



## Joint Action on Tobacco Control (JATC)

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### WP6 –D6.2

## Report on Tobacco products description data, Greece and Spain”

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## Table of Contents

Summary of preliminary findings.....	4
1 Background .....	8
2 Methodology.....	8
3 Results of Greece and Spain.....	9
3.1 Completeness and consistency of all tobacco products data .....	9
3.1.1 Product data files.....	9
3.1.2 Presentations data files.....	9
3.1.3 Other ingredients data files .....	9
3.1.4 Tobacco ingredients data files .....	9
3.1.5 TNCO and other emissions data files .....	9
3.2 Descriptive univariate by type of tobacco product.....	10
3.2.1 Chewing tobacco .....	14
3.2.2 Cigar .....	22
3.2.3 Cigarette .....	35
3.2.4 Cigarrillo.....	49
3.2.5 Herbal .....	59
3.2.6 Nasal .....	65
3.2.7 Novel Tobacco Products (NTP).....	71
3.2.8 Other (Product placed on the market before 19 May 2014, not covered by categories 1-9)	80
3.2.9 Pipe .....	86
3.2.10 Roll your own (RYO) .....	93
3.2.11 Waterpipe.....	102
3.3 Cross tabs of main variables by year and country.....	112
3.3.1 Product length of key products by year and country.....	112
3.3.2 Product diameter by year and country .....	113
3.3.3 Product weight of key products by year and country .....	114
3.3.4 Product tobacco weight of key products by year and country .....	115
3.3.5 % of mean tobacco weight over total mean weight .....	116
3.3.6 Submission type of key products by year and country .....	117
3.3.7 Cigarettes by percent of filter ventilation and by year and country .....	122
3.3.8 Recipe quantity by function and country.....	123
3.3.9 Tobacco product unit weight by function and country.....	124
3.3.10 % of flavorings over total tobacco product unit weight by year and country .....	126
3.4 Specific queries.....	127

3.4.1	TP-IDs with more than one new submission in a year and /or shared between countries, by year and country .....	127
3.4.2	TP-IDs linked to more than one brandname and with submission type == “Reporting information on a new product” .....	129
3.4.3	TP-IDs equally submitted in both countries and resubmitted over the years although the submission type is classified as “reporting of information on a new product (TP-ID number)”	
	131	
3.4.4	Recipe quantity of menthol (CAS number “2216-51-5”) in cigarettes by year and country	131
3.4.5	TP-IDs containing additives with colouring properties for emissions .....	132
3.4.6	TP-IDs of cigarettes and RYO with submission type classified as “reporting of information on a new product (TP-ID number)”and containing one or more priority additives .	132
3.4.7	Ingredients where the variable “toxdata available” is true.....	132
3.4.8	TP-IDs where the variables “existence of studies on toxCMR, toxcardio, tox addictive and toxother” are notified as true .....	135
3.4.9	Ingredients where the variables “existence of studies on toxCMR, on toxcardio, and on toxother” are notified as true .....	140
3.5	Overall completeness of variables in data files.....	146
	Summary of submissions and variables in the data files of each tobacco product.....	149

## Summary of preliminary findings

- 1- The dataset analysed contains the submissions to EU-CEG between 1<sup>st</sup> June 2016 to 25<sup>th</sup> July 2019. For this period, there are 10,088 submissions of all tobacco products, 7,648 and 2,440 in Spain (ES) and Greece (GR), respectively.
- 2- The year with the highest number of submissions is 2018, being cigarettes and water pipe the tobacco product categories with highest number of submissions.
- 3- The three most frequently submitted tobacco products in ES are: cigars, cigarettes and water pipe. In GR are: cigarettes, cigars and NTP.
- 4- For cigars:
  - a. There are 2,660 and 439 submissions in ES and GR, respectively.
  - b. There are 18.9% and 26.2 % of the submissions notified as “reporting information on a new product” implying a new TP-ID number, for ES and GR, respectively. The remaining submissions imply either a new product ID version or a link to the previous TP-ID.
  - c. Submissions are made by manufacturer in GR and 21% of submissions in ES are made by importer.
  - d. % of product tobacco weight over total weight is 35% and 60% in ES and GR, respectively.
  - e. Product length is similar in ES and GR.
  - f. Product filter is notified as “true” in 2% and 1% in ES and GR, respectively.
  - g. Within the 15 most frequently notified brand names, ES and GR share 5 brand names.
  - h. Virginia is the most frequently notified leaf type and “air” is the most frequent leaf cure method.
  - i. Ingredient’s names are inconsistently entered in both countries.
  - j. Within the 15 most frequently notified ingredients, 3 of them are priority additives in both countries.
  - k. The distribution of ingredient’s function does not differ between ES and GR, being the most frequently notified ingredient’s function: flavour and taste, adhesive, solvent processing aid and humectant, followed by binder, colour and fibre.
  - l. There are 54% and 37% of the observations notified as having studies on tox CMR; 29% and 18% on tox cardio; 3.6% and 1.6% on tox addictive and; 60% and 48% on tox other, in ES and GR, respectively.
- 5- For cigarettes:
  - a. There are 2,522 and 1,327 submissions in ES and GR, respectively.
  - b. There are 8.6% and 4.4% of the submissions notified as “reporting information on a new product” in ES and GR, respectively.
  - c. Submissions are made by manufacturer in both countries
  - d. % of mean cigarette tobacco weight over total cigarette weight is 71.6% and 71% in ES and Gr, respectively.
  - e. Spanish cigarettes are shorter than Greek, (86.1mm and 88.5mm) in ES and GR, respectively.
  - f. Cigarette filter is notified as “true” in 98.2% and 99.8% of the submissions in ES and GR, respectively.
  - g. Cigarette characterizing flavour is notified as “true” in 116 and 21 submissions of ES and GR, respectively.
  - h. The most frequent category % filter ventilation is 21% to 30% followed by 31% to 40% and 11% to 20%, in both countries.

- i. Mean cigarette filter drop pressures close and open are higher in GR than ES.
- j. Within the 15 most frequently notified brand names ES and GR share 6 brand names
- k. Most of the package units are of 20 cigarettes (88%) in both countries
- l. Information on package net weight is only available for ES in 0.5% of the observations, and ranges from 2.5 to 4050 g.
- m. Mean mg of tobacco per cigarette is 101.9 mg and 96.4 mg, in ES and GR, respectively.
- n. Virginia is the most frequently notified tobacco leaf type, followed by Burley and Maryland
- o. The most frequently used leaf cure method is “flue”, followed by “air” and “sun”
- p. Within the 15 most frequently notified ingredients there are 2 and 5 priority additives in ES and GR, respectively.
- q. The most frequently notified function among the ingredients in ES is “other functions”. Differently to GR, where the most frequently notified function is “flavour and taste.”
- r. From 2016 to 2019 the notified mean recipe quantity (mg per cigarette) of most frequently notified ingredients of ES has decreased. Differently to GR, where the mean recipe quantity of two most frequently notified ingredients has increased.
- s. For menthol the mean recipe quantity (mg per cigarette) has increased in both countries ES and GR.
- t. There are 62% and 53% of the observations notified as having studies on tox CMR; 39% and 34% on tox cardio; 3.5% and 2.7% on tox addictive and; 82% and 80% on tox other, in ES and GR, respectively.

6- For NTP:

- a. There are 9 and 127 submissions in ES and GR, respectively
- b. Spanish submissions are all updates of previous TP-IDs and differently, there are 63.7% of the Greek submissions as “reporting information on a new product”.
- c. All submissions in both countries are made by manufacturer
- d. % of mean tobacco weight over the total NTP mean weight is 37.8% and 38.9% in ES and GR, respectively
- e. ES and GR share 6 brand names and GR presents 120 observations under the same brand name
- f. Oriental leaf is the most frequently notified leaf type in both countries
- g. Mean tobacco quantity is lower in ES than GR with 75mg and 132 mg of tobacco per heat stick in ES and GR, respectively.
- h. Within the list of 15 most frequently notified ingredients, there are 1 and 3 priority additives in ES and GR, respectively.
- i. The distribution of ingredients’ function doesn’t differ between ES and GR being flavour and taste, binder, filler, colour and adhesive, the most frequent ones.
- j. There are no fluctuation on recipe quantity of ingredients across batches
- k. There are 17.4% and 71% of the observations notified as having studies on tox CMR; 17% and 52% on tox cardio and; 97% and 81% on tox other, in ES and GR, respectively.

7- For RYO:

- a. There are 324 and 126 submissions of different TP-IDs in ES and GR, respectively.
- b. There are 35 and 7 different TP-IDs submitted as “reporting information on a new product” in ES and GR, respectively.
- c. The percentage of the mean tobacco weight out of the mean of all product weight is 93% for both ES and GR

- d. After stratification by NEW PRODUCT, the percentage of the mean tobacco weight out of the mean of all product weight is 93% and 87% for ES and GR, respectively.
  - e. Virginia leaf is the most frequent leaf type in both countries
  - f. The most frequent leaf cure method is “flue” in both countries
  - g. RYO and pipe nicotine content are similar in both countries, being the mean nicotine content of the loose product per product unit of 42.2 and 46.5 in ES and GR, respectively.
  - h. Within the 15 most frequently notified brand names ES and GR share 4 brand names
  - i. ES has a mean tobacco quantity per product unit higher than GR (271mg vs 205mg)
  - j. Within the list of 15 most frequently notified ingredients, there are 4 priority additives, both in ES and GR.
  - k. Main functions are flavour and taste, humectant, and processing aid in both countries.
  - l. There are 38% and 47% of the observations notified as having studies on tox CMR; 23% and 30% on tox cardio and; 2.5% and 3.2% on tox addictive and; 72% and 79% on tox other, in ES and GR, respectively.
- 8- For Water pipe:
- a. There are 1342 and 48 submissions in ES and GR, respectively
  - b. Most of the submissions of GR (73%) and 40% of the ES submissions are “reporting information on a new product”
  - c. The % of mean tobacco weight over all weight of the product is 22% and 0.3% in ES and GR, respectively.
  - d. No fluctuation in ingredients quantity among Greek batches and 10 observations with fluctuation in Spanish data set.
  - e. There are two of the submitted brand names shared by both countries
  - f. Virginia is the most frequent leaf type
  - g. Flue is the most frequent leaf cure method
  - h. Within the list of 15 most frequent ingredients there are 2 priority additives (glycerol and propylene glycol) notified in both countries
  - i. Flavour and taste is the most frequent function, followed by solvent-processing aid and humectant, in ES and GR
  - j. Overall mean recipe quantity of all ingredients is higher in ES than in GR. This variable should be studied by type of ingredient.
  - k. There are 7.8 % and 11.7% of the observations notified as having studies on tox CMR, on tox cardio, on tox addictive and; 13.4% and 11.7% on tox other, in ES and GR, respectively.
- 9- Comments on cross tabs of main variables:
- a. During the period of study (from 2016 to 2019), neither cigarettes nor RYO have changed the % of mean tobacco weight over total weight in both countries, ES and GR.
  - b. Overtime, submission of new cigarette products (those “reporting of information on new product”), has increased in both ES and GR. Differently, to submission of RYO that has decreased in GR.
  - c. Cigarettes % of filter ventilation has a higher number of notifications in 2018 than the rest of the years. The most frequently notified % of filter ventilation is 21% to 30%, followed by 31% to 40% and 11% to 20%, in both countries, ES and GR.
  - d. For cigarettes, the % of mean weight recipe of ingredients with “flavour and taste function” over total product weight is above 0.1%. Therefore, according to the TPD 2104/40, art 6 para 2, these ingredients should not be confidential and have been notified.

- e. For RYO, some flavourings notified as ingredients are used even in quantities below 0.1% and nevertheless have been notified.

A possible interpretation of these data is that manufacturers, knowing the conditions of this article and in order to minimize obligation to notify, may be tempted to notify the ingredients under another function with the result of less ingredients under the flavour and taste enhancer function notified.

10- Comments on specific queries selected for submission type category==“reporting of information on a new product”

- a. There are TP-IDs of cigarettes with more than one submission in a year and with the same TP-ID number for both countries, ES and GR.
- b. There are 3 different new TP-IDs of RYO where the submission type is “reporting of information on a new product” with the same TP-ID number for both countries, ES and GR.
- c. There are 4 and 10 different brand names informed under the same TP-ID of cigarettes in ES and GR, respectively.
- d. There are three TP-IDs shared between ES and GR with different brand names
- e. There are 302 and 247 different ingredients in cigarettes where toxdata available is true in Spain and Greece, respectively. Among the 15 most frequently notified ingredients in cigarettes, there are 6 priority additives in each country, ES and GR.
- f. There are 53 and 47 different NTP ingredients where toxdata available is true in Spain and Greece, respectively.
- g. There are 185 and 61 different RYO ingredients where toxdata available is true in Spain and Greece, respectively. Among the 15 most frequently notified ingredients in RYO, there are 4 and 6 priority additives in ES and GR, respectively.
- h. There are 3028 and 1041 TP-IDs of cigarettes where the variables “existence of studies on toxCMR, toxcardio, tox addictive and toxother” are notified as true.
- i. There are 1262 and 759 TP-IDs of RYO where the variables “existence of studies on toxCMR, toxcardio, tox addictive and toxother” are notified as true.
- j. There are 17 different ingredients of cigarettes in ES and GR where the variables “existence of studies on toxCMR, on toxcardio, tox addictive and on toxother” are notified as true.
- k. There are 52 and 132 different ingredients in ES and GR, respectively, where the variables “existence of studies on toxCMR, on toxcardio, and on toxother” are notified as true.

## 1 Background

As mentioned in Deliverable D6.1, under the European Union (EU) Tobacco Products Directive (2014/40/EU) (TPD), manufacturers and importers of tobacco products, electronic cigarettes (e-cigarettes) and refill containers are required to report comprehensive information, to the European Commission (EC) and Member States (MS) on products on which they intend to place on the market. The submitting information includes, but is not limited to, ingredients, emissions and toxicological data, with the specific parameters defined in the Annexes to Commission Implementing Decision (EU) 2015/2186 for tobacco products and Commission Implementing Decision (EU) 2015/2183 for e-cigarettes and refill containers.

The EU Common Entry Gate (EU-CEG) is the Information Technology (IT) tool developed to provide a common format for manufacturers and importers to report this information. EU-CEG was designed to facilitate a harmonized reporting system that lessens the administrative burden for submitters, as well as enhances the EC and MS's ability to compare data and ultimately regulate tobacco products on the EU market. As such, the EC has worked closely with both MS and industry stakeholders to develop EU-CEG, which became operational in May 2016, and is periodically updated through an iterative process informed by stakeholders to maximize the system's utility and output.

Manufactures and importers are required to submit through EU-CEG information on any new or modified tobacco product including e-cigarettes and refills, six months prior to being placed on the market. EU-CEG provides submitters with two different technical options for submitting data: (1) Standalone solution (for companies with a small IT infrastructure) using an XML generator to create the submission and subsequently upload to EU-CEG, or (2) System-to-system solution (for companies with a large IT infrastructure or many products), which uses the “e-Delivery network” operated by the EC to allow for information to be securely transferred.

## 2 Methodology

A descriptive analysis of available variables was conducted for both countries. Each one of the Spanish and Greek EU-CEG data sets has been treated separately for the analysis. Depending on the variable type, the results are presented as frequencies (absolute numbers or percentage), means and 95% Confidence Intervals (CI).

**Product ID (TP-ID)** is the identification number of the product used in the system in the format “submitter ID-year-product number” (NNNNN-NN-NNNNN) where “submitter ID” is the ID number of the submitter, the “year” is the year within which data on the product were submitted for the first time, and “product number” is the number attributed by the submitter to the product when submitting data for the first time.

In order to make statements about the need of a specific situation RELATED TO INGREDIENTS to be flagged. We should have a table with the accepted amounts or concentrations of ingredients by type of tobacco product. At the moment, the only available information that we could identify as a reference is the two documents produced in 2012 by RIVM<sup>1</sup> and DKFZ<sup>2</sup>.

In collaboration with WP8 the target ingredients and additives should be defined and assessed.

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<sup>1</sup> Tobacco additives. Information for professionals. National Institute for public health and the environment. [www.rivm.com](http://www.rivm.com)

<sup>2</sup> Additives in tobacco products.Dkfz. German Cancer research center in the Helmholtz association. [www.tabakkontrolle.de](http://www.tabakkontrolle.de)

Analysis by TP-ID is very time consuming because of the high numbers of TP-IDs. Therefore, this analysis is done only on main issues.

A selection of most frequent ingredients and cross checks with toxicity indicator variables is the only way to start exploring more thoroughly in the data set.

### 3 Results of Greece and Spain

The dataset used for this report contained data introduced to EU-CEG from 1<sup>st</sup> June 2016 to 25<sup>th</sup> July 2019. The current report is organized by reporting data on main variables and presenting the data for both countries, Spain (ES) and Greece (GR)

The data set on products contains a total of 7,648 and 2,440 notifications of **different products** (TP-ID) for Spain and Greece, respectively. There are 259,704 and 141,046 notifications on **other ingredients**. There are 13,962 and 5,097 different types of **presentations**. The number of entries on **tobacco ingredients** is 24,497 and 10,954. Finally, the number of entries on **emissions** is 2,896 and 1,948.

#### 3.1 Completeness and consistency of all tobacco products data

As explained in methodology section, each one of the Spanish and Greek EU-CEG data sets has been treated separately for the analysis resulting on the following data files.

##### 3.1.1 Product data files

Contains 19 variables: 15 to describe all products and 4 variables specific to cigars, cigarettes and cigarrillos. The variables are: submission type, submission start date, product id other, product same composition other, product type, product length, product diameter, product weight, product tobacco weight, product manufacturer, product filter, cigarette characterizing flavour, cigarette filter ventilation, cigarette filter drop pressure closed, cigarette filter drop pressure open, smokelessph, smokeless nicotine content, roll your own pipe nicotine content and product-ID.

##### 3.1.2 Presentations data files

Contains 13 variables: National market, brand name, brand subtype name, launch date, withdrawal indication, withdrawal date, product number type, product number, package type, package units, package net weight, other market data(y/n), and product-ID.

##### 3.1.3 Other ingredients data files

Contains 25 variables as follows: Category, category other, name, CAS number, CAS additional, FEMA number, FL number, EC number, quantity fluctuate, recipe quantity, recipe range min, recipe range max, measured mean quantity, measured SD, measured number, function, function other, toxicological data available, tox emission, tox CMR, tox cardiopulmonary, tox addictive, tox other and product-ID.

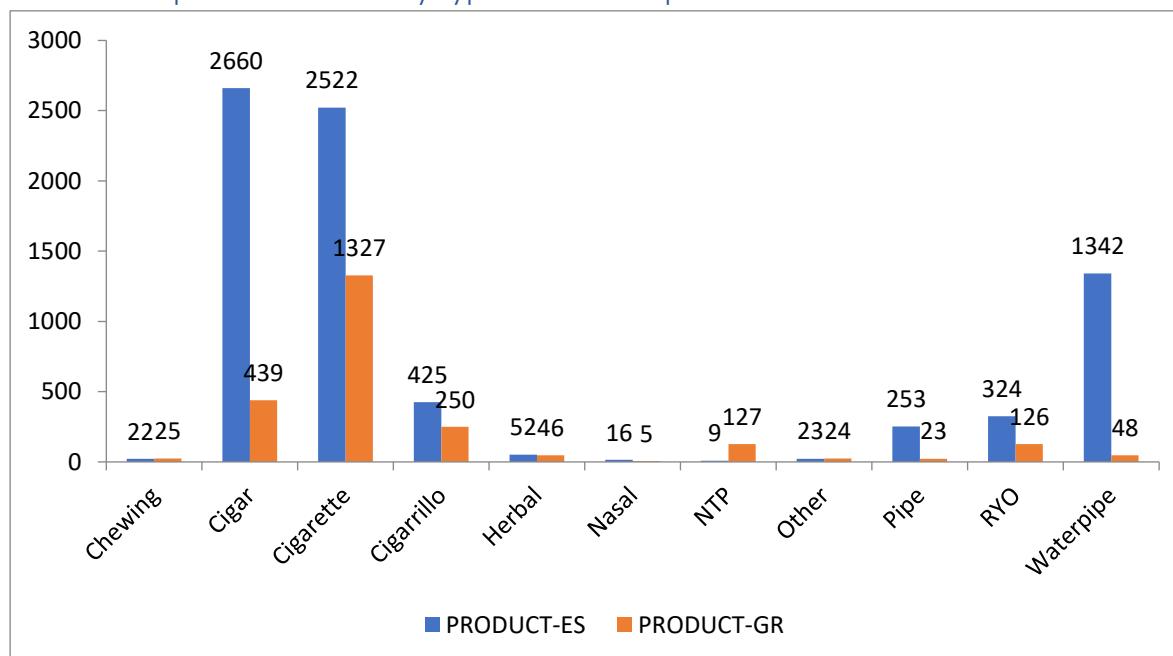
##### 3.1.4 Tobacco ingredients data files

Contains 8 variables: Tobacco part type, tobacco part type other, tobacco leaftype, tobacco leaftype other, tobacco leaf cure method, tobacco leaf cure method, tobacco quantity and product-ID.

