



Global Trade Analysis Project

NTMs reductions in TPP countries

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Overview of CP-TPP

- **What is CP-TPP?**

- The CP-TPP (Comprehensive and Progressive Agreement for Trans-Pacific Partnership) is a proposed trade agreement between eleven Pacific Rim countries concerning a variety of matters of economic policy
- Member countries: Brunei, Chile, New Zealand, Singapore, Australia, Canada, Japan, Malaysia, Mexico, Peru, and Vietnam
- This agreement was reached on 30 December 2018 after 8 years of negotiations
- Among other things, the CP-TPP seeks to lower trade barriers such as tariffs and non-tariff measures (NTMs)

TPP Trans-Pacific Partnership



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Literature Review (1)

- **Petri and Plummer(2016) “The Economic Effects of the Trans-Pacific Partnership: New Estimates”**
 - Estimate TPP(Previous version of CP-TPP, includes the United State) will increase annual incomes in the United State by 0.5 percent of GDP
 - For non-TPP members, most of their real incomes will decrease because the higher trade barriers around the world

Literature Review (2)

- **Petri and Plummer(2017) “Going It Alone in the Asia-Pacific: Regional Trade Agreements Without the United States”**
 - Without the United State in TPP, remaining members in TPP could generate benefits to members, albeit with gains only about one-third as large as those expected from the 12-member TPP
 - For the United States the implications are more negative. The United States would forego the benefits of participating deeply in the integration of a very dynamic region
 - High-quality agreements lead to substantially larger gains than less rigorous ones. For example, the CP-TPP agreement could produce more gains than RCEP, even though the CP-TPP economies have only one-third the GDP of the RCEP region
 - **CP-TPP has more tariff and NTMs reduction than RCEP**

ABSTRACT

- **Reductions of NTMs, what are the differences between front-loading versus gradual changes?**
 - Front-loading leads to higher results overall (higher exports, higher GDP, among others) versus a gradual implementation of NTMs. Changes in NTMs take time, so front-loading will lead to over estimating the impact of a reduction in NTMs.

Motivation

- **TPP countries: 11 countries that border the Pacific Ocean signed up to the TPP in Feb 2016 – roughly 40% of the world economic output and about 800 million in population (almost double the population of the EU's single market).**
 - Does not include the USA nor China
- **TPP agreed to reduction in both the tariffs and the non-tariff barriers to trade**
 - Slashing tariffs and fostering trade to boost growth
- **NTMs reduction**
 - The attention has shifted partially to non-tariff measures due to the emergence of the deep free trade agreements

Trade in 2018 between TPP countries

	aus	brn	can	chl	jpn	mex	mys	nzl	per	sgp	vnm	Perc. exports TPP
aus	0	58	2279	591	45806	933	4641	7708	208	4371	2463	20%
brn	1564	0	18	3	2904	4	49	332	1	138	34	46%
can	3024	34	0	1473	14573	9277	1736	478	992	3892	604	7%
chl	1017	3	1596	0	18481	2034	256	61	2072	285	389	19%
jpn	20531	217	11326	3543	0	13371	20689	2206	1836	22451	11349	12%
mex	1828	11	16863	3080	3441	0	418	158	2012	643	150	7%
mys	9810	781	2774	300	20581	2926	0	1122	331	25336	4761	24%
nzl	9927	15	650	90	3136	339	1001	0	112	817	525	34%
per	179	2	4414	2421	4255	497	29	32	0	65	105	17%
sgp	14688	590	3587	386	15339	1141	39269	2256	91	0	6645	26%
vnm	3276	24	1597	238	11896	990	3210	245	159	2931	0	19%
Perc. imports TPP	22%	31%	9%	12%	15%	9%	28%	33%	13%	20%	17%	

New Zealand and Brunei export the largest share to other TPP countries, followed by Australia, Malaysia, Singapore, Vietnam, Chile, and Peru (about 20%). Canada, Mexico, and Japan export the smallest share to TPP

Reductions in NTMs applied

- **Following Petri, Plummer and Zhai (2011)**
 - Non-tariff barriers are represented by tariff equivalents
 - Represent barriers that were applied to all trade partners prior to agreement
 - We assume elimination of 56.3% of NTBs in case of goods and 37.5% in the case of services

Model and Data

- **Aggregation**

- 15 regions (11 TPP countries, USA, CHINA, EU 27 and ROW)
- 18 commodities
- 5 activities

- **Period:**

- 15 years (with schedule of tariff reductions overtime and/or NTMs starting in 2019)

- **The baseline database used includes the NTMs (AlterTax) and tariffs**

Shocks

- **Include both tariff reductions and NTM reduction.**
- **Scenario 1: Tariff reductions + one-time NTM reduction shocks (front loading)**
- **Scenario 2: Tariff reductions + gradual NTM reduction shocks (over 10 years)**

