

ISPRA

APPENDICE 2

Trends emissivi Camini Area a caldo

Dati di produzione e emissioni diffuse totali nello stabilimento

TAVOLA 1: Cokerie (Camini E424, E425, E428, E435, E437)

TAVOLA 2: Agglomerato (E312, E314b, E315b, E324 e E325)

TAVOLA 3: Acciaierie (E525, E525b, E551b e E551c)

TAVOLA 4: Altoforni (E102b, E103b, E109, E111, E112, E114, E134, E 135 e E137)

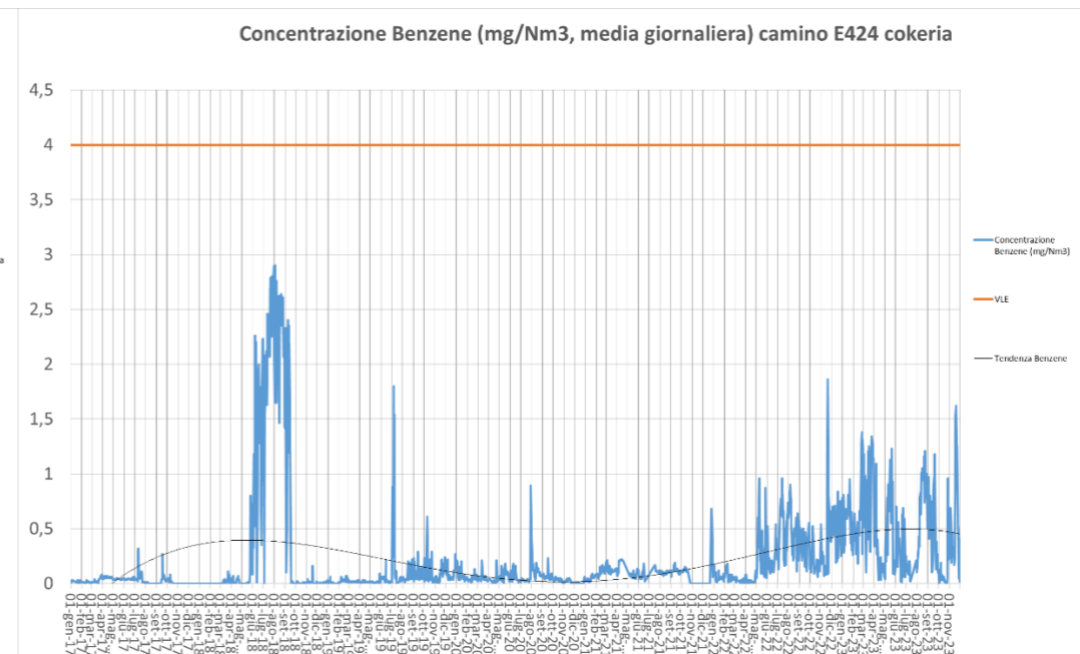
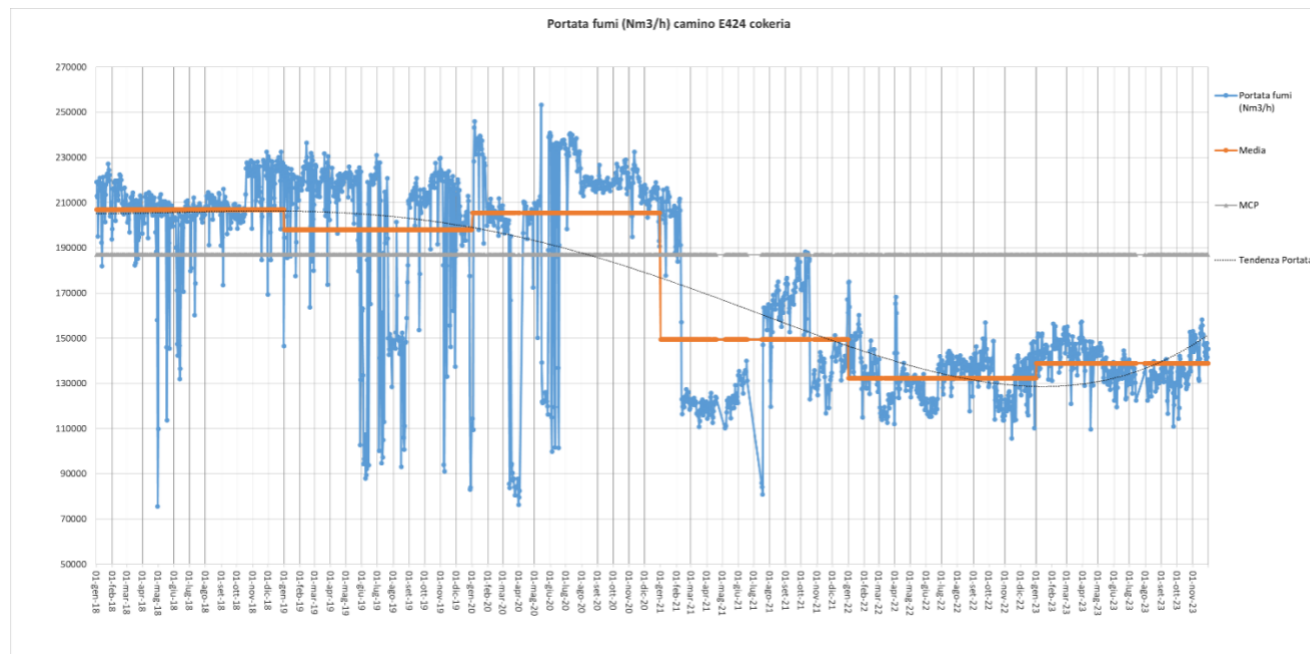
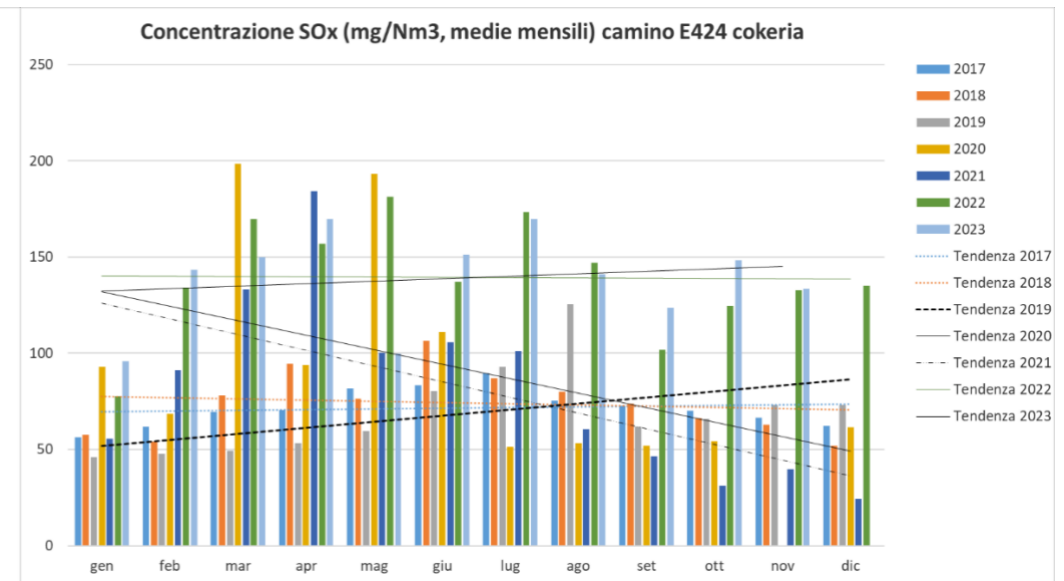
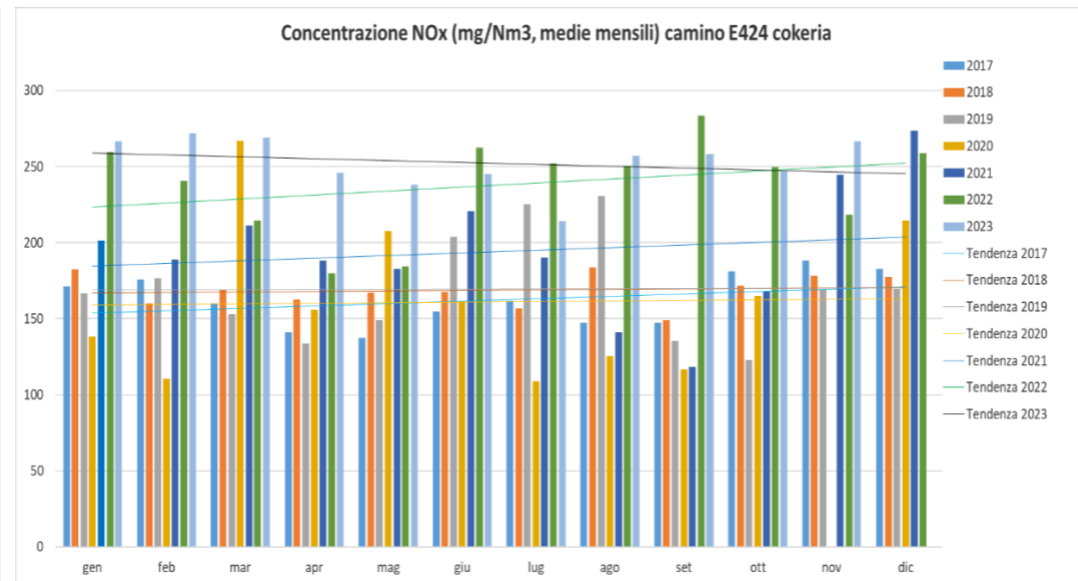
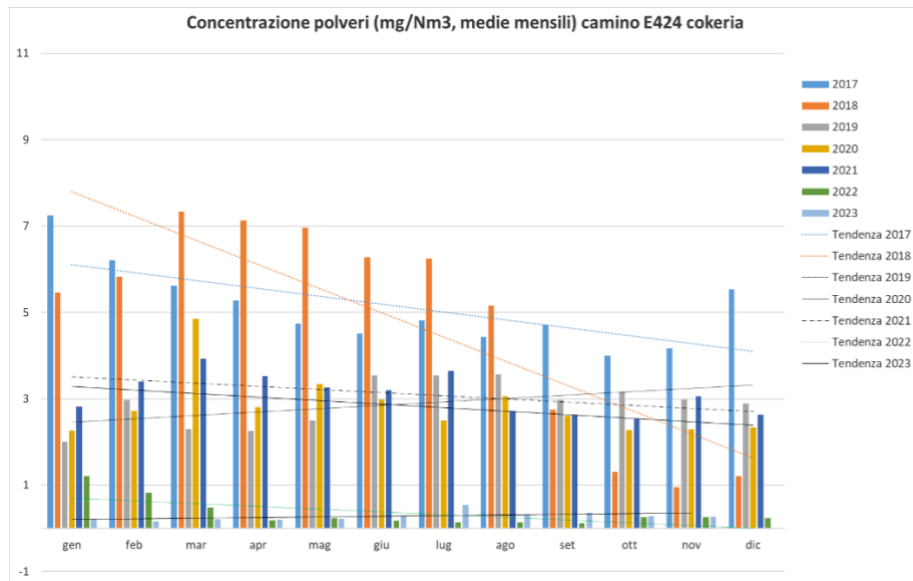
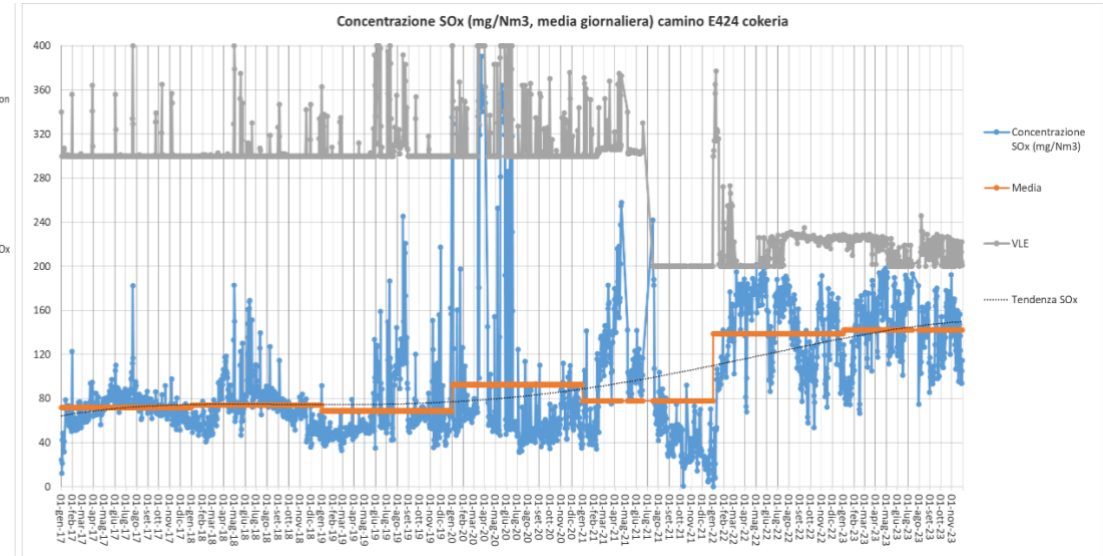
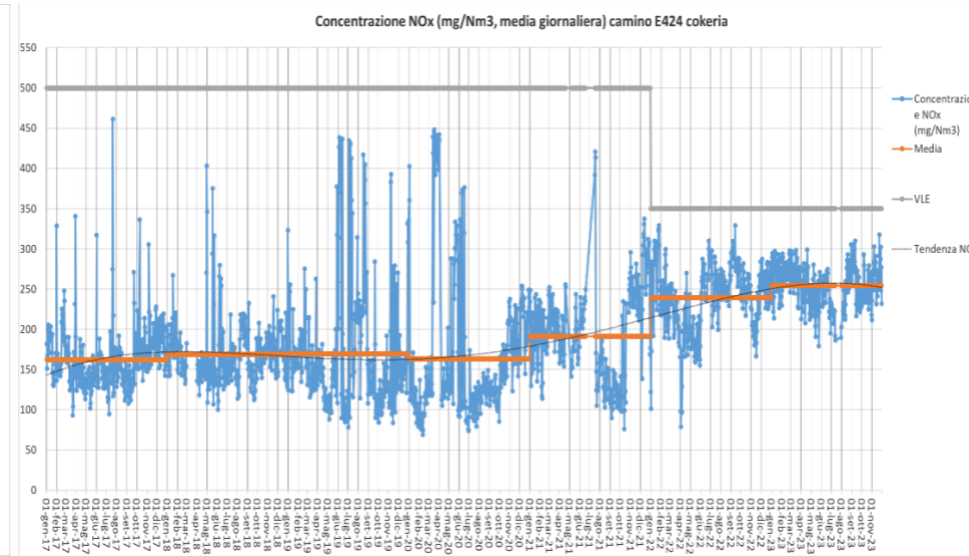
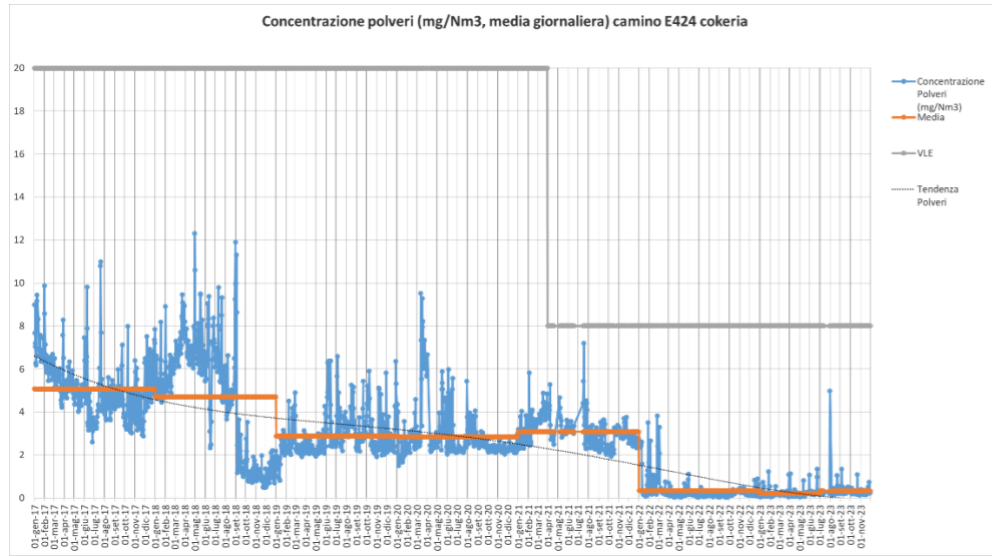
TAVOLA 5: Produzione di acciaio e emissioni diffuse totali nello stabilimento

TAVOLA 6: Produzione Agglomerato e Cokeria

TAVOLA 1 - Camini cokeria (COK)

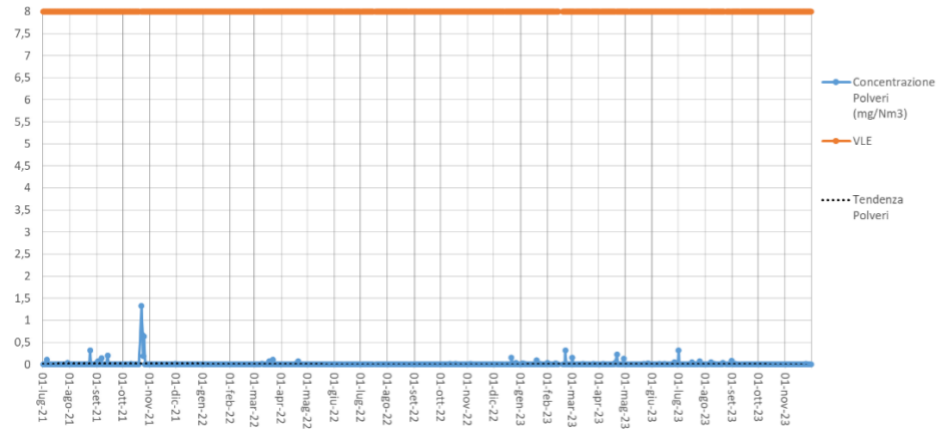
E424, E425, E428, E435, E437

Camino E424

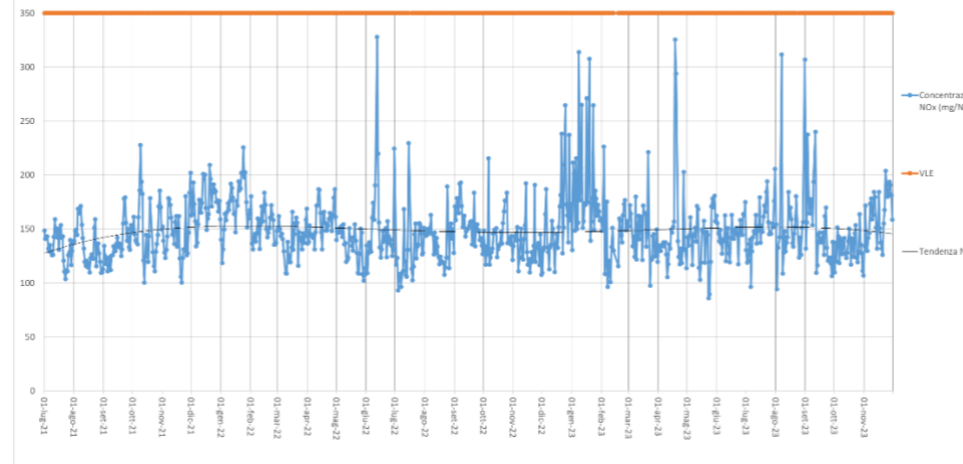


Camino E425

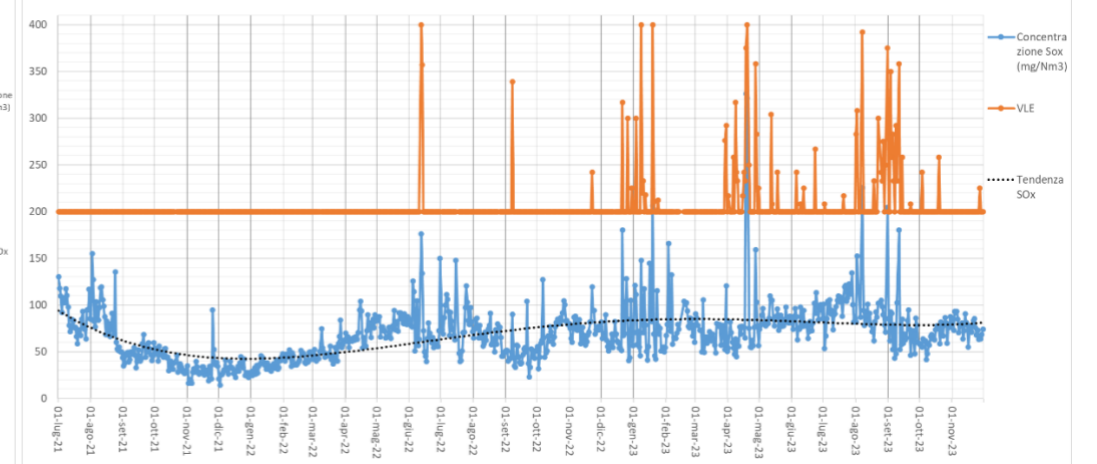
Concentrazione polveri (mg/Nm3, media giornaliera) camino E425 cokeria



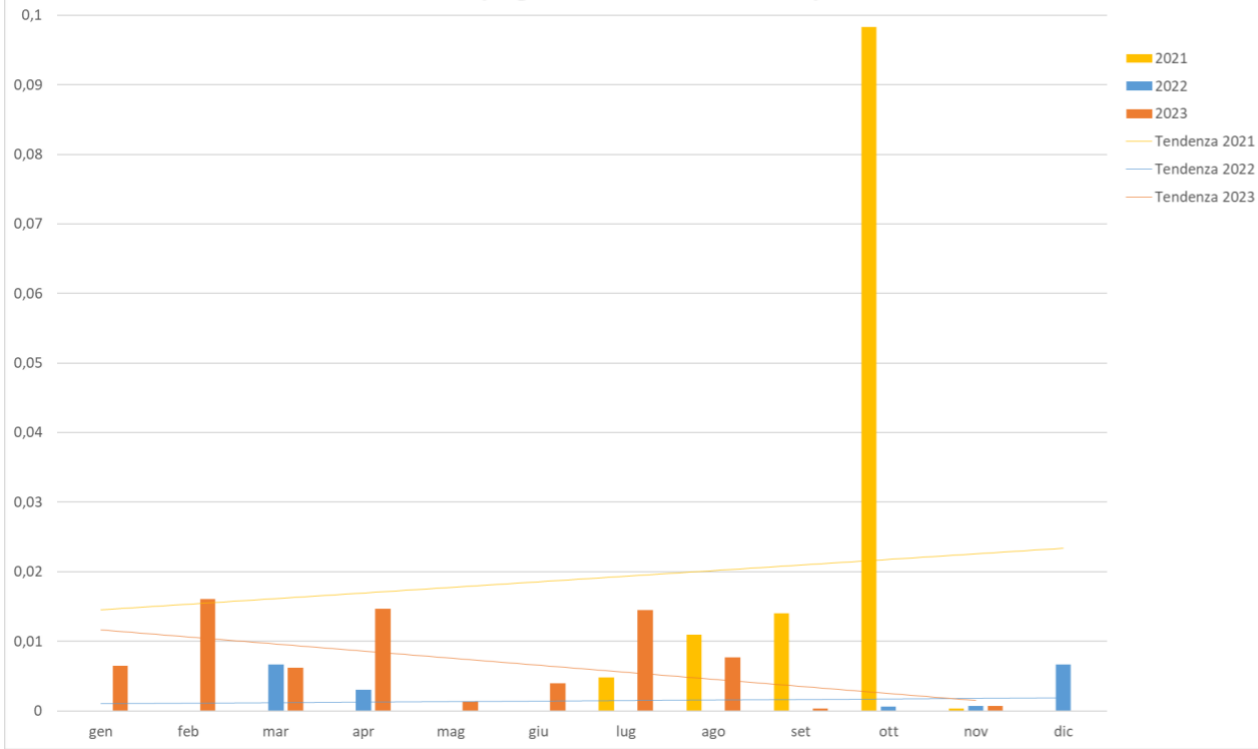
Concentrazione di NOx (mg/Nm3, media giornaliera) camino E425 cokeria



