

μμ

-

2014-2020

(INTERREG V-A)



μ

&

μ

»

(μ 2017 - μ 2020)

4.2.3 4.4.3

μ

μ

, 2020

μ

()

- . , μ ()

- . μ ,

- ,

- ,

- μ ,

- ,

				.....	3
				.....	4
				.....	4
	1.			.....	5
	2.			.....	6
2.1		μ	μ	.....	6
2.2				.....	7
2.2.1		μ	μ	.....	7
	3.			.....	10
	4.			.....	17

μ 2. 1	μ	(μ 2).....	6
--------	---	-------------	---

2. 1	μ	μ	7
------	---	---	-------	---

2. 2		Duvas.....	8
------	--	------------	---

2. 3	μ	GC / MS TORION T-9.....	9
------	---	-------------------------	---

(1-40 ppb). μ , Duvas Technologies : (O_3), (C_8H_{10}), $\mu\mu$ (NH_3), (C_6H_6), (NO_2), (SO_2), μ (NO), (C_8H_{10}), (C_7H_8) (H_2S). μ 98%. μ .



2.2 Duvas

2.2.1.2 μ GC/MS TORION T-9

μ μ TORION T-9 μ GC/MS, μ μ μ μ (GC) μ GC μ μ μ (LTM). μ , ' μ μ μ . μ μ 300°C. μ 5 μ , μ ID 0.1 mm μ 0.4 micron MTX-5. μ μ μ μ MS μ μ Toroidal Ion Trap. μ μ 180°C. μ μ μ μ 41 - 500 amu, μ 0,5 FWHM. μ μ μ μ μ μ : μ SPME (μ μ) μ μ μ μ μ tedlar (high ppb).

- NT (Needle trap) μ tedlar, μ μ
 μ . μ μ μ
 , Clairion. NT μ ppb (low to
 mid range).

μ μ

μ μ μ μ μ (run
 blank). , μ μ SPME μ
 μ μ - - μ
 μ μ μ μ PV mix μ μ (),
 PV mix - μ μ μ μ , 13 μ ,
 μ . SPME μ
 μ PV mix μ μ 30 . SPME μ
 μ μ , .
 μ μ μ μ μ μ .
 μ μ μ μ 30
 μ μ 30 , μ
 μ μ .