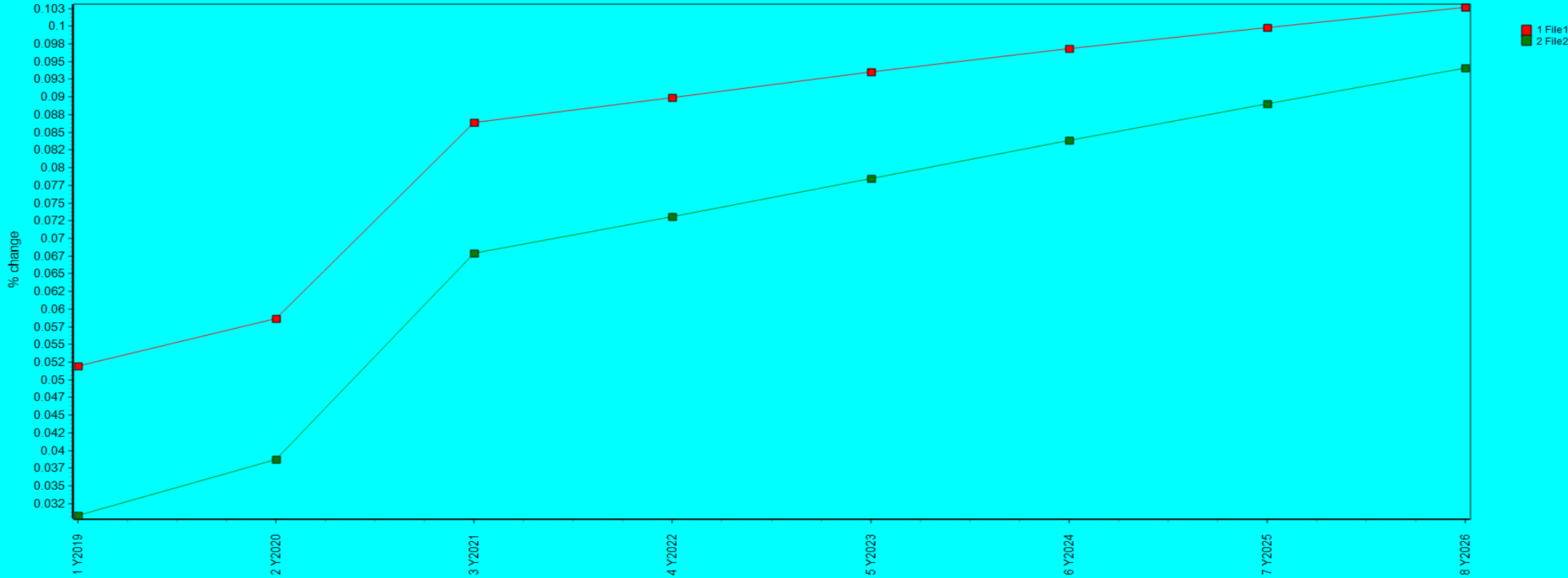
Results Overview

- **Global results**
- **An example of TPP countries: Malaysia**
- **An example of non-TPP countries: China**

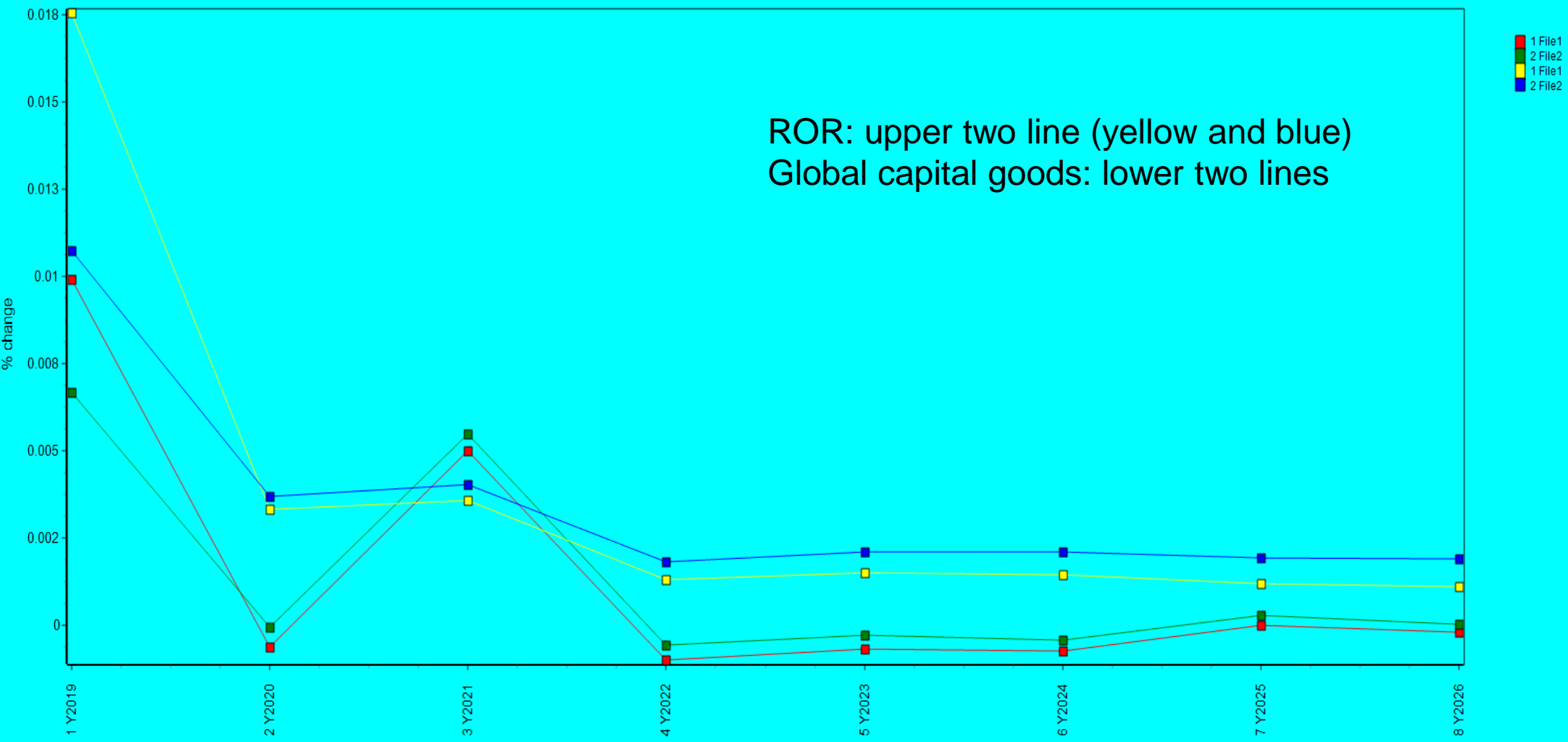
Global Results: NTM Reduction (2019)