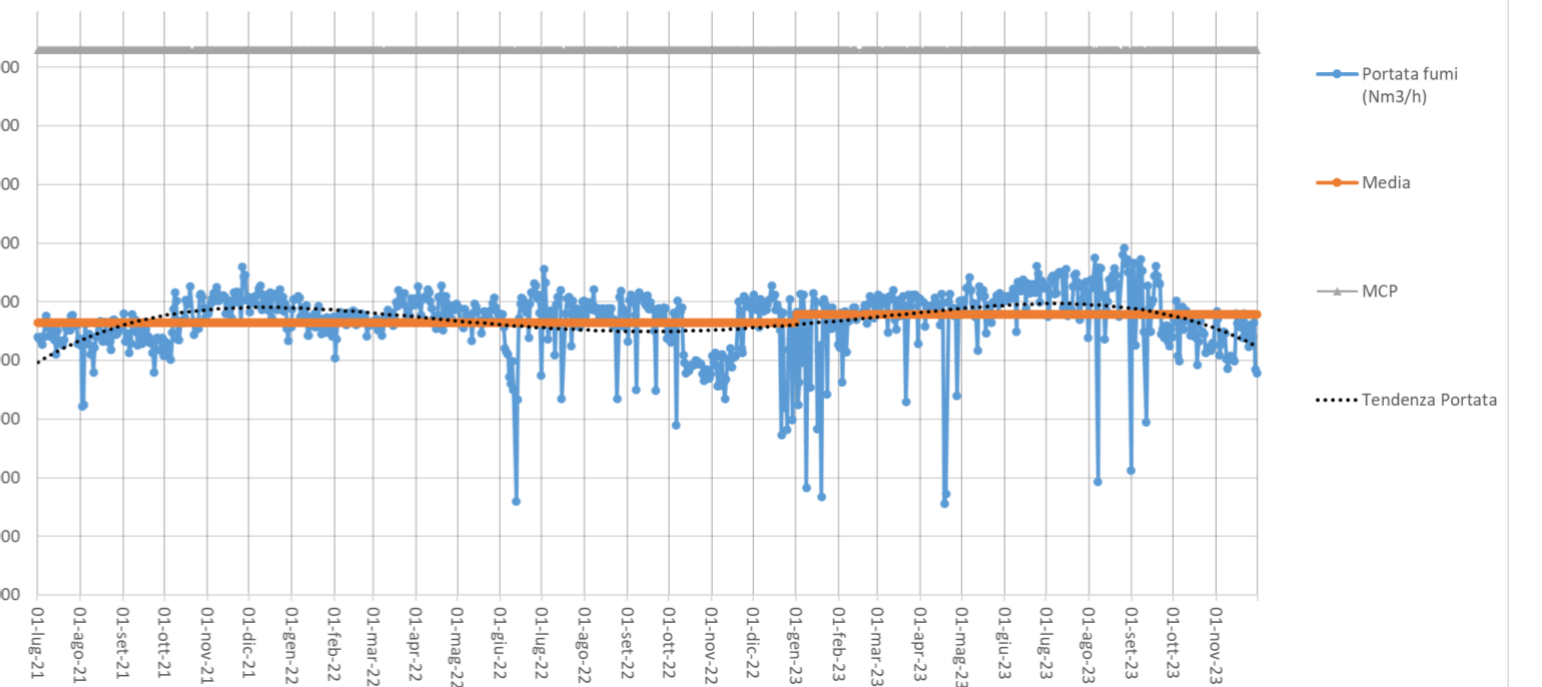
Concentrazione SOx (mg/Nm3, media giornaliera) camino E425 cokeria



Concentrazione Polveri (mg/Nm3, medie mensili) camino E425 cokeria

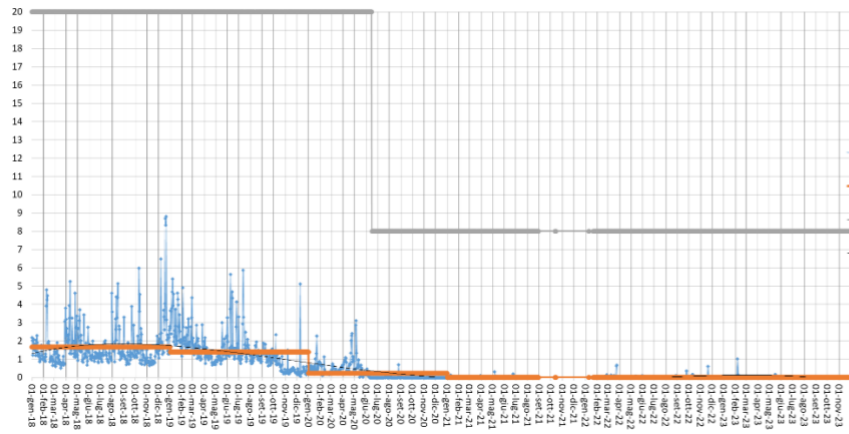


Portata fumi (Nm3/h) camino E425 cokeria

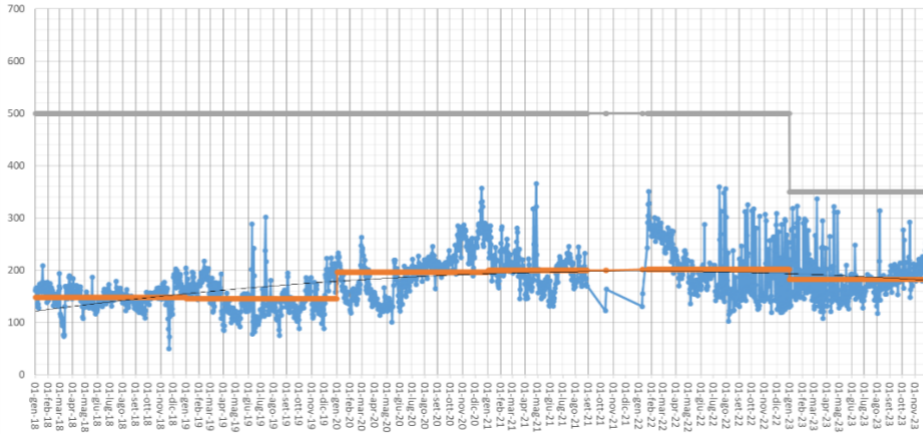


Camino E428

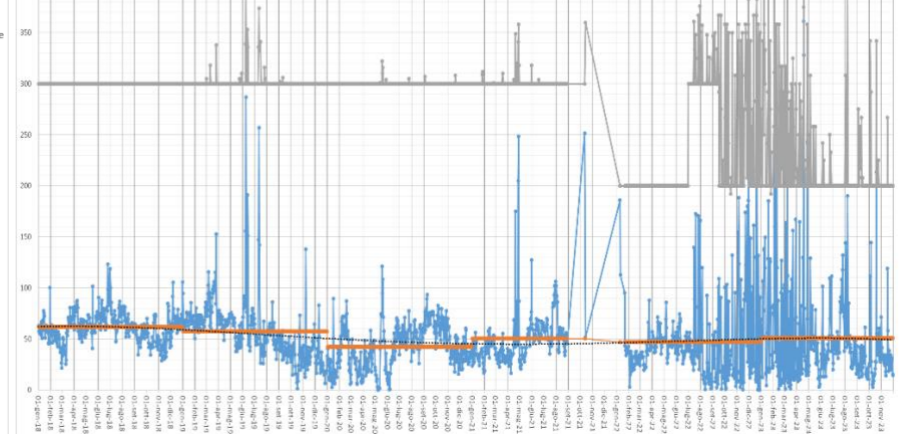
Concentrazione polveri (mg/Nm3, media giornaliera) camino E428 cokeria



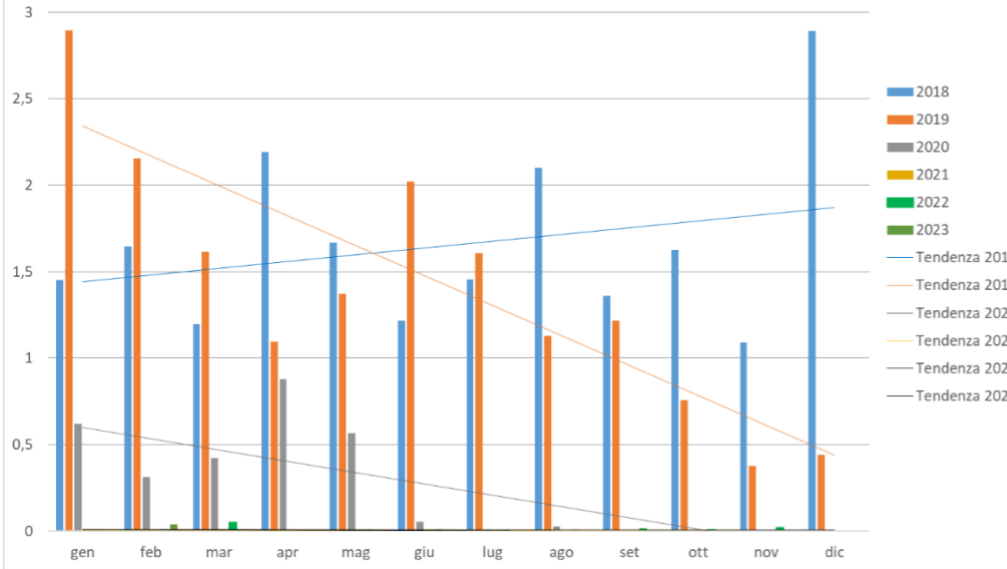
Concentrazione NOx (mg/Nm3, media giornaliera) camino E428 cokeria



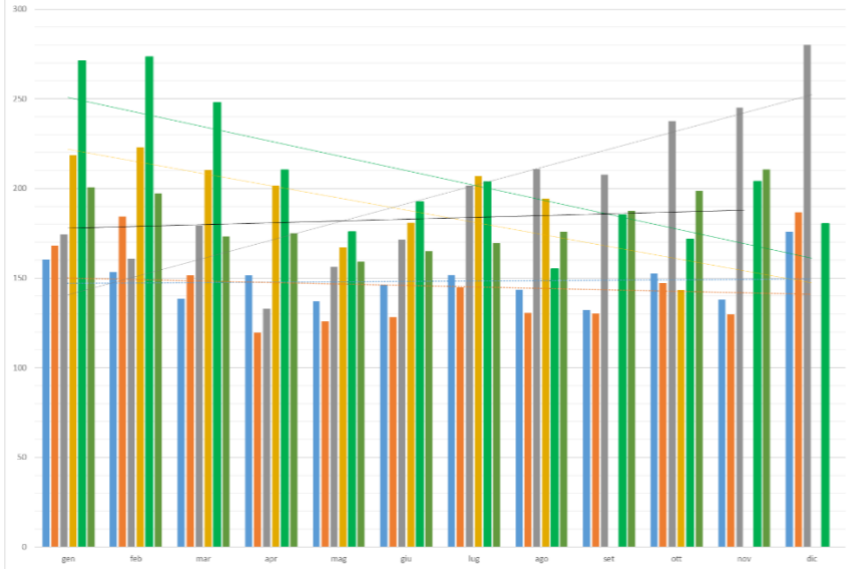
Concentrazione SOx (mg/Nm3, media giornaliera) camino E428 cokeria



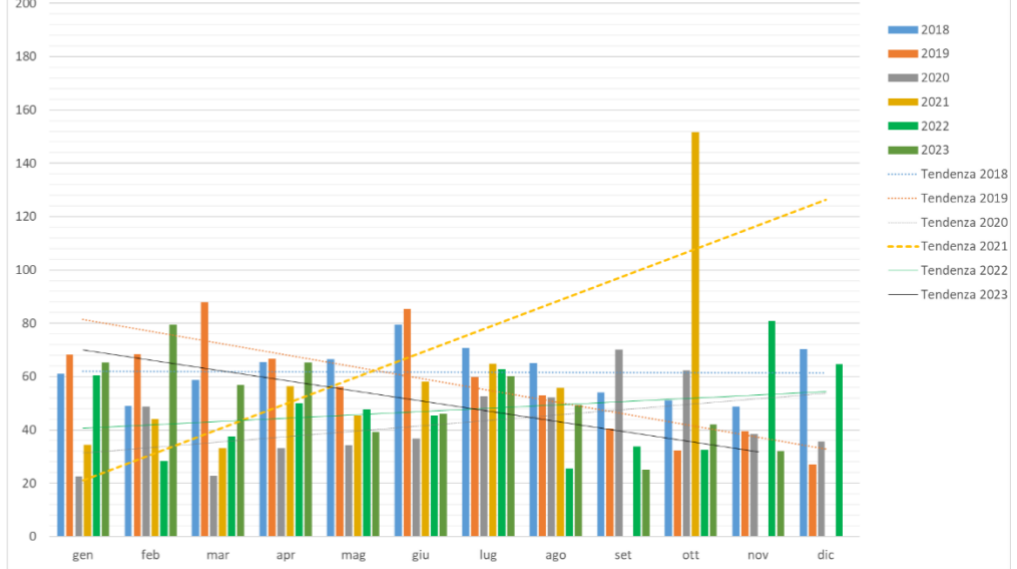
Concentrazione Polveri (mg/Nm3, medie mensili) camino E428 cokeria



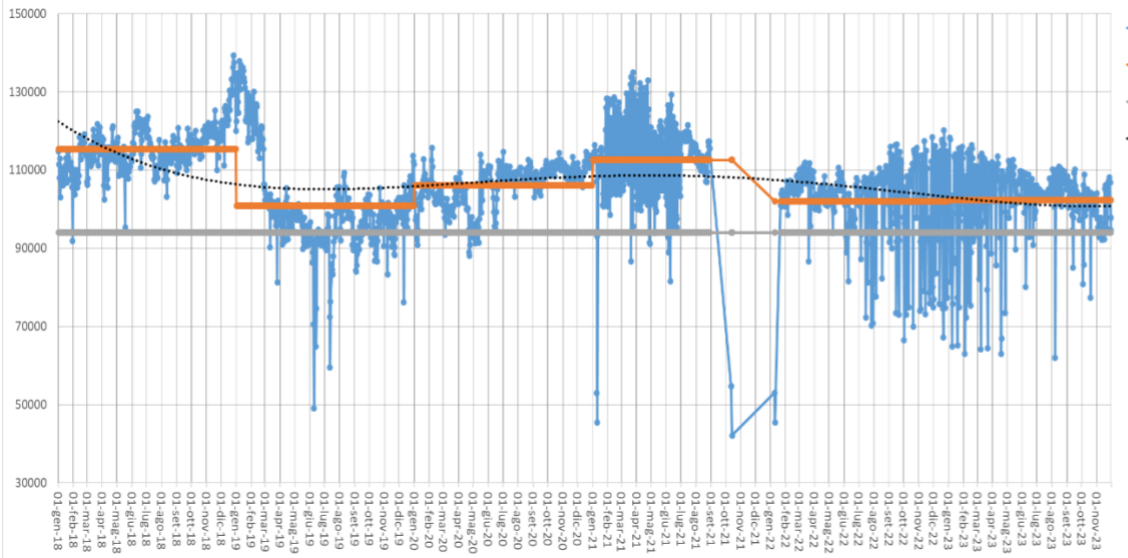
Concentrazione NOx (mg/Nm3, medie mensili) camino E428 cokeria



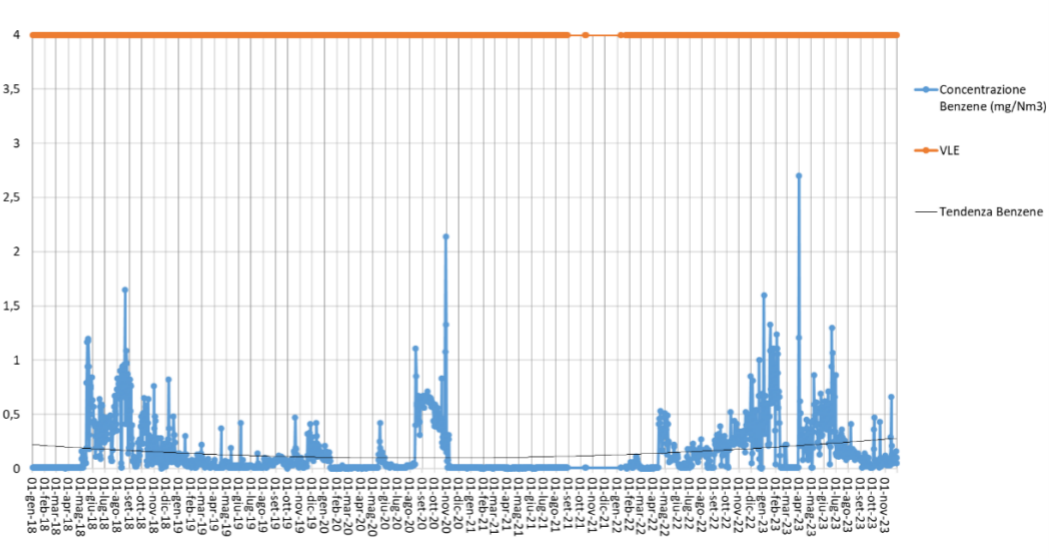
Concentrazione SOx (mg/Nm3, medie mensili) camino E428 cokeria



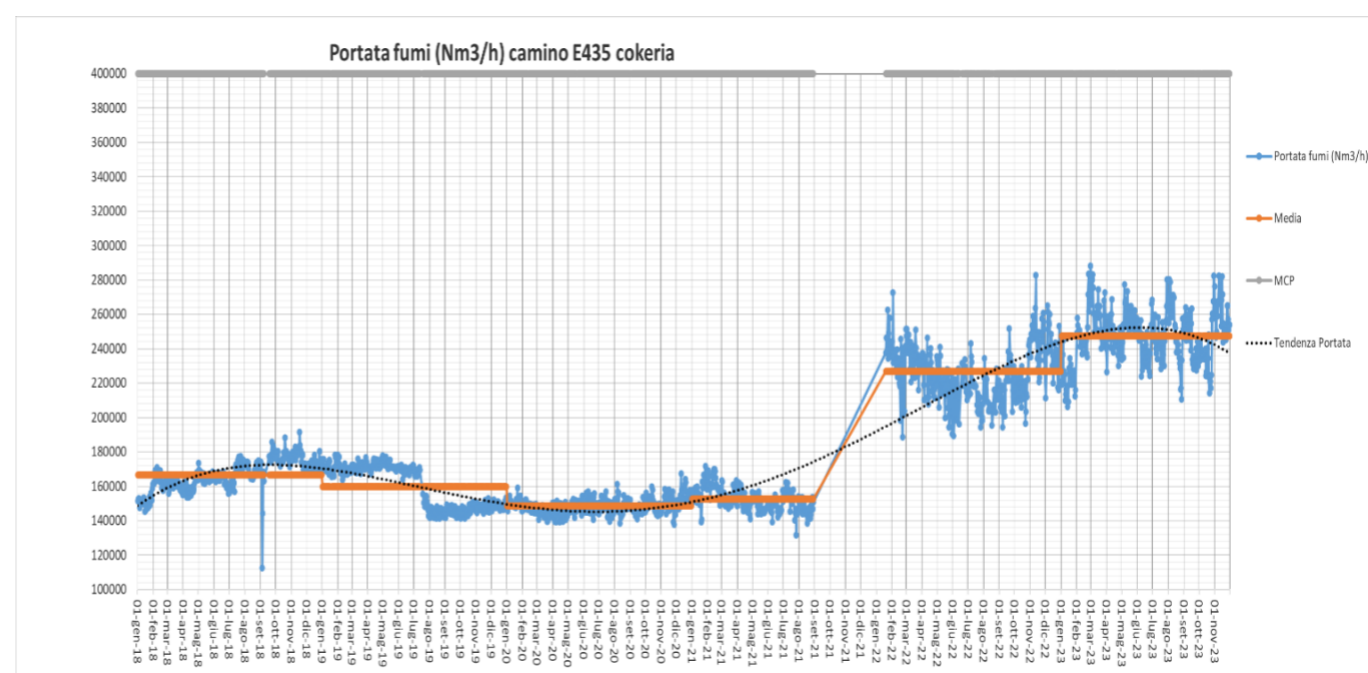
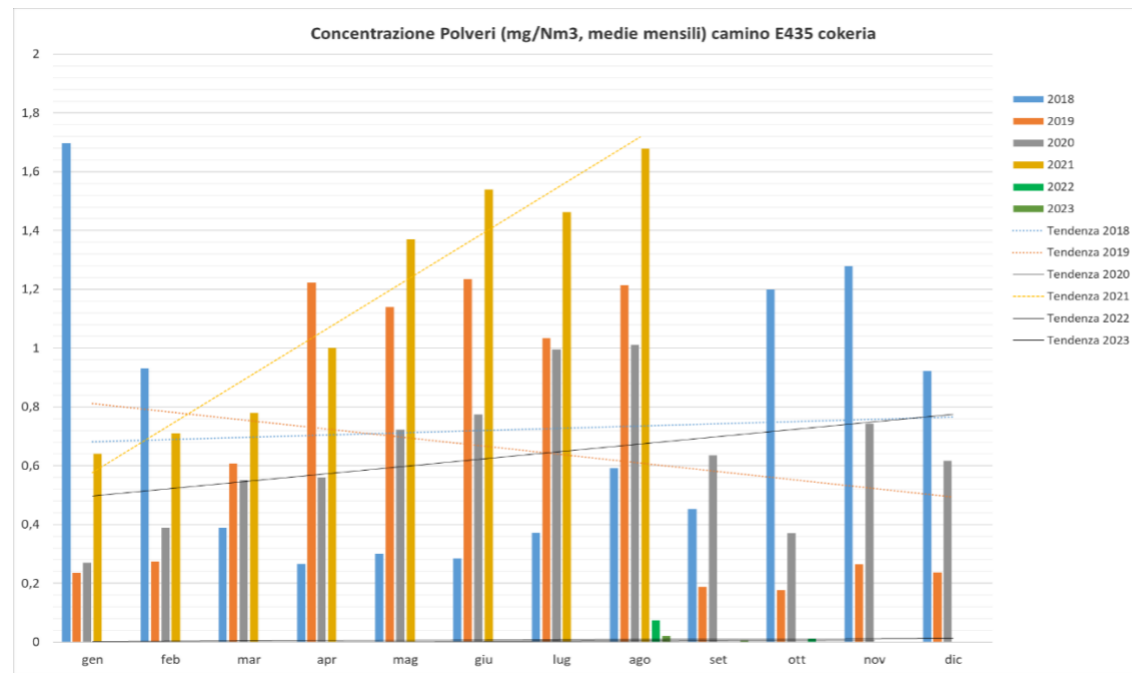
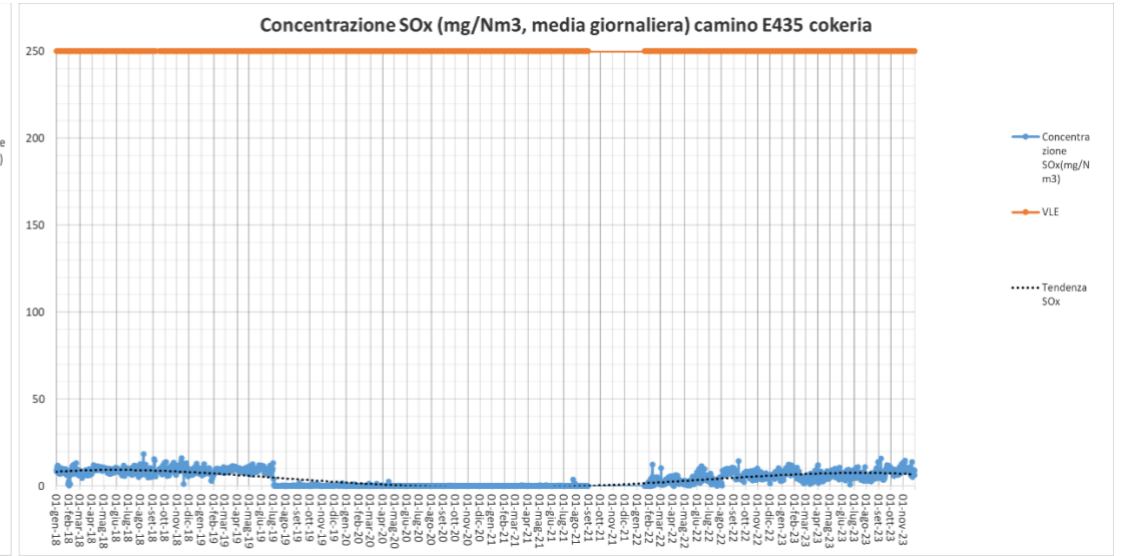
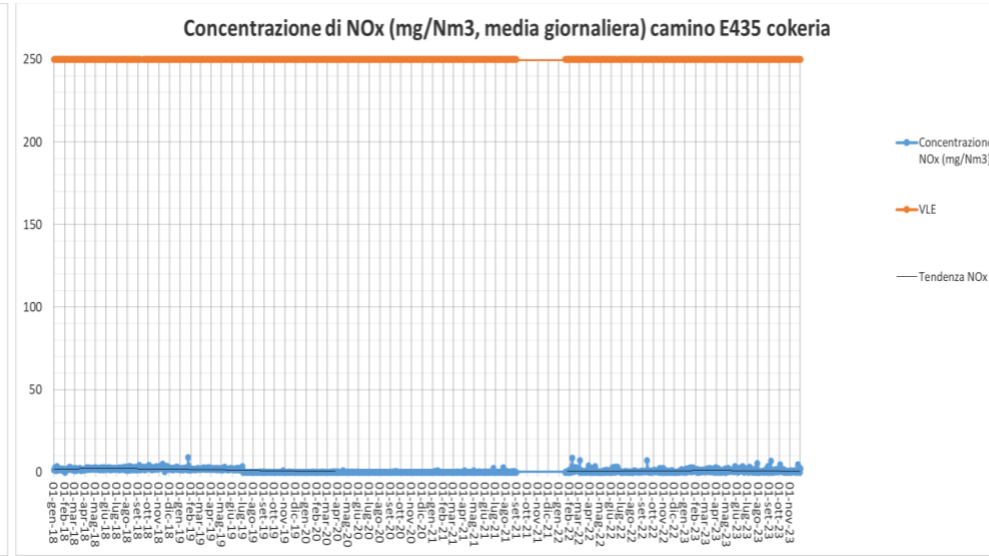
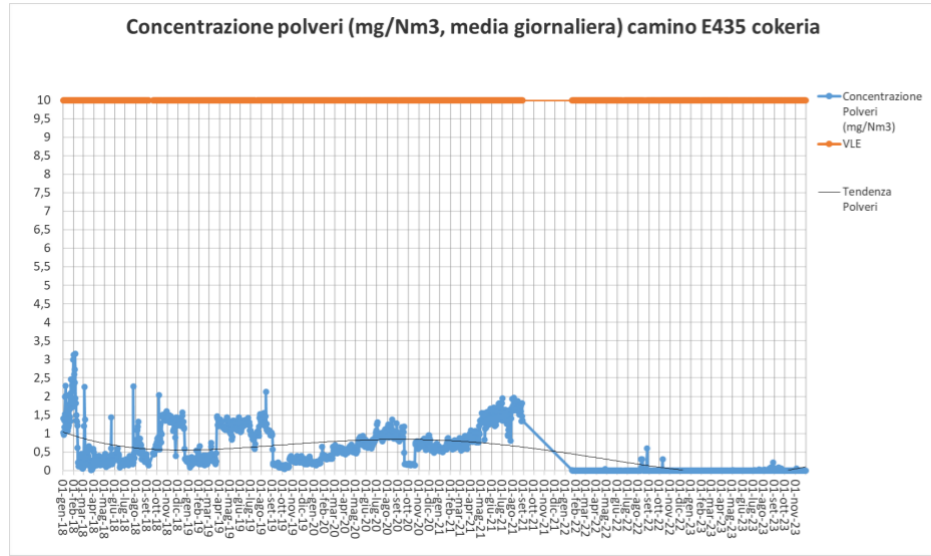
Portata fumi (Nm3/h) camino(E428) cokeria