##### 3.1.5 TNCO and other emissions data files

Contains 10 variables: TAR, nicotine, CO, TNCO lab and product-ID.

### 3.2 Descriptive univariate by type of tobacco product



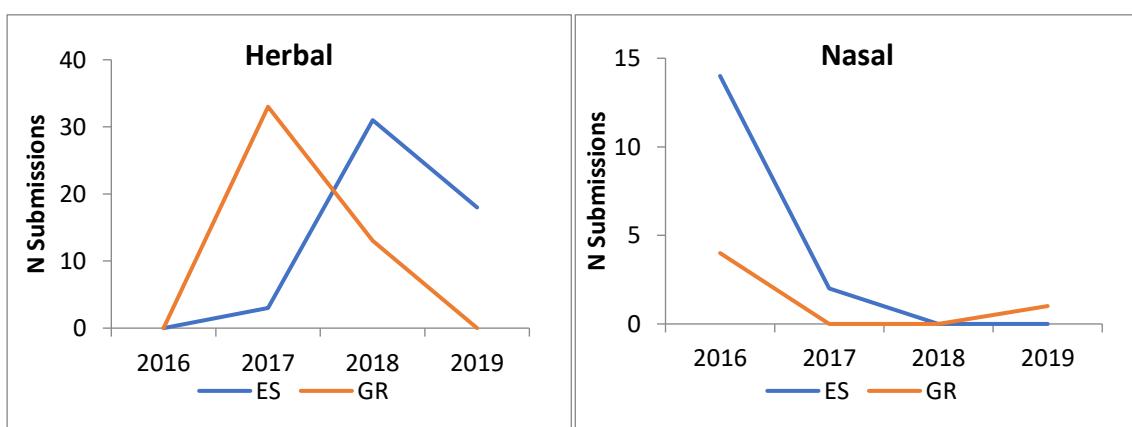
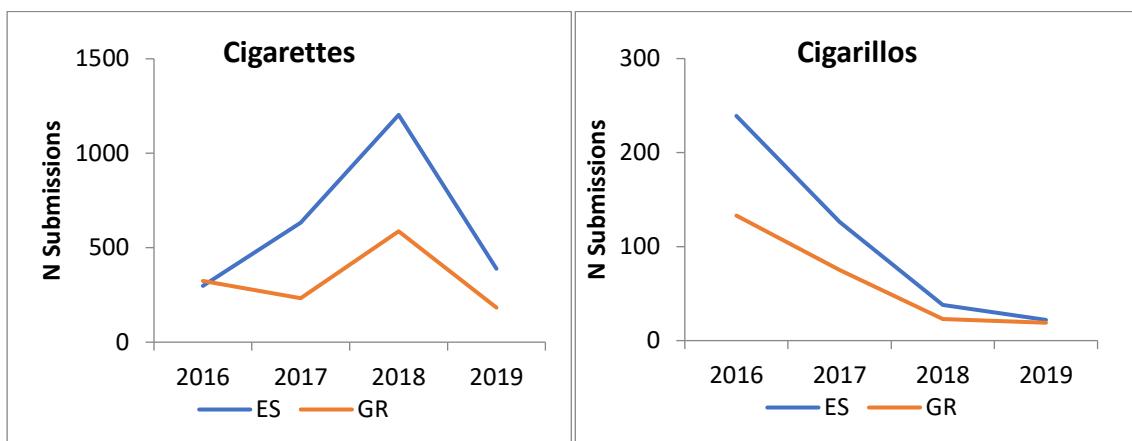
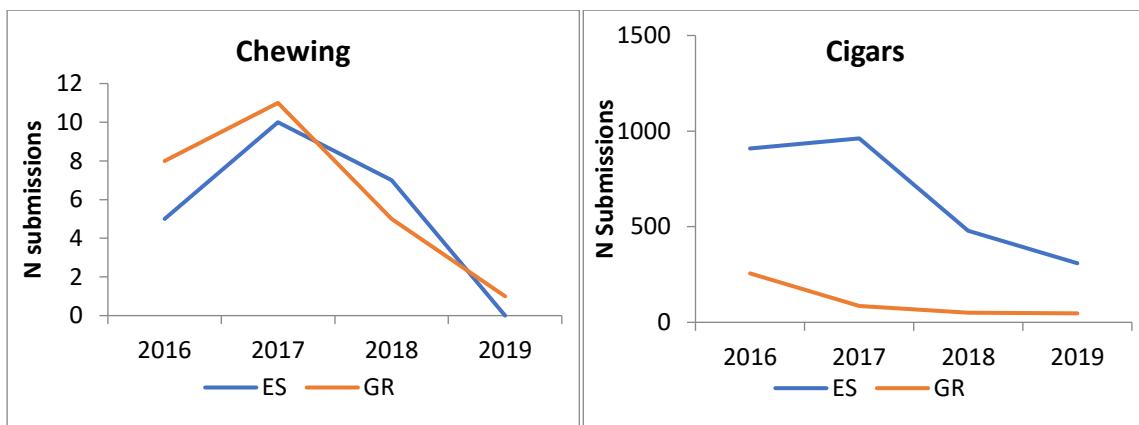
	PRODUCT-ES	PRODUCT-GR	PRODUCT-ALL
<b>Chewing</b>	22	25	47
<b>Cigar</b>	2660	439	3099
<b>Cigarette</b>	2522	1327	3849
<b>Cigarillo</b>	425	250	675
<b>Herbal</b>	52	46	98
<b>Nasal</b>	16	5	21
<b>Novel Tobacco Product</b>	9	127	136
<b>Other</b>	23	24	47
<b>Pipe</b>	253	23	276
<b>Roll Your Own</b>	324	126	450
<b>Waterpipe</b>	1342	48	1390
<b>ALL</b>	7648	2440	10088

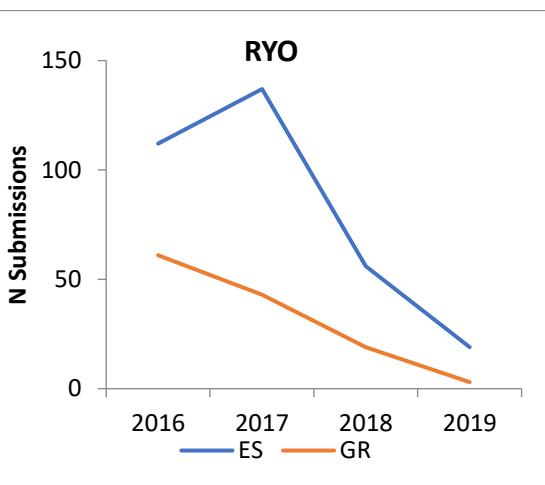
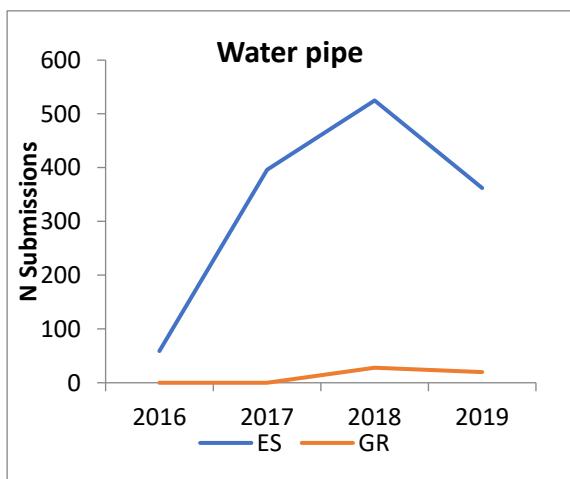
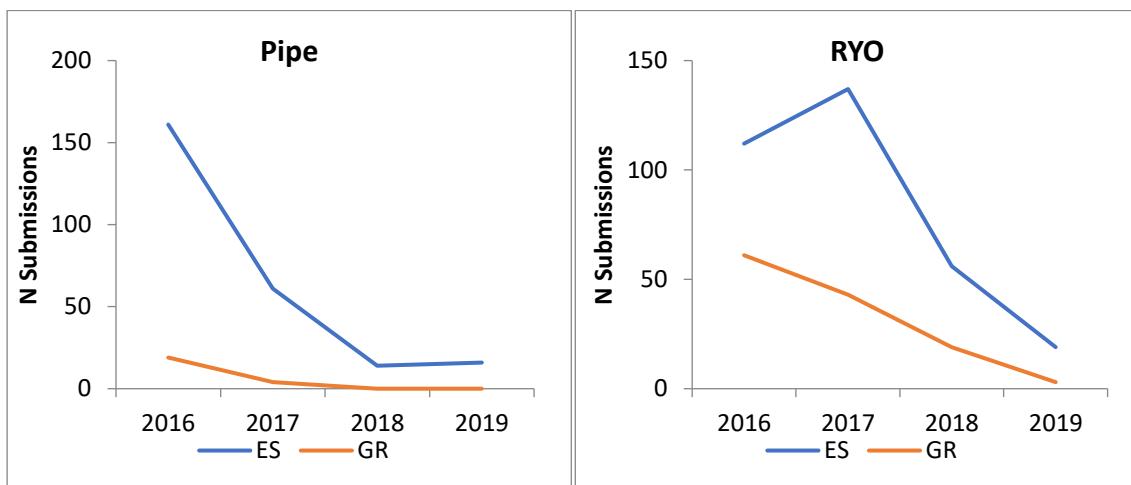
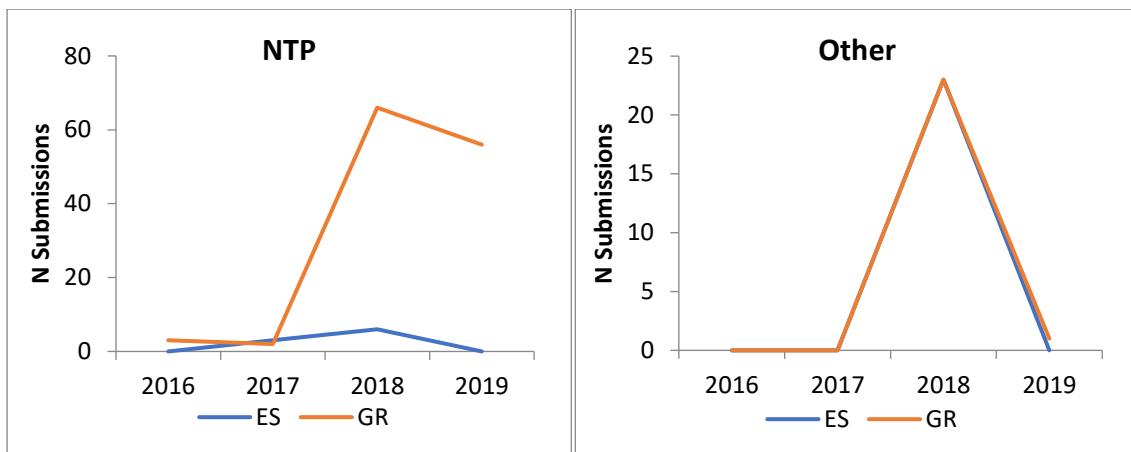
Cigar, cigarette, waterpipe and cigarillo are, in this order, the most frequently notified products in Spain. While in Greece, there are cigarette, cigar, cigarillo and NTP, the ones mostly notified.

Year	Product Type	ES	GR	Total
2016	Chewing tobacco	5	8	13
	Cigar	910	256	1166
	Cigarette	298	325	623
	Cigarillo	239	133	372
	Herbal product for smoking	0	0	0
	Nasal tobacco	14	4	18
	Novel tobacco product	0	3	3

	Other	0	0	0
	Pipe tobacco	161	19	180
	Roll your own tobacco	112	61	173
	Waterpipe tobacco	59	0	59
2017	Chewing tobacco	10	11	21
	Cigar	962	86	1048
	Cigarette	633	232	865
	Cigarillo	126	75	201
	Herbal product for smoking	3	33	36
	Nasal tobacco	2	0	2
	Novel tobacco product	3	2	5
	Other	0	0	0
	Pipe tobacco	61	4	65
	Roll your own tobacco	137	43	180
2018	Waterpipe tobacco	396	0	396
	Chewing tobacco	7	5	12
	Cigar	479	50	529
	Cigarette	1203	587	1790
	Cigarillo	38	23	61
	Herbal product for smoking	31	13	44
	Nasal tobacco	0	0	0
	Novel tobacco product	6	66	72
	Other	23	23	46
	Pipe tobacco	14	0	14
2019	Roll your own tobacco	56	19	75
	Waterpipe tobacco	525	28	553
	Chewing tobacco	0	1	1
	Cigar	309	47	356
	Cigarette	388	183	571
	Cigarillo	22	19	41
	Herbal product for smoking	18	0	18
	Nasal tobacco	0	1	1
	Novel tobacco product	0	56	56
	Other	0	1	1
	Pipe tobacco	16	0	16
	Roll your own tobacco	19	3	22
	Waterpipe tobacco	362	20	382

(\*) Other: Product placed on the market before 19 May 2014, not covered by categories 1-9





### 3.2.1 Chewing tobacco

#### 3.2.1.1 Product details

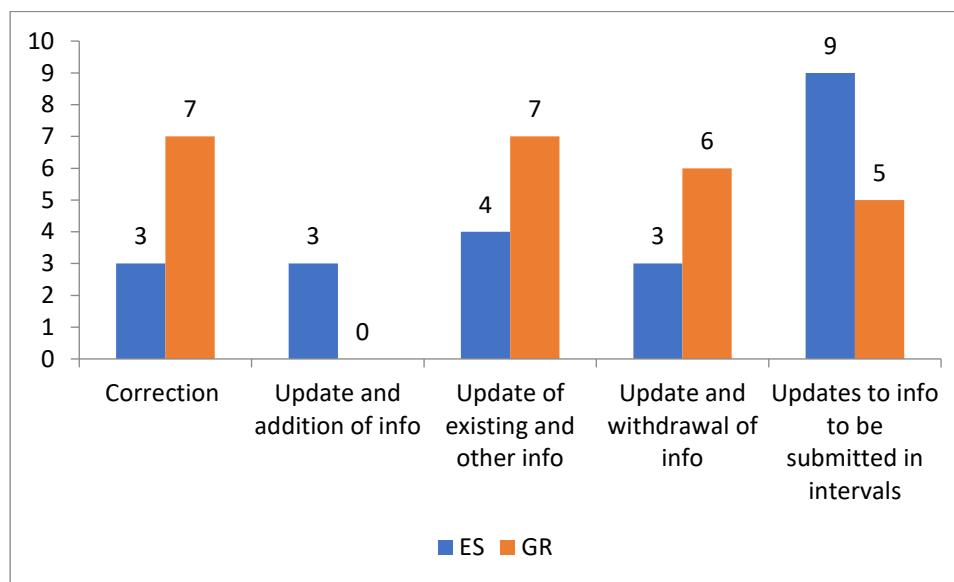
##### 3.2.1.1.1 Products id

There are 47 submissions with different product ids of chewing tobacco (22 from Spain and 25 from Greece). All of them are submitted by the manufacturer.

##### 3.2.1.1.2 Submission type

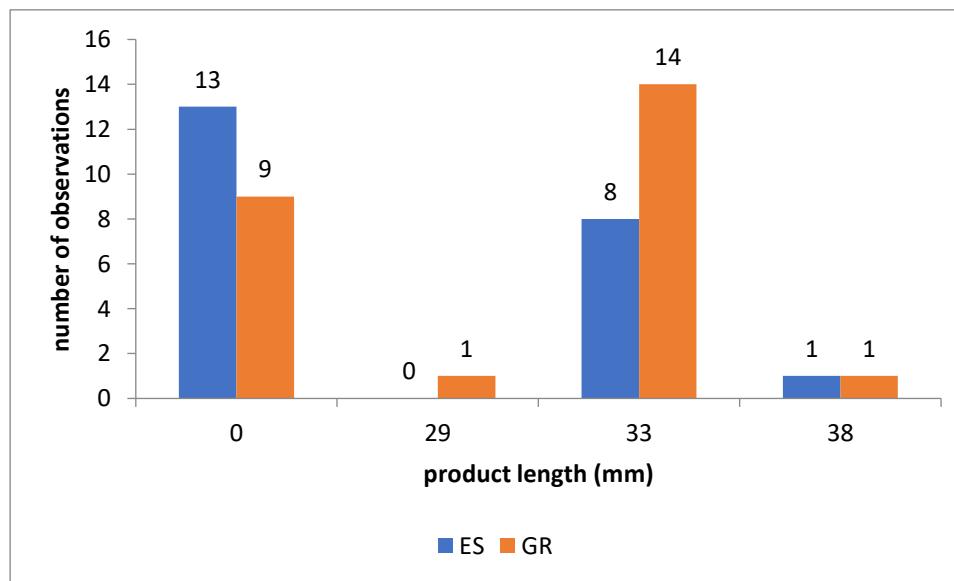
*Is the type of submission for the product.*

All these submissions imply a new product ID version



##### 3.2.1.1.3 Product length

*Is the average length of the product unit in mm.*



##### 3.2.1.1.4 Product weight

*Is the weight of one product unit (one unit for loose tobacco is 1 g) including the moisture, in mg*

Product weight (mg)	Obs	Mean	[95% Conf.	Interval]
ES	22	764,55	616,36	912,73
GR	25	730,72	634,80	826,64

### 3.2.1.1.5 Product tobacco weight

*Is the total weight of the tobacco in one product unit in mg*

Product tobacco Weight (mg)	ES	GR
0,96	1	0
0,998	1	0
222,5	0	1
295	0	1
304	0	1
315	0	1
342	0	1
374,66	1	0
375	2	0
376,8	3	0
377	1	0
386	1	1
408	0	1
412,5	0	1
416	1	1
422	0	1
426,1	1	1
428,8	0	1
430,6	0	1
431,9	0	1
446,7	1	1
449,9	0	1
453,1	0	1
453,2	1	1
464,1	1	0
465,9	1	1
470	1	1
475	0	1
482,66	1	0
485,6	1	1
613,6	2	1
650	1	1
11016	0	1

### 3.2.1.1.6 Means product tobacco weight

Product tobacco weight (mg)	Obs	Mean	[95% Conf.	Interval]
-----------------------------	-----	------	------------	-----------

ES	22	409,43	340,48	478,38
GR	25	849	-26,34	1.724

## 3.2.1.1.7 % product tobacco weight over total weight

%	Obs	Mean	[95% Conf.	Interval]
ES	22	409,43	340,48	478,38
GR	25	849	-26,34	1.724