NTMS	1 AUS	3 JPN	4 BRN	5 MYS	6 SGP	7 VNM	9 CAN	10 MEX	12 NZL	13 CHL	14 PER
1 AUS	-2.71842	-4.73333	-3.32984	-6.63796	-6.91836	-7.61258	-3.3223	-3.79524	-2.23909	-1.4904	-4.5973
3 JPN	-2.11544	-1.58716	-2.94667	-6.43607	-8.12942	-5.29378	-5.17991	-7.26303	-1.59439	-1.14688	-4.81127
4 BRN	-1.86246	-3.43338	-2.48175	-6.63892	-8.65476	-7.50869	-4.47987	-4.24835	-2.2041	-1.11716	-6.62598
5 MYS	-1.28146	-3.43581	-4.02312	-5.32132	-7.61545	-7.3803	-3.82459	-4.17594	-1.69554	-1.64181	-5.84621
6 SGP	-5.15152	-3.29302	-5.7603	-10.3564	-5.31252	-8.09649	-6.74957	-8.14079	-2.94257	-1.58927	-5.91694
7 VNM	-1.94164	-2.82197	-3.54748	-5.57278	-9.08406	-4.90358	-3.5802	-4.69824	-2.25986	-2.08001	-4.71609
9 CAN	-3.01203	-4.09064	-4.77039	-6.61585	-11.7653	-7.55709	-1.84543	-6.00008	-2.8184	-2.03894	-5.55442
10 MEX	-0.87011	-3.01258	-2.74683	-7.45458	-8.95478	-7.97133	-1.45695	-2.59567	-0.58742	-1.74544	-2.90002
12 NZL	-1.70716	-3.04798	-3.56954	-5.76437	-8.13693	-7.32511	-3.27114	-3.80721	-1.07705	-1.24403	-4.73478
13 CHL	-1.47186	-3.82	-4.82173	-10.3409	-10.8017	-9.8764	-4.0351	-5.93689	-2.22831	-1.89526	-6.35608
14 PER	-0.77833	-3.65941	-3.33723	-11.0789	-10.2798	-10.122	-2.84385	-6.78161	-0.91384	-1.09534	-2.42117

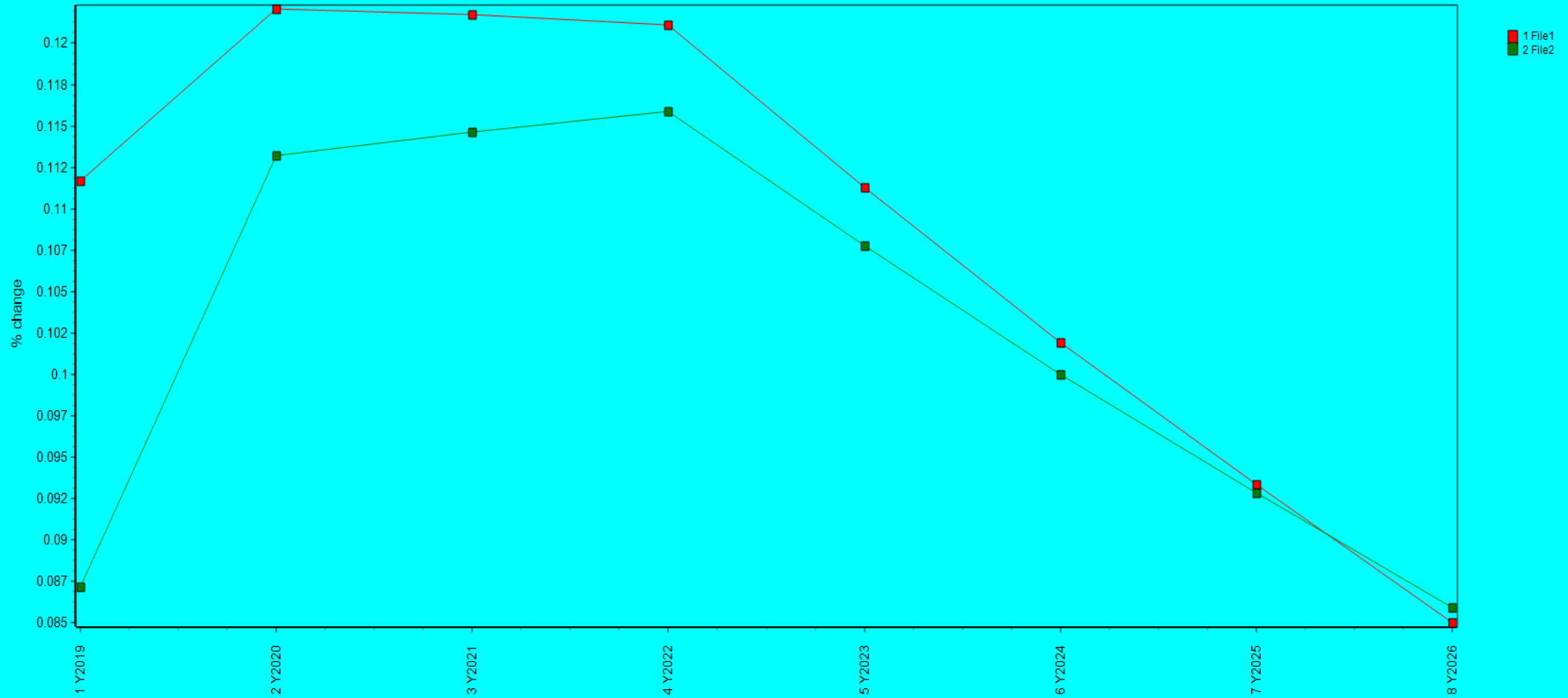
Global Results: Exports (cumulative)