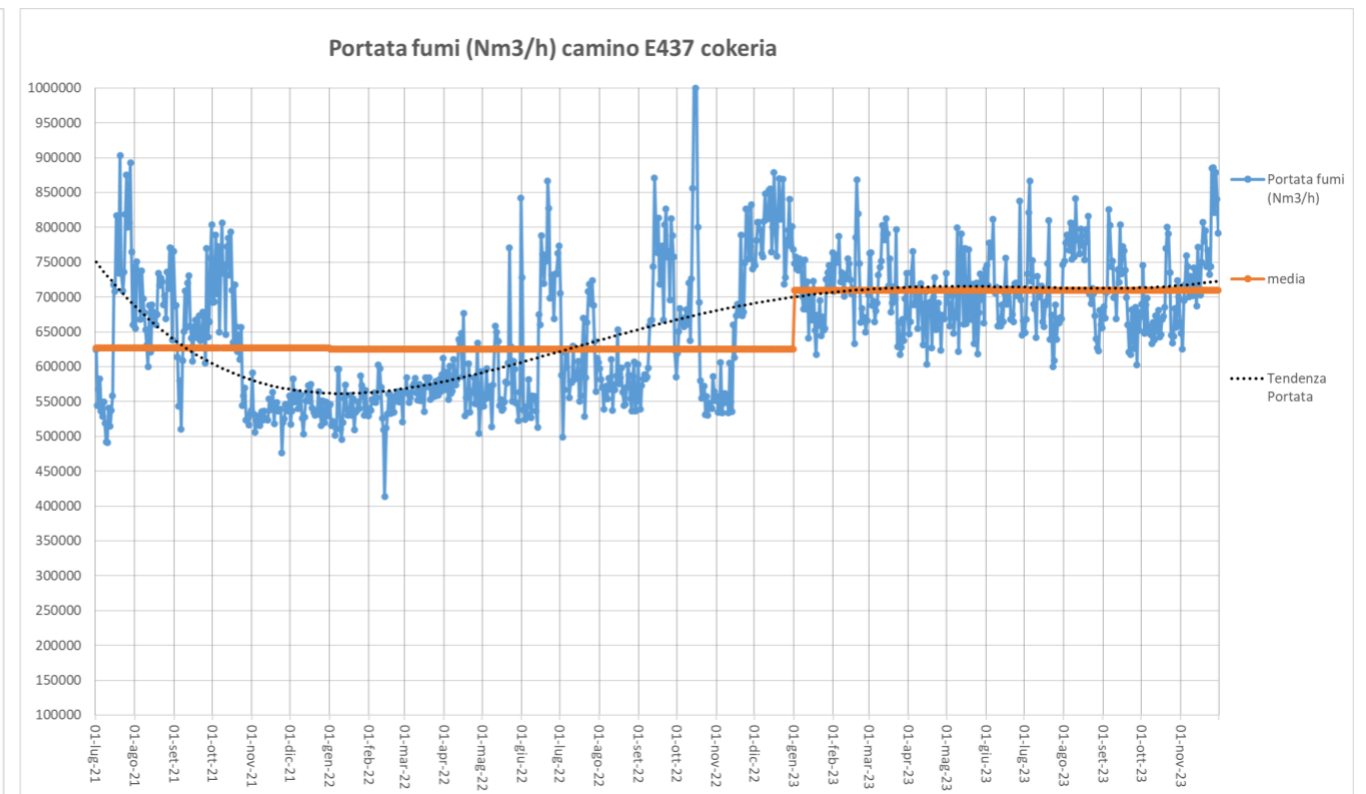
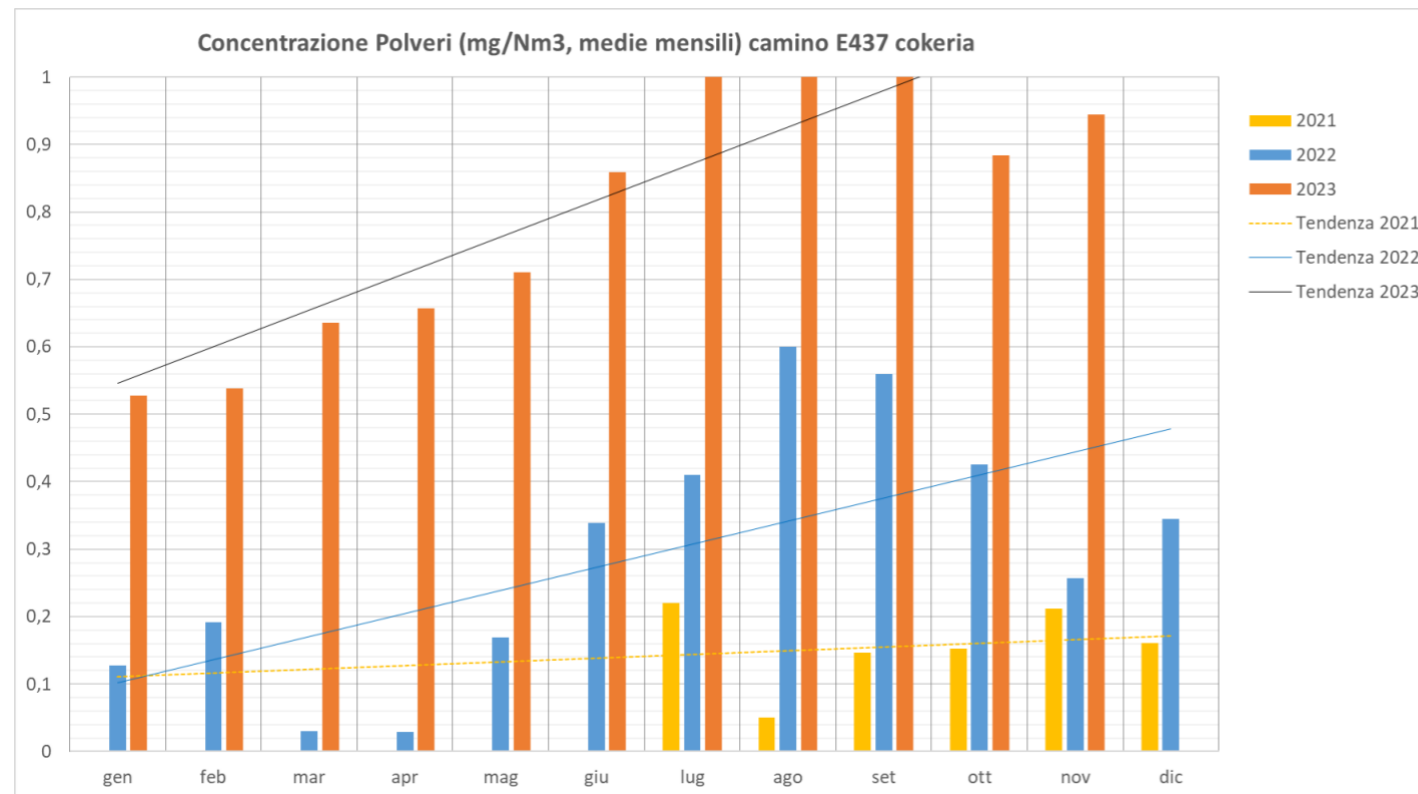
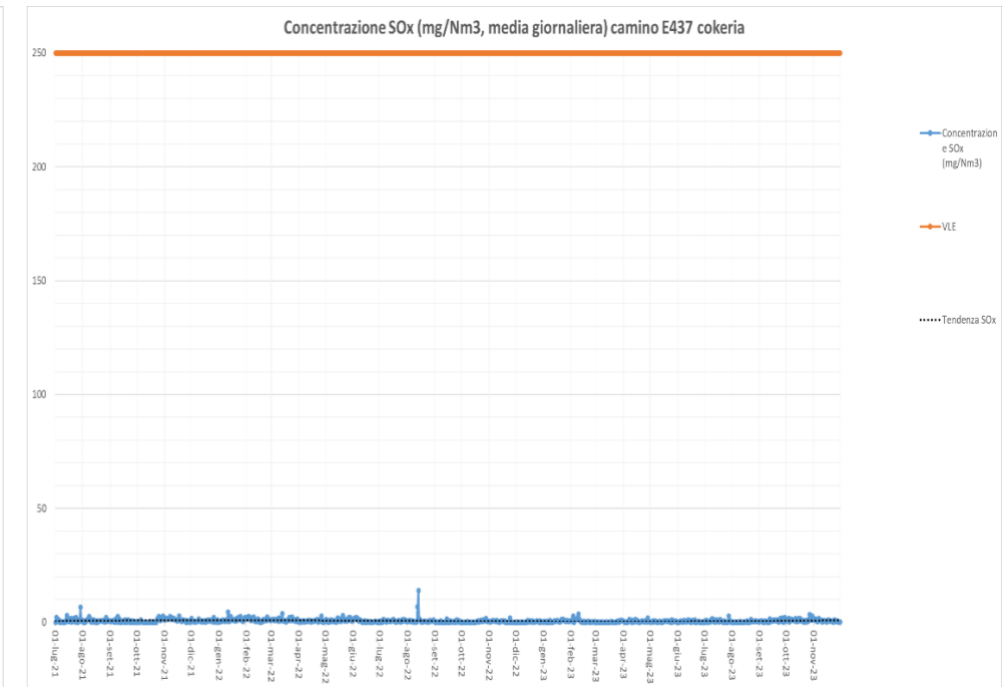
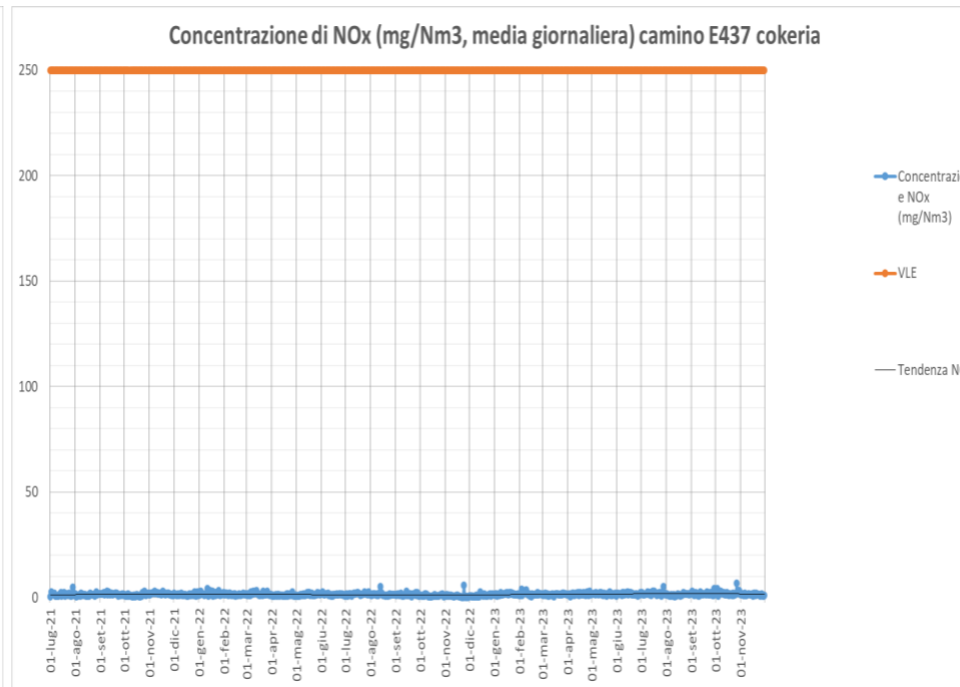
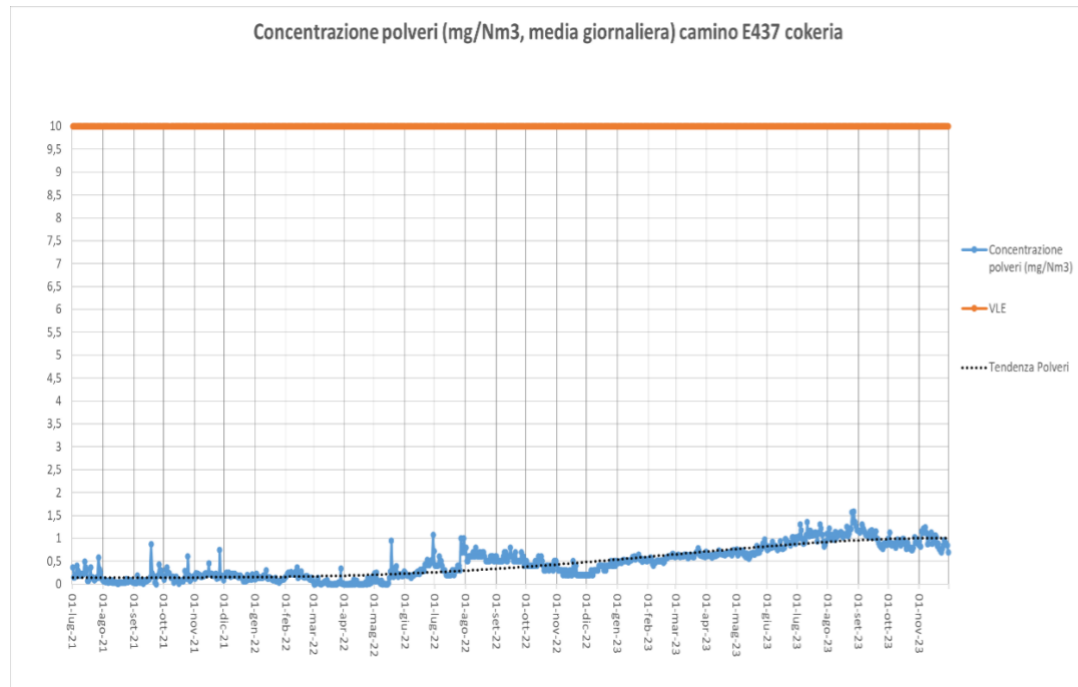
Concentrazione Benzene (mg/Nm3, media giornaliera) camino E428 cokeria



Camino E435



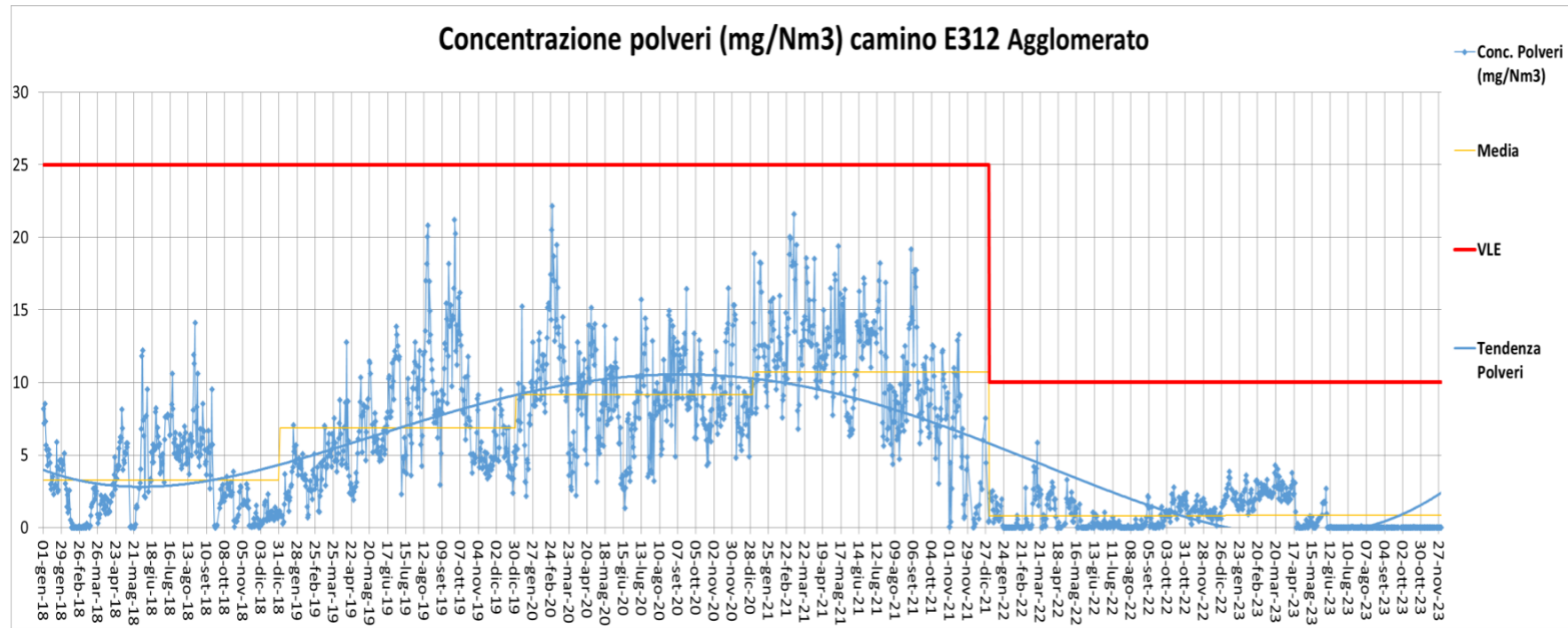
Camino E437



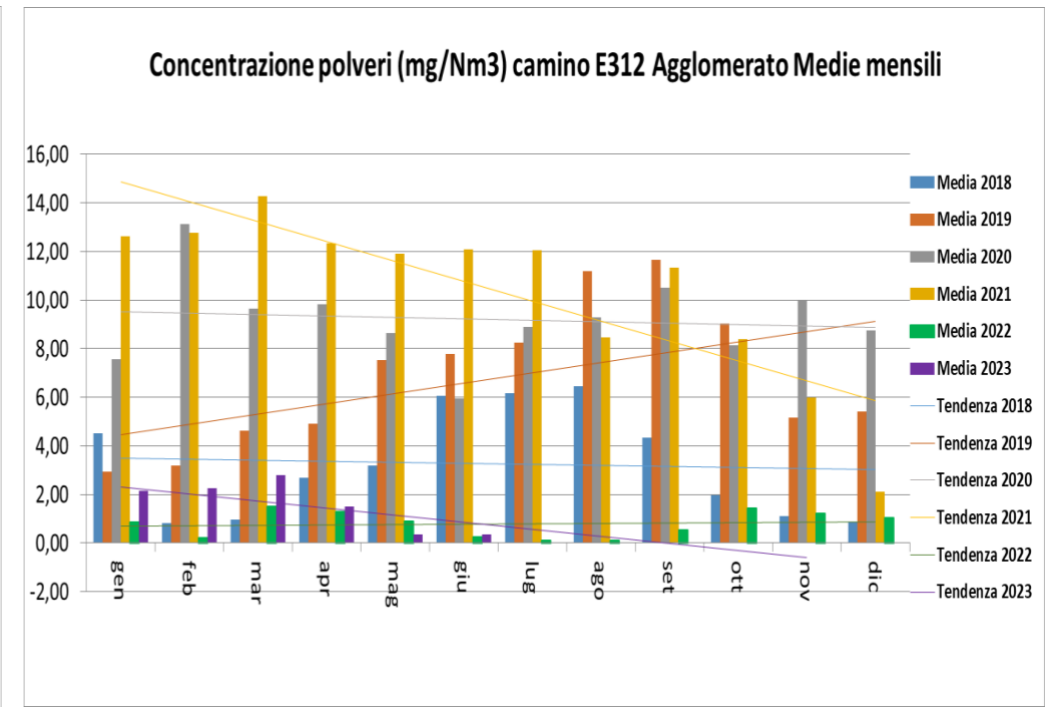
**TAVOLA 2 Camini area Agglomerato (AGL)
E312, E314b, E315b, E324 e E325**

Camino E312

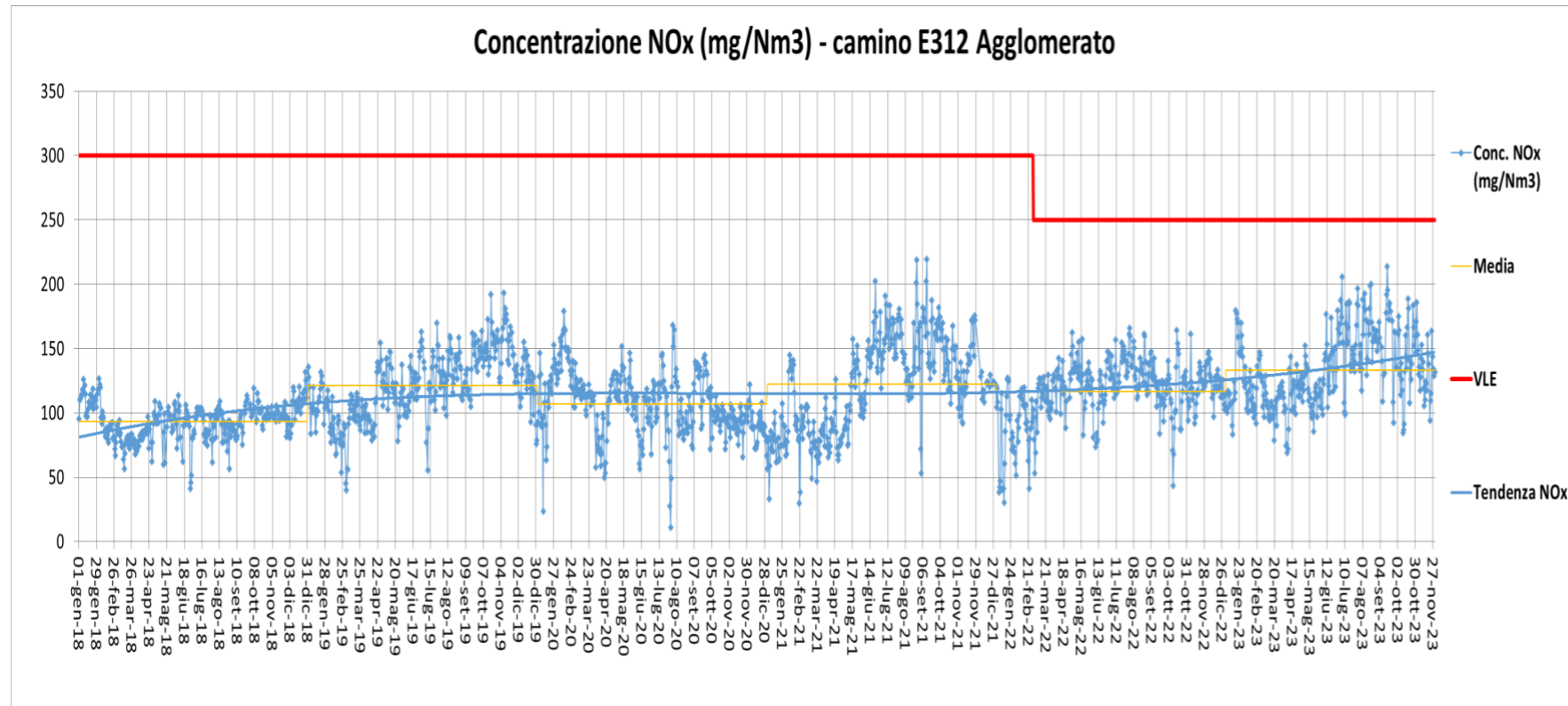
Concentrazione polveri (mg/Nm3) camino E312 Agglomerato



