

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue:

July 25, 2025

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REF NUMBER : By Contract	APPROVED BY CALIBRATION LAB INCHARGE QC
Job No # : QC-CAL-25290	
CERTIFICATE NUMBER : QC-CAL-25290-01	

CUSTOMER DETAILS

Name | Halliburton Worldwide IRAQ (Sperry)-ZPEC025
 Address | Western Burjesia, Oil Street, District Zubair-South Iraq

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description | **Fixed Gas Detectors**
 Type | Digital
 Calibrated Range | 40 PPM H2S 50% LEL
 Calibrated By | Hussein Alaa
 Calibration Date | July 25, 2025
 Calibration Due | **October 24, 2025**



Serial Number	Sensor Type	Manufacturer	Model
K19-401702086-10-001	H2S	MSA	Ultima XE
K19-401702086-10-003	H2S	MSA	Ultima XE
K19-401702086-10-015	H2S	MSA	Ultima XE
H21-402253476-10-001	H2S	MSA	Ultima XE
H21-402253476-10-002	H2S	MSA	Ultima XE
A17-400767645-10-013	LEL	MSA	Ultima XE
J17-401011572-10-001	LEL	MSA	Ultima XE
A20-401750165-10-008	LEL	MSA	Ultima XE
A20-401750165-10-006	LEL	MSA	Ultima XE
W351791-004	LEL	CROWNCON	Xgard Bright

ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 40 °C ± 2 °C
 Relative Humidity : 30 %RH ± 5 %RH

CALIBRATION METHOD

Reference cylinders consisting of gases LEL & H2S is used , which are detected by gas detector by diffusion.

TRACEABILITY

The measurements made by Quality Control, realize the physical units of measurements (SI), through its state of the art calibration standards that are controlled and maintained by QC.

REFERENCE EQUIPMENT USED :

DESCRIPTION	SERIAL NO.	Make	Valid Until
Calibration Gas Cylinder (40PPM H2S)	555894	Gulf Cryo	25-Jun-2026
Calibration Gas Cylinder (50% LEL)	140188	Bristol	18-Oct-2026

CALIBRATION TEST RESULTS

Applied Gas	Values of UUC	Values on Reference Standard	Error in Reading of UUC	Uncertainty of Measurement
H2S PPM	40.0	40	0.0	± 1
H2S PPM	40.1	40	0.1	± 1
H2S PPM	40.1	40	0.1	± 1
H2S PPM	40.0	40	0.0	± 1
H2S PPM	40.0	40	0.0	± 1
Methane(LEL)%	50.0	50	0.0	± 1
Methane(LEL)%	50.0	50	0.0	± 1
Methane(LEL)%	50.0	50	0.0	± 1
Methane(LEL)%	50.0	50	0.0	± 1
Methane(LEL)%	50.0	50	0.0	± 1

Calibration results were found to conform as per specified accuracy requirements. Above Instrument has **PASSED** its Calibration.