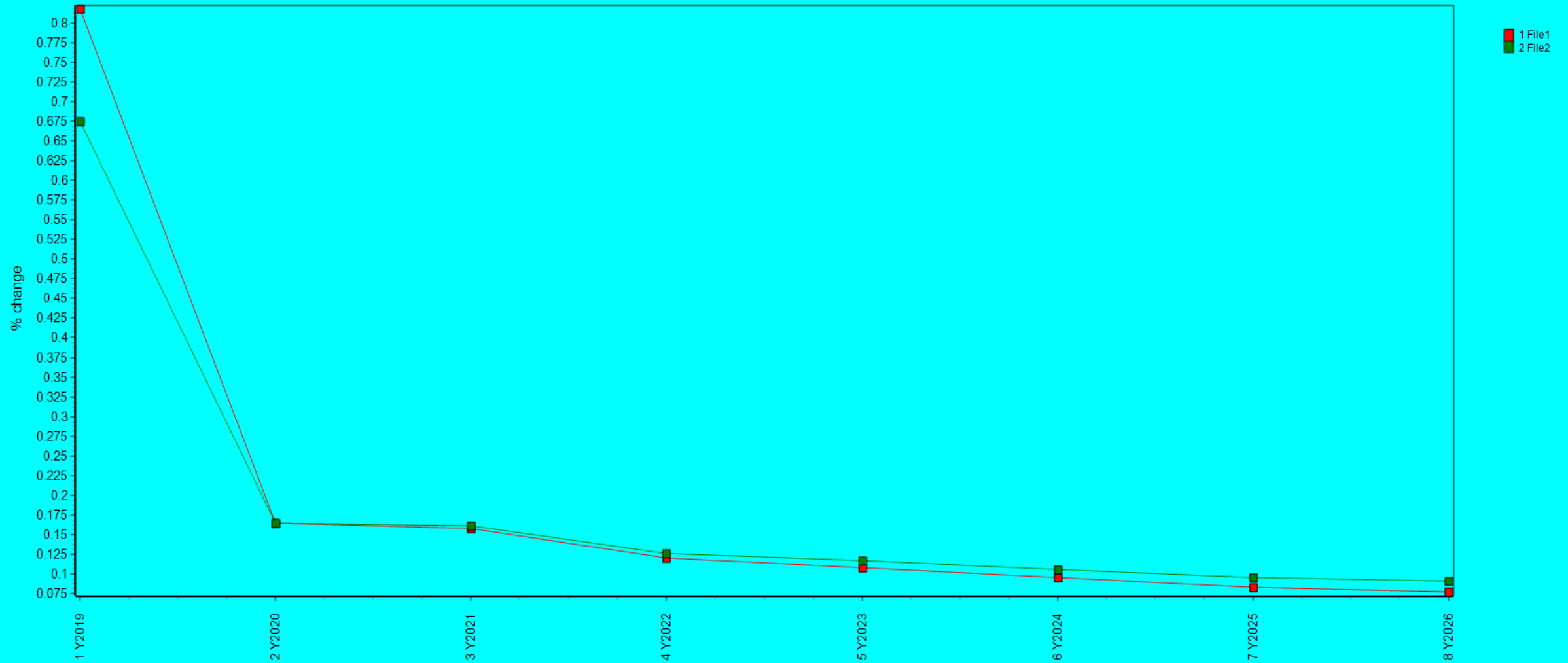
Global Results: ROR and Global Capital Goods, Y-O-Y