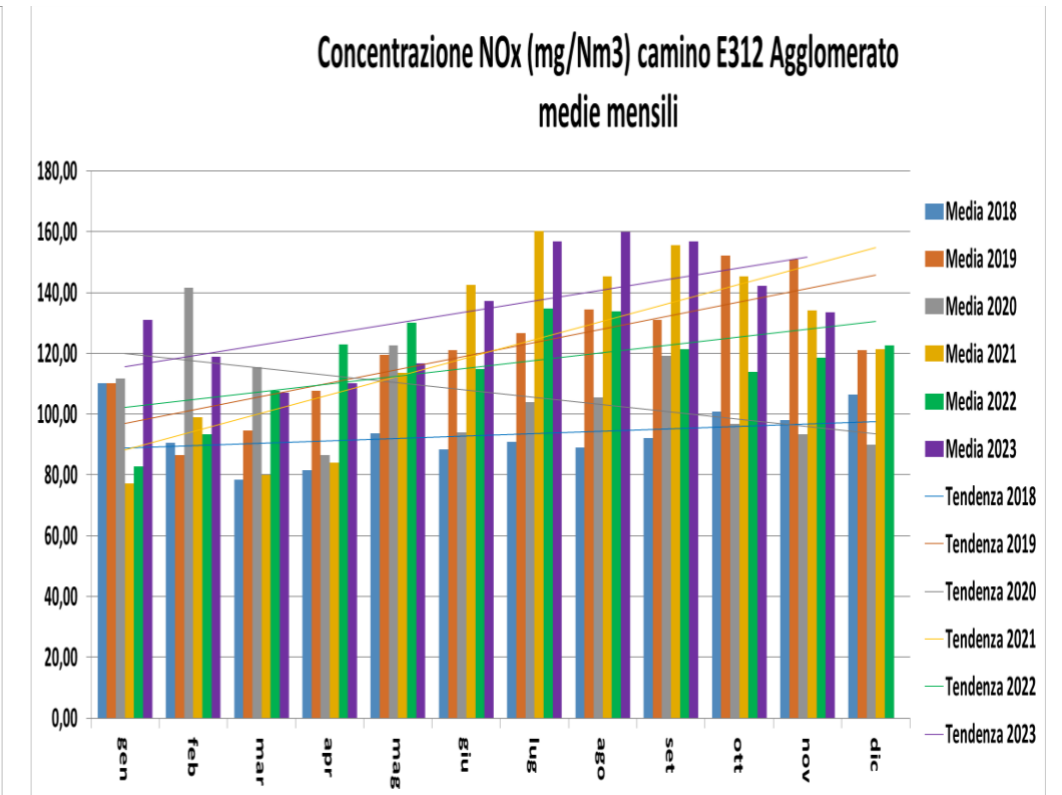
Concentrazione polveri (mg/Nm3) camino E312 Agglomerato Medie mensili



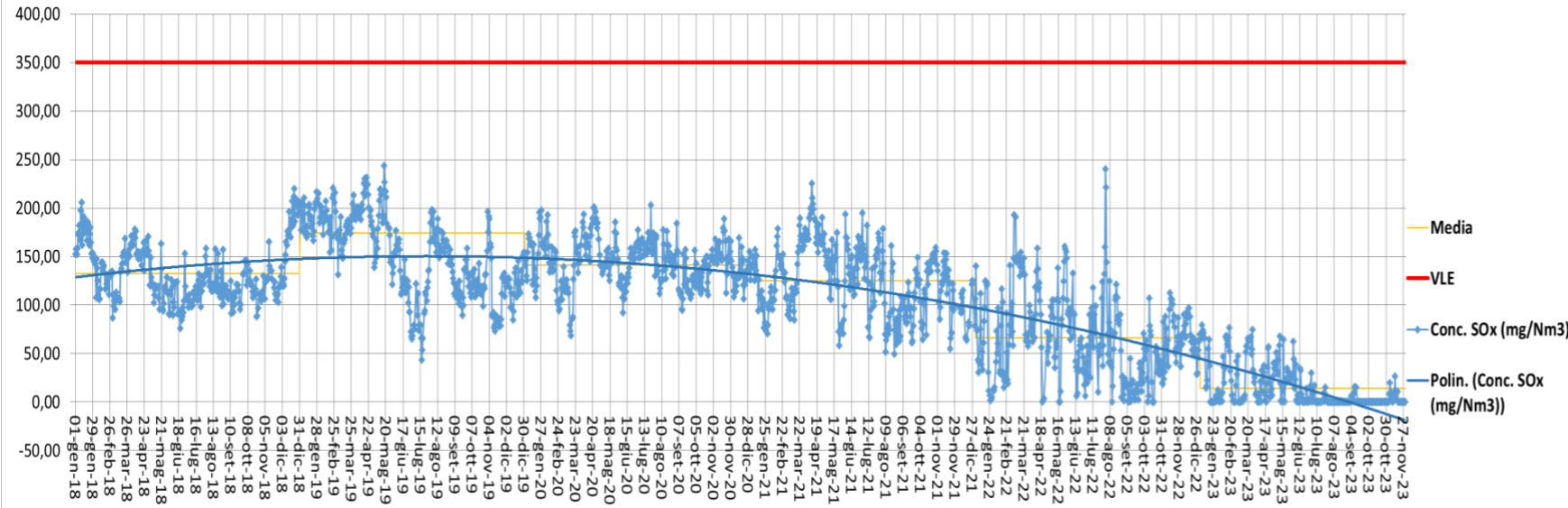
Concentrazione NOx (mg/Nm3) - camino E312 Agglomerato



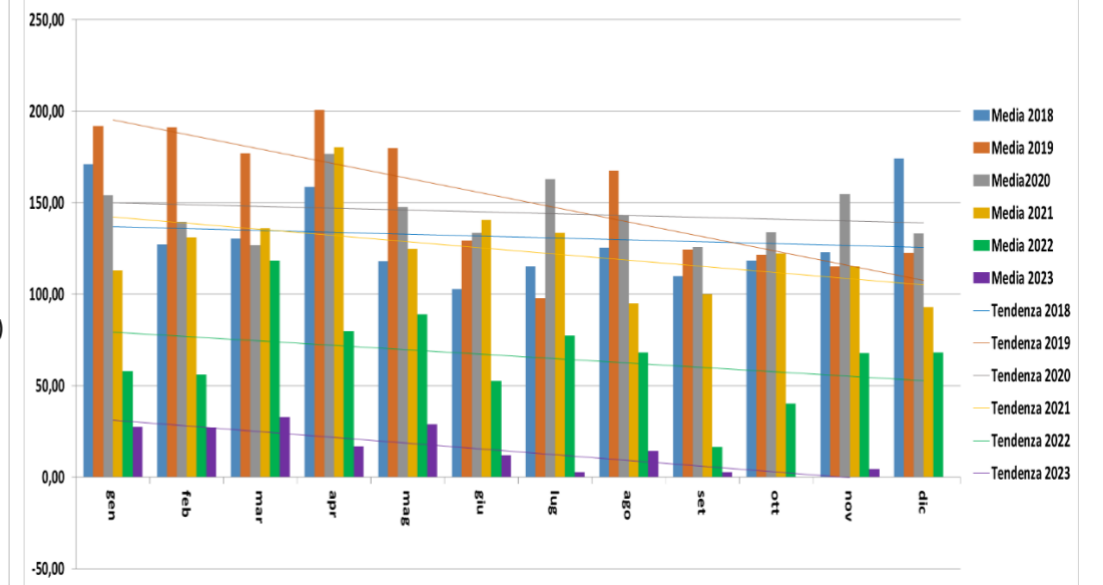
Concentrazione NOx (mg/Nm3) camino E312 Agglomerato medie mensili



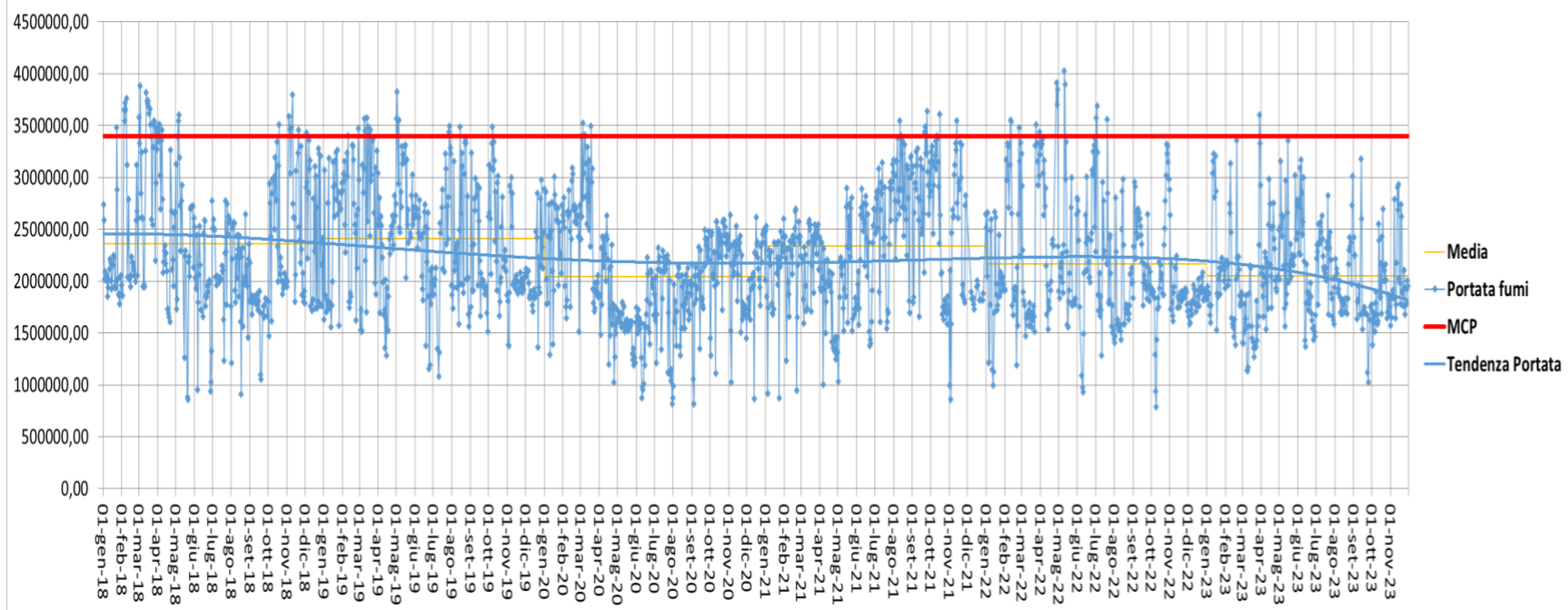
Concentrazione SOx (mg/Nm3) - Camino E312 Agglomerato



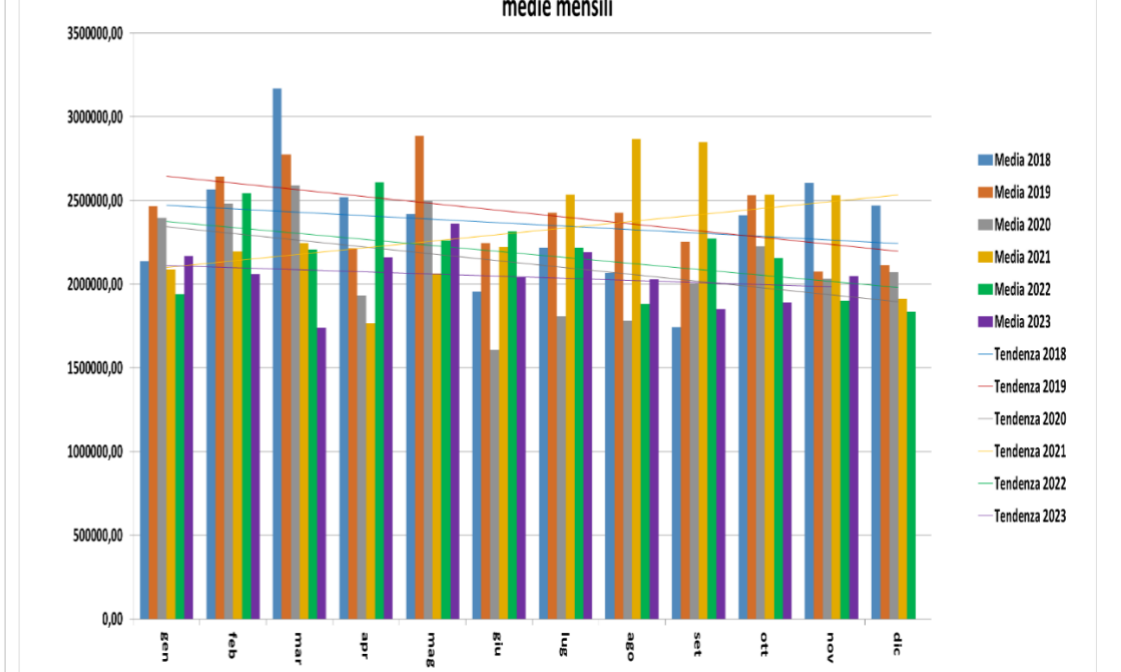
Concentrazione SOx (mg/Nm3) camino E312 Agglomerato medie mensili



Portata fumi (Nm3/h) - Camino E312 Agglomerato

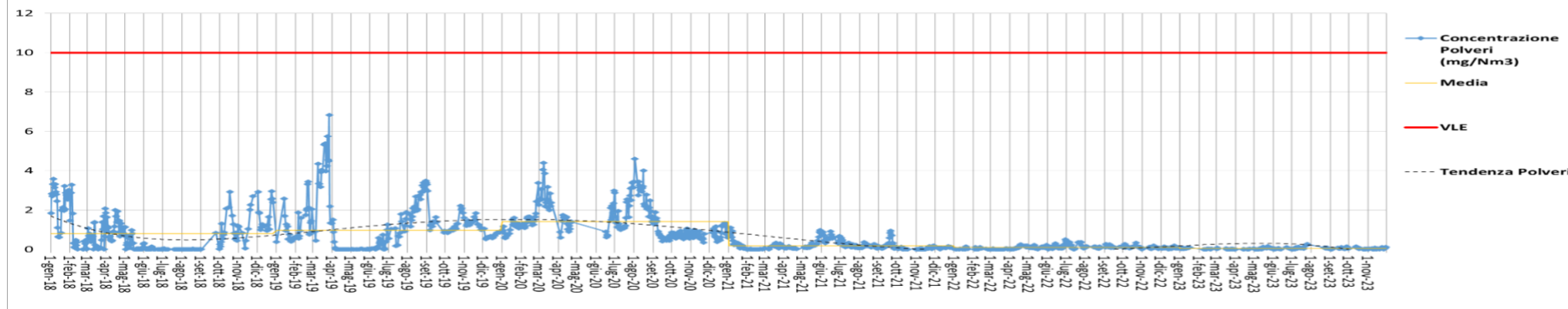


Portata fumi (Nm3/h) camino E312 Agglomerato medie mensili

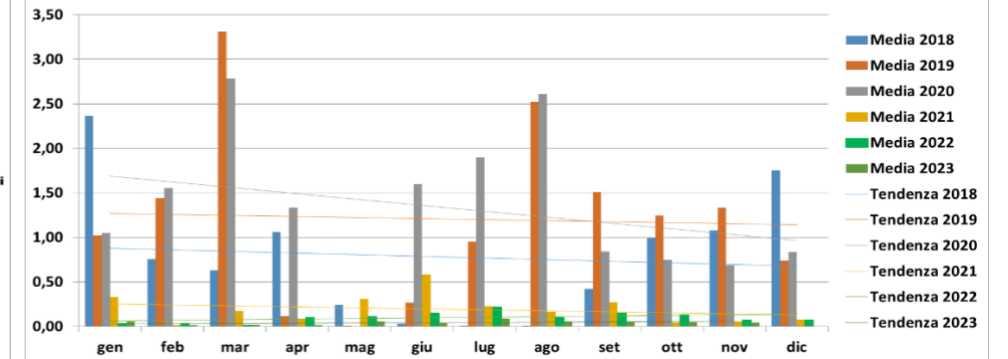


Camino E314b

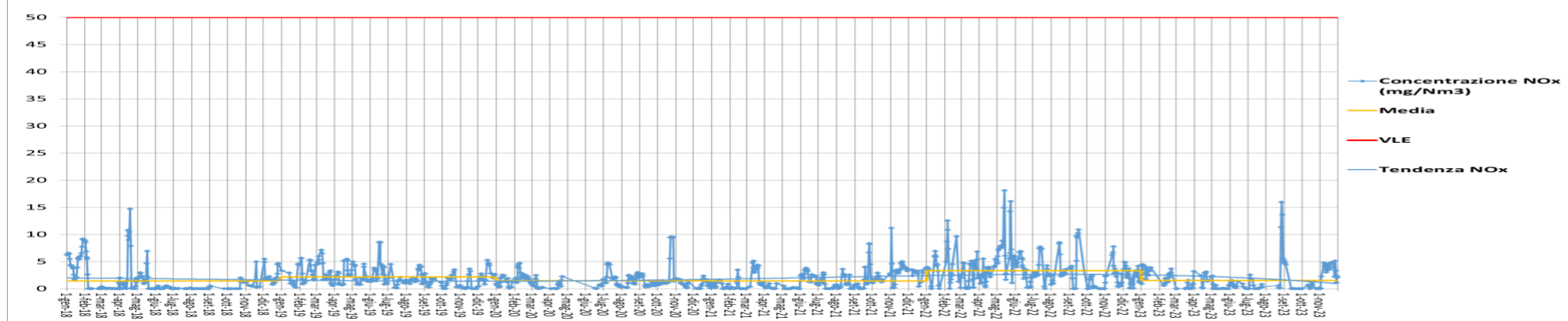
Concentrazione polveri mg/Nm3 camino E314b Agglomerato



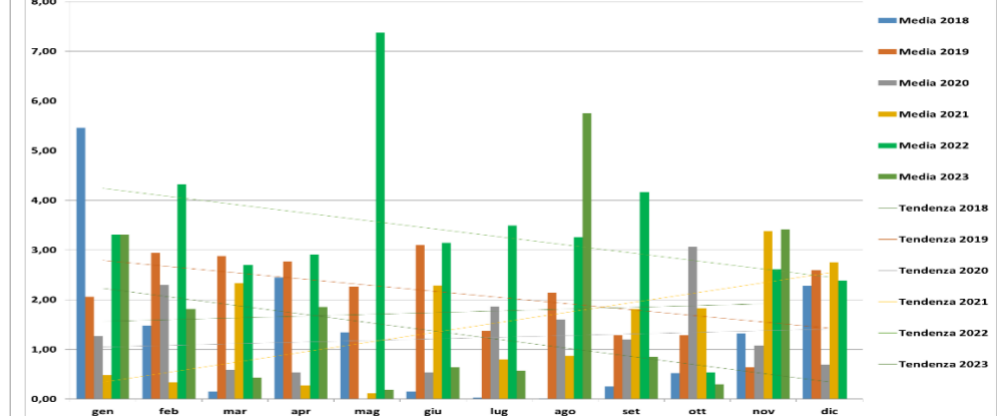
Concentrazione polveri mg/Nm3 camino E314b Agglomerato medie mensili



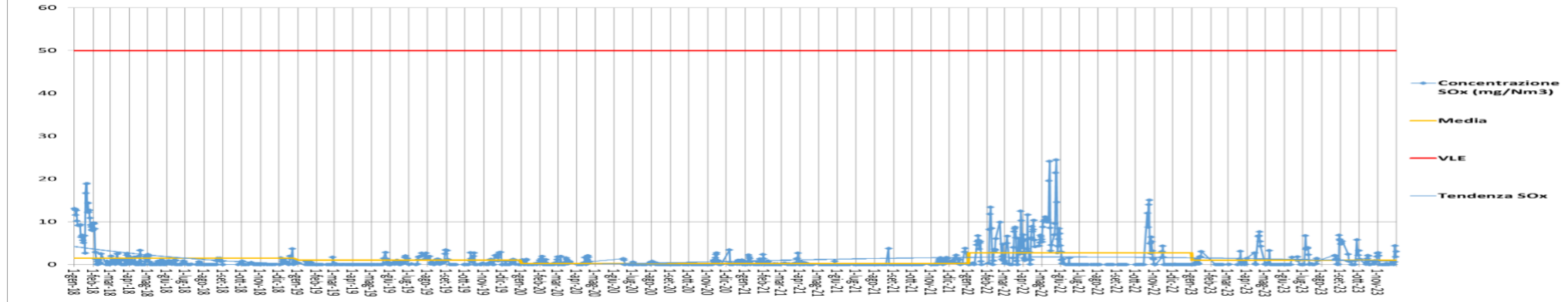
Concentrazione NOx (mg/Nm3) camino E314b Agglomerato



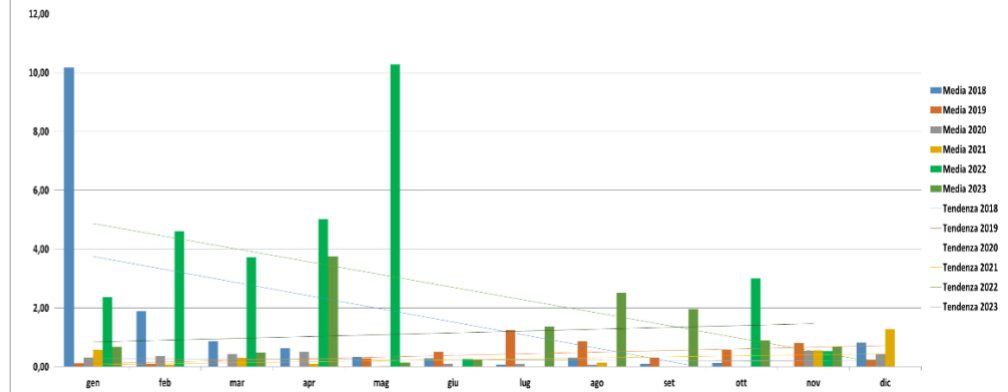
Concentrazione NOx mg/Nm3 camino E314b Agglomerato medie mensili



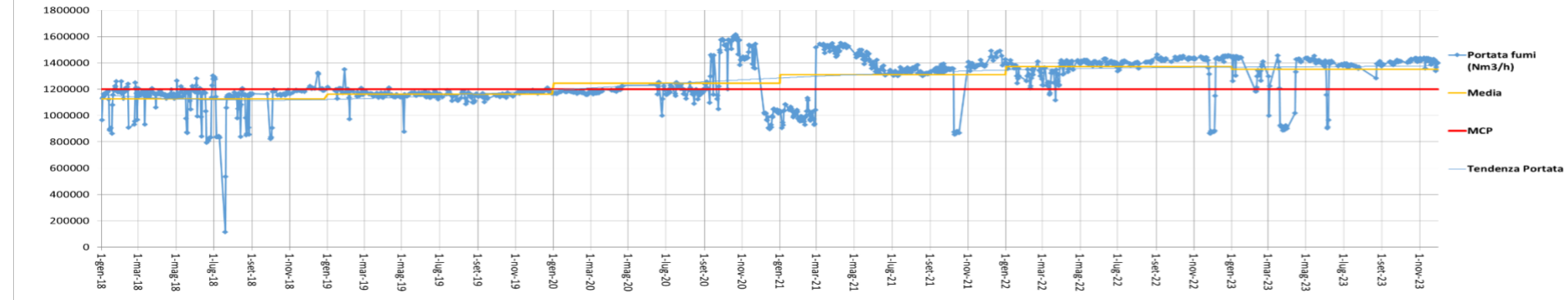
Concentrazione SOx (mg/Nm3) camino E314b Agglomerato



Concentrazione SOx mg/Nm3 camino E314b Agglomerato medie mensili



Portata fumi Nm3/h camino E314b Agglomerato

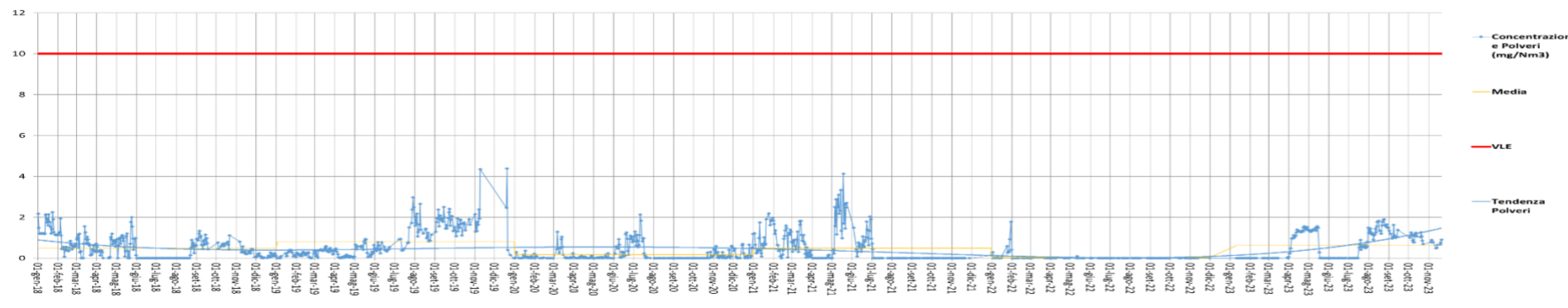


Portata fumi Nm3/h camino E314b Agglomerato medie mensili

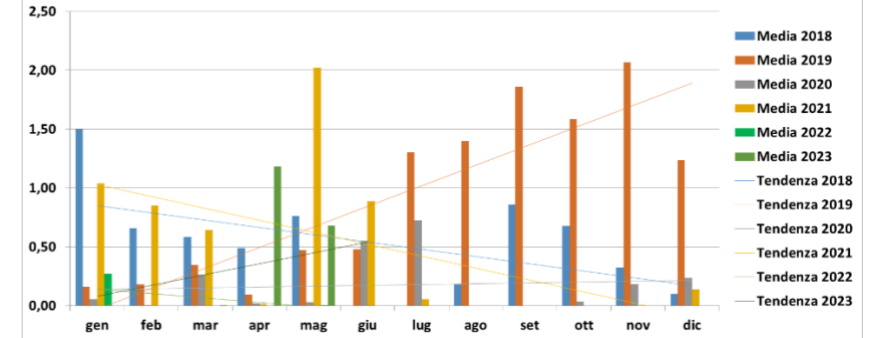


Camino E315b

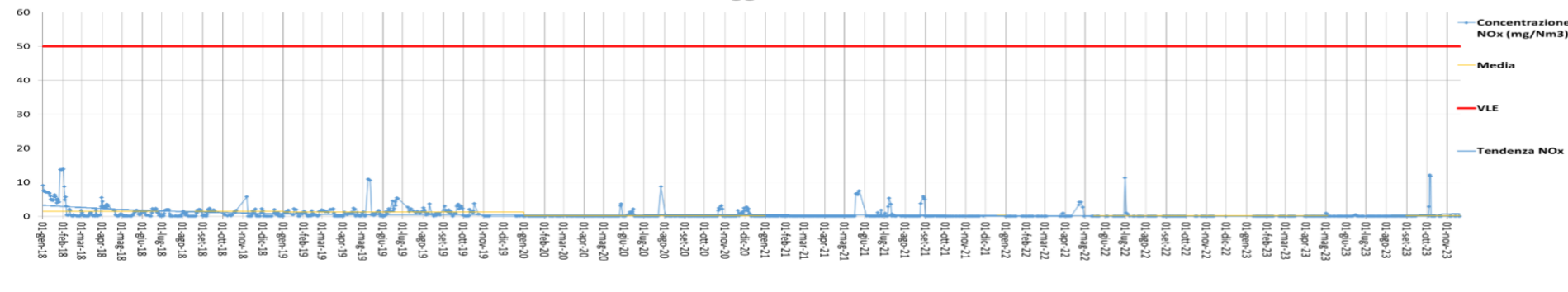
Concentrazione polveri (mg/Nm³) camino E315b Agglomerato