## 3.2.1.1.8 Smokeless ph

Smokeless ph (ph)	Obs	Mean	[95% Conf.Interval]
ES	22	-	-
GR	25	8,55	8,20-8,91

## 3.2.1.2 Presentation details

## 3.2.1.2.1 Brand names

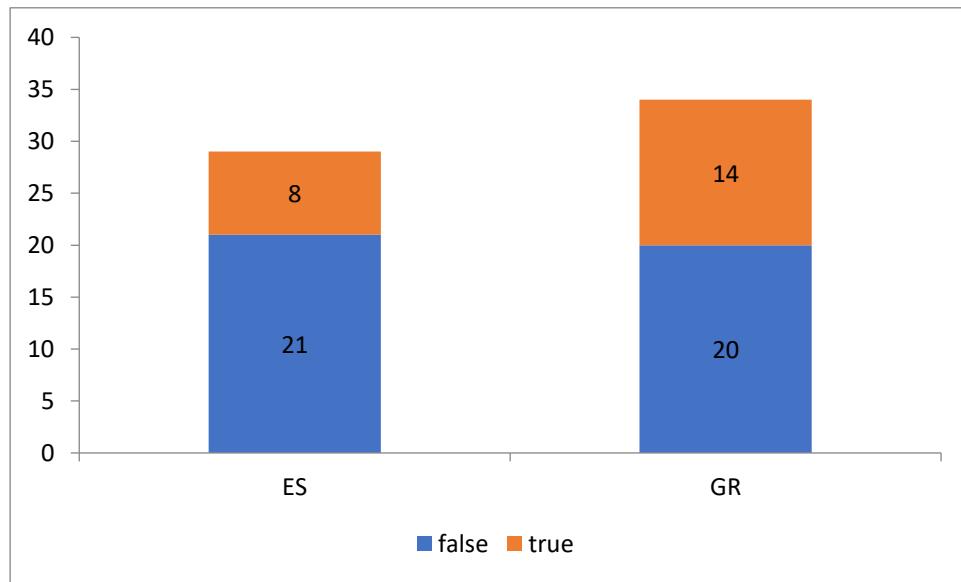
ProductBrandName	ES	GR	Total
A	2	1	3
B	2	2	4
C	2	2	4
D	0	2	2
E	0	2	2
F	2	2	4
G	2	0	2
H	2	0	2
J	2	0	2
K	1	0	1
L	1	0	1
M	1	0	1
N	1	0	1
Ñ	0	2	2
O	1	0	1
P	1	0	1
Q	0	4	4
R	9	17	26
Total	29	34	63

Highlighted in yellow are the pseudo-brandnames equally submitted in ES and GR

## 3.2.1.2.2 Product withdrawal indication

*Indication that the submitter plans to withdraw the product from the market*

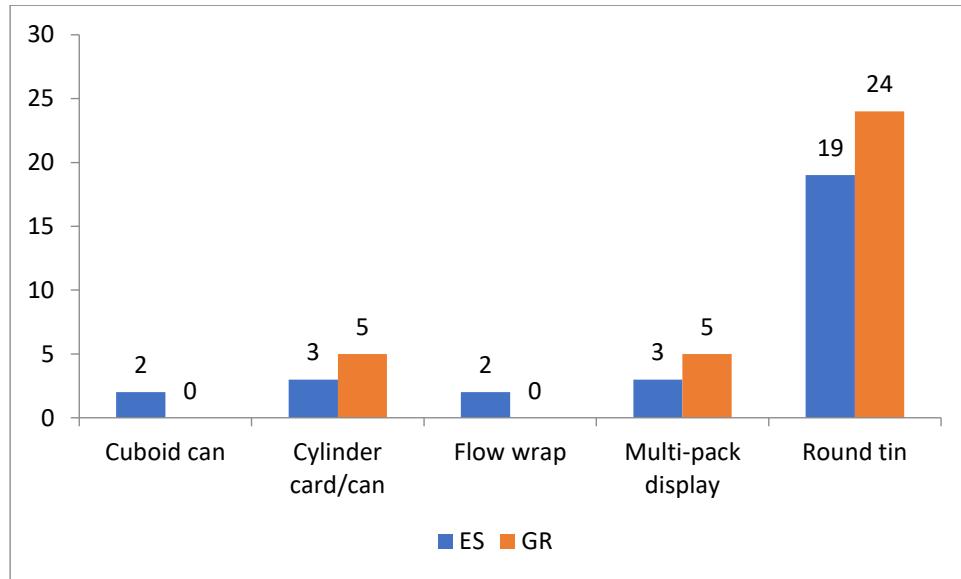
This variable should be taken with caution because some products may stay in the market although their notified withdrawal indication.



### 3.2.1.2.3 Package types

#### *Type of product package*

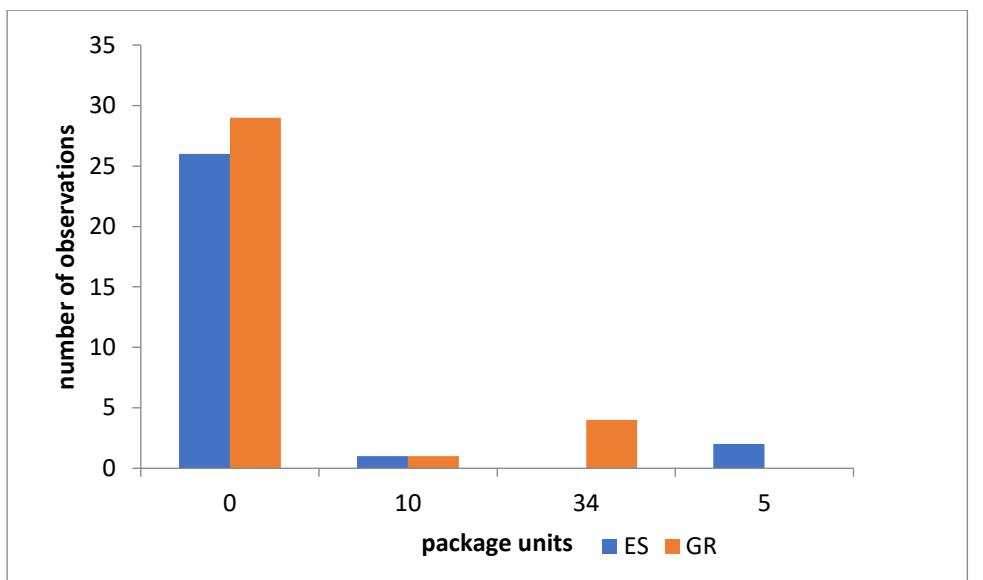
Round tin is the most frequent package type in ES and GR with 65.5% and 70.5% of the notifications.



### 3.2.1.2.4 Package units

#### *Number of individual product units in the unit packet*

This variable is inconsistently entered



### 3.2.1.2.5 Package net weight

*Net weight of one unit packet in g*

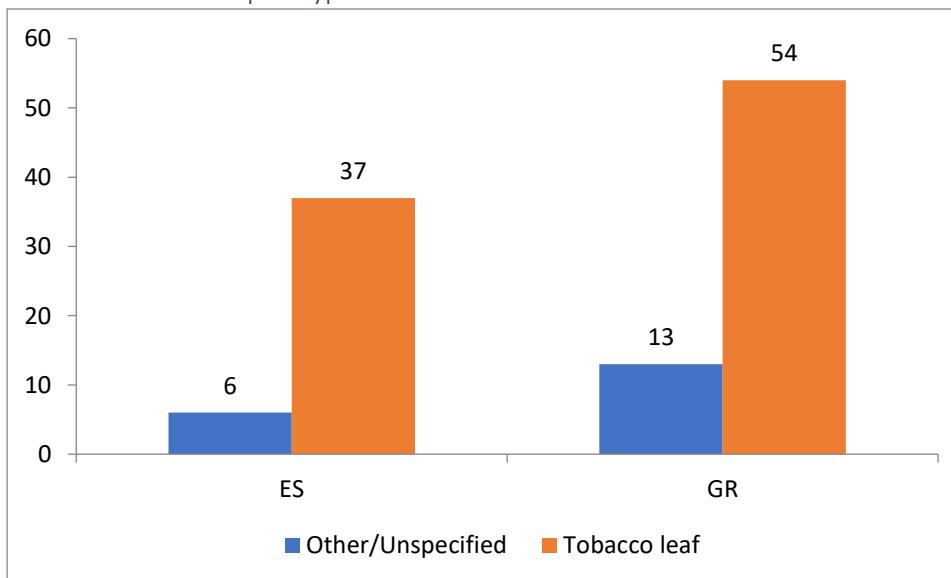
The mean package net weight is 15.35 and 18.11 in ES and GR, respectively.

Package net weight (mg)	Obs	Mean	[95% Conf.Interval]
ES	29	15,35	11,15-19,53
GR	34	18,11	15,85-20,37

### 3.2.1.3 Tobacco ingredients

This data file contains 110 observations

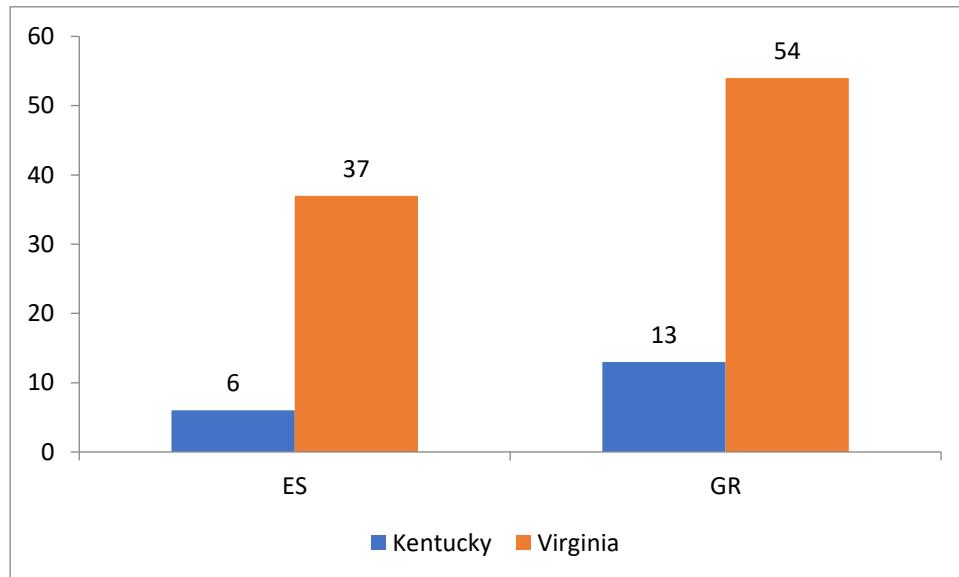
#### 3.2.1.3.1 Tobacco part type



### 3.2.1.3.2 Tobacco leaf type

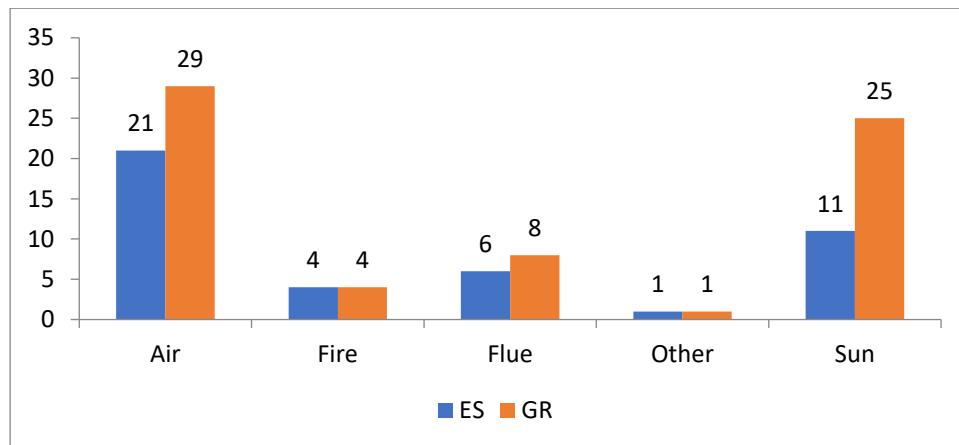
*Type of tobacco leaf used*

Virginia is the most frequent tobacco leaf type



### 3.2.1.3.3 Tobacco leaf cure method

*Type of tobacco leaf used*



### 3.2.1.3.4 Tobacco quantity

*Weight per product unit in mg*

Tobacco quantity (mg)	Obs	Mean	[95% Conf.	Interval]
ES	43	209,69	162,83	256,54
GR	67	157,26	129,91	184,62

### 3.2.1.4 Other ingredients

This data file contains 847 observations and 148 different names of ingredients

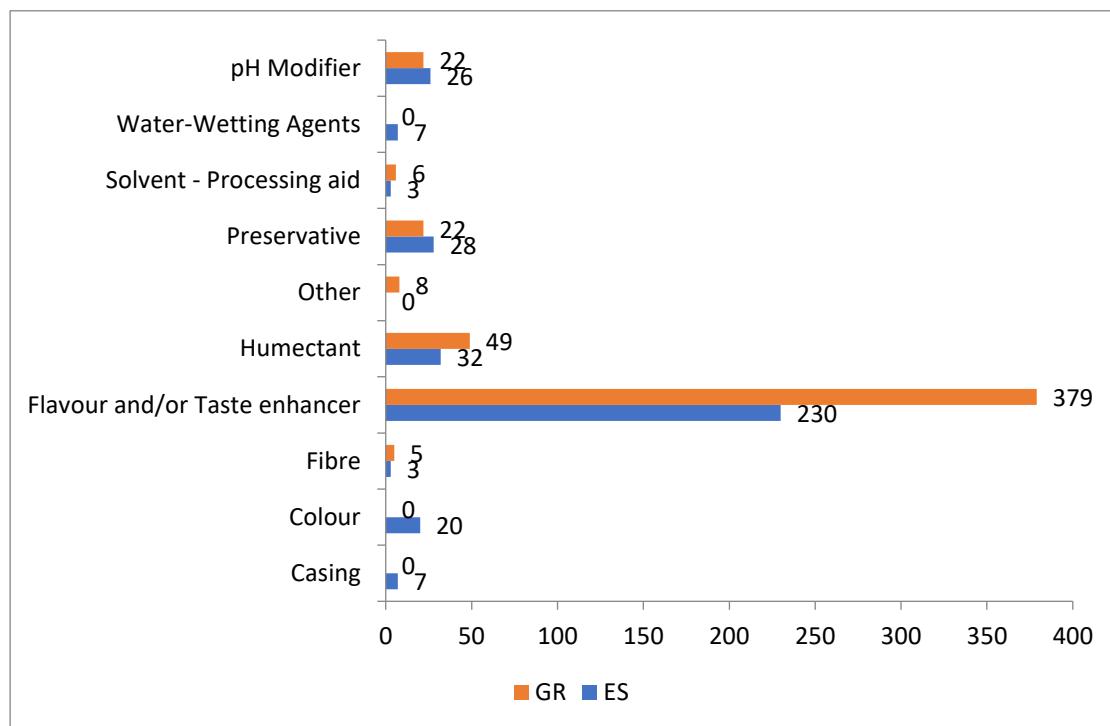
#### 3.2.1.4.1 Name

*Is the chemical name of the ingredient*

SP: 112 different ingredients in 356 observations  
 GR: 137 different ingredients in 491 observations

### 3.2.1.4.2 Function

*Is (are) the function(s) of the ingredient.* Only the first function is considered for this analysis



### 3.2.1.4.3 Quantity fluctuate

*Is the indication whether the ingredient quantity fluctuates across production batches.*

Quantity fluctuate	ES	%	GR	%
false	147	41,29	202	41,14
true	209	58,71	289	58,86
Total	356		491	

### 3.2.1.4.4 Recipe quantity

*Is the standard weight of the ingredient included in one product unit in mg according to recipe.*

The following names are the 10 most frequently notified ingredients in chewing tobacco products

Country	ES			GR		
	Name of the ingredient CAS number	Obs.	Mean recipe quantity (mg/product unit)	95%CI	Obs.	Mean recipe quantity (mg/product unit)
Propylene glycol 57-55-6	12	18,7	13,7-23,7	25	27,5	17,8-37,2
Sodium carbonate 497-19-8	11	33,5	26,24-40,82	24	27,43	23,35-31,52
Sodium chloride 7647-14-5	11	23,87	21,44-26,29	24	33,12	21,4-44,85
Potassium sorbate 584-08-7	11	11,38	(-1,7 to 2,4)	21	6,4	1,1-11,8

Glycerol 56-81-5	10	18,6	11,5-25,7	20	17,15	12,8-21,4
Spray dried licorice 68916-91-6	6	6,35	1,85-10,8	17	5	3,6-6,3
Water 7732-18-5	17	443,9	401,4-486,5	9	353,9	257,1-450,7
Spearmint flavor ?	4	8,4	7,7-9,1	7	9,5	6,4-12,6
Ethanol 64-17-5	3	0,69	0,4-0,9	6	1,06	(-0,16 to 2,3)
Steviolglycoside 57817-89-7	3	15,15	13,9-16,3	6	13,6	10,1-17,1

### 3.2.1.5 Toxicological data

#### 3.2.1.5.1 Tox data available

*Is the availability of toxicological data, concerning a substance, either in isolation or as part of a mixture. In each case, specify whether the toxicological data relate to the substance in burnt or unburnt form.*

All the variables related to toxicological data are answered as “false” for both countries.

#### 3.2.1.5.2 Existence of studies indicating the chemistry and/or toxicity (tox emissions,tox CMR,tox cardiopulmonary,tox addictive)

We can understand that there are no studies indicating the chemistry and/or toxicity in the terms above mentioned

### 3.2.1.6 TNCO and other emissions

This chapter is not applicable to chewing tobacco

### 3.2.2 Cigar

#### 3.2.2.1 Product details

##### 3.2.2.1.1 Products ID

There are 2564 different product IDs and 3099 submissions/observations of cigars (2660 from Spain and 439 from Greece)

Manufacturer identification	Importer		Manufacturer		Total	
	observations	%	observations	%	observations	%
ES	567	21.3	2093	78.7	2660	100
GR	4	0.9	435	99.1	439	100
Total	571	18.4	2528	81.6	3099	100

In Spain there are 21% of the submissions made by the Importer.

##### 3.2.2.1.2 Submission type

We understand that the category “reporting of information on a new product” is the one informing us on the number of emerging products (TP-ID number)

All the other submissions imply a new product ID version or a submission with a link to the previous TP-ID.