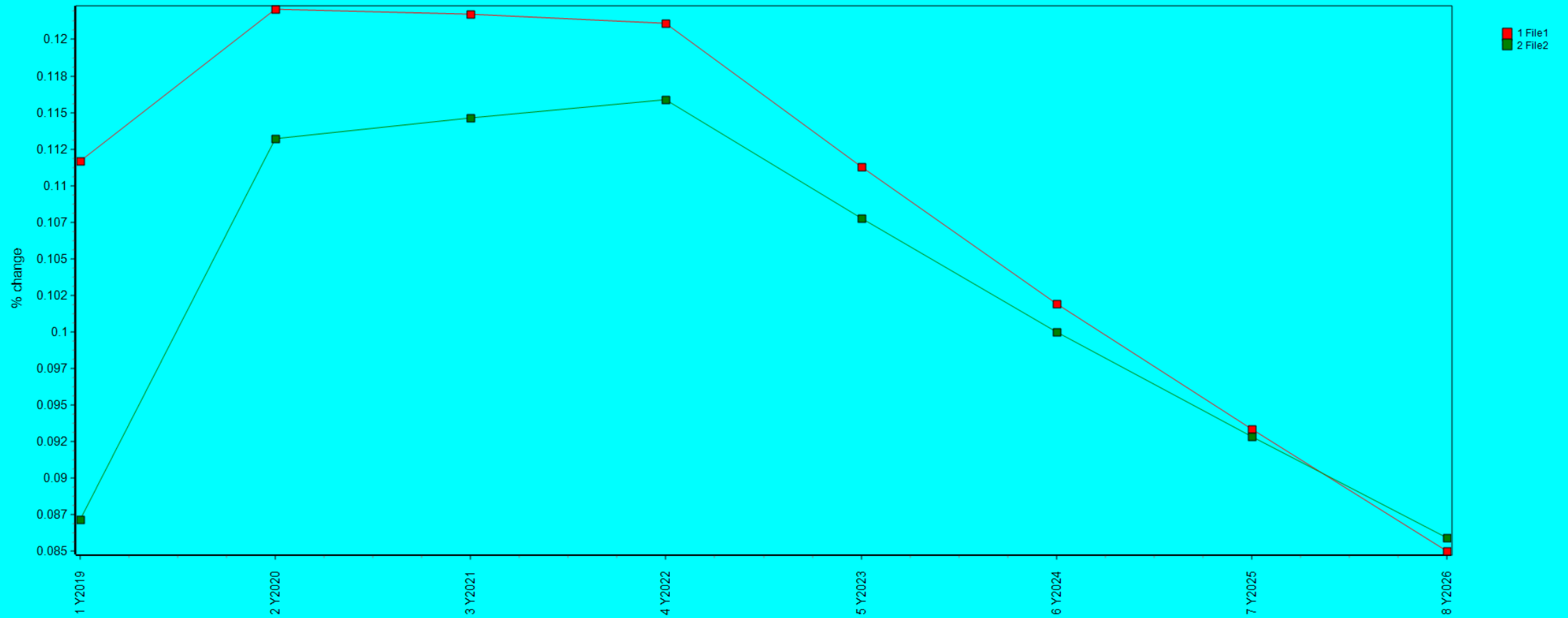
TPP Country: Malaysia, GDP, Y-O-Y



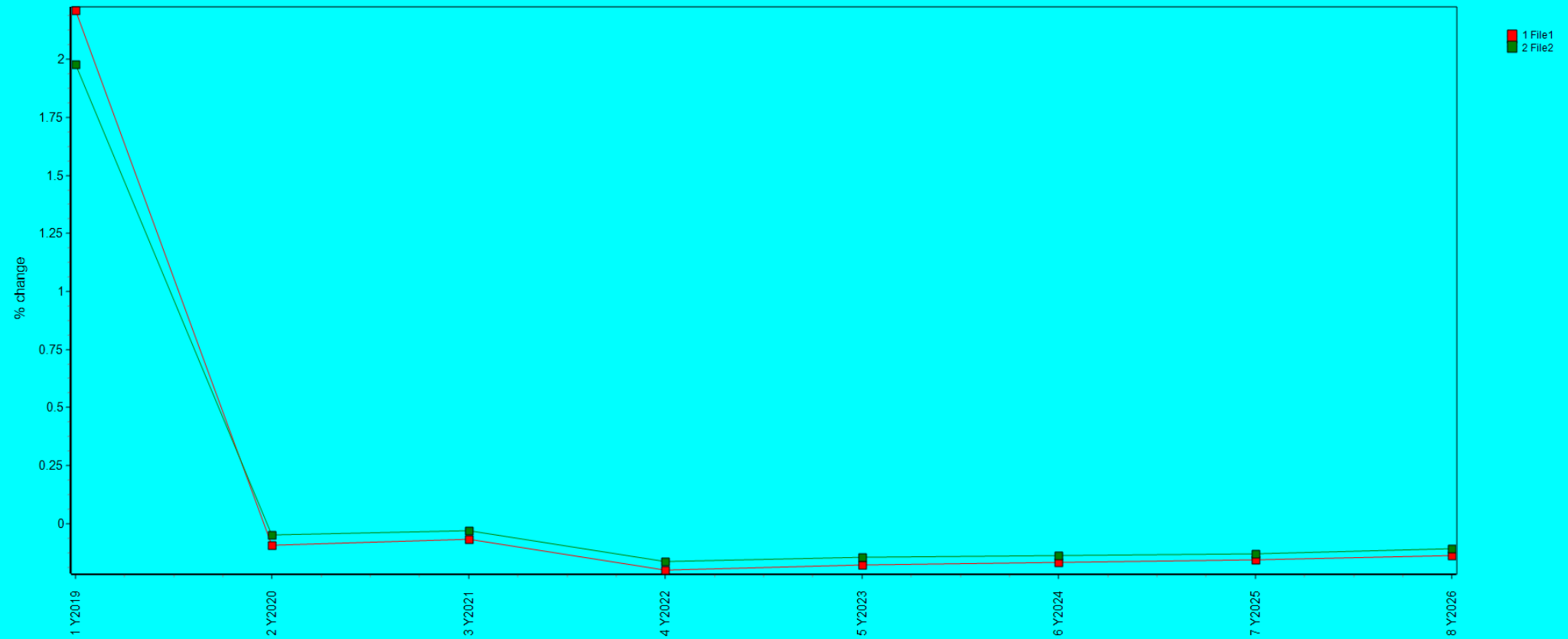