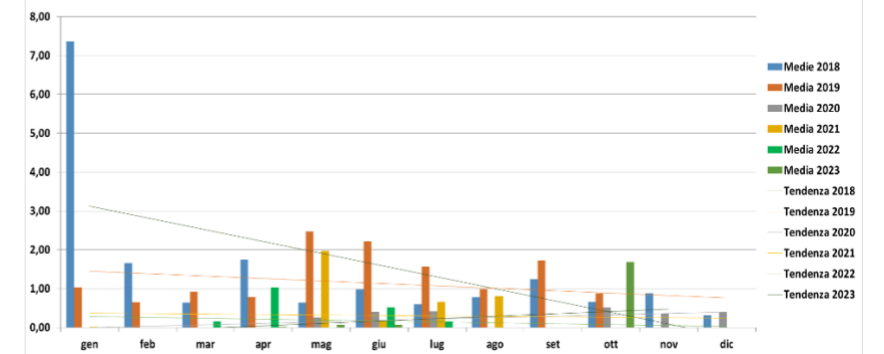
Concentrazione polveri (mg/Nm³) camino E315b Agglomerato medie mensili



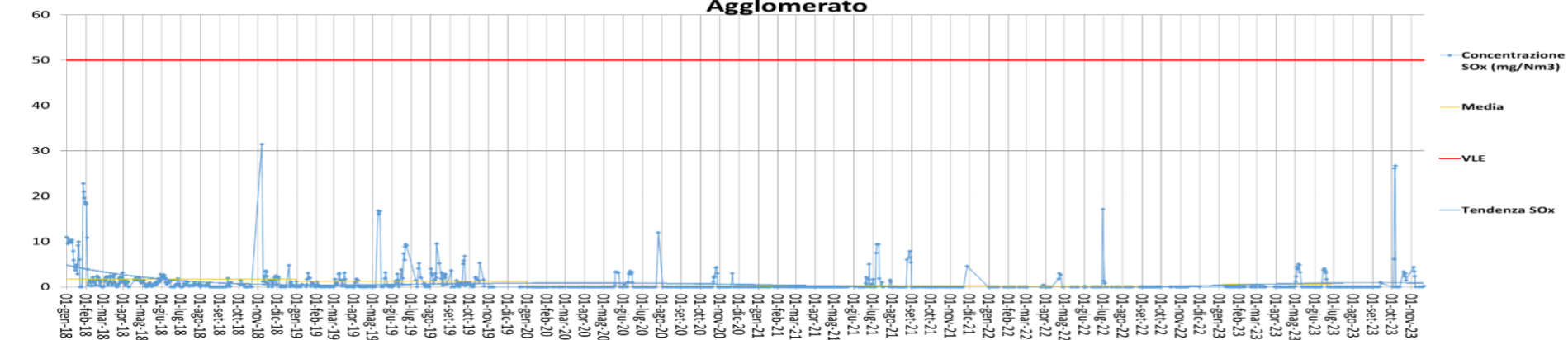
Concentrazione NOx (mg/Nm³) camino E315b Agglomerato



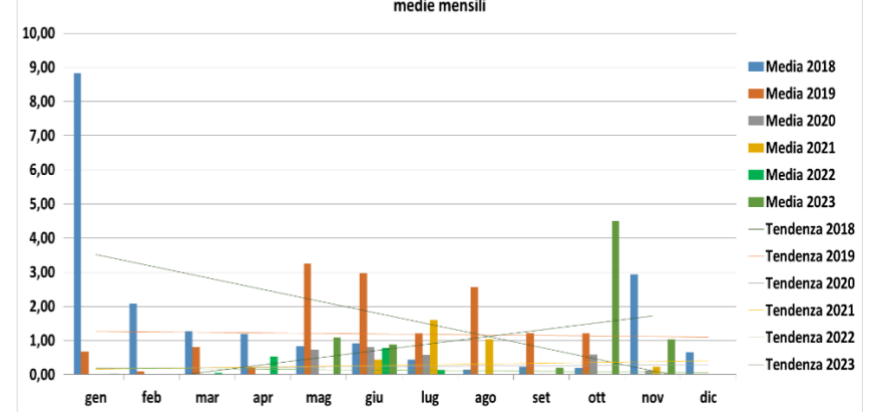
Concentrazione NOx (mg/Nm³) camino E315b Agglomerato medie mensili



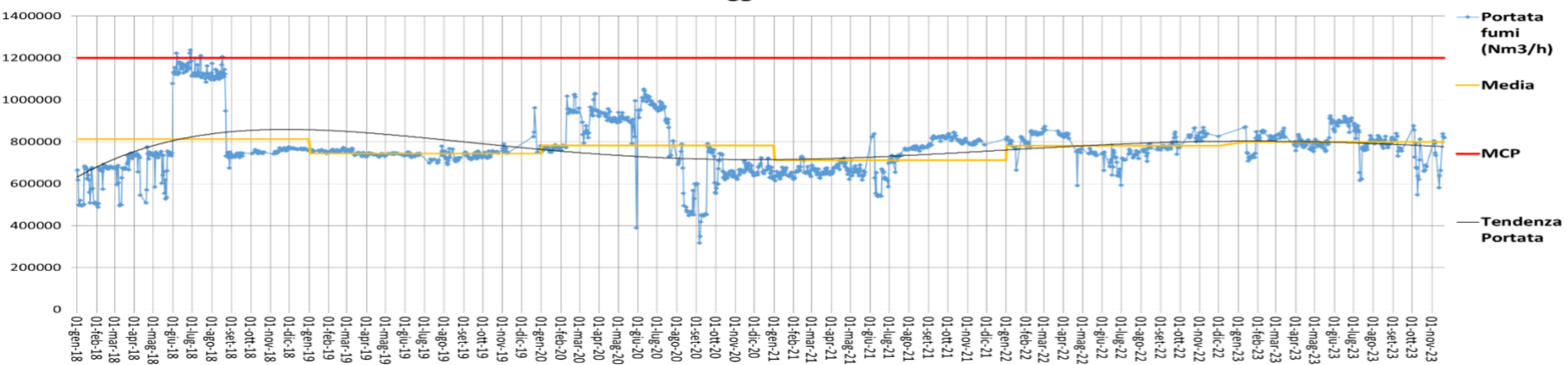
Concentrazione SOx (mg/Nm³) camino E315b Agglomerato



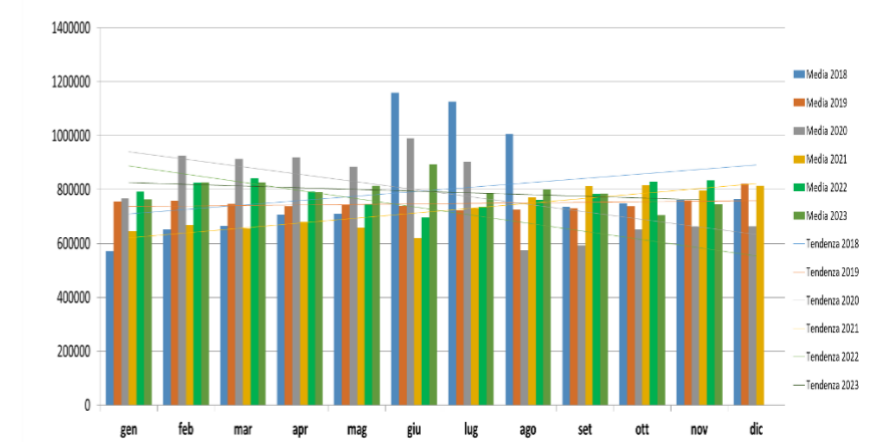
Concentrazione SOx (mg/Nm³) camino E315b Agglomerato medie mensili



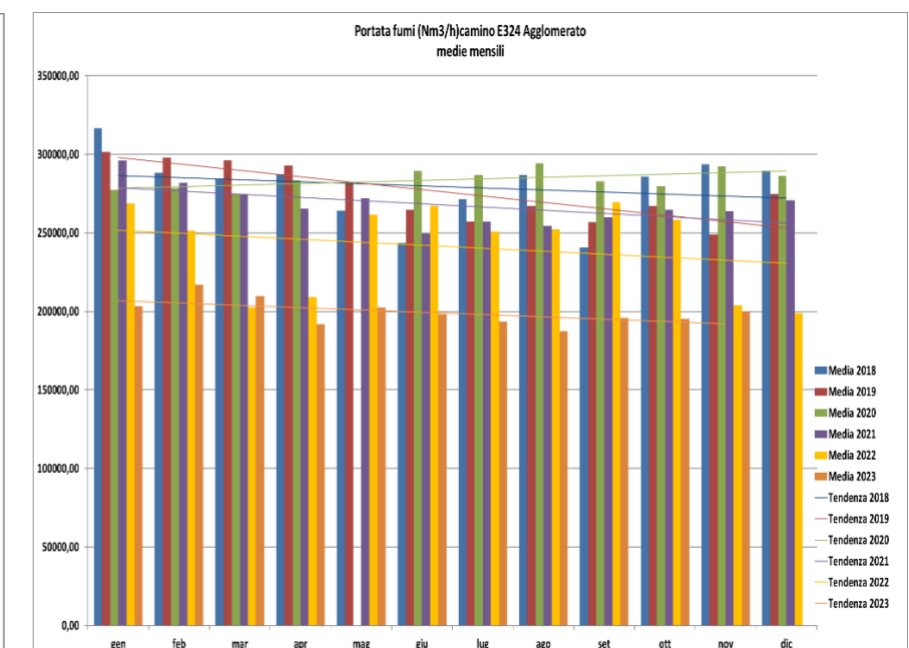
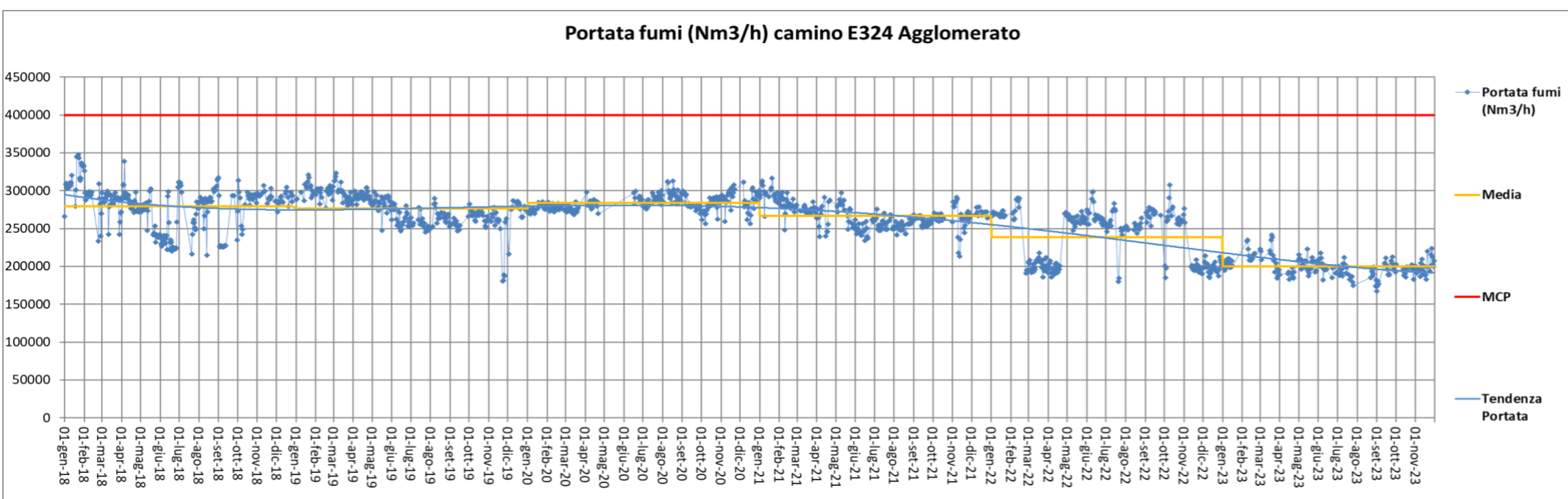
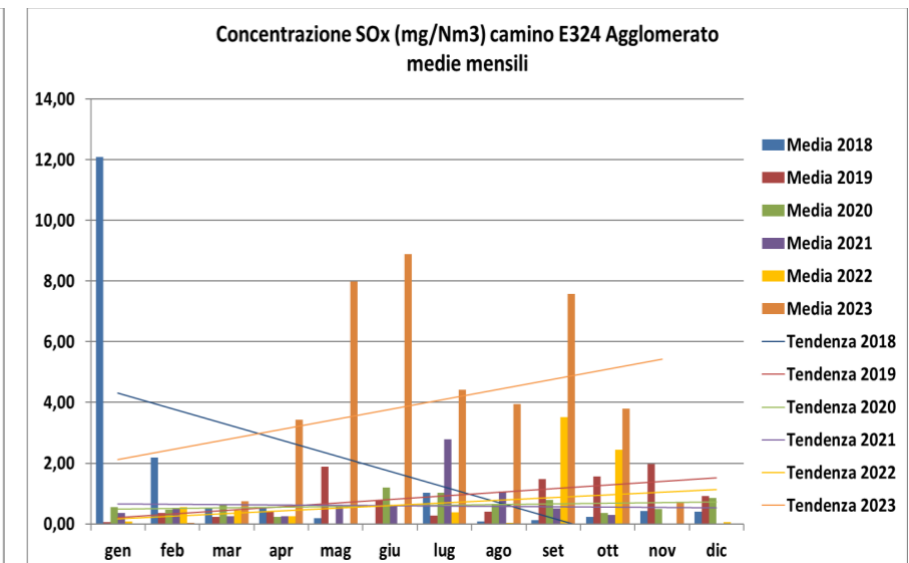
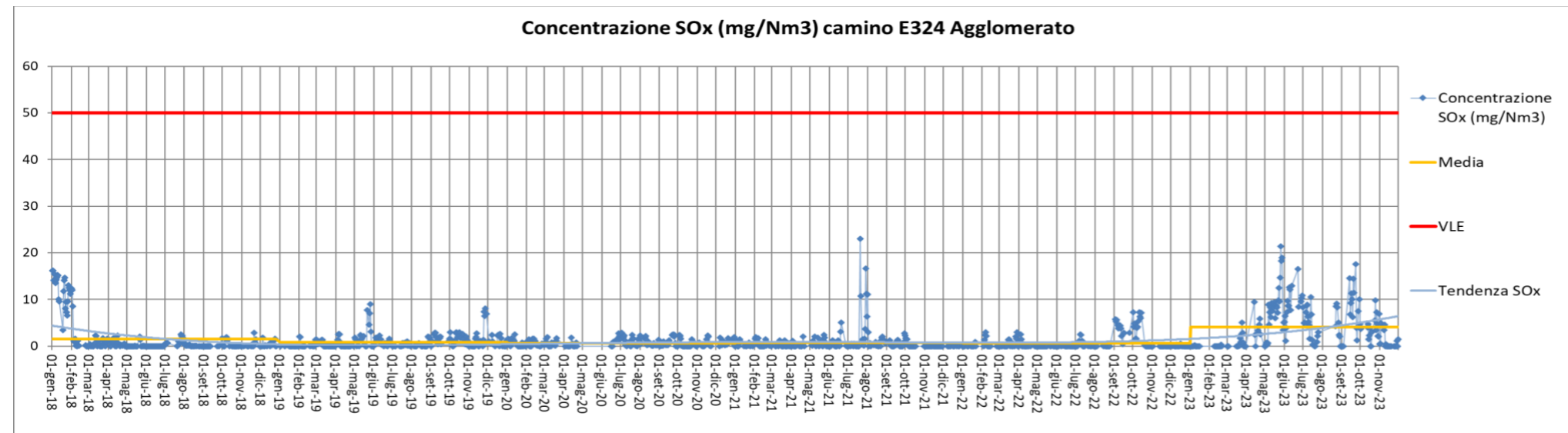
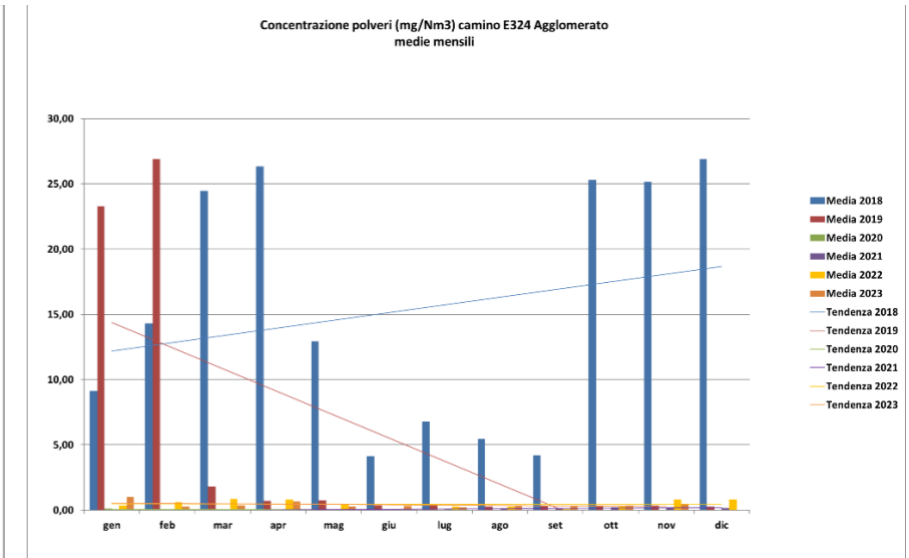
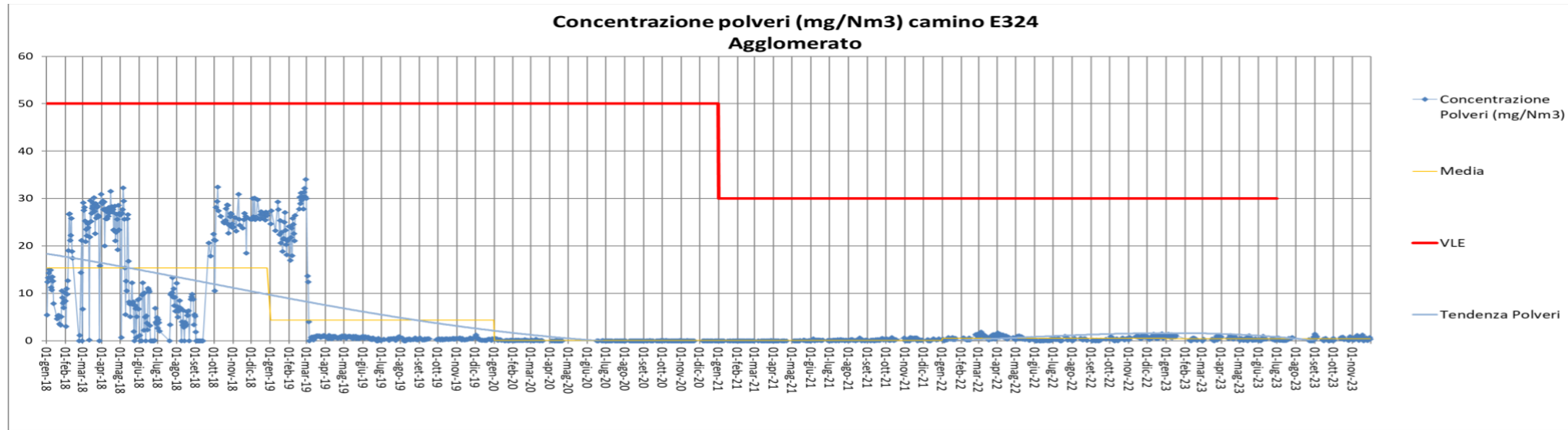
Portata fumi (Nm³/h) camino E315b Agglomerato