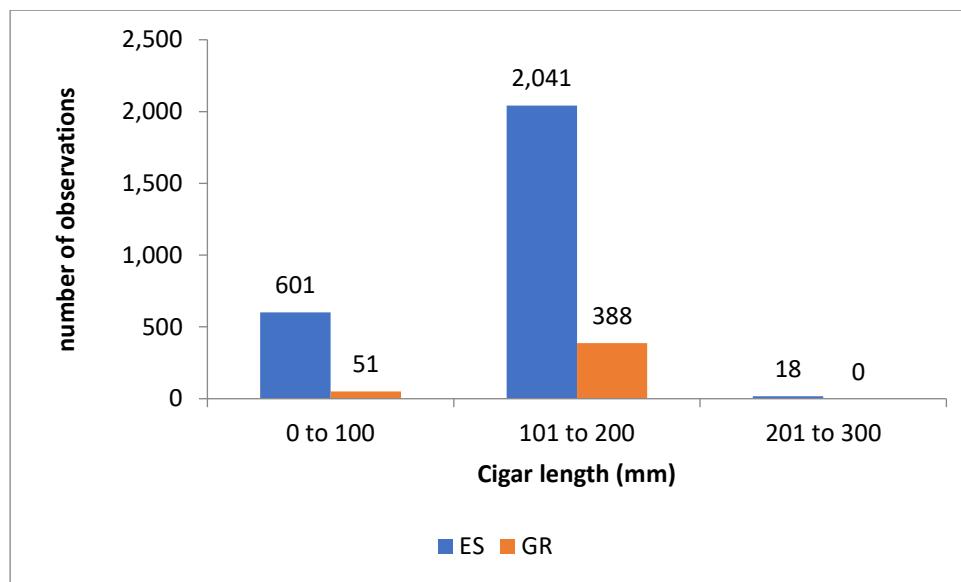
Submission type	ES	%	GR	%
Correction (new Product ID version).	410	15.4	52	11.8
Modification of information on a previously reported product leading to a new TP-ID number (with a link to the previous TP-ID).	91	3.4	0	0.0
Reporting of information on a new product (TP-ID number)	503	18.9	115	26.2
Update of existing product and “addition of information in section 3.B on product format and/or Member State(s) notified (new Product ID version).	294	11.1	25	5.7
Update of existing product and “other information (new Product ID version).	76	2.8	21	4.8
Update of existing product and “withdrawal of information in section 3.B on product format and/or Member State(s) notified (new Product ID version. To note: This may include withdrawal of a product or a product format in all or certain Member State(s)).	295	11.1	59	13.4
Updates to information to be submitted in regular intervals/annually such as sales data or actual quantities of ingredients (new Product ID version).	991	37.3	167	38.0
	2660	100.0	439	100.0

##### 3.2.2.1.3 Product manufacturer identification

All the identifications are from manufacturers

##### 3.2.2.1.4 Product length (mm)

Type	Obs	Mean	[95% Conf.	Interval]
ES	2,660	123	112	135
GR	439	129	126	131



### 3.2.2.1.5 Means product diameter (mm)

Type	Obs	Mean (mm)	[95% Conf.	Interval]
ES	2,660	29.26	11.67	46.85
GR	439	18.73	17.84	19.63

### 3.2.2.1.6 Means product weight (mg)

Type	Obs	Mean (mg)	[95% Conf.	Interval]
ES	2,660	36841.22	29047.83	44634.62
GR	439	18488.73	12492.59	24484.87

### 3.2.2.1.7 Means product tobacco weight (mg)

Type	Obs	Mean (mg)	[95% Conf.	Interval]
ES	2,660	12828.87	11904.98	13752.77
GR	439	11106.68	10412.59	11800.77

In Spain 35% of the product weight is tobacco and in Greece the % is 60%

**Product filter** is mentioned to be true in 2% and 1% of the observations of Spain and Greece, respectively.

**Characterizing flavor** is not completed in the cigar products data files

## 3.2.2.2 Presentation details

### 3.2.2.2.1 Brand names

The total number of submissions/observations on presentations is 4076 and there are more than 1000 different Brand names

The 15 most frequently notified brand names in Spain and Greece are:

ES	observations	%	GR	observations	%
a	125	3.54	a	45	8.21
b	81	2.30	h	23	4.20
c	66	1.87	g	18	3.28
d	49	1.39	i	17	3.10
e	56	1.59	q	16	2.92
f	56	1.59	d	12	2.19
g	38	1.08	r	12	2.19
h	33	0.94	s	12	2.19
i	38	1.08	t	11	2.01
j	53	1.50	u	10	1.82
k	47	1.33	v	9	1.64
l	47	1.33	w	8	1.46
m	45	1.28	x	8	1.46
n	43	1.22	y	7	1.28
o	42	1.19	z	7	1.28
p	2709	76.8	p	215	60.7
Total	3528	100	Total	548	100

Highlighted in yellow are the pseudo-brandnames equally submitted in ES and GR

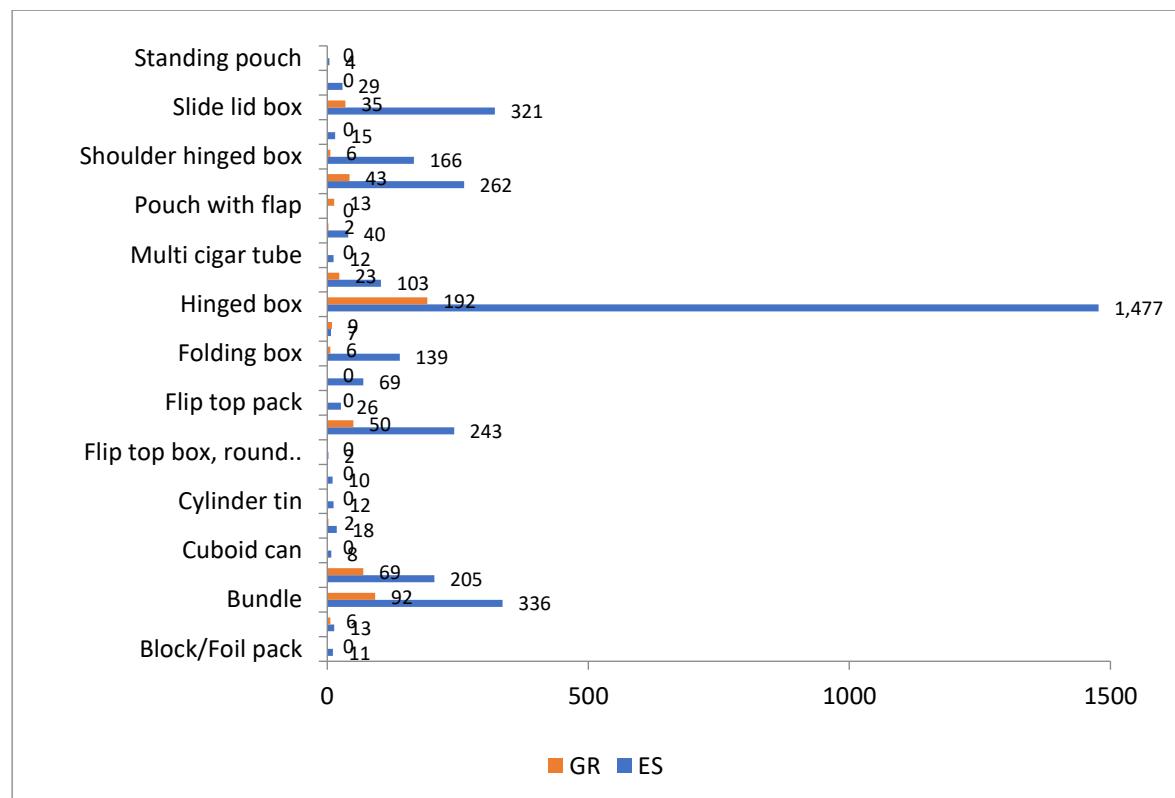
### 3.2.2.2.2 Withdrawal indication

This variable is not very reliable because although some products are mentioned to have a withdrawal indication may be still in the market.

	false	%	true	%	Total	%
ES	3,316	93.99	212	6.01	3,528	100
GR	399	72.81	149	27.19	548	100

### 3.2.2.2.3 Package type

Most frequent type of package in both, Spain and Greece are hinged box and bundle, followed in Spain by Slide lid box and shell/hull, and in Greece by carton box and flip top box.



Product Package Type	ES	GR	Total
Block/Foil pack	11	0	11
Bucket (Cylindrical)	13	6	19
Bundle	336	92	428
Carton box	205	69	274
Cuboid can	8	0	8
Cylinder card/can	18	2	20
Cylinder tin	12	0	12
Flip top box, beveled	10	0	10
Flip top box, rounded	2	0	2
Flip top box, square	243	50	293
Flip top pack	26	0	26
Flow wrap	69	0	69
Folding box	139	6	145
Folding pouch	7	9	16
Hinged box	1,477	192	1,669
Hinged tin	103	23	126
Multi cigar tube	12	0	12
Multi-pack display	40	2	42
Pouch with flap	0	13	13
Shell/Hull and Slide	262	43	305
Shoulder hinged box	166	6	172
Single tube tin	15	0	15
Slide lid box	321	35	356
Soft pack	29	0	29
Standing pouch	4	0	4
Total	3,528	548	4,076

Highlighted in yellow are the most frequent package types equally submitted in ES and GR

### 3.2.2.4 Package units

The most frequent number of package units is within the range of 1 to 10.

In Spain, there are 4 package types with 1000 package units (two Bundle and one Shell/Hull and Slide box and one shoulder hinged box)

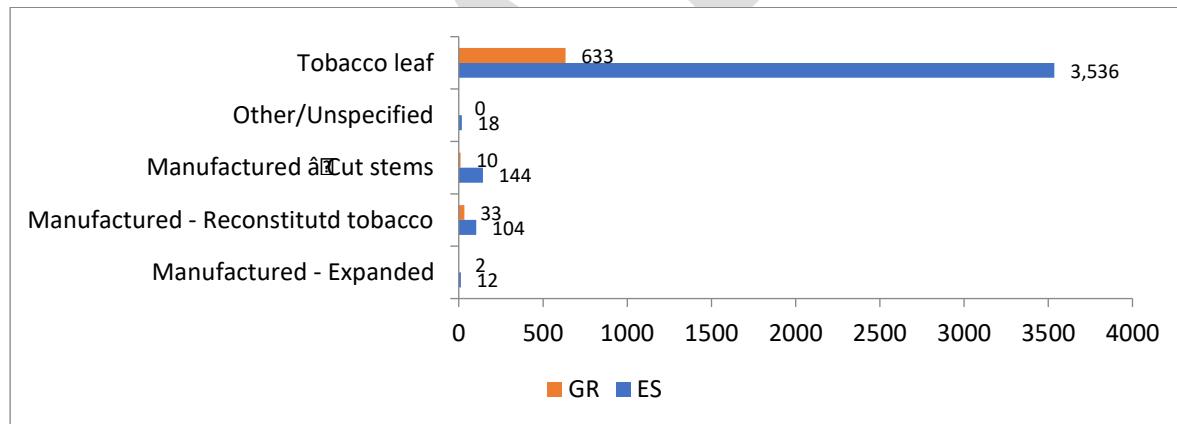
pack unit	ES	GR	Total
1 to 10	1,211	341	1,552
11 to 20	1,143	97	1,240
21 to 50	1,143	110	1,253
51 to 100	27	0	27
101 to 1000	4	0	4
total	3,528	548	4,076

### 3.2.2.3 Tobacco ingredients

There are 4492 observations on tobacco ingredients for cigars (3814 from Spain and 678 from Greece)

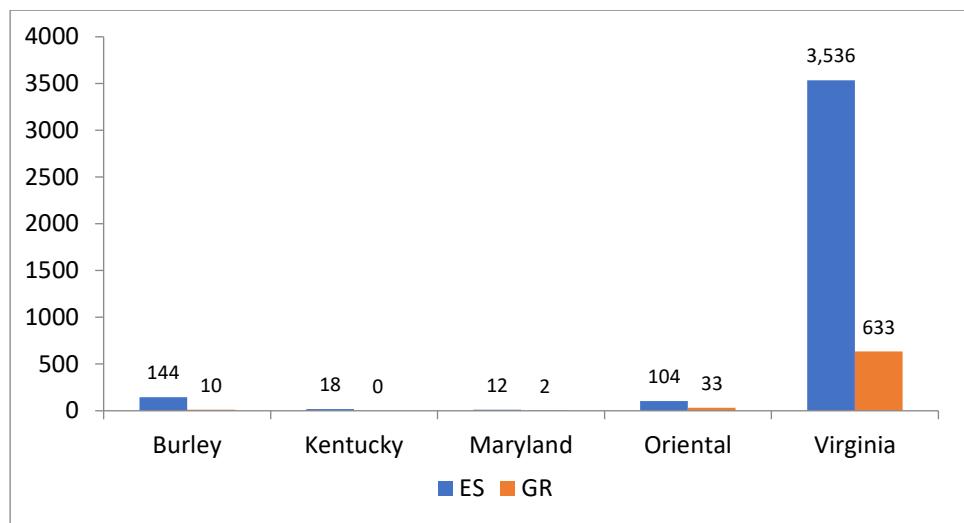
#### 3.2.2.3.1 Tobacco part type

Tobacco leaf type is the most frequent tobacco part type



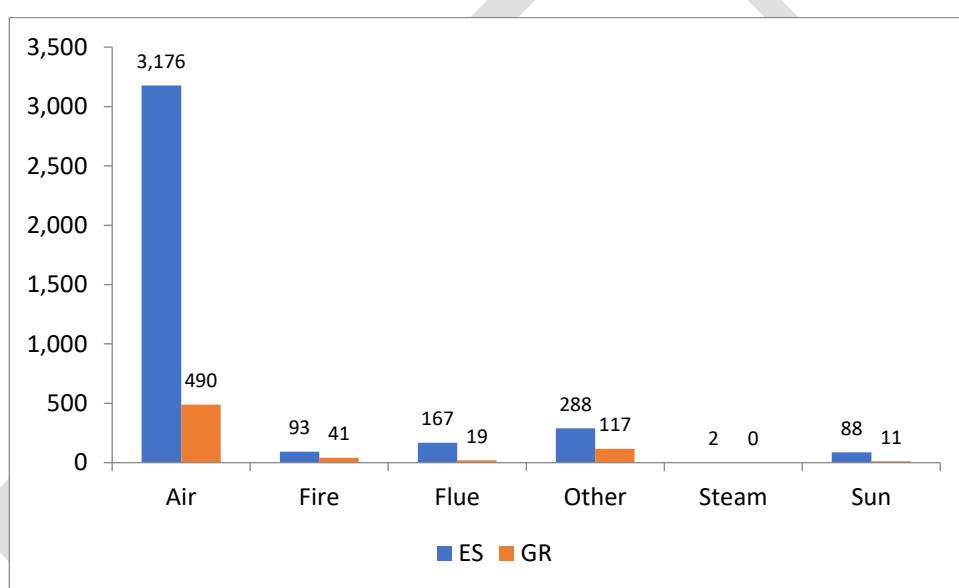
#### 3.2.2.3.2 Tobacco leaf type

Virginia is, by far, the most frequent leaf type in cigars



### 3.2.2.3.3 Tobacco leaf cure method

The mostly used leaf cure method for cigars is air



### 3.2.2.3.4 Tobacco quantity (mg)

The mean tobacco quantity is presented for all presentations without specifying the type of presentation

	Obs	Mean (mg per product unit)	[95% Conf.	Interval]
ES	3,814	12334.46	3855.81	20813.12
GR	678	7179.59	6640.23	7718.94

### 3.2.2.4 Other ingredients characteristics

#### 3.2.2.4.1 Name or CAS

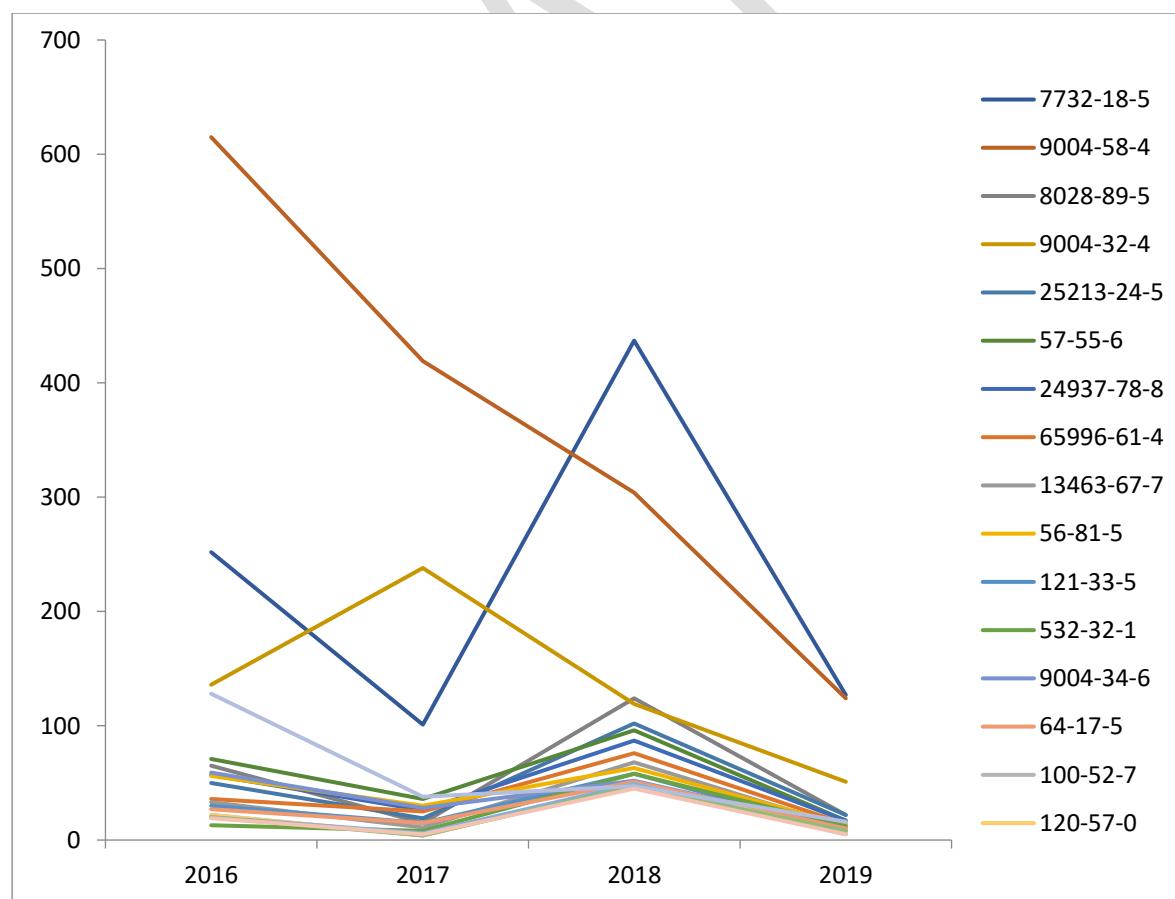
There are 371 out of 10638 (3.5%) and 34 out of 3159 (1.8%) notifications of ingredients without CAS number in Spain and Greece, respectively.

Name of the ingredient is inconsistently entered: example for CAS number “9004-58-4” there are all the following names:

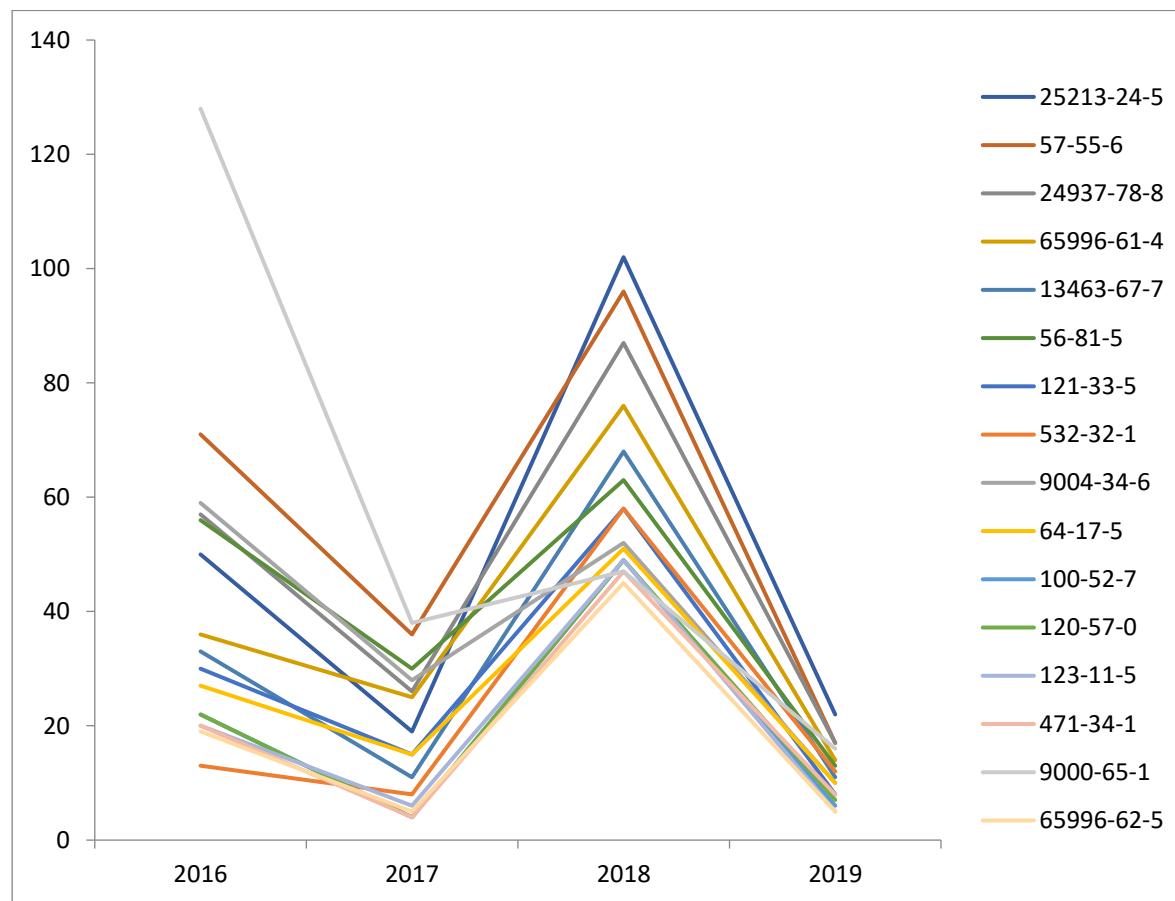
The 15 most frequent ingredients in cigars in Spain are:

CAS number	Ingredients' name	Observations
9004-58-4	Ethyl hydroxyethyl cellulose	1,462
7732-18-5	Water	917
9004-32-4	Carboximethyl cellulose	544
9000-65-1	Gum tragacanth	229
8028-89-5	Caramel syrup	226
57-55-6	Propylene glycol	220
25213-24-5	Polyvinyl alcohol	193
24937-78-8	Ethylene vinyl acetate copolymer	187
56-81-5	Glycerol	162
65996-61-4	Cellulose fibre	151
9004-34-6	Cellulose pulp	149
9004-67-5	Methyl cellulose	142
13463-67-7	Titanium dioxide	123
121-33-5	Vanillin	111
64-17-5	Ethanol	103

Overtime evolution of 20 most frequent ingredients in Spain,



Overtime evolution of 20 most frequent ingredients in Spain, after exclusion of 7732-18-5 (Water), 9004-58-4 (Ethyl hydroxyethyl cellulose), 8028-89-5 (Caramel syrup) and 9004-32-4 (Carboxymethylcellulose)

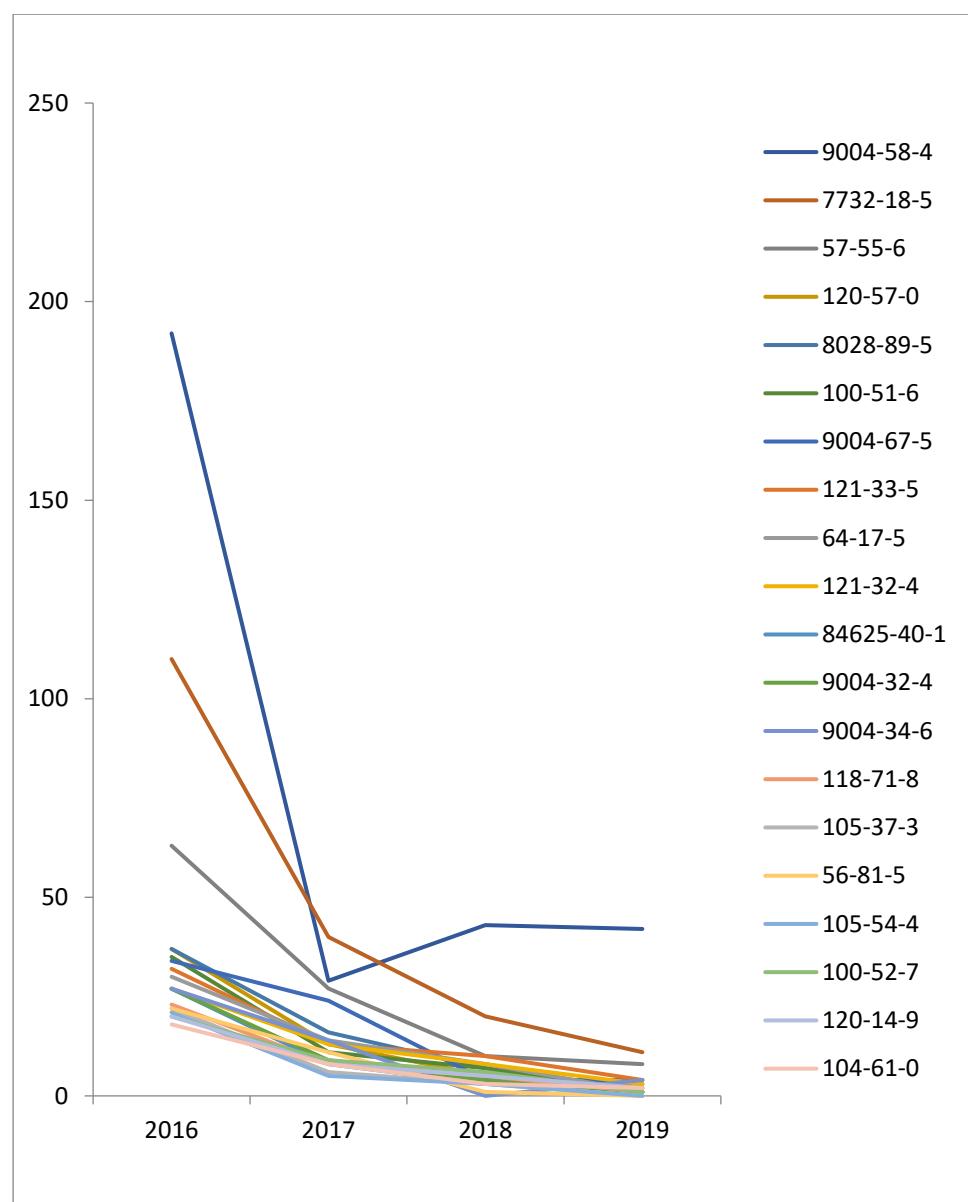


The 15 most frequent ingredients in cigars in Greece are:

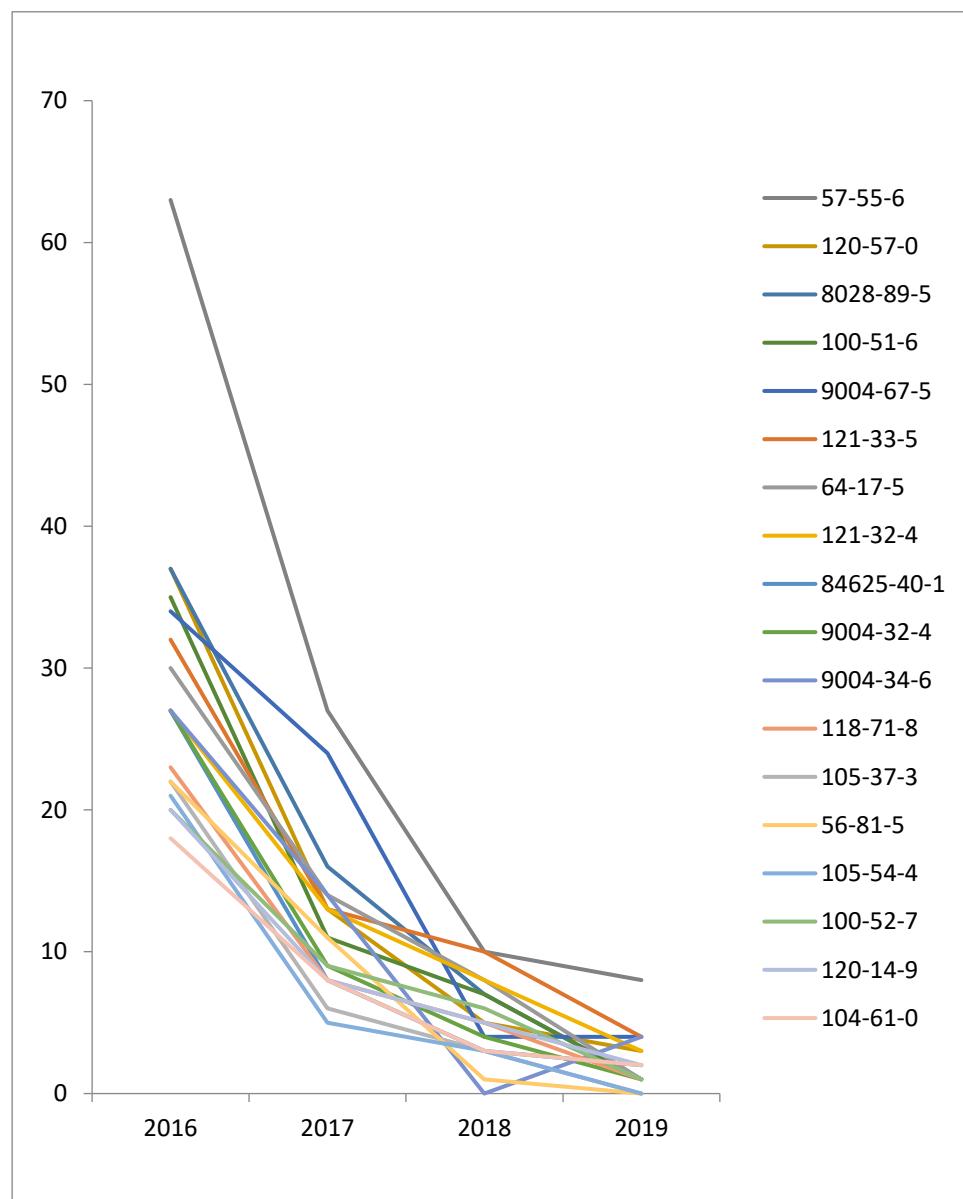
CAS number	Ingredients' name	Observations
9004-58-4	Ethyl hydroxyethyl cellulose	306
7732-18-5	Water	181
57-55-6	Propylene glycol	108
9004-67-5	Methyl cellulose	66
8028-89-5	Caramel syrup	61
121-33-5	Vanillin	59
120-57-0	Piperonal	58
100-51-6	Benzyl alcohol	54
64-17-5	Ethanol	53
121-32-4	Ethyl vanillin	51
9004-34-6	Cellulose pulp	45
9004-32-4	Carboximethyl cellulose	41
84625-40-1	Fenugreek extract	40
9000-65-1	Gum tragacanth	38
118-71-8	Maltol	37

Highlighted in yellow are priority additives

Overtime evolution of 20 most frequent ingredients in Greece.



Overtime evolution of 20 most frequent ingredients in Greece, after exclusion of 7732-18-5 and 9004-58-4.

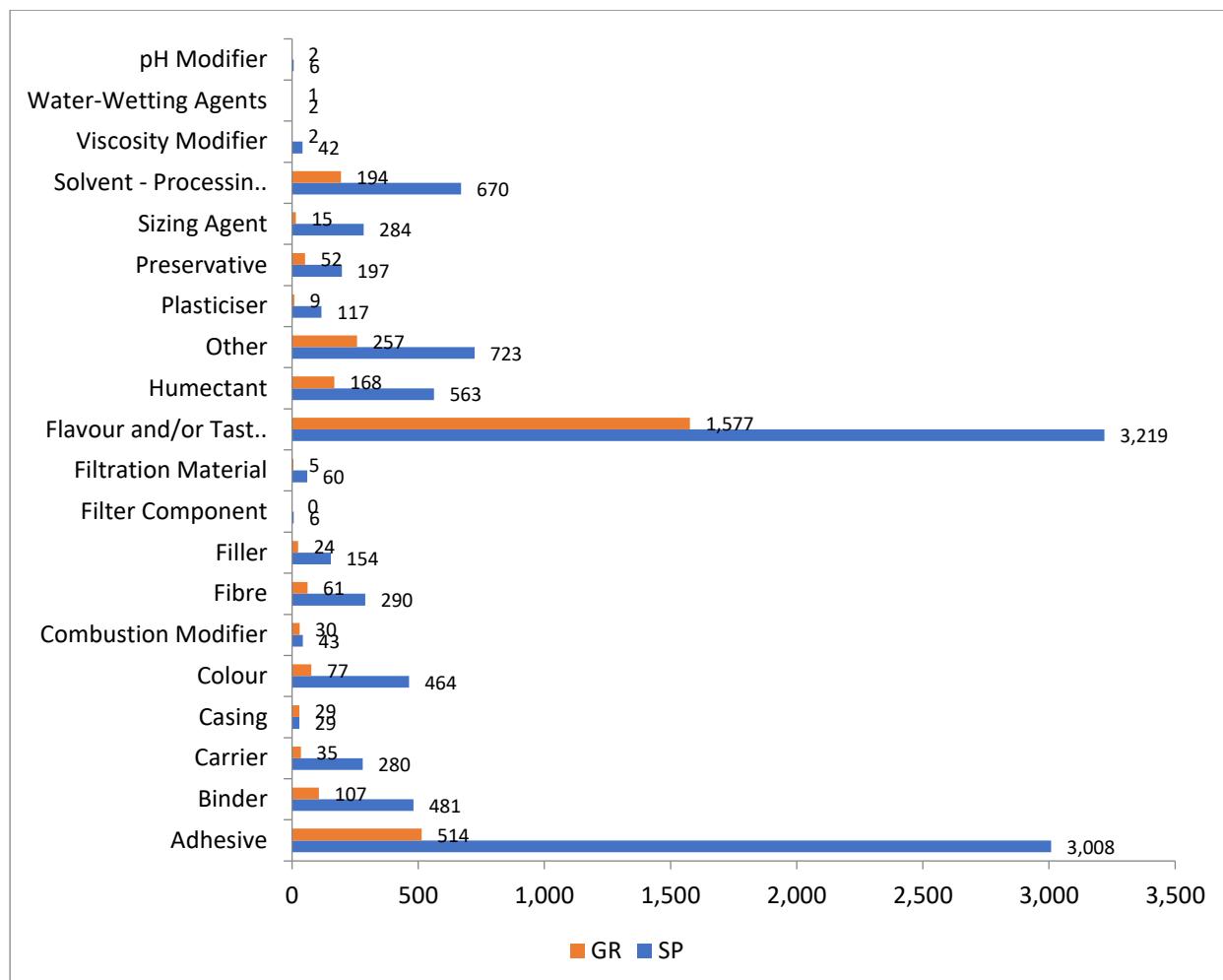


#### 3.2.2.4.2 Ingredient category

This variable is completed as TOBACCO for all products. We think that there is an error in the data file since the initial xml had categories as: burnt and unburnt

#### 3.2.2.4.3 Function

The distribution of ingredient's function does not differ between Spain and Greece, being the most frequently notified ingredient's function: flavor and taste, adhesive, solvent processing aid and humectant, followed by binder, colour and fibre.



#### 3.2.2.4.4 Quantity fluctuate

It is reported that there are no fluctuations notified on quantity of ingredients across production batches

#### 3.2.2.5 Toxicological data

##### 3.2.2.5.1 Tox data available

*Availability of toxicological data, concerning a substance, either in isolation or as part of a mixture. In each case, specify whether the toxicological data relate to the substance in burnt or unburnt status.*

Information on burnt or unburnt status is not available in the current data base. Therefore, this specification will be done once the data are made available.

ToxData	false	%	true	%	Total	%
ES	6,269	58.93	4,369	41.07	10,638	100
GR	2,172	68.76	987	31.24	3,159	100
Total	8,441	61.18	5,356	38.82	13,797	100

### 3.2.2.5.2 Existence of studies indicating the chemistry and/or toxicity (tox CMR)

*Existence of studies related to carcinogenicity, mutagenicity and reproduction toxicity of the ingredient*

ToxCMR	false	%	true	%	Total	%
ES	4,885	45.92	5,753	54.08	10,638	100
GR	1,989	62.96	1,170	37.04	3,159	100
Total	6,874	49.82	6,923	50.18	13,797	100

### 3.2.2.5.3 Existence of studies indicating the chemistry and/or toxicity (tox cardiopulmonary)

*Existence of in vitro and in vivo assays to evaluate the toxicological effects of the ingredient on the heart, blood vessels of respiratory tract*

Tox cardiopulmonary	false	%	true	%	Total	%
ES	7,522	70.71	3,116	29.29	10,638	100
GR	2,579	81.64	580	18.36	3,159	100
Total	10,101	73.21	3,696	26.79	13,797	100

### 3.2.2.5.4 Existence of studies indicating the chemistry and/or toxicity (tox addictive)

*Existence of an analysis of the possible addictive properties of the ingredient*

Tox addictive	false	%	true	%	Total	%
ES	10,250	96.35	388	3.65	10,638	100
GR	3,108	98.39	51	1.61	3,159	100
Total	13,358	96.82	439	3.18	13,797	100

### 3.2.2.5.5 Existence of studies indicating the chemistry and/or toxicity (tox other)

*Existence of any other toxicological data not stated above*

ToxOther	false	%	true	%	Total	%
ES	4,212	39.59	6,426	60.41	10,638	100
GR	1,653	52.33	1,506	47.67	3,159	100
Total	5,865	42.51	7,932	57.49	13,797	100

### 3.2.2.6 TNCO and other emissions

The variables informing on these emissions are mostly missing values or filled with 0. We are not sure whether this information should be taken into consideration.

#### 3.2.2.6.1 Tar

*Tar yield according to the ISO standard 4387 with the accuracy of measurements determined in accordance with ISO standard 8243*

TAR	-	0	Total
ES	2,365	295	2,660
GR	358	81	439
Total	2,723	376	3,099

### 3.2.2.6.2 Nicotine

*Nicotine yield according to the ISO standard 10315 with the accuracy of measurements determined in accordance with ISO standard 8243*

Nicotine	-	0	Total
ES	2,365	295	2,660
GR	358	81	439
Total	2,723	376	3,099

### 3.2.2.6.3 CO

*CO yield according to the ISO standard 8454 with the accuracy of measurements determined in accordance with ISO standard 8243*

CO	-	0	Total
ES	2,365	295	2,660
GR	358	81	439
Total	2,723	376	3,099

### 3.2.2.6.4 TNCO lab

*Is the identification of the laboratory used to measure emissions of tar, nicotine and carbon monoxide.*

Out of 3,099 observations there are only 119 (4%) with the field TNCO lab properly completed

### 3.2.3 Cigarette

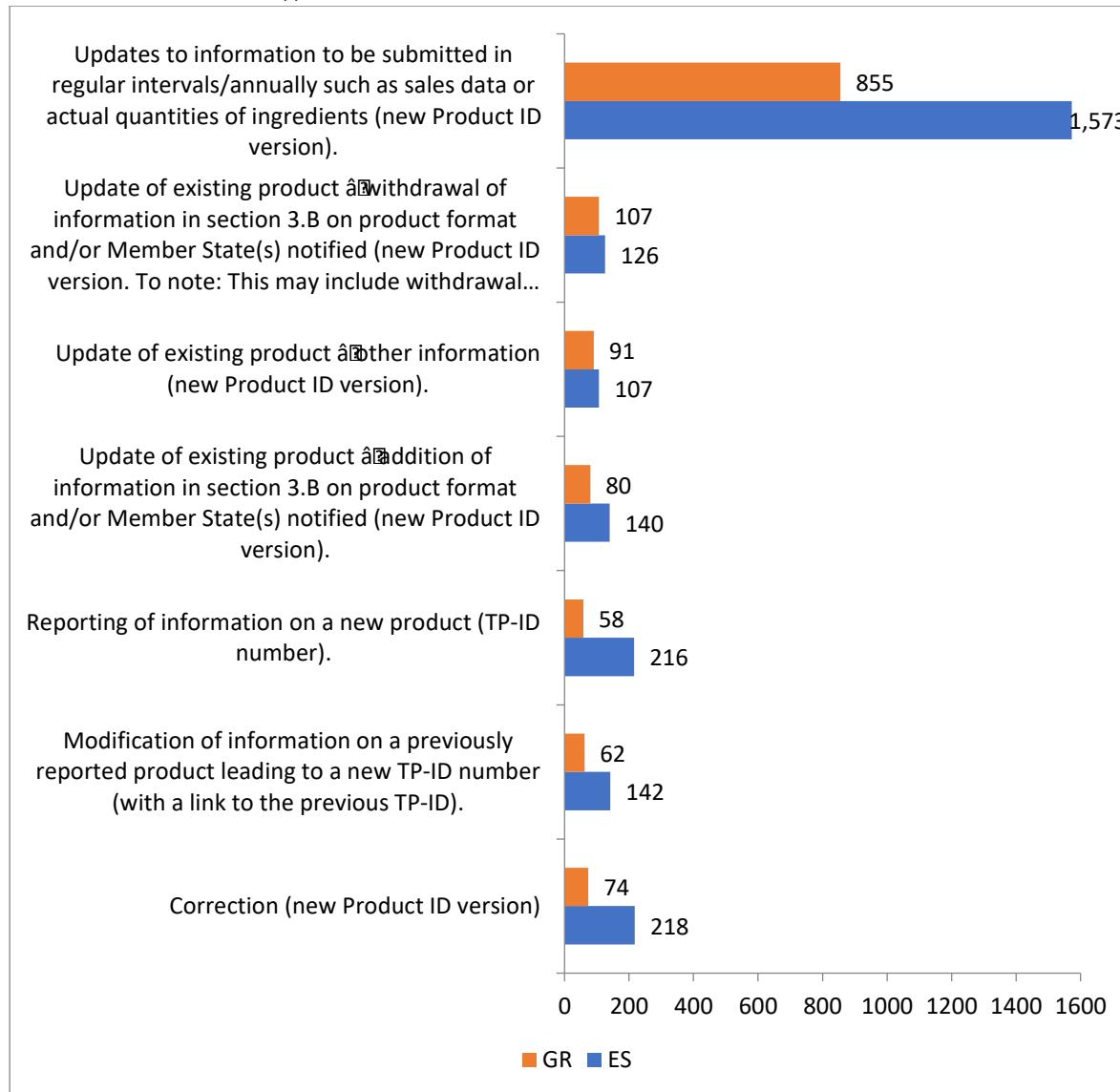
#### 3.2.3.1 Product details

##### 3.2.3.1.1 Products ID

There are 3,849 notifications on products data file (2,522 from Spain and 1,327 from Greece)

There are 3,325 different product IDs

##### 3.2.3.1.2 Submission type



Submission type	ES		GR		Total	
	Obs	%	Obs	%	Obs	%
Correction (new Product ID)	218	8.64	74	5.58	292	7.59
Modification of information on a previously reported product leading to a new TP-ID number (with a link to the previous TP-ID).	142	5.64	62	4.67	204	5.3
Reporting of information on a new product (TP-ID number)	216	8.56	58	4.37	274	7.12
All updates (new product ID version)	1946	77.16	1133	85.38	3079	79.99
Total	2522	100.00	1327	100.00	3849	100.00

### 3.2.3.1.3 Product manufacturer identification

There are 995 of the 3,849 notifications mentioned to be submitted by the manufacturer and 1% by the importer. No differences by country of submission.