TPP Country: Malaysia Exports, Y-O-Y



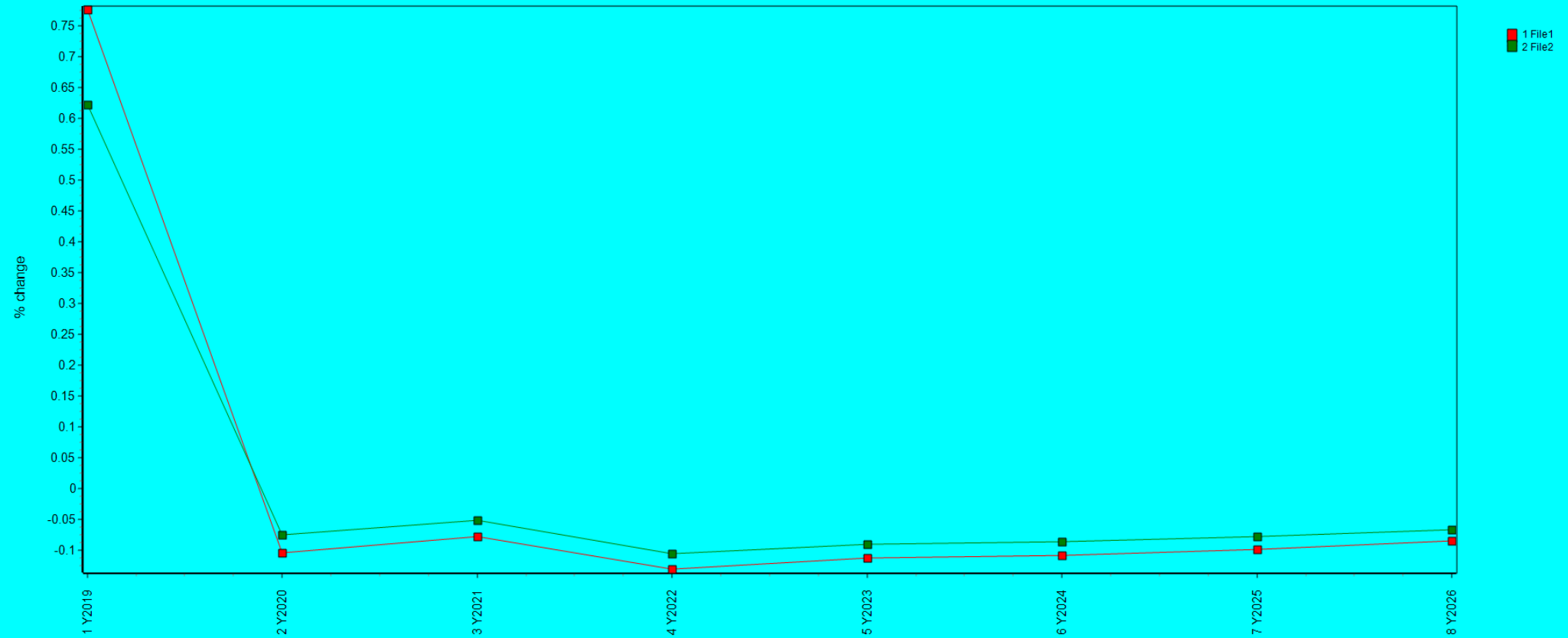
TPP Country: Capital Investment, Malaysia, Y-O-Y