Portata fumi (Nm³/h) camino E315b Agglomerato medie mensili



Camino E324



Camino E325

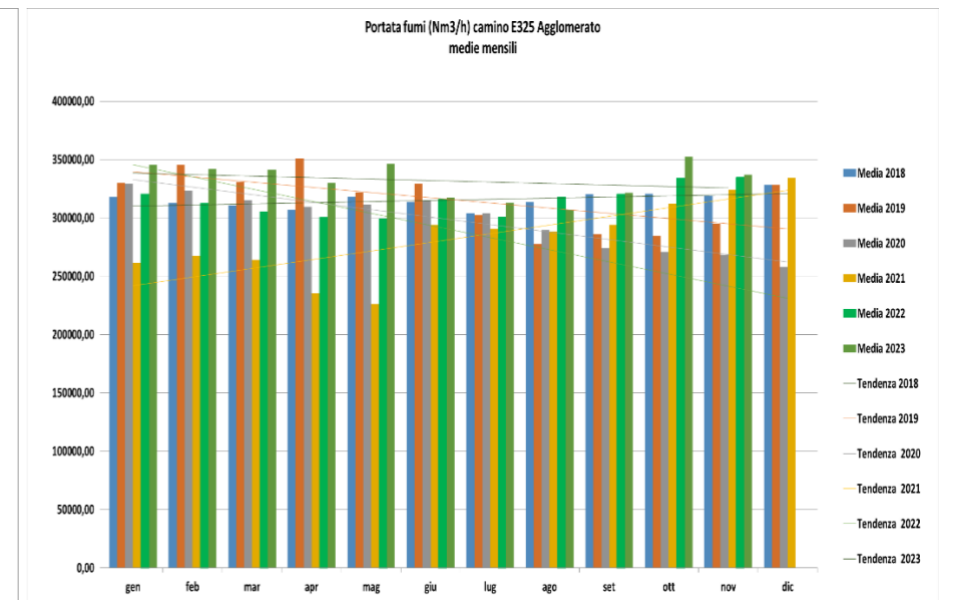
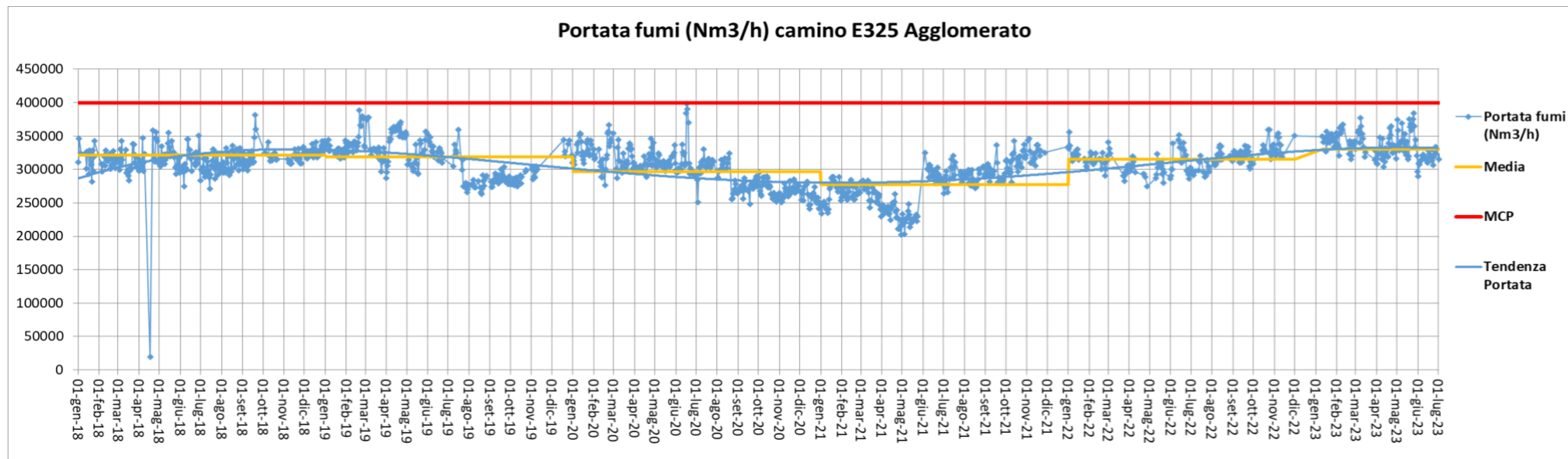
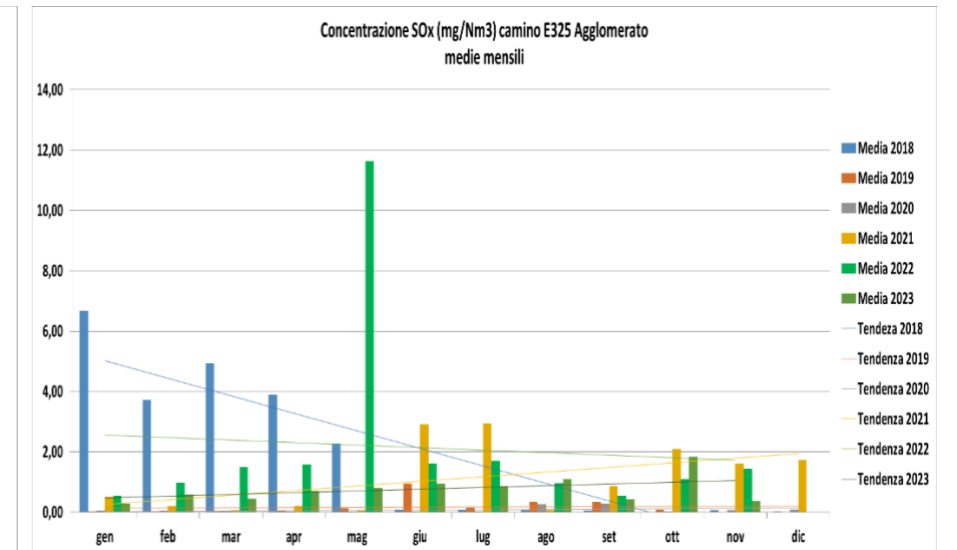
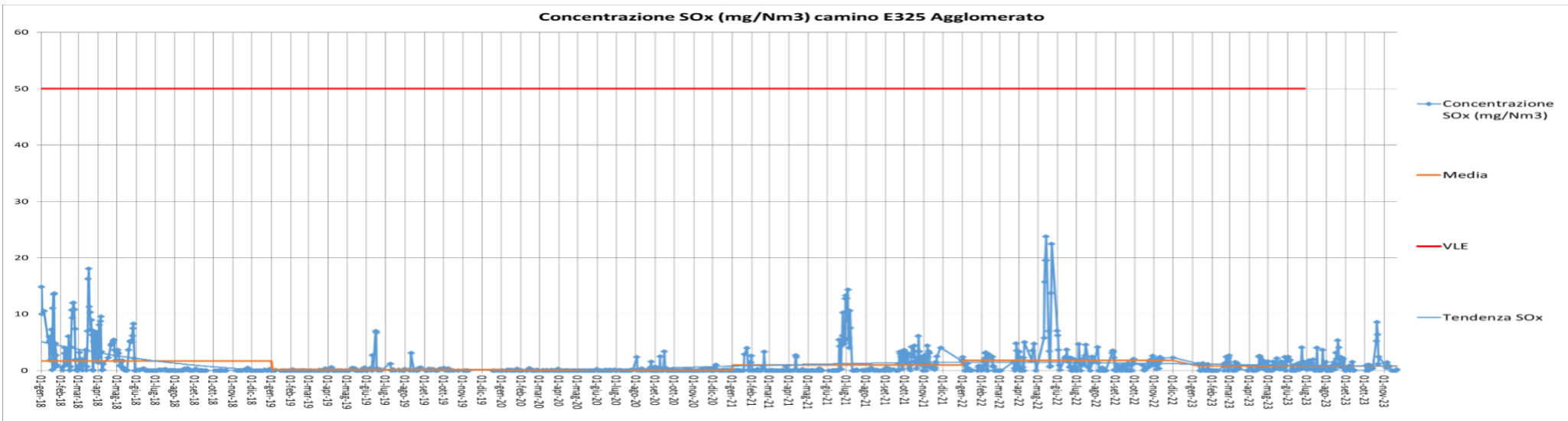
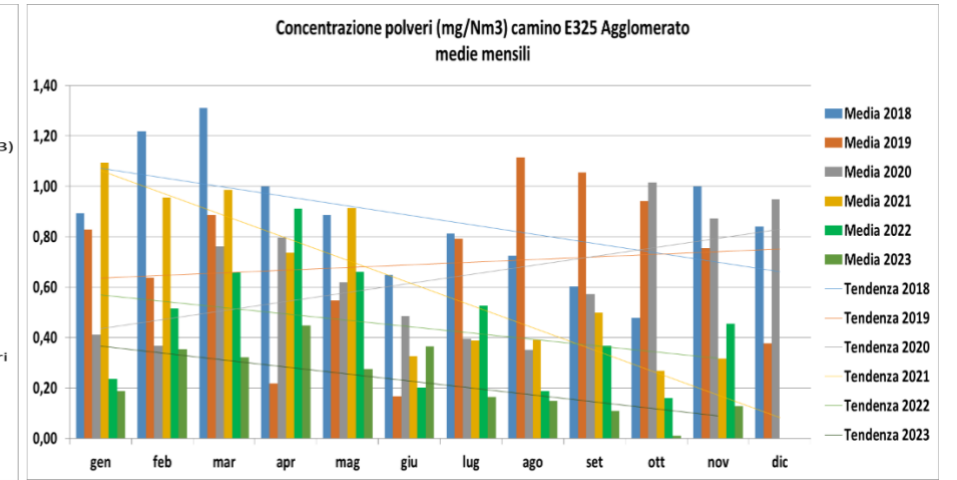
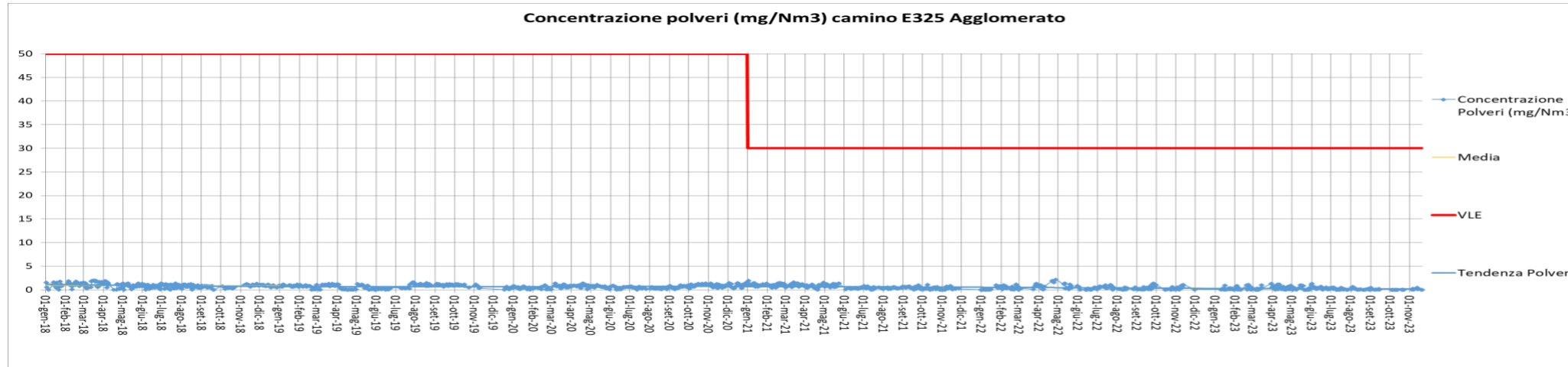
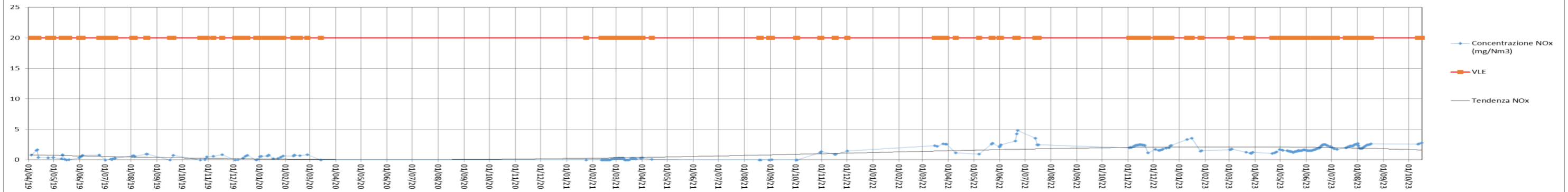


TAVOLA 3 - Camini Acciaieria (ACC)

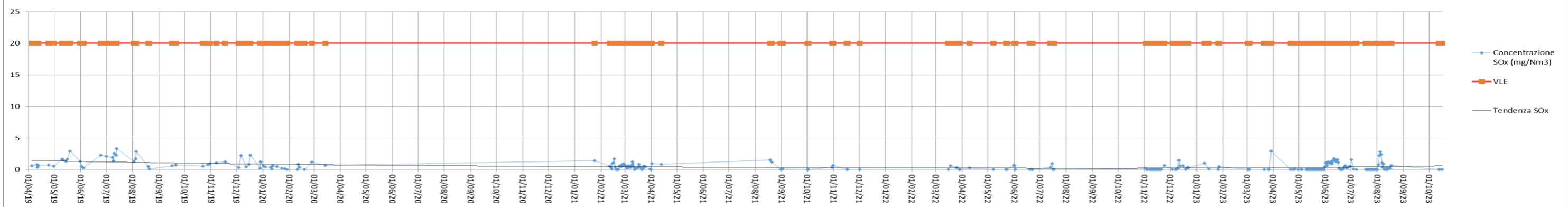
E525, E525B, E551B, E551C

Camino E525

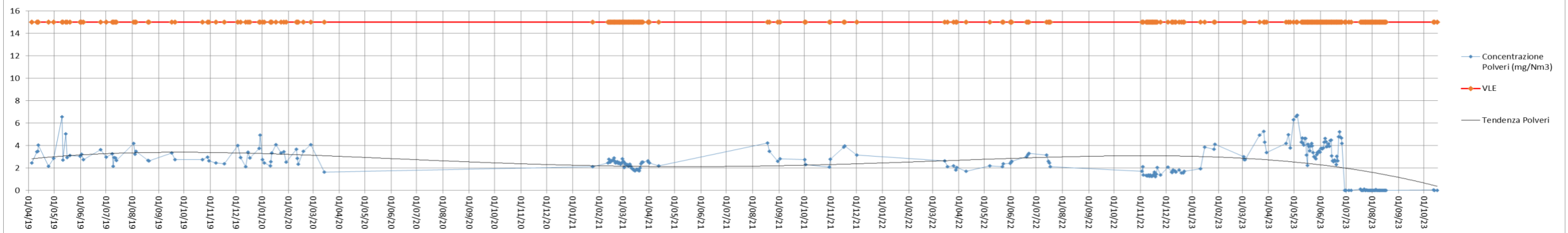
Concentrazione NOx (mg/Nm3) camino E525



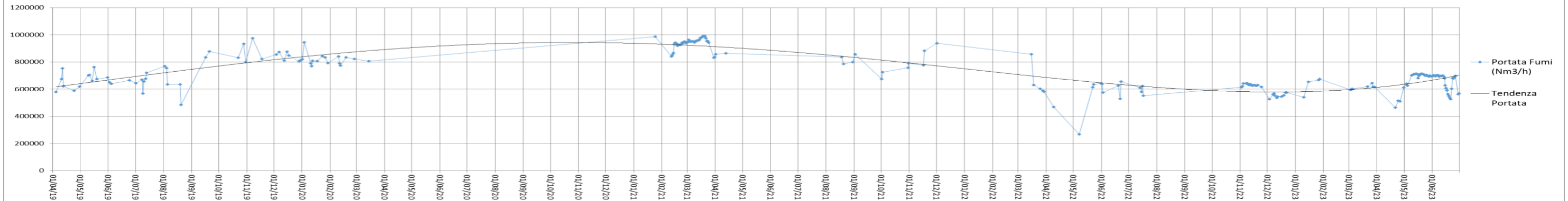
Concentrazione SOx (mg/Nm3) camino E525



Concentrazione Polveri (mg/Nm3) camino E525

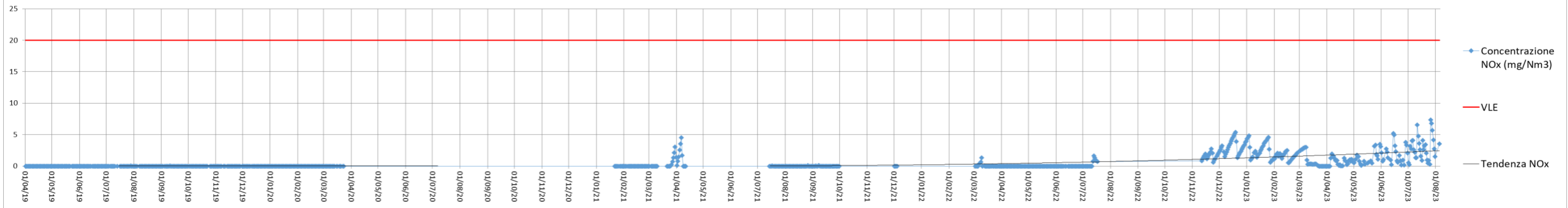


Portata Fumi (Nm3/h) camino E525

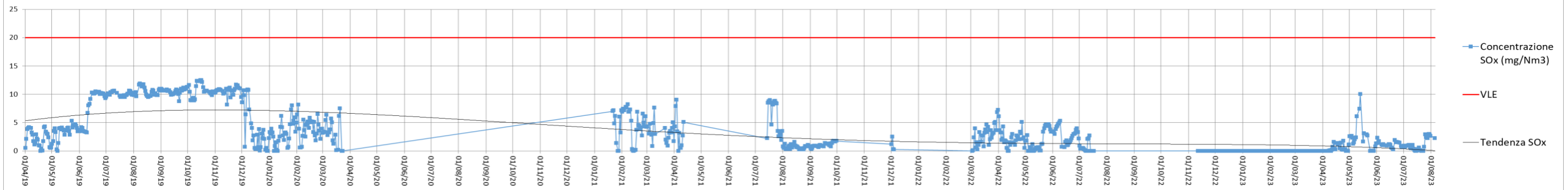


Camino E525B

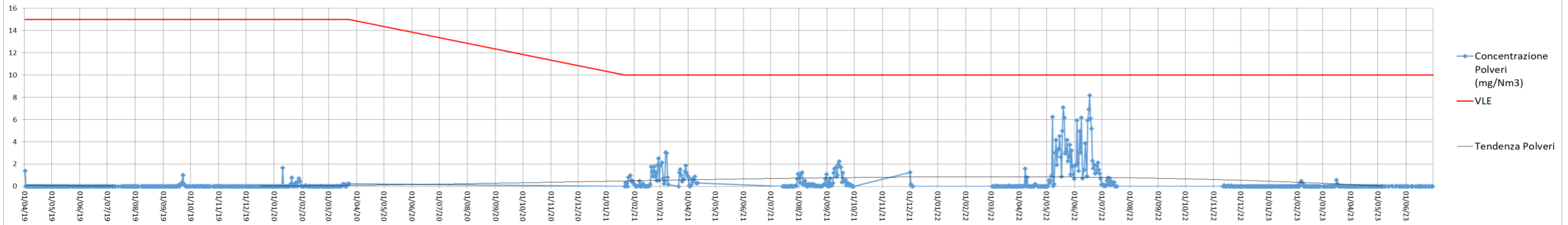
Concentrazione NOx (mg/Nm3) camino E525B



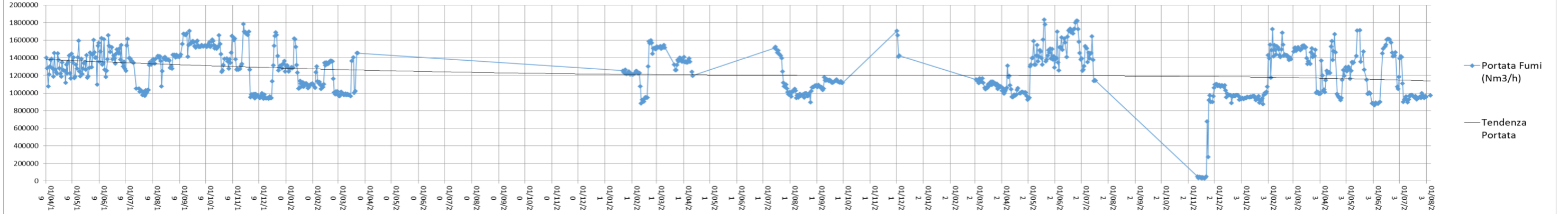
Concentrazione SOx (mg/Nm3) camino E525B



Concentrazione Polveri (mg/Nm3) camino E525B

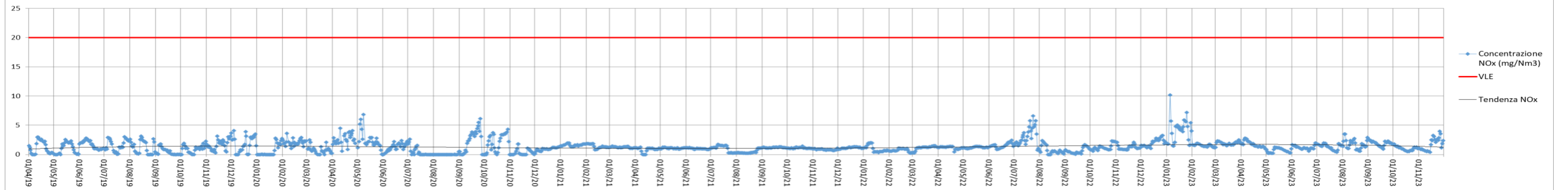


Portata Fumi (Nm3/h) camino E525B

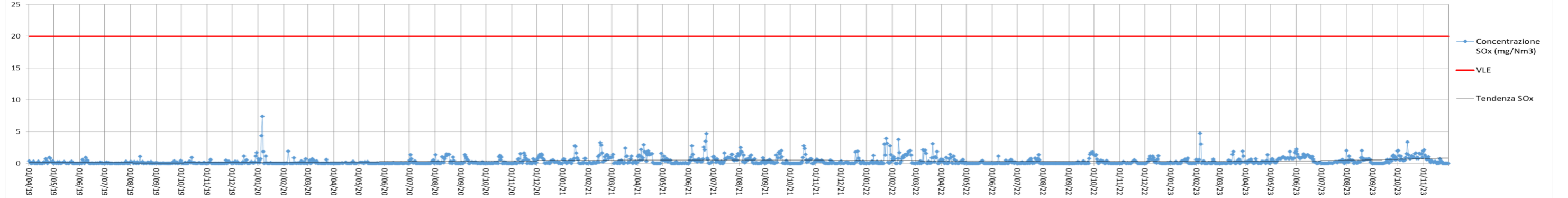


Camino E551B

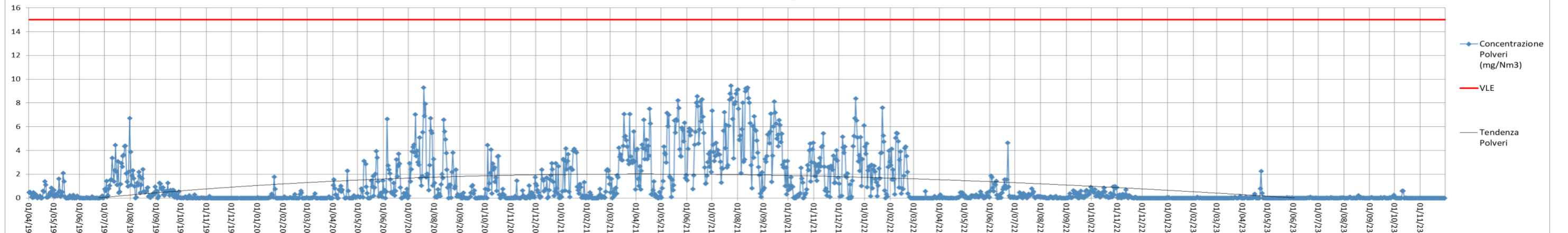
Concentrazione NOx (mg/Nm3) camino E551B



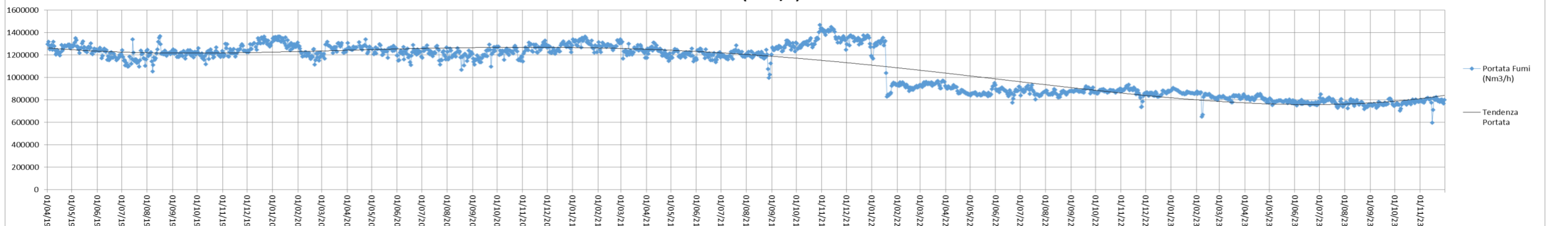
Concentrazione SOx (mg/Nm3) camino E551B



Concentrazione Polveri (mg/Nm3) camino E551B

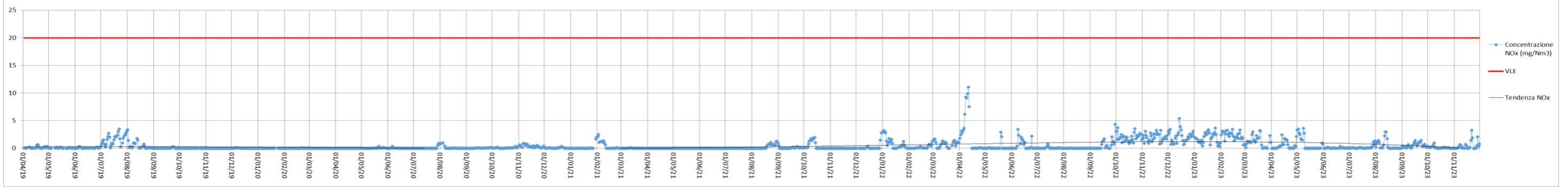


Portata Fumi (Nm3/h) camino E551B

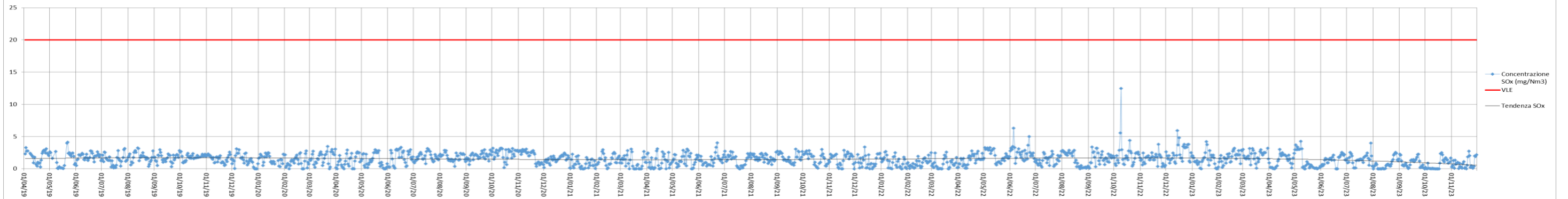


Camino E551C

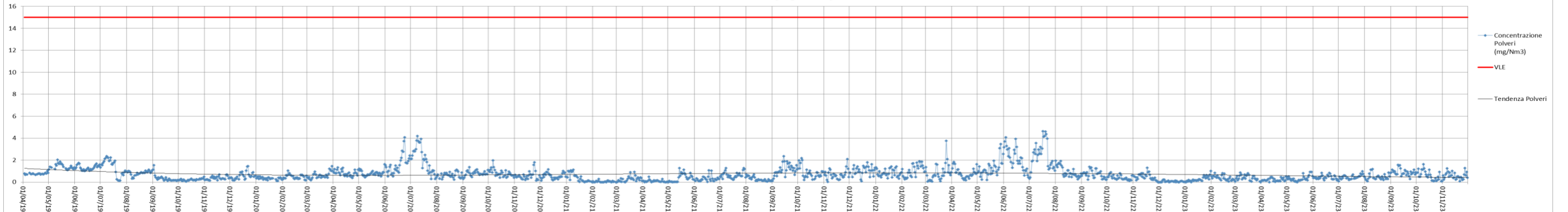
Concentrazione NOx (mg/Nm3) camino E551C