2.3 μ GC / MS TORION T-9



μ 3.1

μ

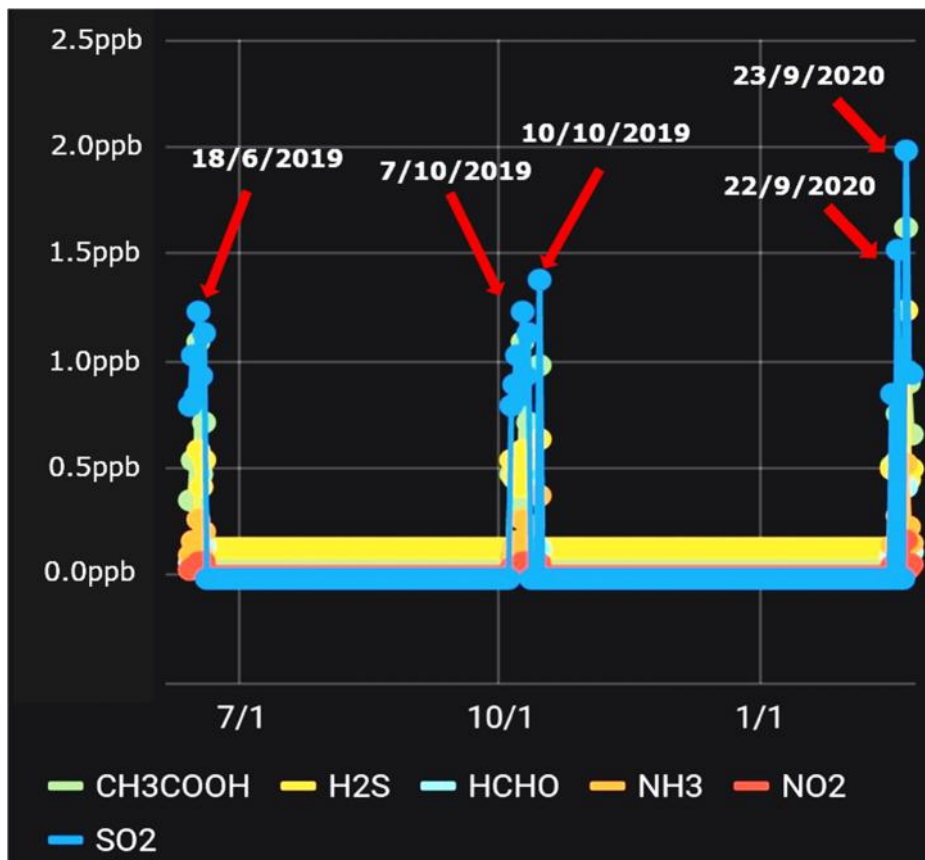
μ Grafana,

μ

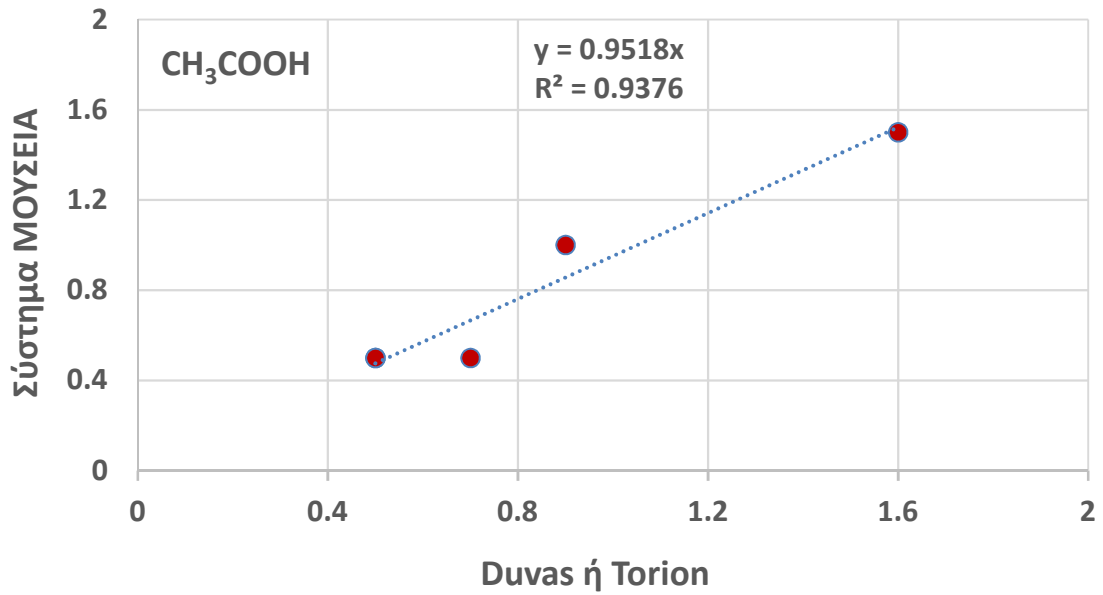
μμ

(pie chart).