### 3.2.3.1.4 Product length

Greek cigarettes are longer than Spanish

	observations	Mean (mm)	95%CI	
ES	2,522	86.14	85.88	86.40
GR	1,327	88.51	88.09	88.93

### 3.2.3.1.5 Means product diameter

No differences on diameter

	Obs	Mean (mm)	95%CI	
ES	2,522	7.70	7.68	7.71
GR	1,327	7.56	7.52	7.60

### 3.2.3.1.6 Means product weight

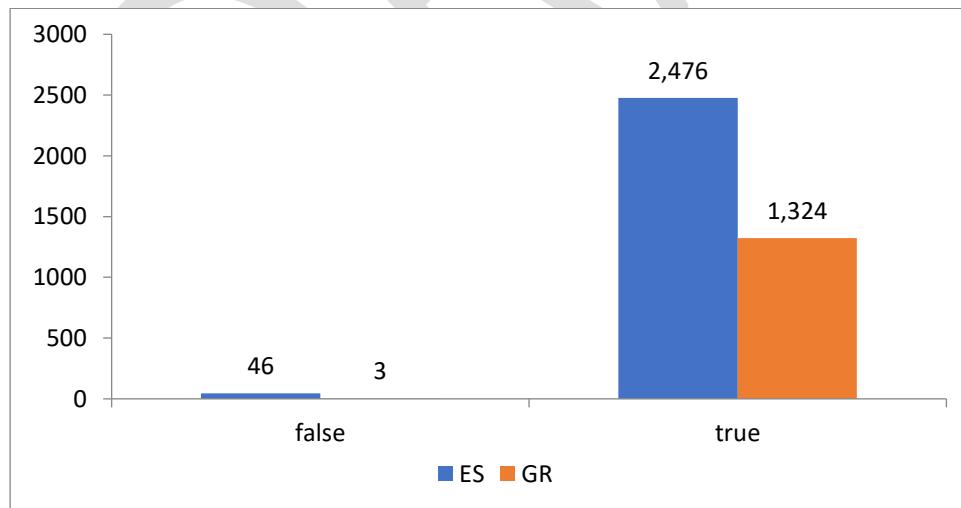
	Obs	Mean (mg)	95%CI	
ES	2,522	860.59	856.69	864.49
GR	1,327	850.11	843.18	857.04

### 3.2.3.1.7 Means product tobacco weight

	Obs	Mean (mg)	95%CI	
ES	2,522	616.13	610.26	622.00
GR	1,327	604.53	598.19	610.86

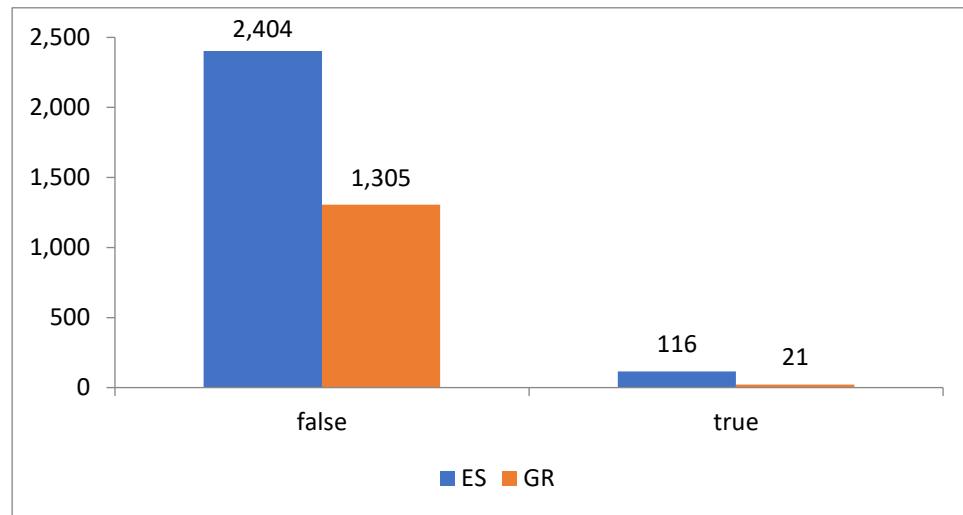
The percent of product tobacco weight over total product weight is 71.6% and 71% in ES and GR, respectively.

### 3.2.3.1.8 Product filter



Country	false	%	true	%	Total	%
ES	46	1.82	2,476	98.18	2,522	100
GR	3	0.23	1,324	99.77	1,327	100
Total	49	1.27	3,800	98.73	3,849	100

### 3.2.3.1.9 Cigarette characterizing flavor

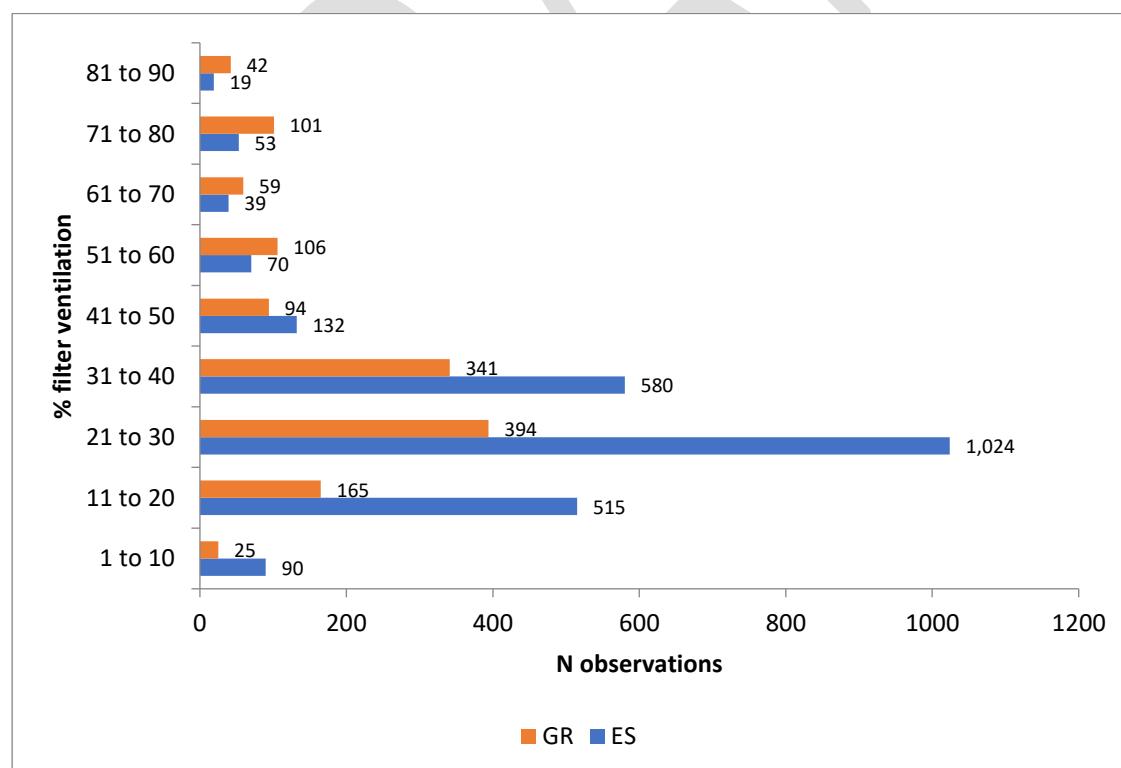


According to article 7 of the TPD there should be no characterizing flavor on the cigarette so that the submission could be accepted.

Surprisingly, there are 116 and 21 submissions answering “true” for characterizing flavor, in Spain and Greece, respectively.

### 3.2.3.1.10 Cigarette filter ventilation (%)

*Is the total ventilation of the filter*



	ES		GR		
%filter ventilation	Observations	%	Observations	%	Total
1 to 10	90	3.57	25	1.88	115
11 to 20	515	20.42	165	12.43	680
21 to 30	1,024	40.60	394	29.69	1,418
31 to 40	580	23.00	341	25.70	921
41 to 50	132	5.23	94	7.08	226
51 to 60	70	2.78	106	7.99	176
61 to 70	39	1.55	59	4.45	98
71 to 80	53	2.10	101	7.61	154
81 to 90	19	0.75	42	3.17	61
Total	2,522	100.00	1,327	100.00	3,849

### 3.2.3.1.11 Cigarette filter drop pressure close

*Drop of pressure with closed vents (mmH<sub>2</sub>O)*

	Obs	Mean	[95% Conf.	Interval]
ES	2,522	122.72	119.18	126.25
GR	1,327	137.40	132.79	142.02

### 3.2.3.1.12 Cigarette filter drop pressure open

*Drop of pressure with open vents (mmH<sub>2</sub>O)*

	Obs	Mean	[95% Conf.	Interval]
ES	2,522	171.94	168.93	174.95
GR	1,327	179.39	175.75	183.02

## 3.2.3.2 Presentation details

The presentations data file of cigarettes contains 9617 observations (6088 from Spain and 3529 from Greece)

### 3.2.3.2.1 Brand names

The 15 most frequently notified brand names in both countries are:

ES	Observations	%	GR	Observations	%
a	559	9.18	p	556	15.76
b	530	8.71	f	336	9.52
c	524	8.61	q	303	8.59
d	253	4.16	b	218	6.18
e	186	3.06	c	183	5.19
f	180	2.96	m	105	2.98
g	177	2.91	r	98	2.78
h	163	2.68	s	79	2.24
i	162	2.66	j	79	2.24
j	149	2.45	t	65	1.84
k	145	2.38	u	54	1.53

I	126	2.07	v	50	1.42
m	120	1.97	x	49	1.39
n	115	1.89	e	48	1.36
o	86	1.41	y	41	1.16

Highlighted in yellow are the pseudo-brandnames equally submitted in ES and GR

### 3.2.3.2.2 Withdrawal indications

This variable has to be taken with caution because some products with a withdrawal indication may still be on the market.

	false	%	true	%	Total	%
ES	5,466	89.78	622	10.22	6,088	100
GR	2,651	75.12	878	24.88	3,529	100
<b>Total</b>	<b>8,117</b>	<b>84.4</b>	<b>1,500</b>	<b>15.6</b>	<b>9,617</b>	<b>100</b>

### 3.2.3.2.3 Package type

Product Package Type	ES	GR	Total
Block/Foil pack	6	0	6
Bundle	4	0	4
Carton box	11	0	11
Cylinder tin	0	2	2
Flip top box, bevel corner/octagonal	260	326	586
Flip top box, rounded corner	425	296	721
Flip top box, square corner	4,693	2,583	7,276
Hinged box	56	68	124
Multi-pack display	81	23	104
Shell/Hull and Slide box	23	2	25
Shoulder hinged box	9	13	22
Soft pack	520	216	736
<b>Total</b>	<b>6,088</b>	<b>3,529</b>	<b>9,617</b>

### 3.2.3.2.4 Package units

Is the number of individual product units in the unit packet

Package units	ES	GR	Total
20	5,292	3,184	8,476
21	2	0	2
22	19	264	283
23	175	41	216
24	252	1	253
25	27	0	27
26	0	10	10
27	2	0	2
28	1	0	1
29	92	0	92
30	106	0	106

37	12	0	12
40	1	0	1
100	2	0	2
200	83	15	98
400	16	12	28
600	1	2	3
5000	4	0	4
Total	6,088	3,529	9,617

### 3.2.3.2.5 Package type by package units cat

Most of the package units (88%) are of 20 cigarettes

ES	1 to 20 units	21 to 40	41 to 200	201 to 1000	1001 to 5000	Total
Block/Foil pack	0	0	6	0	0	6
Bundle	0	0	0	0	4	4
Carton box	11	0	0	0	0	11
Flip top box, bevel corner/octagonal	260	0	0	0	0	260
Flip top box, rounded corner	425	0	0	0	0	425
Flip top box, square corner	3,996	686	10	1	0	4,693
Hinged box	54	2	0	0	0	56
Multi-pack display	0	0	65	16	0	81
Shell/Hull and Slide box	23	0	0	0	0	23
Shoulder hinged box	9	0	0	0	0	9
Soft pack	515	1	4	0	0	520
Total	5,293	689	85	17	4	6,088

GR	1 to 20 units	21 to 40	41 to 200	201 to 1000	Total
Cylinder tin	2	0	0	0	2
Flip top box, bevel corner/octagonal	326	0	0	0	326
Flip top box, rounded corner	254	42	0	0	296
Flip top box, square corner	2,336	241	5	1	2,583
Hinged box	57	11	0	0	68
Multi-pack display	0	0	10	13	23
Shell/Hull and Slide box	2	0	0	0	2
Shoulder hinged box	13	0	0	0	13
Soft pack	194	22	0	0	216
Total	3,184	316	15	14	3,529

### 3.2.3.2.6 Package net weight

*Is the net weight of one unit packet in g*

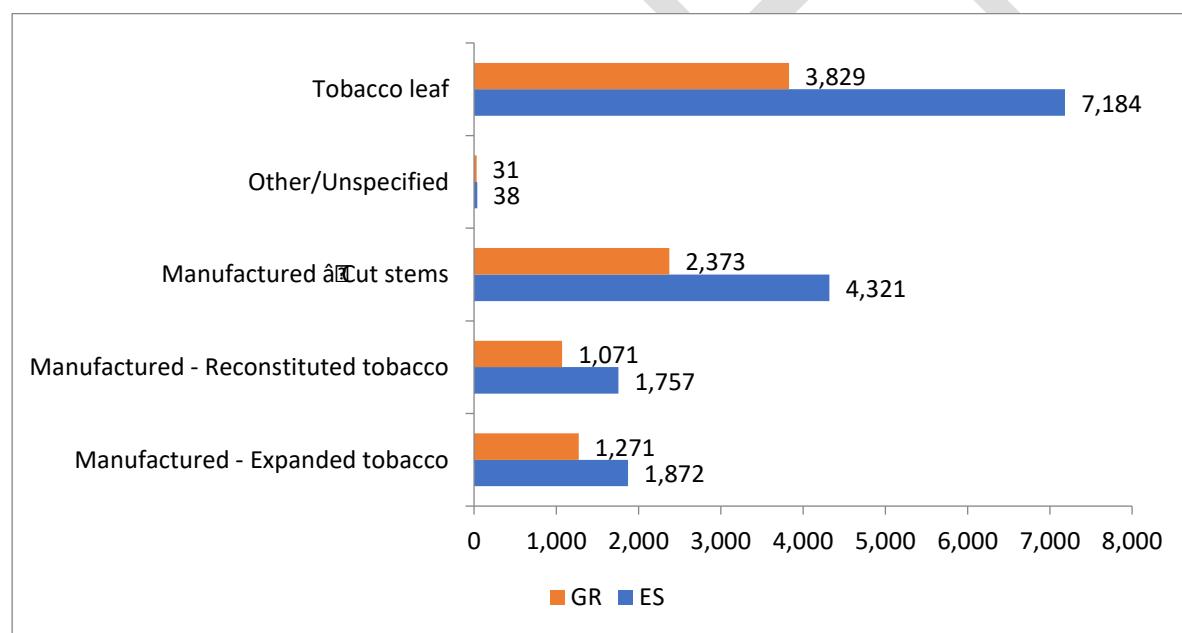
Information on package net weight is only available for Spain in 52 out of 9617 (0.5%) of the observations and ranges from 2.46 to 4050 g.

Package type	Package net weight (g)	Observations
Bundle	4050	4
Block/Foil pack	162	6
Carton box	20	5
Carton box	16.2	6
Flip top box, square corner	11	4
Flip top box, square corner	9.99	3
Hinged box	6.89	16
Hinged box	3.45	2
Soft Pack	3	5
Soft Pack	2.46	1

### 3.2.3.3 Tobacco ingredients

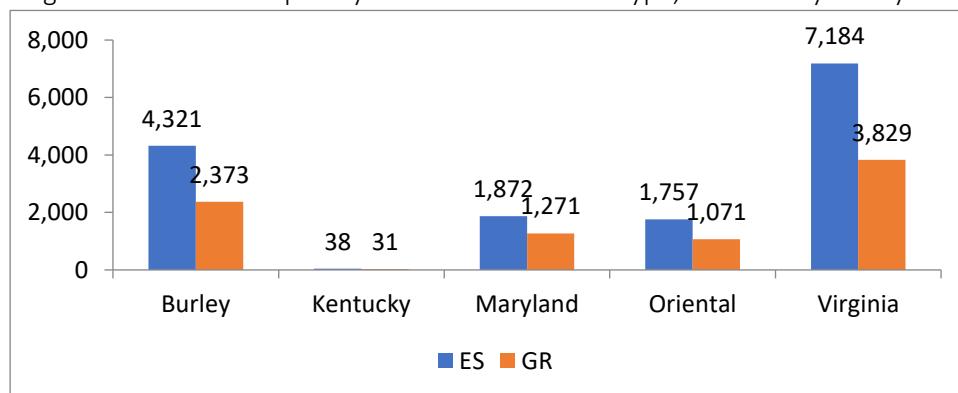
#### 3.2.3.3.1 Tobacco part type

There are 23747 observations in the tobacco ingredients data file (15172 from Spain and 8575 from Greece)

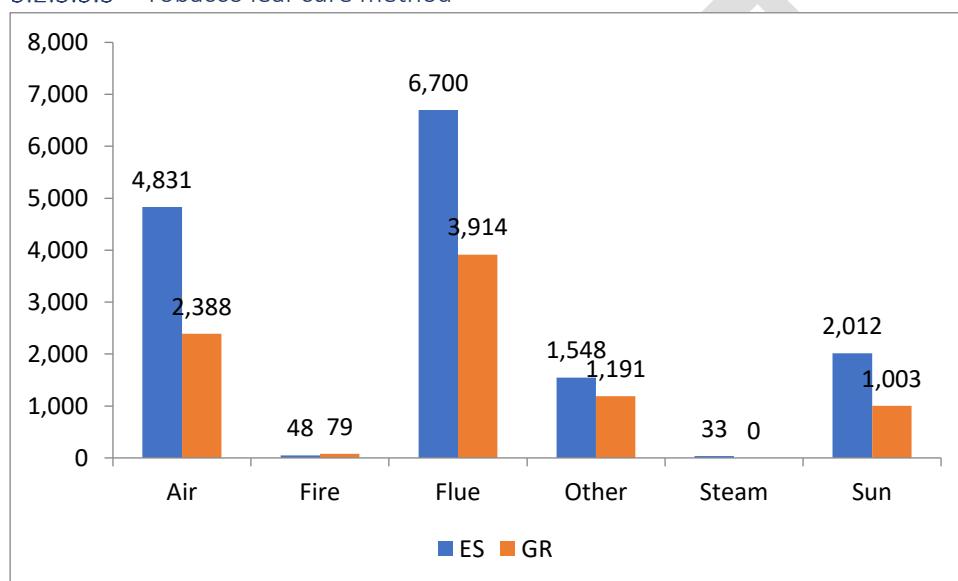


### 3.2.3.3.2 Tobacco leaf type

Virginia is the most frequently notified tobacco leaf type, followed by Burley and Maryland



### 3.2.3.3.3 Tobacco leaf cure method



### 3.2.3.3.4 Tobacco quantity (mean mg per product unit)

	Obs	Mean	[95% Conf.	Interval]
ES	15,172	101.86	100.1	103.65
GR	8,575	96.42	94.30	98.54

### 3.2.3.4 Other ingredients characteristics

There are 296,656 ingredients' entries (189,424 for Spain and 107,232 for Greece).