Concentrazione SOx (mg/Nm3) camino E551C



Concentrazione Polveri (mg/Nm3) camino E551C



Portata Fumi (Nm3/h) camino E551C

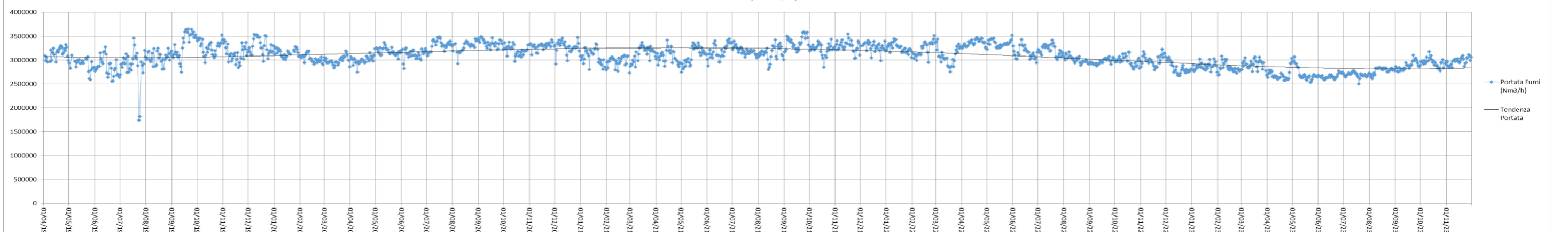
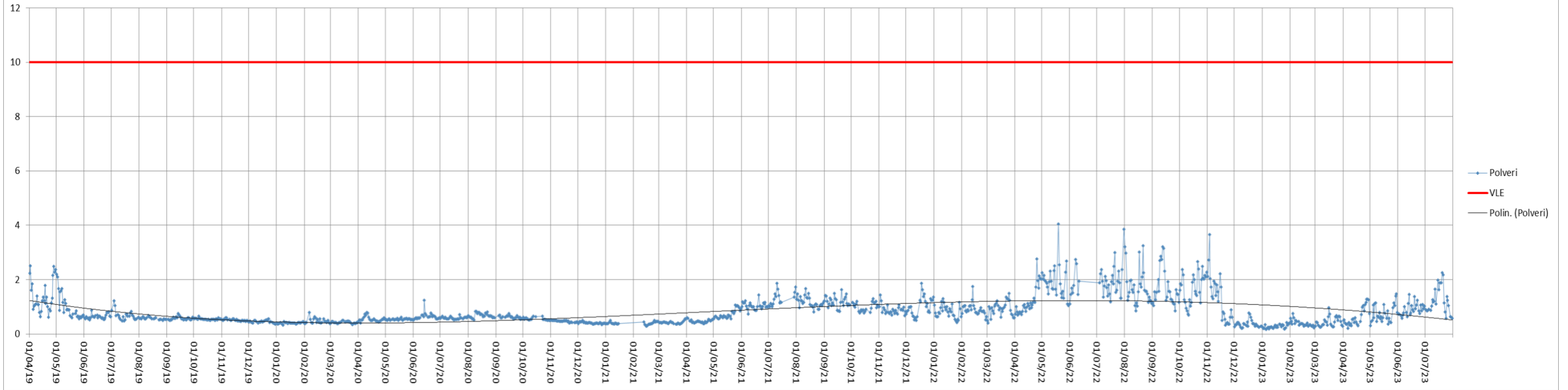


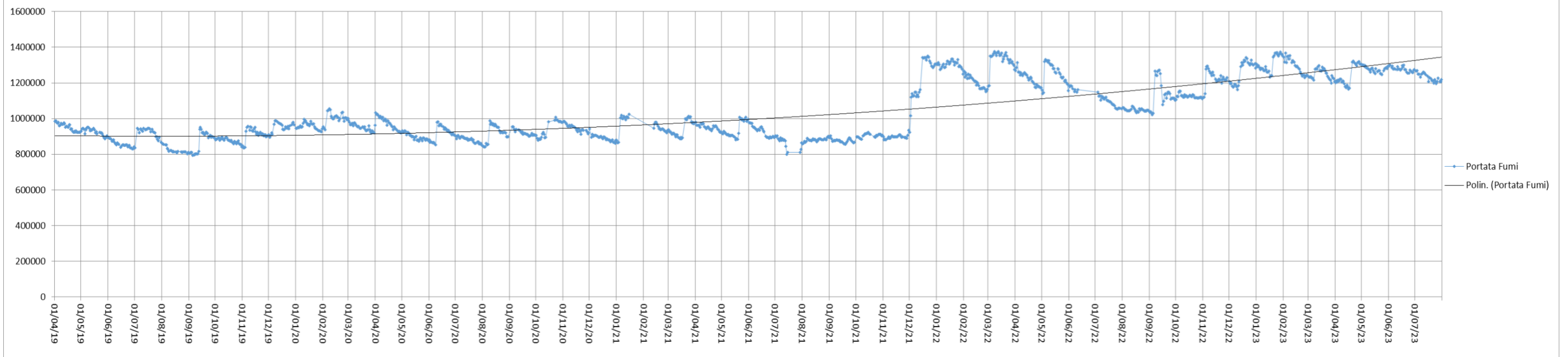
TAVOLA 4 - Camini Altoforno (AFO)
E102B, E103B, E109, E111, E112, E114, E134, E135, E137

