



EffecTech

Specialists in Gas Measurement



4719

Certificate of Participation

Certificate No. 16/0664/23

Global Gas and LNG (GGLNG) Proficiency Testing Scheme

Round 16Q3
Code P08
Participant DESFA S.A.

Results LNG composition

component	reference value / (%mol/mol)	reported result / (% mol/mol)	z-score	E _n -number
nitrogen	3.645 ± 0.012	3.636 ± 0.060	-0.21	-0.14
carbon dioxide	2.590 ± 0.008	2.593 ± 0.040	0.10	0.07
methane	82.351 ± 0.028	82.350 ± 0.190	-0.01	0.00
ethane	6.346 ± 0.016	6.356 ± 0.034	0.14	0.27
propane	3.705 ± 0.011	3.706 ± 0.023	0.01	0.02
iso-butane	0.4978 ± 0.0018	0.4991 ± 0.0063	0.11	0.19
n-butane	0.4625 ± 0.0024	0.4567 ± 0.0058	-0.57	-0.93
iso-pentane	0.1660 ± 0.0016	0.1664 ± 0.0044	0.12	0.09
n-pentane	0.1381 ± 0.0016	0.1387 ± 0.0033	0.19	0.16
n-hexane	0.0989 ± 0.0011	0.0981 ± 0.0043	-0.36	-0.18

We certify that the above named participant took part in the global gas and LNG (GGLNG) proficiency testing scheme provided by EffecTech and that the reported results and performance measures are genuine

Steve Price
Scheme Coordinator

30 September 2016

Dr Gavin Squire
Technical Authority