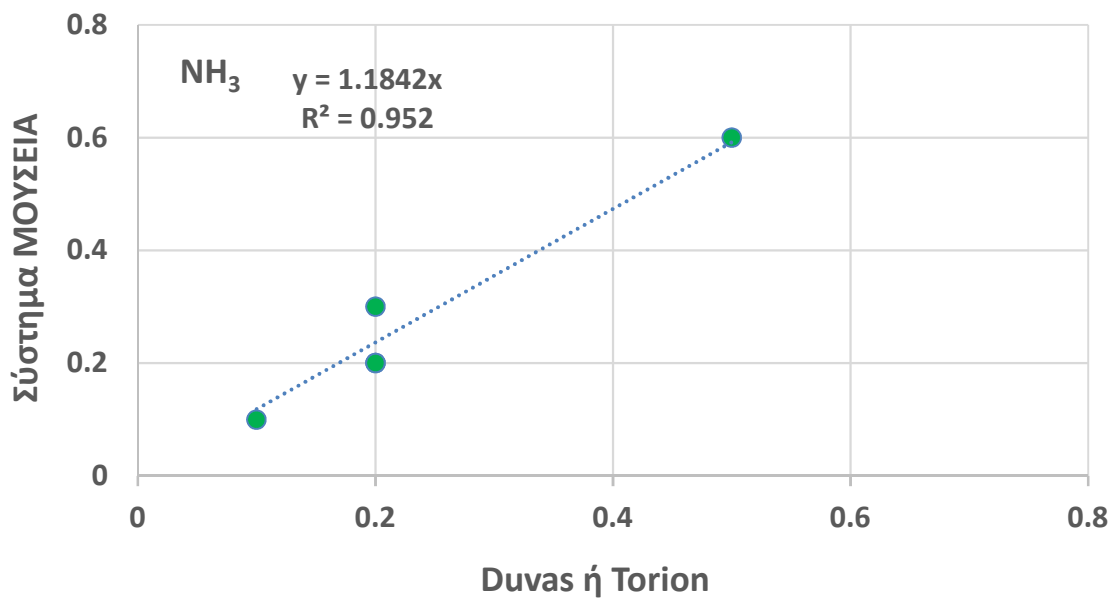
, μ



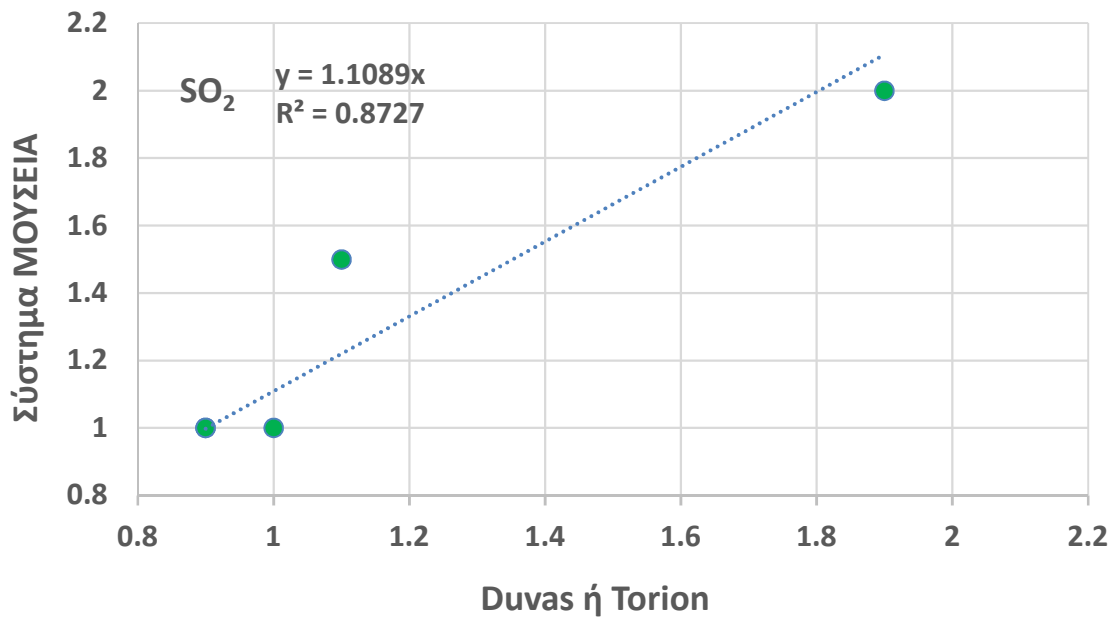
μ μ μ μ μ
(Duvass Torion T9).



μ 3.5 μ μ
μ Torion T9.



μ 3.6 μ μ μ
μ Duvass.



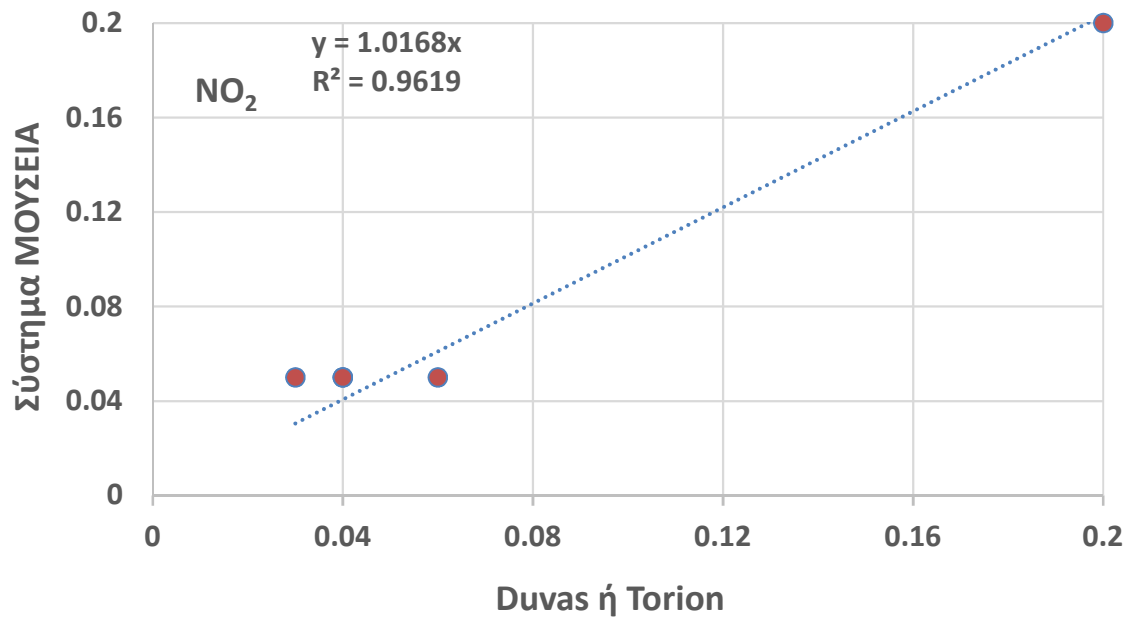
μ 3.7

μ

μ

μ

Duvass.



μ 3.8

μ

μ

μ

Duvass.

μ μ μ μ μ
(Dugas Torion T9).

μ μ μ μ μ μ μ μ
μ μ μ μ μ μ μ μ
, μ . μ μ μ μ μ μ
μ μ μ μ μ μ μ μ
, .