Camino E102B

Polveri (mg/Nm3) camino E102B

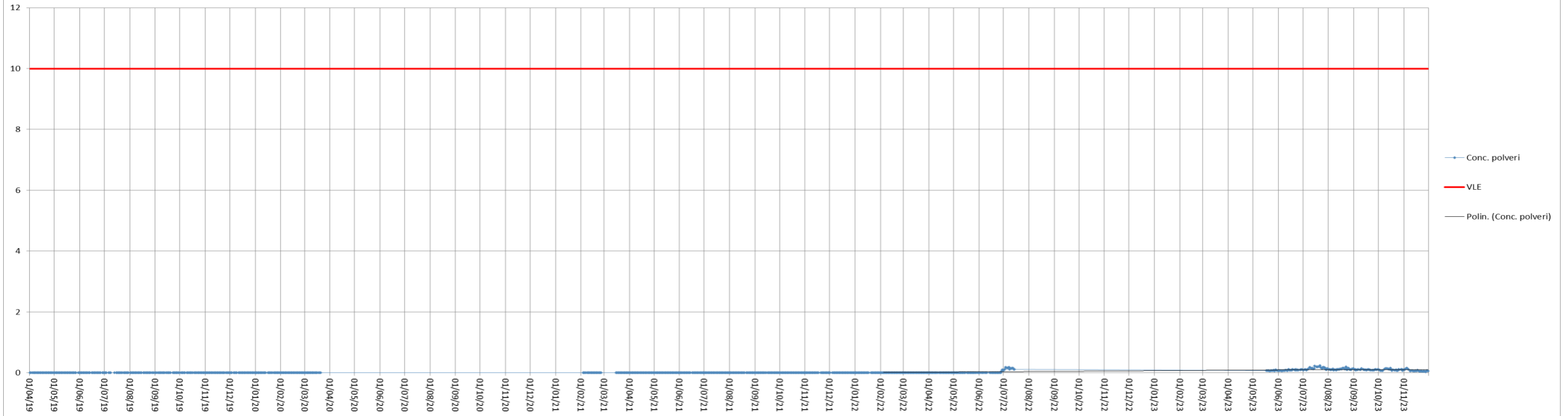


Portata Fumi (Nm3/h) camino E102B

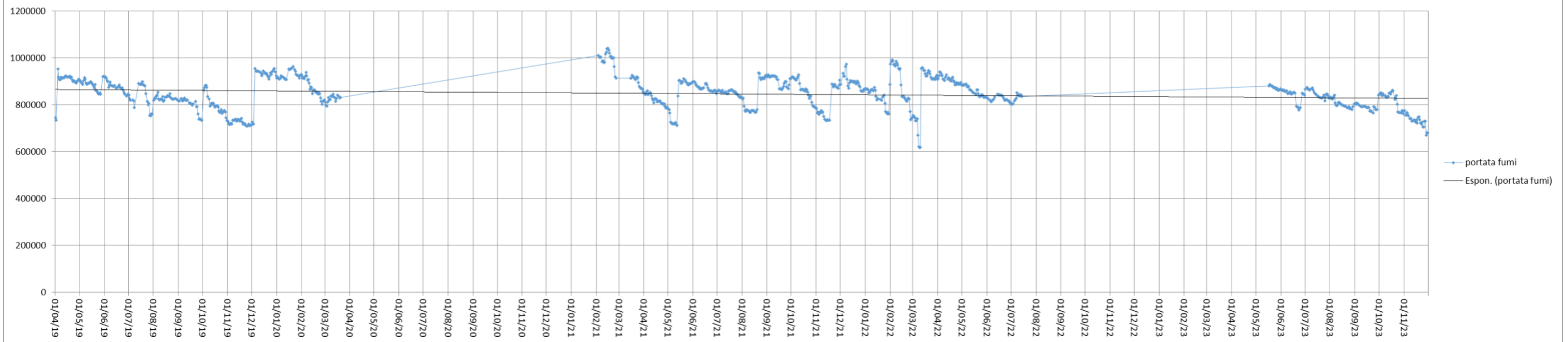


Camino E103B

Polveri (mg/Nm3) camino E103B

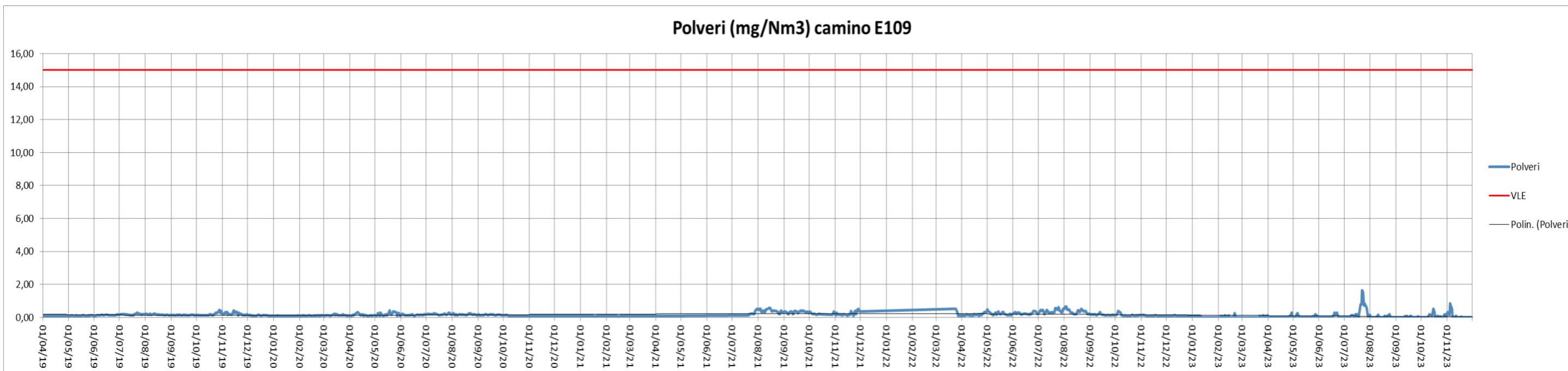


Portata Fumi (Nm3/h) camino E103B

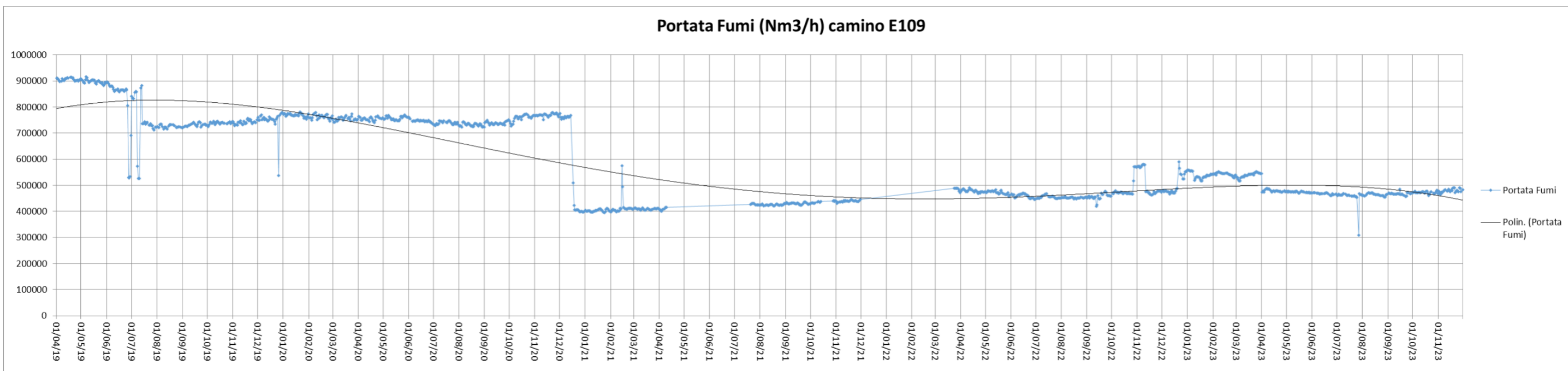


Camino E109

Polveri (mg/Nm3) camino E109

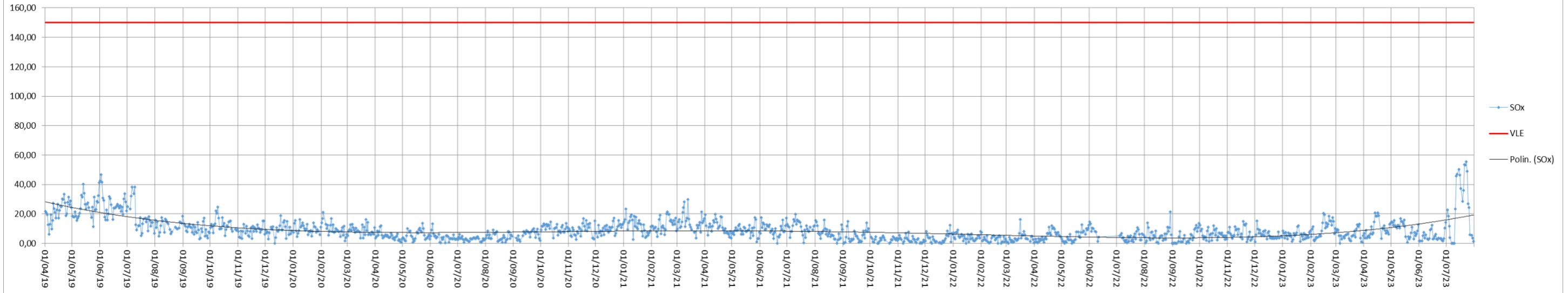


Portata Fumi (Nm3/h) camino E109

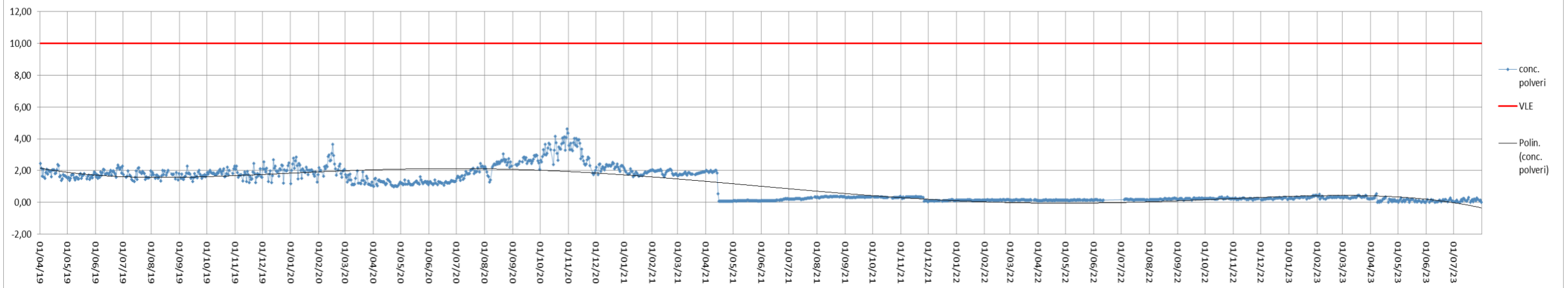


Camino E111

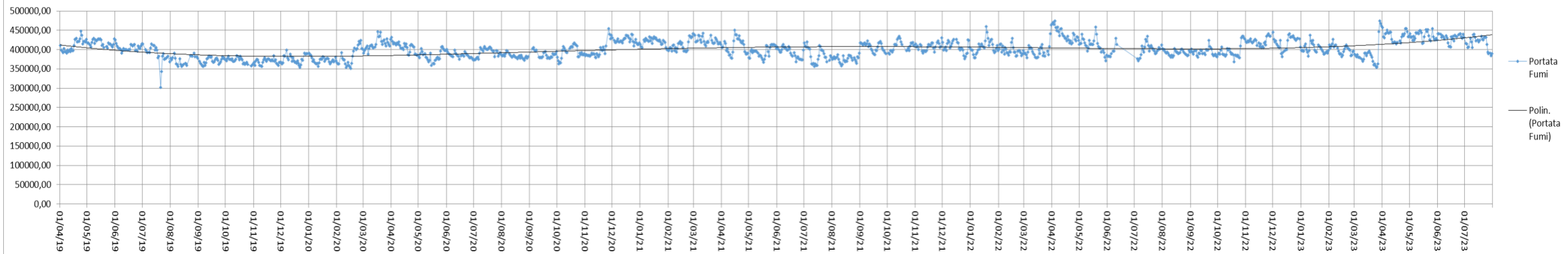
SOx (mg/Nm3) camino E111



Polveri (mg/Nm3) camino E111

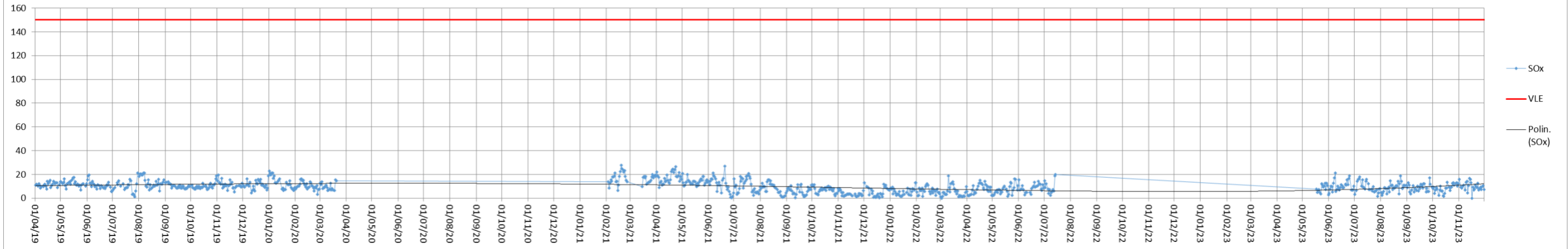


Portata Fumi (Nm3/h) camino E111

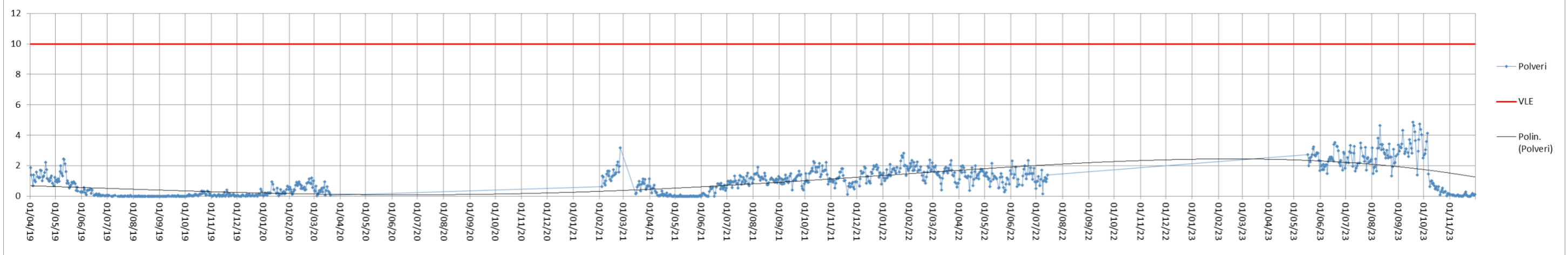


Camino E112

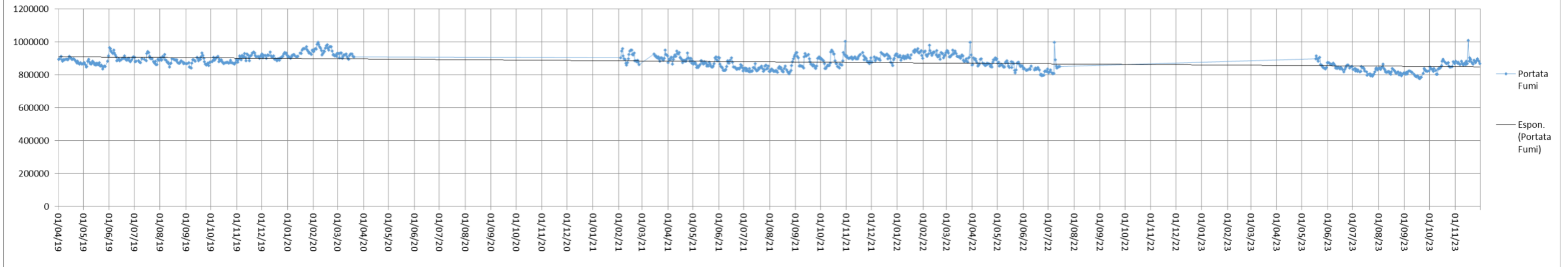
SOx (mg/Nm3) camino E112



Polveri (mg/Nm3) camino E112

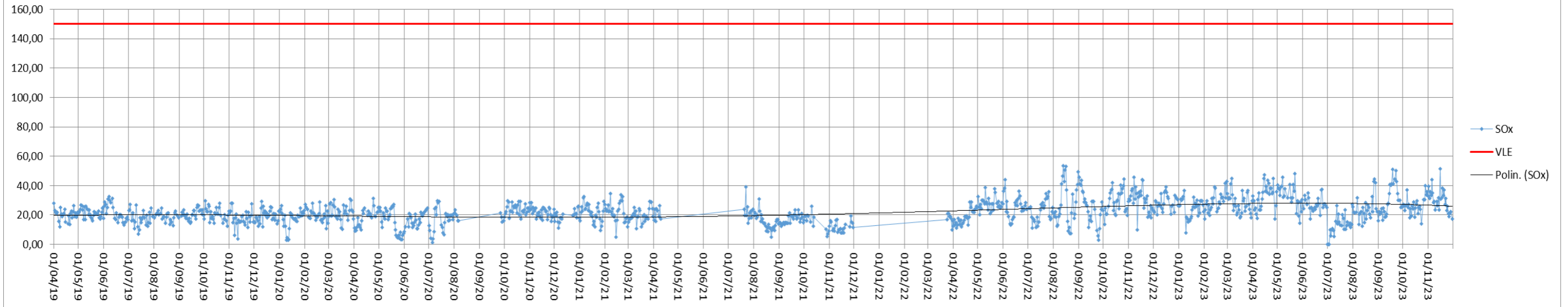


Portata Fumi (Nm3/h) camino E112

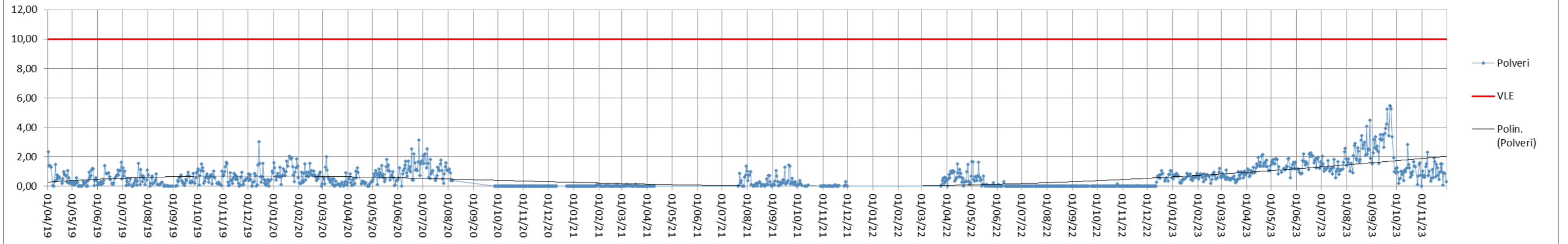


Camino E114

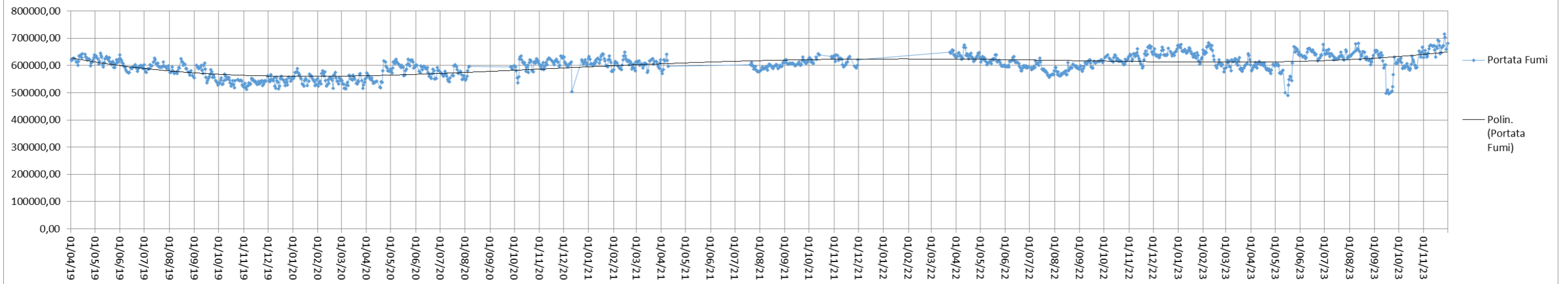
SOx (mg/Nm3) camino E114



Polveri (mg/Nm3) camino E114

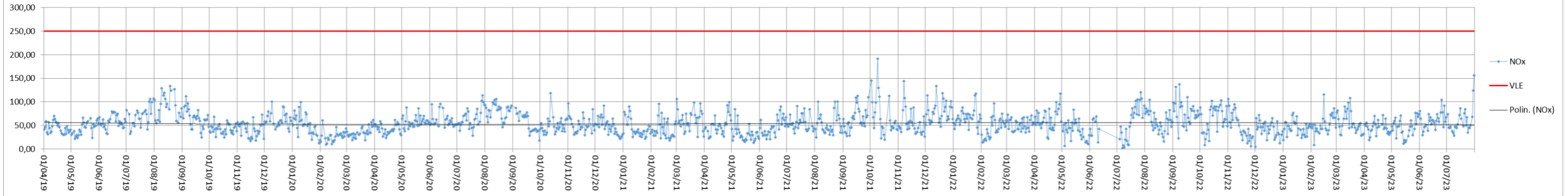


Portata Fumi (Nm3/h) camino E114

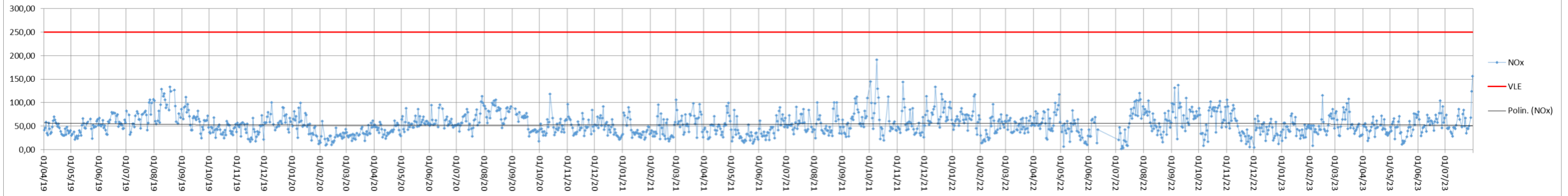


Camino E134

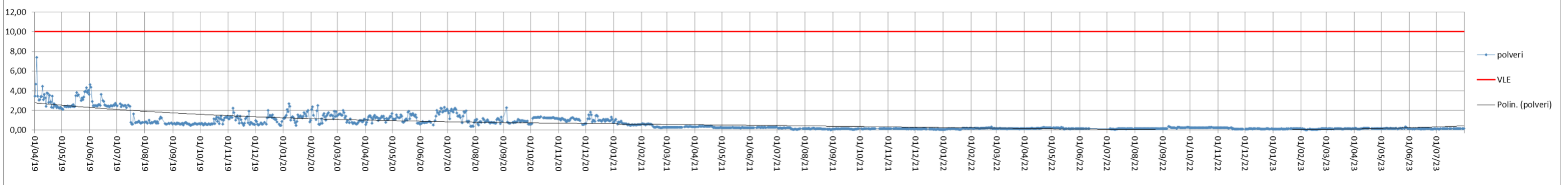
NOx (mg/Nm3) camino E134



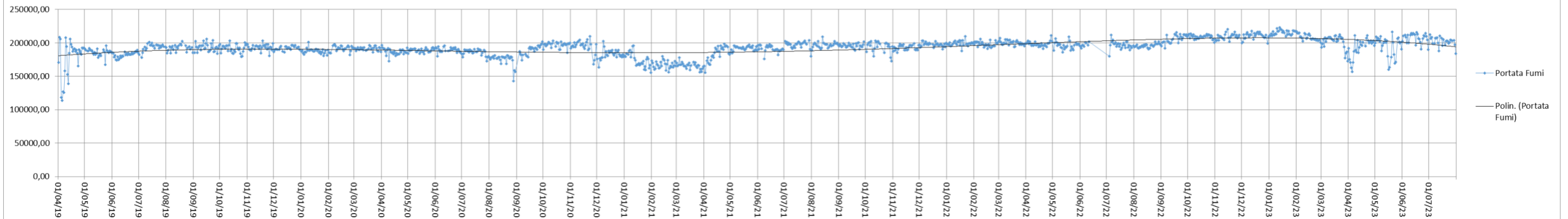
NOx (mg/Nm3) camino E134



Polveri (mg/Nm3) camino E134

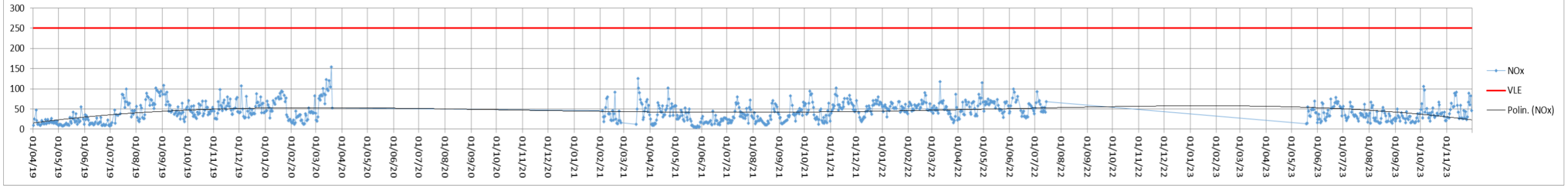


Portata Fumi (Nm3/h) camino E134

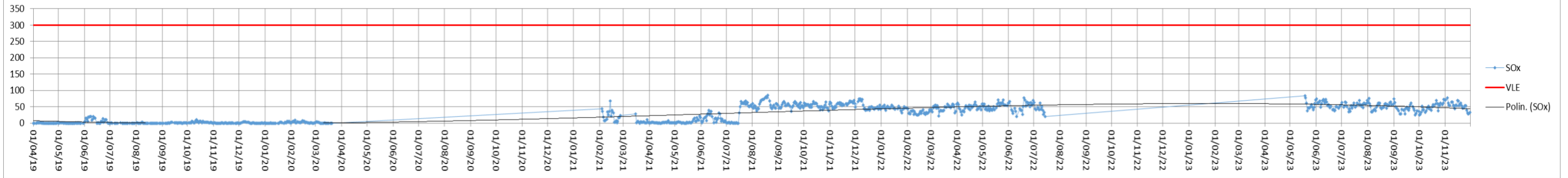


Camino E135

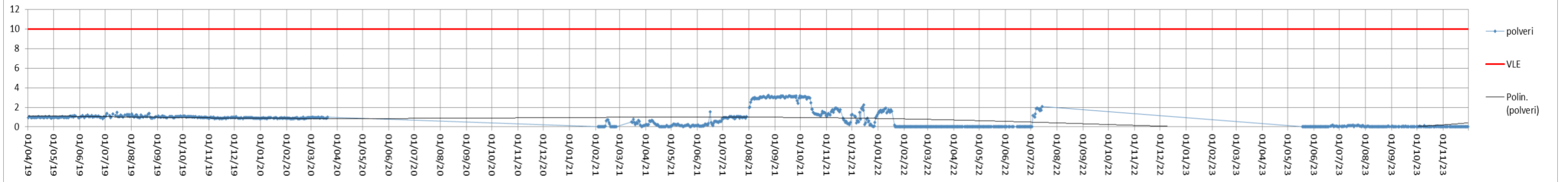
NOx (mg/Nm3) camino E135



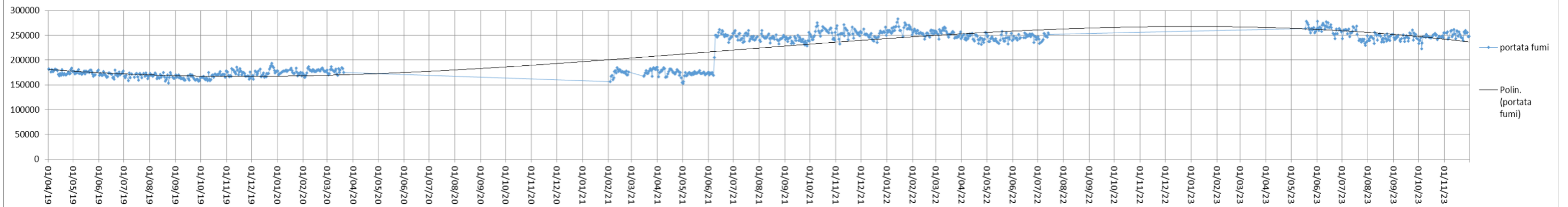
SOx (mg/Nm3) camino E135



Polveri (mg/Nm3) camino E135

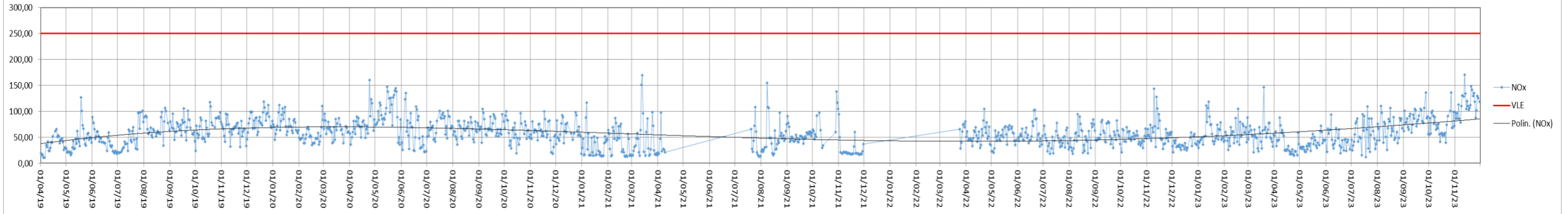


Portata Fumi (Nm3/h) camino E135

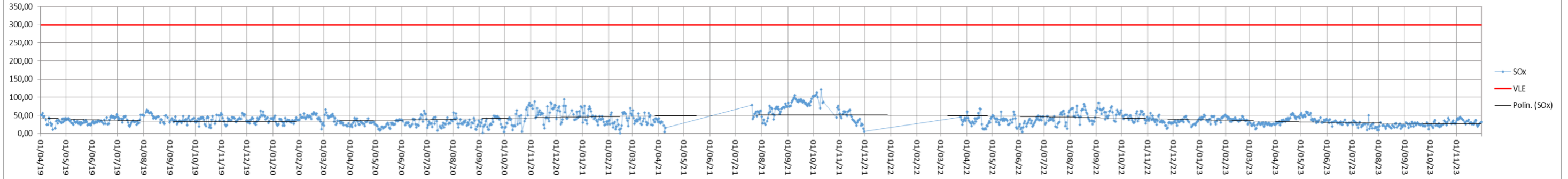


Camino E137

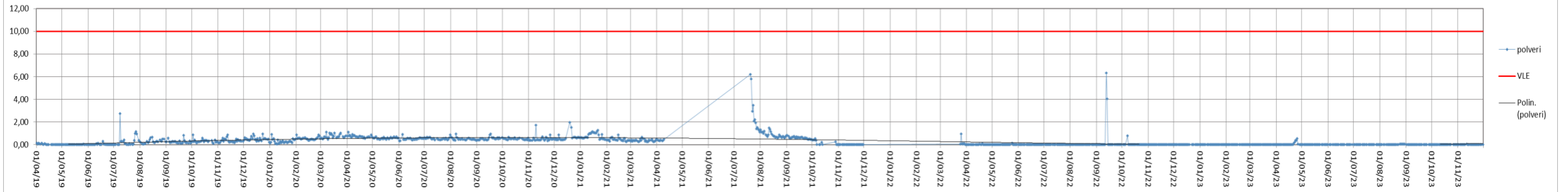
NOx (mg/Nm3) camino E137



SOx (mg/Nm3) camino E137



Polveri (mg/Nm3) camino E137



Portata Fumi (Nm3/h) camino E137

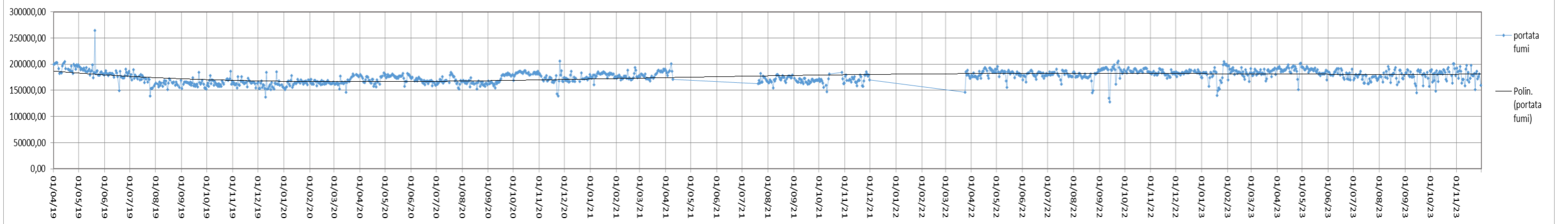


TAVOLA 5- Produzione acciaio ed emissioni diffuse totali nello stabilimento (Tabella)

IMPIANTO	Produzione (Ktonnellata/anno)						Polveri (t/anno)						IPA (BaP) (Kg/anno)						Benzene (t/anno)						PCDD/F (g/anno)						H ₂ S (t/anno)						SO ₂ (t/anno)											
	2017	2018	2019	2020	2021	2022	2017	2018	2019	2020	2021	2022	2017	2018	2019	2020	2021	2022	2017	2018	2019	2020	2021	2022	2017	2018	2019	2020	2021	2022	2017	2018	2019	2020	2021	2022	2017	2018	2019	2020	2021	2022						
	kt						t						Kg						t						g						t						t											
COKERIA (CARICAMENTO - COKEFAZIONE - SFORNAMENTO)	1234	1232	1181	992	1002	1178	25,52	25,24	24,52	20,81	16,84	12,96	17,06	17,03	16,32	13,72	13,85	16,28	1,26	1,26	1,20	1,01	1,02	1,20																								
COKERIA (TORRI SPEGNIMENTO COKE)							22,54	26,90	33,10	24,42	12,84	3,80																																				
AGGLOMERATO (SECONDARIA)	5525	4901	4878	4132	4589	4003	18,74	18,88	20,06	21,42	21,99	12,90													0,0044	0,0783	0,0110	0,0171	0,0303	0,0232																		
AGGLOMERATO (RAFFREDDATORI)							35,09	31,71	30,49	27,10	29,46	25,35													0,0059	0,0523	0,0081	0,0436	0,0516	0,0184																		
ALTOFORNI (Stock-House)							27,8	9,0	0,0	0,0	0,0	0,0																																				
ALTOFORNI (Colaggio)	4673	4430	4173	3313	3926	3464	88,8	84,2	79,3	62,9	74,6	65,8																			4,0	3,9	3,4	2,9	3,1	2,7	2,0	1,9	1,7	1,4	1,5	1,3						
																															43,2	35,4	53,8	29,1	54,4	49,3	21,3	17,4	26,5	14,3	26,8	24,3						
																															(SCVL)	(SCVL)	(SCVL)	(SCVL)	(SCVL)	(SCVL)	(SCVL)	(SCVL)	(SCVL)	(SCVL)	(SCVL)	(SCVL)						
ACCIAIERIA	4732	4520	4211	3371	4063	3556	37,9	36,2	33,7	27,0	32,5	28,5																																				
TOTALE AREA A CALDO							256,39	232,13	221,17	183,65	188,23	149,32	17,06	17,03	16,32	13,72	13,85	16,28	1,26	1,26	1,20	1,01	1,02	1,20	0,0103	0,1306	0,0191	0,0607	0,0819	0,0415	47,2	39,3	57,2	32,0	57,5	52,0	23,3	19,3	28,2	15,7	28,3	25,6						
TOTALE STABILIMENTO							307,5	290,5	257,5	225,4	206,4	163,3	17,06	17,03	16,32	13,72	13,85	16,28	1,26	1,26	1,20	1,01	1,02	1,20	0,0103	0,1306	0,0191	0,0607	0,0819	0,0415	47,2	39,3	57,2	32,0	57,5	52,0	23,27	19,31	28,20	15,70	28,30	25,64						

(*) Fattore di emissione: 0,002

(**) Fattore di emissione: 0,027

(***) Fattore di emissione: 0,004

(****) Fattore di emissione: 0,015

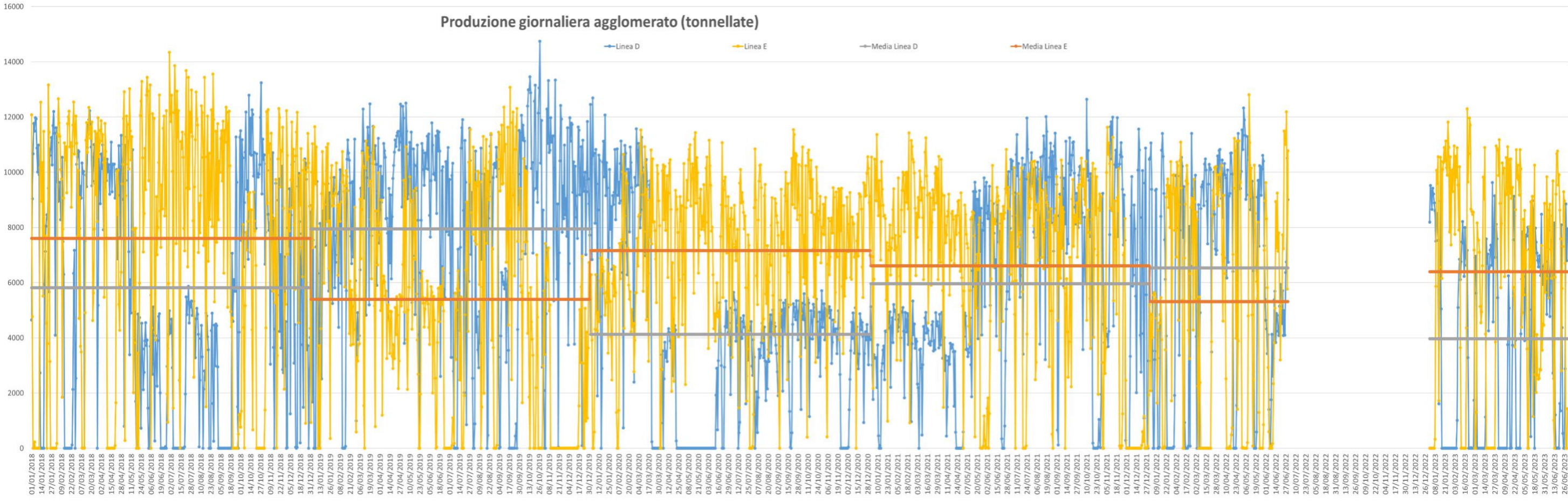
(*****) Fattore di emissione: 0,018

(*****) Fattore di emissione: 0,010

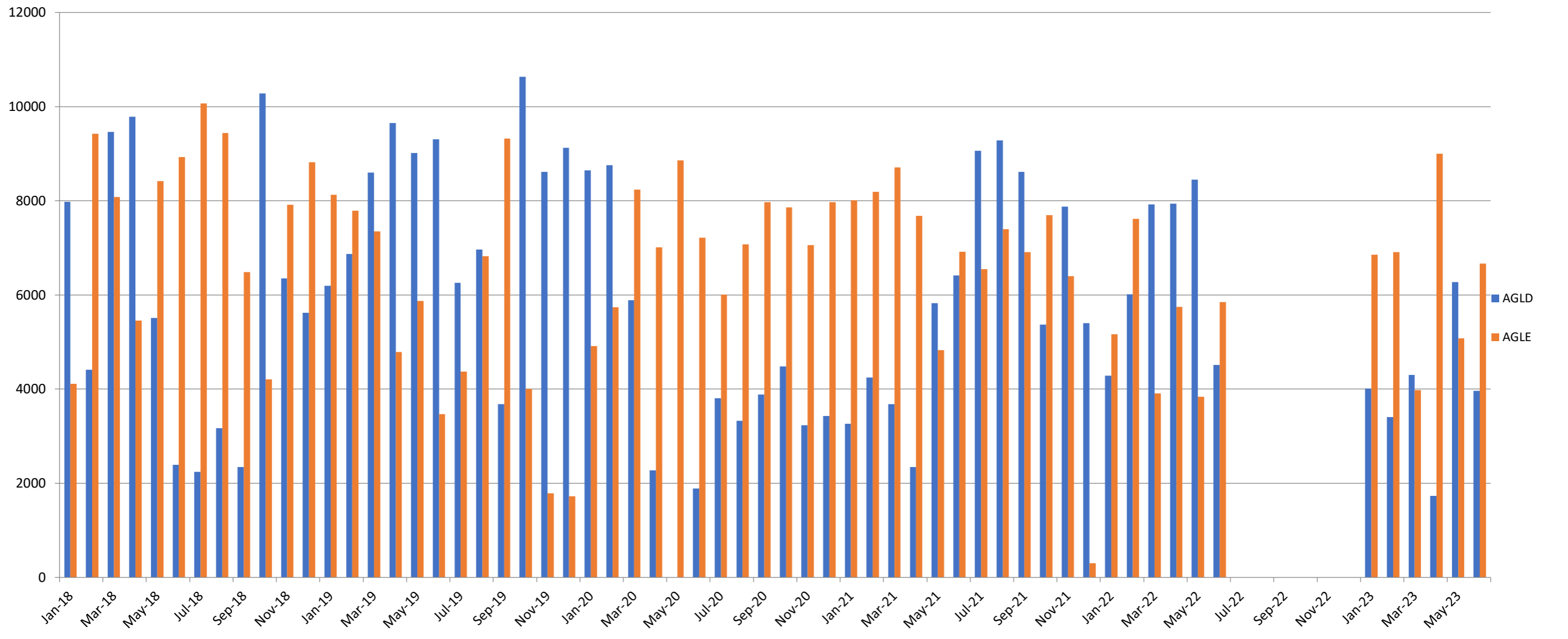
(SCVL) Senza Condensazione Vapori Loppa

TAVOLA 6: Produzione Agglomerato e Cokeria

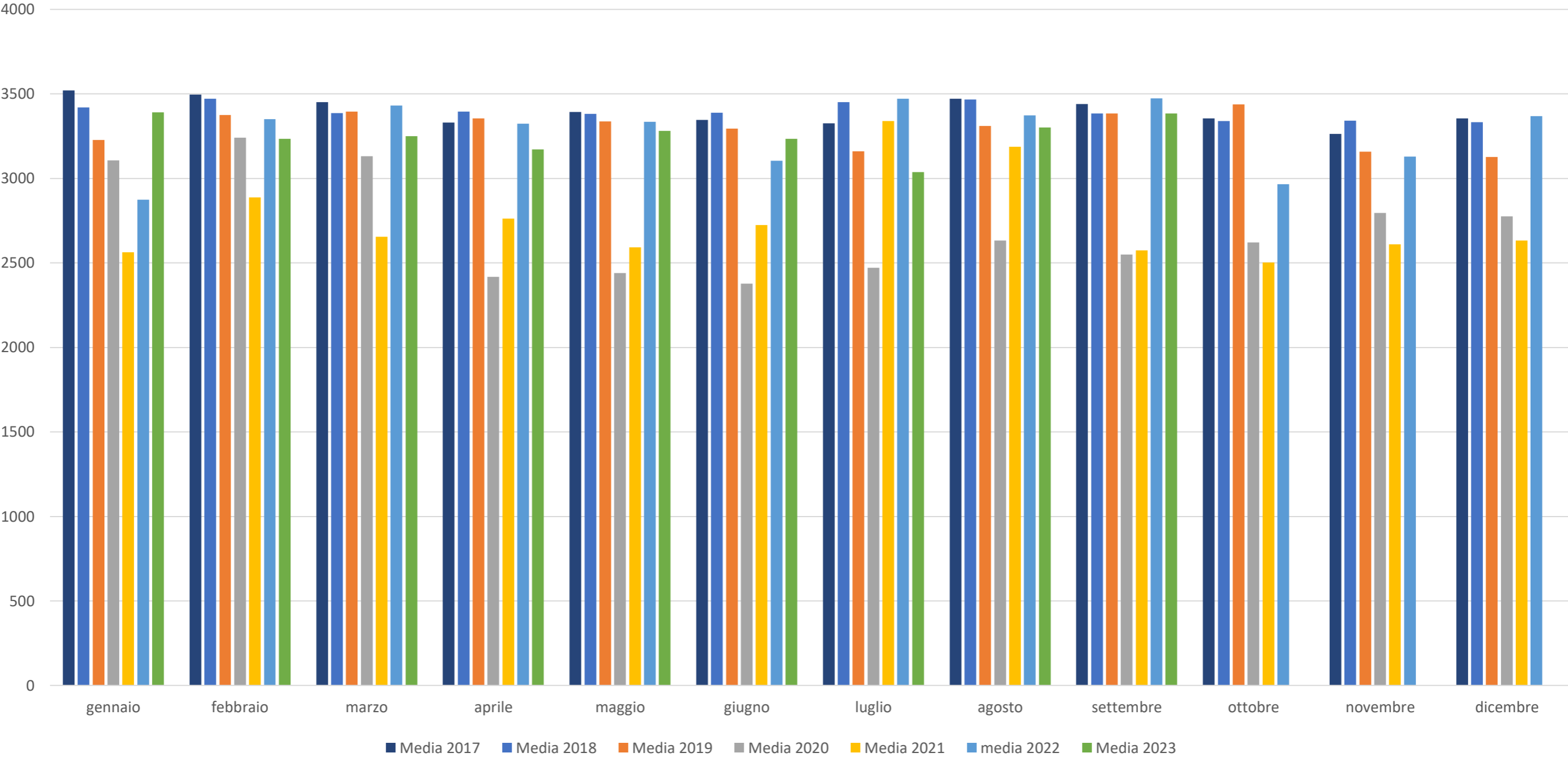
Produzione giornaliera agglomerato (tonnellate)



Produzione media mensile agglomerato (tonns) anni 2018-2019-2020-2021-2022 (I semestre)-2023 (I semestre)



Produzione media mensile cokeria (tonns) anno 2017-2018-2019-2020-2021-2022 -2023



Produzione giornaliera (tonns) cokeria anno anno 2017-2018-2019-2020-2021-2022 -2023)