#### 3.2.3.4.1 Name or CAS

CAS number is empty in 8740 and 3840 entries of Spain and Greece, respectively.

15 most frequent ingredients in Spain (two of them highlighted in yellow are priority additives)

CAS number	Ingredients' name	Observations
7732-18-5	Water	10,085
471-34-1	Calcium carbonate	6,442
65996-61-4	Cellulose	5,788

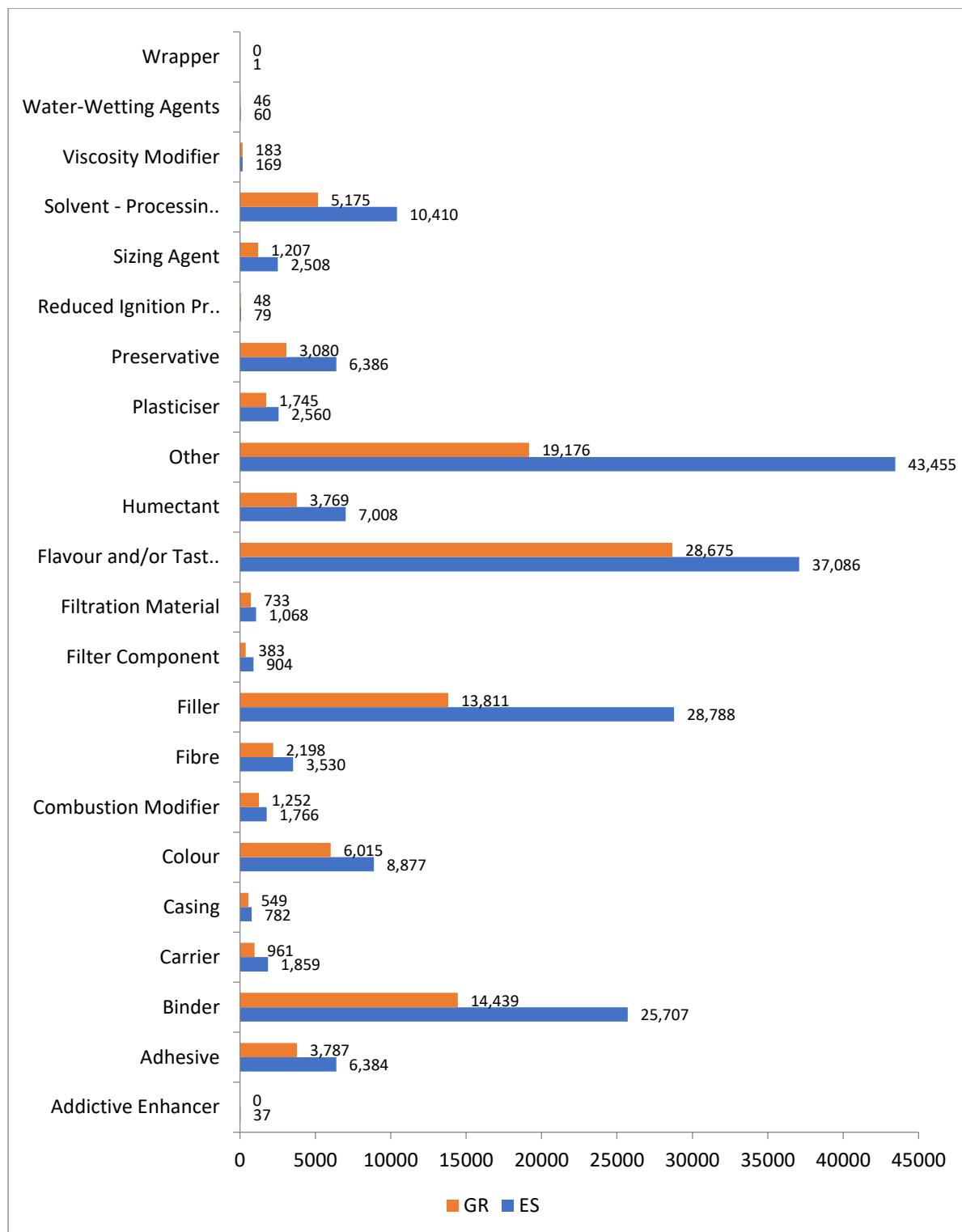
24937-78-8	Ethylene vinyl acetate copolymer	5,044
65996-62-5	Starch oxidised	4,327
25213-24-5	Polyvinyl alcohol - partly hydrolysed	3,997
13463-67-7	Titanium dioxide	3,902
102-76-1	Glyceryl triacetate	3,339
9000-30-0	Guar gum	3,281
9004-34-6	Cellulose fibre	3,222
9003-20-7	Polyvinyl acetate	3,201
8002-74-2	Paraffin wax	2,488
9004-35-7	Cellulose acetate	2,479
9004-32-4	Sodium carboxy methyl cellulose	2,465
9004-70-0	Nitrocellulose	2,398

15 most frequent ingredients in Greece (five of them highlighted in yellow are priority additives)

CAS number	Ingredients' name	Observations
7732-18-5	Water	5,320
471-34-1	Calcium carbonate	3,408
65996-61-4	Cellulose	3,270
24937-78-8	Ethylene vinyl acetate copolymer	2,745
65996-62-5	Starch oxidised	2,358
13463-67-7	Titanium dioxide	2,226
9000-30-0	Guar gum	2,101
25213-24-5	Polyvinyl alcohol - partly hydrolysed	2,060
102-76-1	Glyceryl triacetate	1,828
9004-32-4	Sodium carboxy methyl cellulose	1,583
9004-34-6	Cellulose fibre	1,530
9003-20-7	Polyvinyl acetate	1,497
56-81-5	Glycerol	1,418
84649-99-0	Cocoa extract	1,386
57-55-6	Propylene glycol	1,351

### 3.2.3.4.2 Function

The most frequently notified function among the ingredients of ES is “other functions”. Differently to GR, where the most frequently notified function is “flavor and taste”



### 3.2.3.4.3 Quantity fluctuate

Fluctuations notified on quantity of ingredients across production batches is:

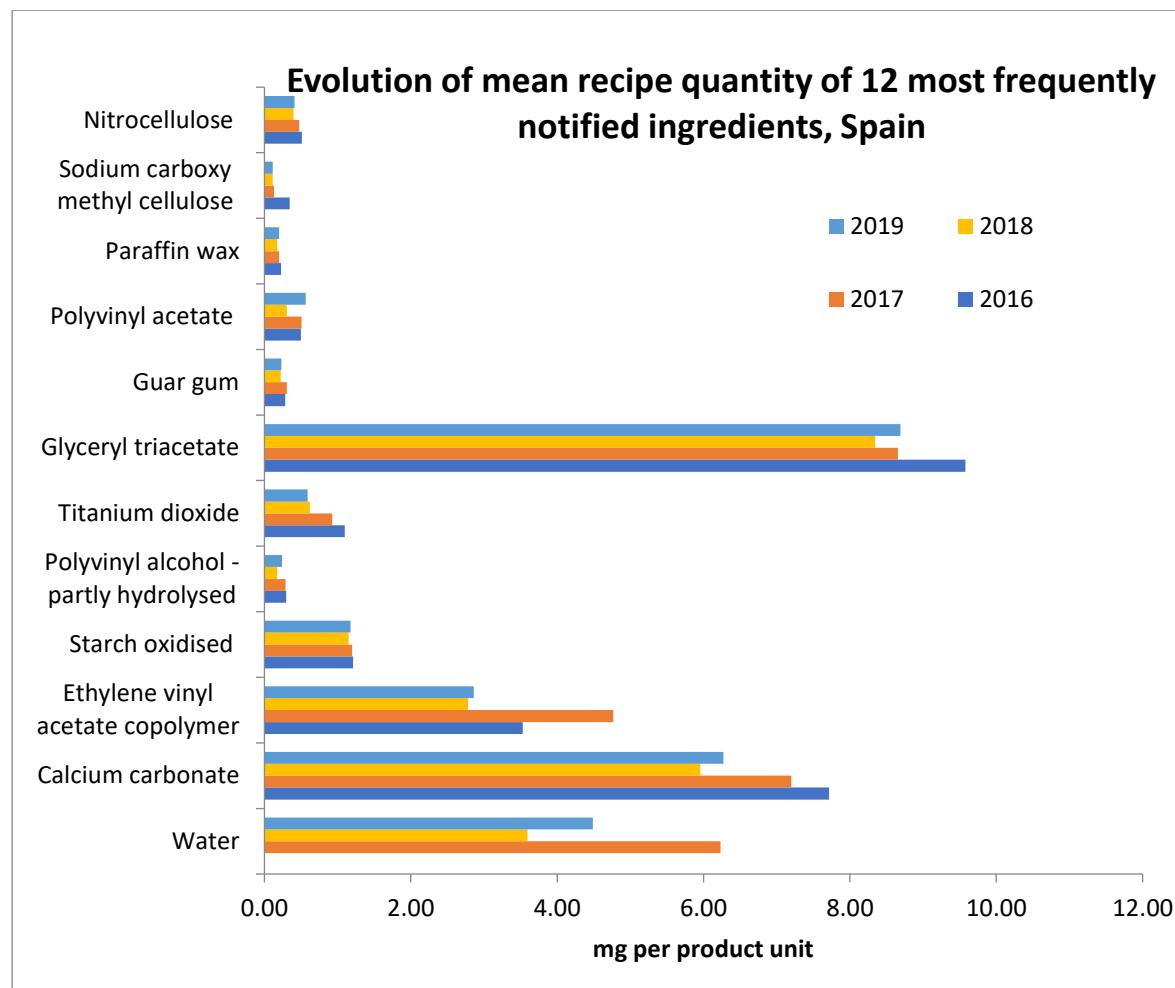
	false	%	true	%	Total	%
ES	134,830	71.2	54,594	28.8	189,424	100
GR	82,998	77.4	24,234	22.6	107,232	100
Total	217,828	73.4	78,828	26.6	296,656	100

### 3.2.3.4.4 Recipe quantity

The recipe quantity is defined as the *standard weight of the ingredient included in one product unit in mg according to recipe*.

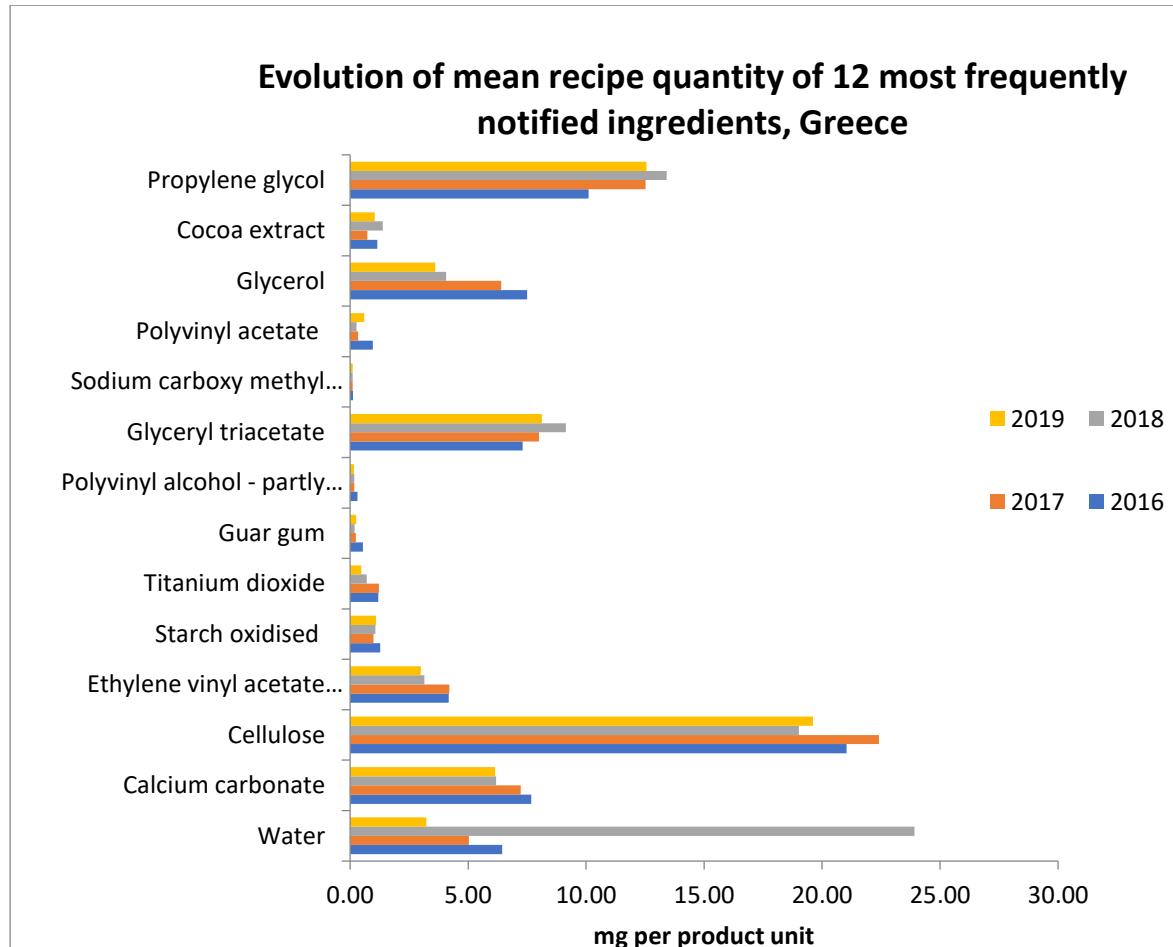
For Spain

Country	ES			
	Obs	Mean recipe quantity (mg)	95%CI	
Water	10,085	9.74	0.38	19.09
Calcium carbonate	6,442	6.48	6.31	6.65
Cellulose	5,788	18.98	18.59	19.38
Ethylene vinyl acetate copolymer	5,044	3.38	3.03	3.73
Starch oxidised	4,327	1.17	1.15	1.20
Polyvinyl alcohol - partly hydrolysed	3,997	0.23	0.21	0.24
Titanium dioxide	3,902	0.73	0.71	0.76
Glyceryl triacetate	3,339	8.63	8.36	8.89
Guar gum	3,281	0.25	0.24	0.26
Cellulose fibre	3,222	20.88	20.52	21.25
Polyvinyl acetate	3,201	0.40	0.37	0.43
Paraffin wax	2,488	0.19	0.18	0.20
Cellulose acetate	2,479	367.67	-127.12	862.46
Sodium carboxy methyl cellulose	2,465	0.14	0.13	0.14
Nitrocellulose	2,398	0.43	0.42	0.45



For Greece

Name of the ingredient	GR		
	Obs	Mean recipe quantity	95%CI
Water	5,320	13.25	-4.48 30.98
Calcium carbonate	3,408	6.67	6.45 6.89
Cellulose	3,270	19.99	19.51 20.47
Ethylene vinyl acetate copolymer	2,745	3.58	3.44 3.71
Starch oxidised	2,358	1.10	1.07 1.13
Titanium dioxide	2,226	0.87	0.82 0.93
Guar gum	2,101	0.29	0.26 0.31
Polyvinyl alcohol - partly hydrolysed	2,060	0.21	0.19 0.22
Glyceryl triacetate	1,828	8.24	7.96 8.53
Sodium carboxy methyl cellulose	1,583	0.11	0.11 0.11
Cellulose fibre	1,530	21.32	20.75 21.89
Polyvinyl acetate	1,497	0.45	0.38 0.51
Glycerol	1,418	5.40	5.10 5.69
Cocoa extract	1,386	1.16	1.06 1.26
Propylene glycol	1,351	12.22	11.74 12.70



### 3.2.3.5 Toxicological data

#### 3.2.3.5.1 Tox data available

	false	%	true	%	Total	%
ES	104,324	55	85,100	45	189,424	100
GR	65,397	61	41,835	39	107,232	100
Total	169,721	57	126,935	43	296,656	100

#### 3.2.3.5.2 Existence of studies indicating the chemistry and/or toxicity (tox CMR)

	false	%	true	%	Total	%
ES	72,557	38.3	116,867	61.7	189,424	100
GR	50,120	46.7	57,112	53.3	107,232	100
Total	122,677	41.4	173,979	58.6	296,656	100

#### 3.2.3.5.3 Existence of studies indicating the chemistry and/or toxicity (tox cardio)

	<b>false</b>	<b>%</b>	<b>true</b>	<b>%</b>	<b>Total</b>	<b>%</b>
ES	115,294	61	74,130	39.13	189,424	100
GR	70,914	66.13	36,318	33.87	107,232	100
Total	186,208	62.77	110,448	37.23	296,656	100

### 3.2.3.5.4 Existence of studies indicating the chemistry and/or toxicity (tox addictive)

	<b>false</b>	<b>%</b>	<b>true</b>	<b>%</b>	<b>Total</b>	<b>%</b>
ES	182,735	96.47	6,689	3.53	189,424	100
GR	104,281	97.25	2,951	2.75	107,232	100
Total	287,016	96.75	9,640	3.25	296,656	100

### 3.2.3.5.5 Existence of studies indicating the chemistry and/or toxicity (tox other)

	<b>false</b>	<b>%</b>	<b>true</b>	<b>%</b>	<b>Total</b>	<b>%</b>
ES	33,503	18	155,921	82	189,424	100
GR	21,399	19.96	85,833	80.04	107,232	100
Total	54,902	18.51	241,754	81.49	296,656	100

### 3.2.3.6 TNCO and other emissions

There are 3849 observations on emissions (2522 for Spain and 1327 for Greece)

#### 3.2.3.6.1 Tar

Tar yield according to the ISO standard 4387 with the accuracy of measurements determined in accordance with ISO standard 8243

Type	Obs	Mean	[95% Conf.	Interval]
ES	2,522	8.47	8.38	8.55
GR	1,327	7.22	7.06	7.37

#### 3.2.3.6.2 Nicotine

	Obs	Mean	[95% Conf.	Interval]
ES	2522	0.68	0.67	0.69
GR	1327	0.60	0.59	0.61

#### 3.2.3.6.3 CO

	Obs	Mean	[95% Conf.	Interval]
ES	2,522	8.59	8.51	8.67
GR	1,327	7.36	7.21	7.51

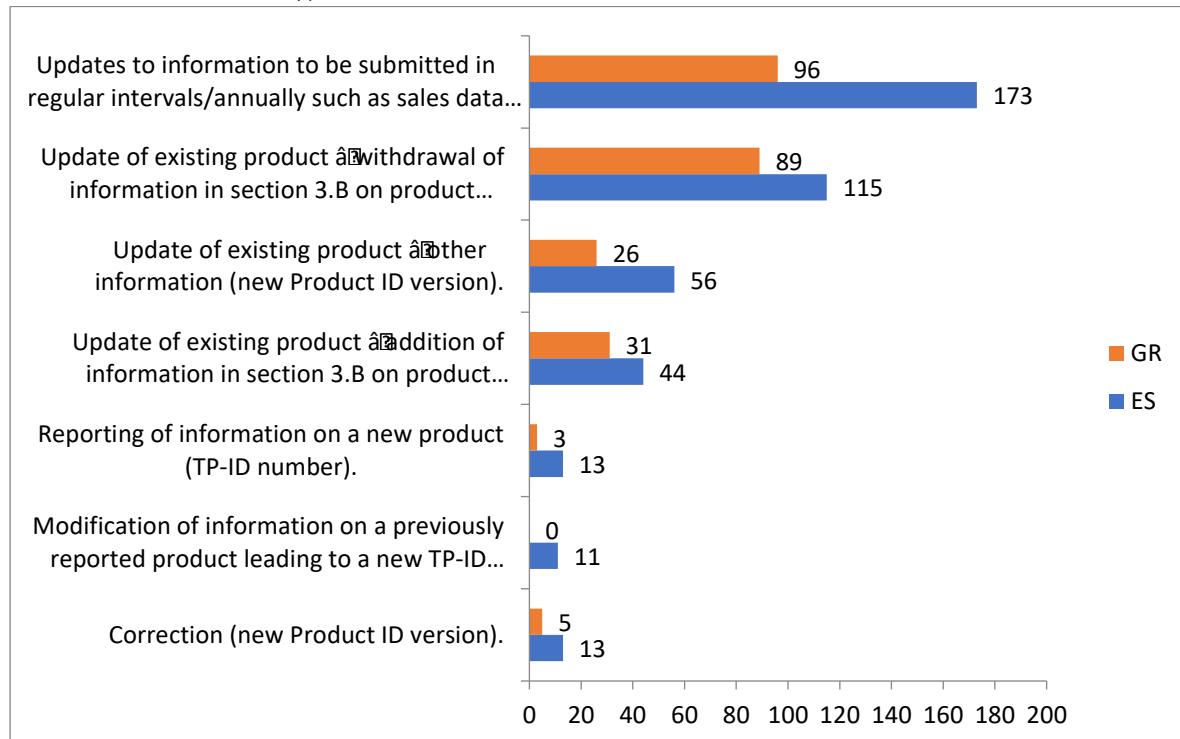
### 3.2.4 Cigarrillo

#### 3.2.4.1 Product details

##### 3.2.4.1.1 Products

There are 675 observations in the products data file of cigarrillos (425 from Spain and 250 from Greece)

