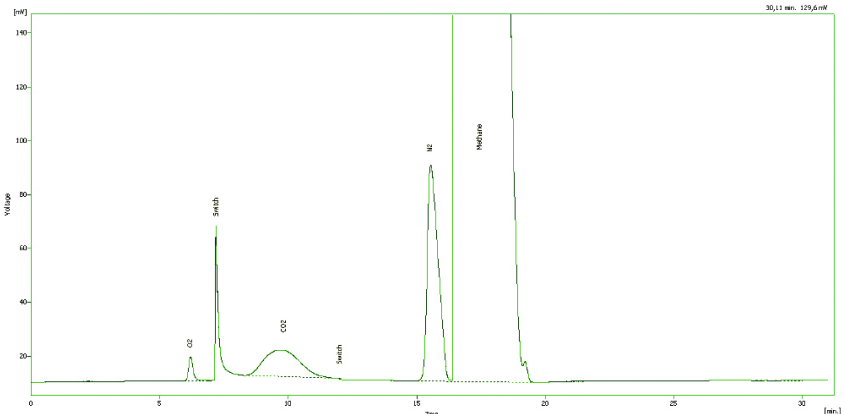
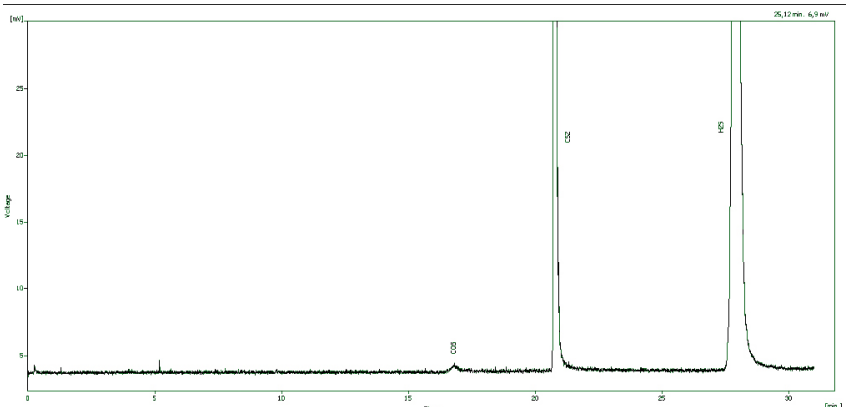
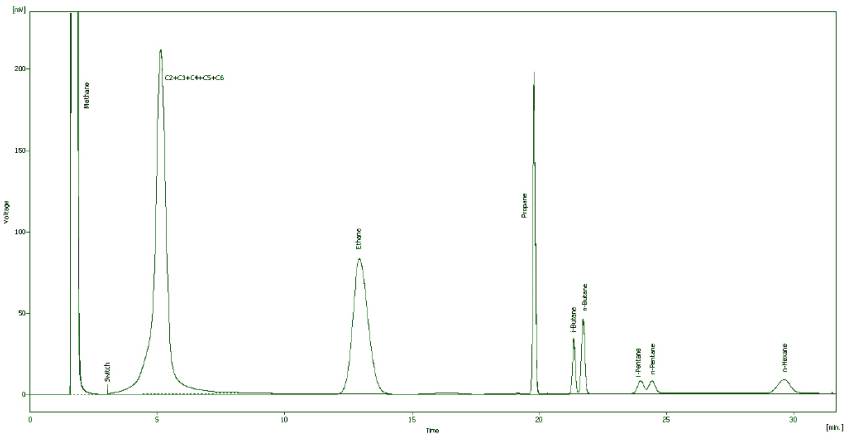
DGA 033



µTCD (Chn 1) chromatogram of the gas standard mixture



FPD (Chn 1) analysis of sulphur compounds mixture



FID (Chn 2) analysis of C6 hydrocarbons mixture

EXPERIMENTAL PARAMETERS FOR PERMANENT GAS, CO_2, HYDROCARBONS AND SULPHUR COMPOUNDS		
Master GC Analyzer		
Columns	Channel 1	**Plot Q** (3m , 1/16 OD) **Molsieve** (3m , 1/16 OD)
	Channel 2	**Plot Q** (3m , 1/16 OD)
GC Oven		
Temperature	1) T : 35°C, Time: 15 min, Rate: 30°C/min 2) T: 200°C, Time: 11 min	
Injector A: PK		
Temperature	250°C	
Carrier Gas	Helium	
Flow	10 ml/min	
Injector B: SL/IN		
Temperature	250°C	
Carrier Gas	Helium	
Split Ratio	1:25	
Flow	8 ml/min	
Det A: FPD		
Temperature Control DBB	250°C	
Detector Head Temperature (Aux Temp 2)	130°C	
H_2 Flow Rate	200 ml/min	
Air 1 Flow Rate	160 ml/min	
Air 2 Flow Rate	160 ml/min	
Aux FLow Rate (N_2)	15 ml/min	
Photomultiplier voltage	0.72 kV	
Range	1	
Min. Half-Peak Width	0.60 s	
Digital Acquisition Rate	25 Hz	
Det B: FID		
Temperature	300°C	
Aux Flow Rate (N_2)	25 ml/min	
H_2 Flow Rate	40 ml/min	
Air Flow Rate	280 ml/min	
Range	10	
Min. Half Peak WIdth	0.60 s	
Digital Acq. Rate	25 Hz	
Det C: µTCD		
Temperature Control	160°C	
Main Filament Temperature	190°C	
Main Filmanet Safety	Injector A	
Min. Half-Peak Width	0.60 s	
Digital Acquisition Rate	25 Hz	
Signal Zeroing	10 mV	
Auxiliaries		
Aux Temp 1- for Aux Oven	80°C	
Aux Temp 2 - For Detector Head temp FPD	130°C	
Aux Gas (N_2) - for Backflush	1.7 bar	

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SULFUR ANALYSIS

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