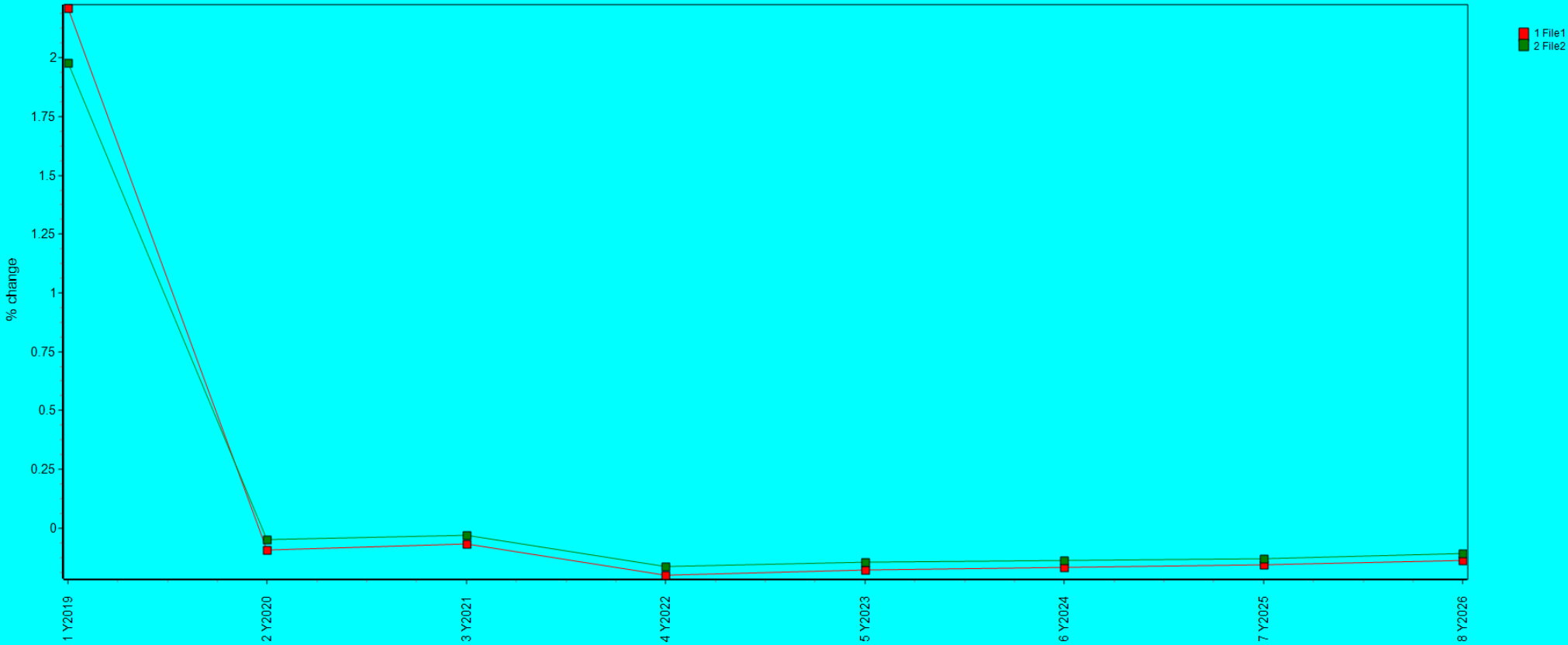
TPP Country: Malaysia ROR, Y-O-Y



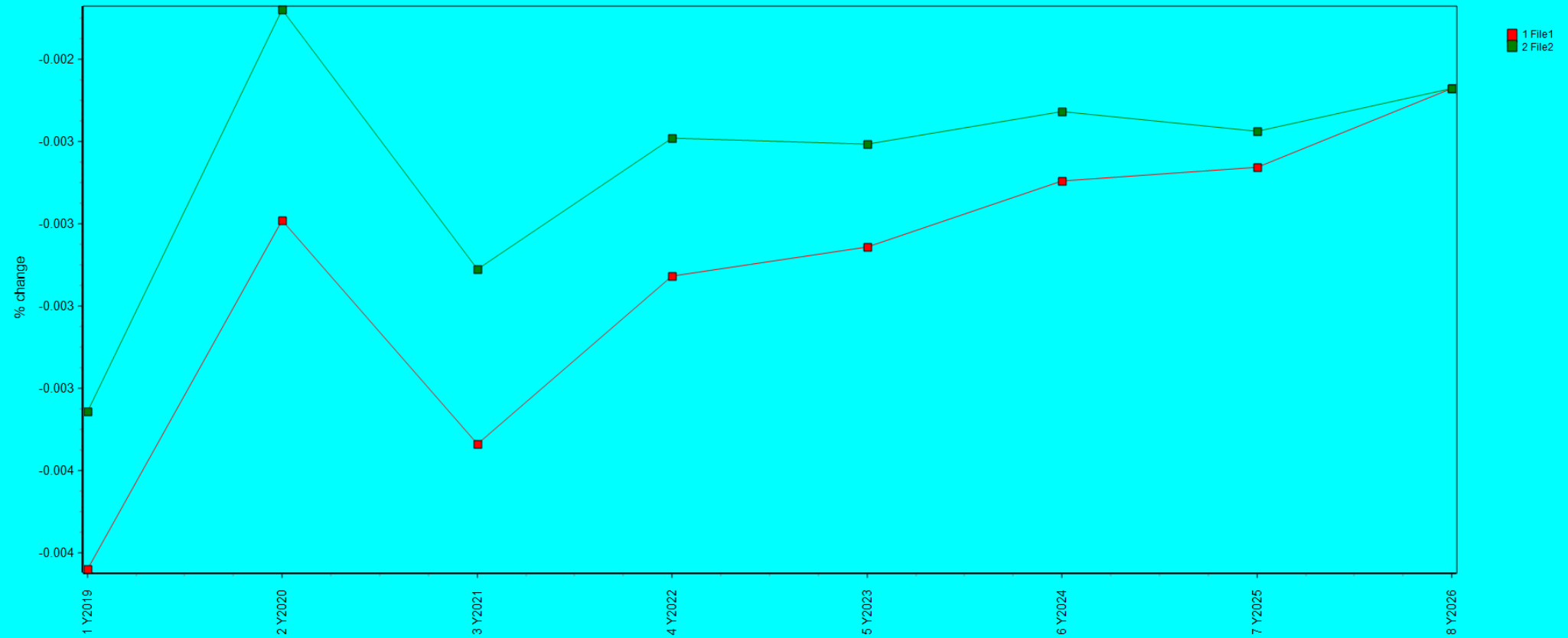
TPP Country: Malaysia Capital Price, Y-O-Y



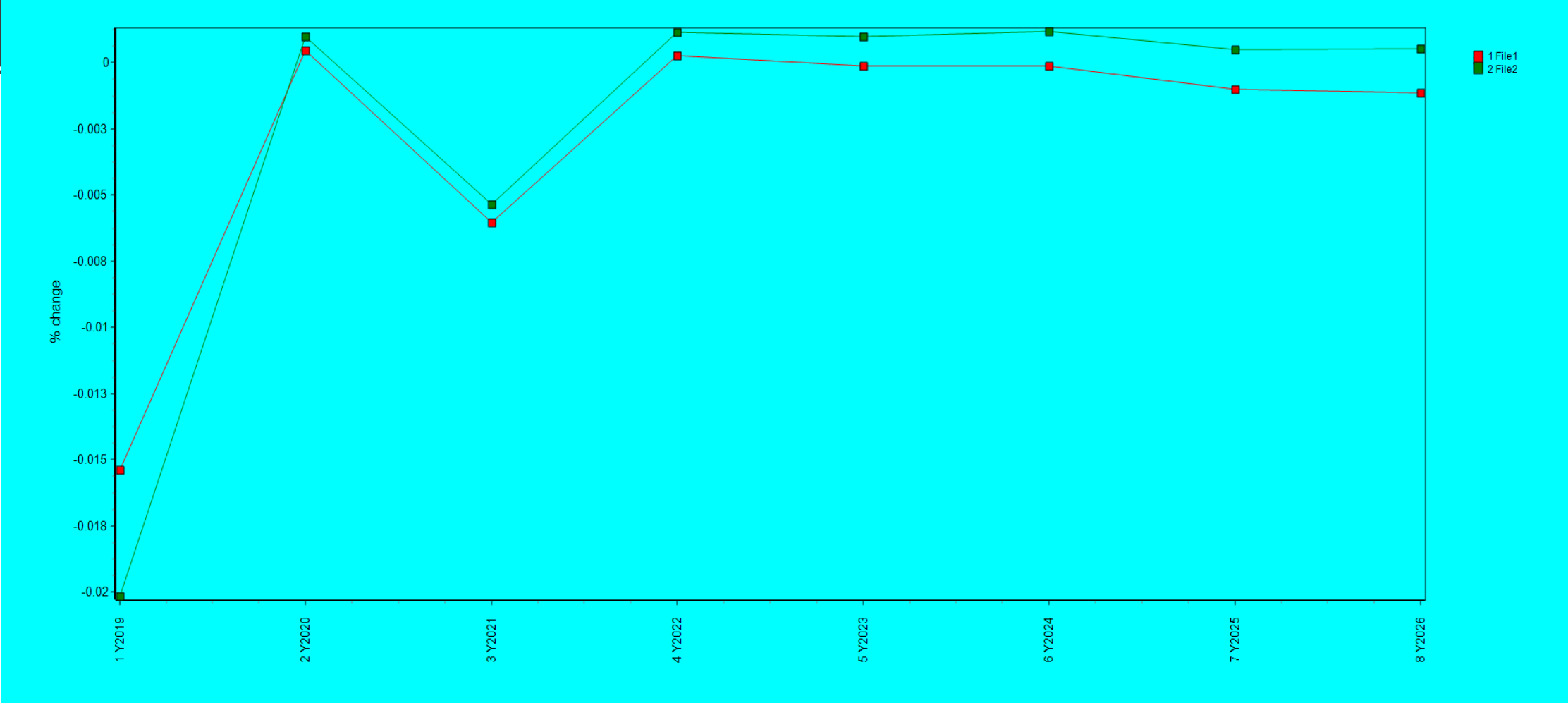
TPP Country: Malaysia Unskilled labor Price, Y-O-Y



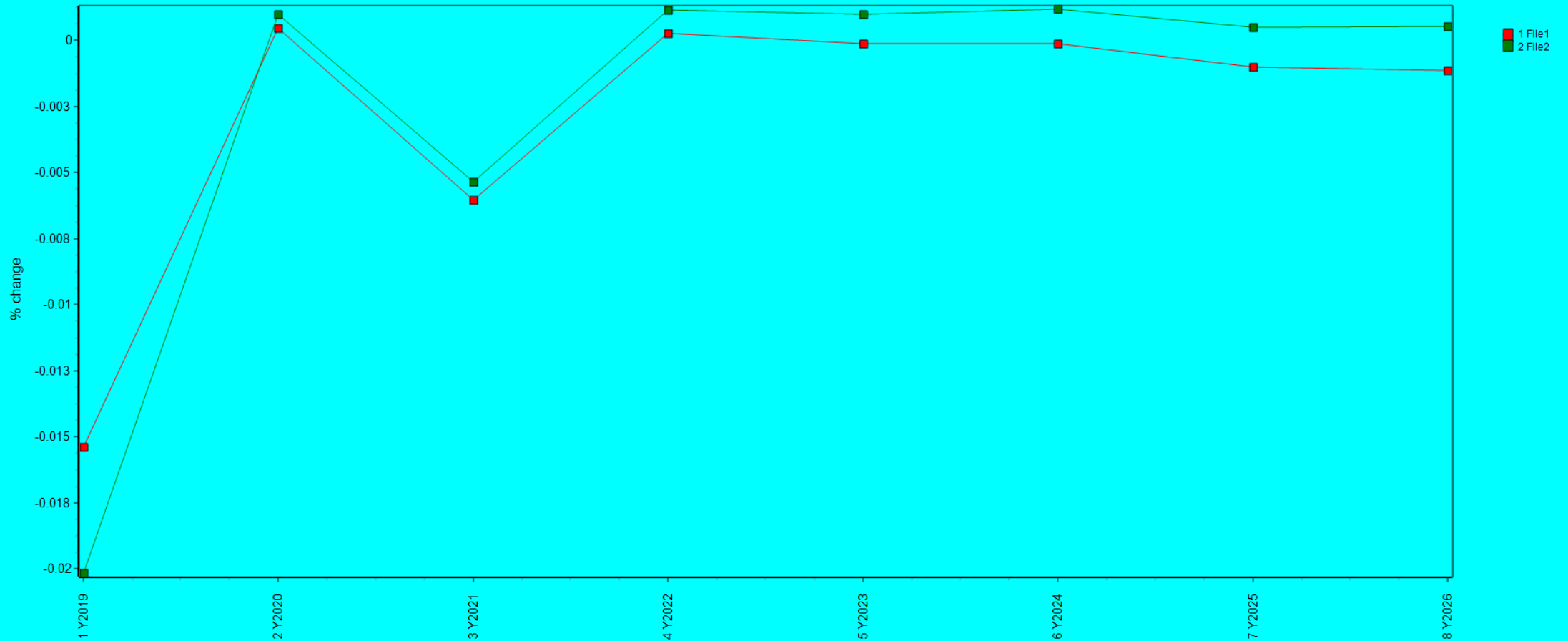
Non-TPP: China GDP, Y-O-Y



Non-TPP: China Exports



Non-TPP: China Imports, Y-O-Y



Conclusion

- **The GDP growth in TPP countries is larger in one-time NTM reduction than the scenario with gradual NTM reduction in the first year(2019), especially in Malaysia.**
- **The cumulative effect converges eventually.**
- **Global exports increase and global ROR jumps initially.**
- **What drives labor price increase?**
- **China's GDP and export growth initially decrease, but not go down deeper in the long run.**