##### 3.2.4.1.2 Submission type



##### 3.2.4.1.3 Product manufacturer identification

Manufacturer identification	Importer		Manufacturer		Total	
	Observations	%	Observations	%	Observations	%
ES	35	8.24	390	91.76	425	100
GR	30	12	220	88	250	100
Total	65	9.63	610	90.37	675	100

##### 3.2.4.1.4 Product length

Type	Obs	Mean	[95% Conf.	Interval]
ES	425	88.06767	84.0745	92.06084
GR	250	88.35188	86.80145	89.90231

##### 3.2.4.1.5 Product diameter

Type	Obs	Mean	[95% Conf.	Interval]
ES	425	8.636071	8.161595	9.110547
GR	250	8.81308	8.238109	9.388051

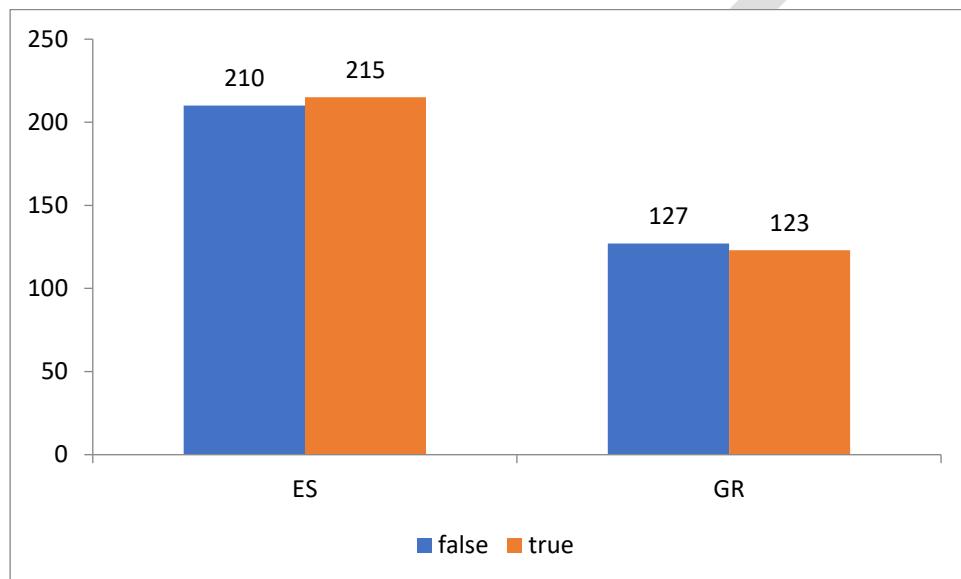
### 3.2.4.1.6 Product weight

Type	Obs	Mean	[95% Conf.	Interval]
ES	425	1422.033	1367.648	1476.418
GR	250	1586.417	1503.433	1669.401

### 3.2.4.1.7 Product tobacco weight

Type	Obs	Mean	[95% Conf.	Interval]
ES	425	1188.912	1141.009	1236.814
GR	250	1299.941	1231.73	1368.152

### 3.2.4.1.8 Product filter



### 3.2.4.1.9 Cigarette filter ventilation (%)

This variable is empty in 99% of the observations

### 3.2.4.1.10 Cigarette filter drop pressure open

This variable is empty in 99% of the observations

### 3.2.4.1.11 Cigarette filter drop pressure close

This variable is empty in 99% of the observations

## 3.2.4.2 Presentation details

This data file contains 1075 observations (700 from Spain and 375 from Greece)

### 3.2.4.2.1 Brand names

The 15 most frequently notified brand names in Spain and Greece are:

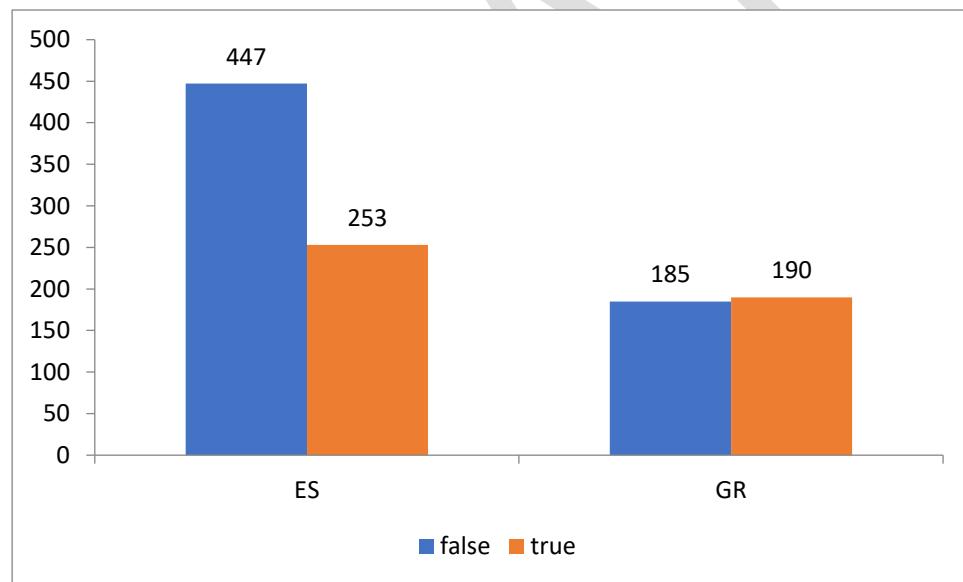
ES	Obs	%	GR	Obs	%
a	40	5.71	p	21	5.60
b	26	3.71	f	15	4.00
c	23	3.29	b	14	3.73
d	20	2.86	q	14	3.73

e	17	2.43	r	14	3.73
f	17	2.43	e	13	3.47
g	16	2.29	g	11	2.93
h	15	2.14	d	11	2.93
i	14	2.00	n	11	2.93
j	14	2.00	s	10	2.67
k	13	1.86	t	10	2.67
l	12	1.71	l	9	2.40
m	12	1.71	u	9	2.40
n	12	1.71	v	9	2.40
o	11	1.57	k	8	2.13

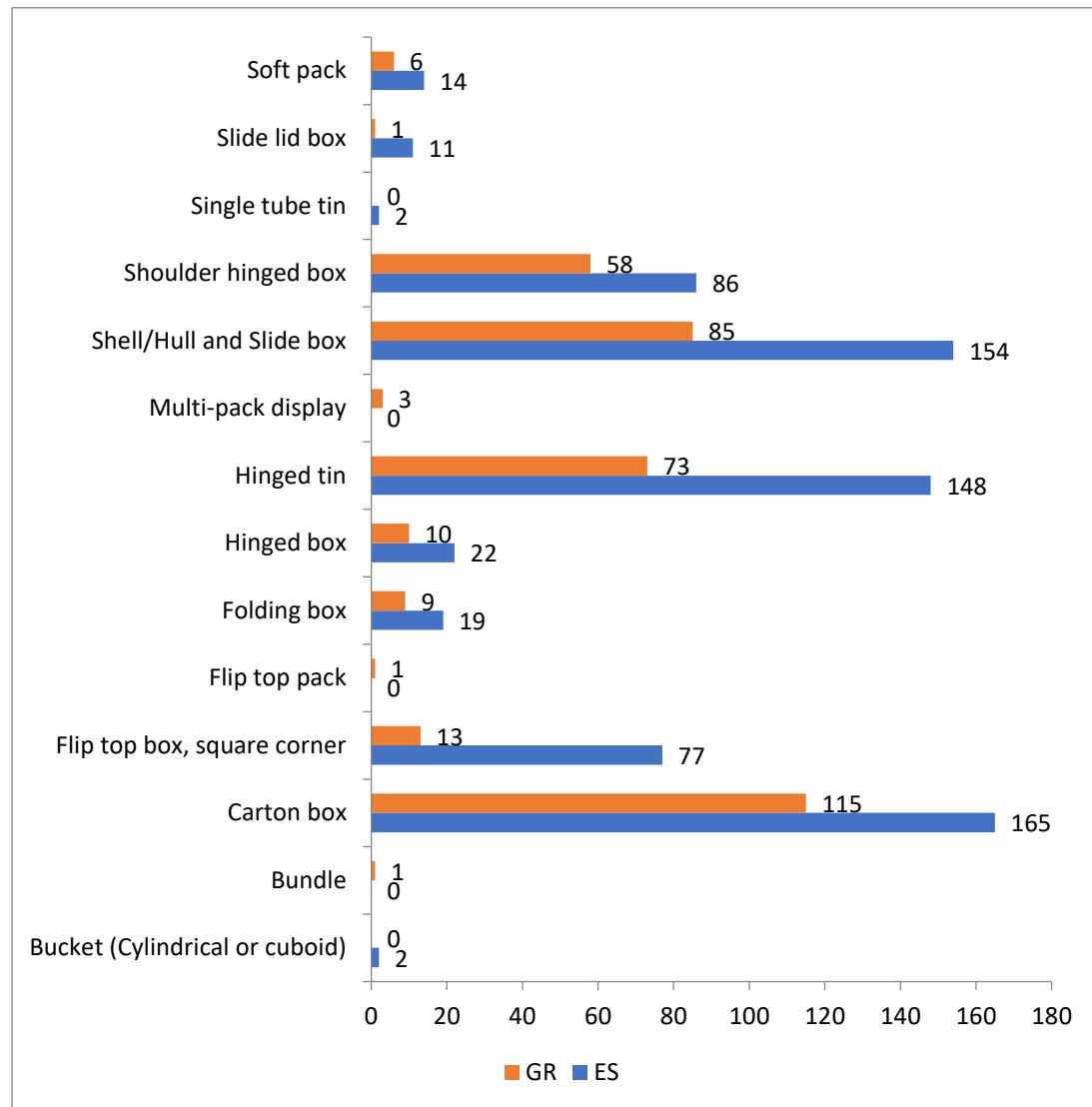
Highlighted in yellow are the pseudo-brandnames equally submitted in ES and GR.

### 3.2.4.2.2 Withdrawal indications

	false	%	true	%	Total	%
ES	447	63.86	253	36.14	700	100
GR	185	49.33	190	50.67	375	100
Total	632	58.79	443	41.21	1,075	100



### 3.2.4.2.3 Package type



### 3.2.4.2.4 Package units category

	ES	GR	Total
0	1	0	1
1	1	0	1
2	4	0	4
3	4	0	4
4	15	0	15
5	48	47	95
8	14	2	16
10	145	161	306
12	20	3	23
14	5	3	8
15	2	0	2
17	66	10	76
18	9	0	9

20	316	133	449
23	2	0	2
25	1	4	5
26	2	0	2
30	0	1	1
32	2	0	2
50	19	11	30
100	1	0	1
150	4	0	4
200	11	0	11
250	4	0	4
300	4	0	4
Total	700	375	1,075

pack units	ES	GR	Total
1 to 10	232	210	442
11 to 20	418	149	567
21 to 50	26	16	42
51 to 100	1	0	1
101 to 1000	23	0	23
Total	700	375	1,075

### 3.2.4.2.5 Package units by package type

ES	min to 10 units	11 to 20	21 to 50	51 to 100	101 to 1000	Total
Bucket (Cylindrical..)	0	0	2	0	0	2
Carton box	44	121	0	0	0	165
Flip top box, square..	23	51	2	0	1	77
Folding box	19	0	0	0	0	19
Hinged box	1	8	13	0	0	22
Hinged tin	13	117	2	0	16	148
Shell/Hull and Slid..	82	65	1	0	6	154
Shoulder hinged box	35	50	1	0	0	86
Single tube tin	0	0	2	0	0	2
Slide lid box	7	0	3	1	0	11
Soft pack	8	6	0	0	0	14
Total	232	418	26	1	23	700

GR	min to 10 units	11 to 20	21 to 50	Total
Bundle	0	0	1	1
Carton box	87	28	0	115
Flip top box, squared	6	7	0	13
Flip top pack	1	0	0	1
Folding box	9	0	0	9

Hinged box	3	2	5	10
Hinged tin	19	52	2	73
Multi-pack display	0	0	3	3
Shell/Hull and Slid..	55	27	3	85
Shoulder hinged box	24	33	1	58
Slide lid box	0	0	1	1
Soft pack	6	0	0	6
Total	210	149	16	375

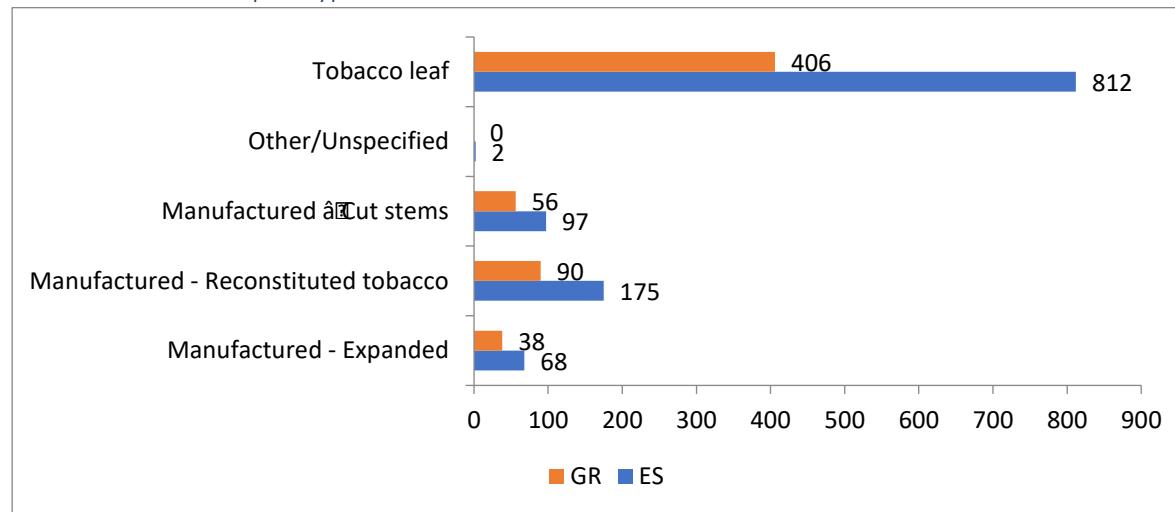
### 3.2.4.2.6 Package net weight

Net weight of one unit packet in g

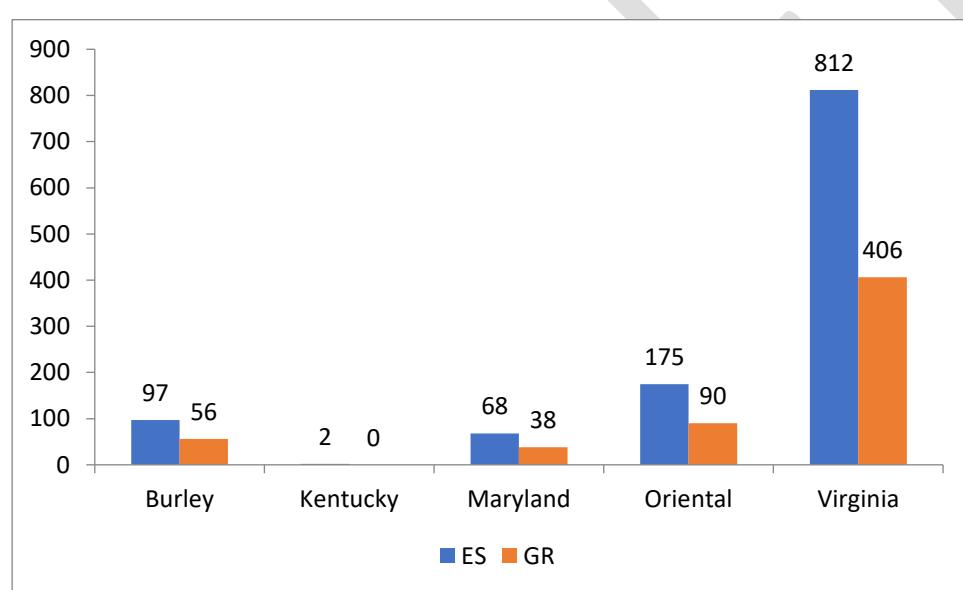
	ES	GR	Total
-	622	325	947
10	1	0	1
10.4	4	3	7
10.45	1	1	2
10.5	1	1	2
110	1	0	1
12	7	3	10
15.4	11	12	23
16.8	1	0	1
17	2	2	4
18.5	2	0	2
19	1	1	2
20.9	1	1	2
21	1	0	1
21	1	0	1
22.5	2	0	2
23.4	1	0	1
24	10	10	20
25	2	0	2
30	3	3	6
32	1	0	1
35	5	2	7
37	2	1	3
38.5	1	1	2
52.2	1	3	4
58	1	0	1
6.89	3	0	3
62	2	1	3
7.7	7	4	11
70	1	1	2
756	1	0	1
Total	700	375	1,075

### 3.2.4.3 Tobacco ingredients

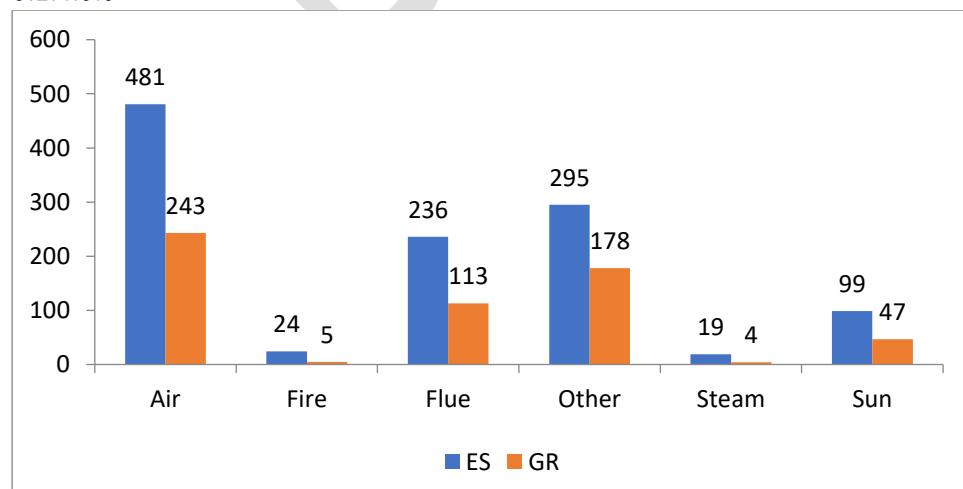
#### 3.2.4.3.1 Tobacco part type



#### 3.2.4.3.2 Tobacco leaf type



#### 3.2.4.3.3 Tobacco leaf cure method



### 3.2.4.3.4 Tobacco quantity

Type	Obs	Mean	[95% Conf.	Interval]
ES	1,154	441.47	408.57	474.36
GR	590	563.53	509.36	617.69

### 3.2.4.4 Other ingredients characteristics

The ingredients data file contains 37807 observations, 23498 from Spain and 14309 from Greece

#### 3.2.4.4.1 Name or CAS

There are 655 and 529 different CAS number entries for Spain and Greece, respectively.

Name of the ingredient is inconsistently entered.

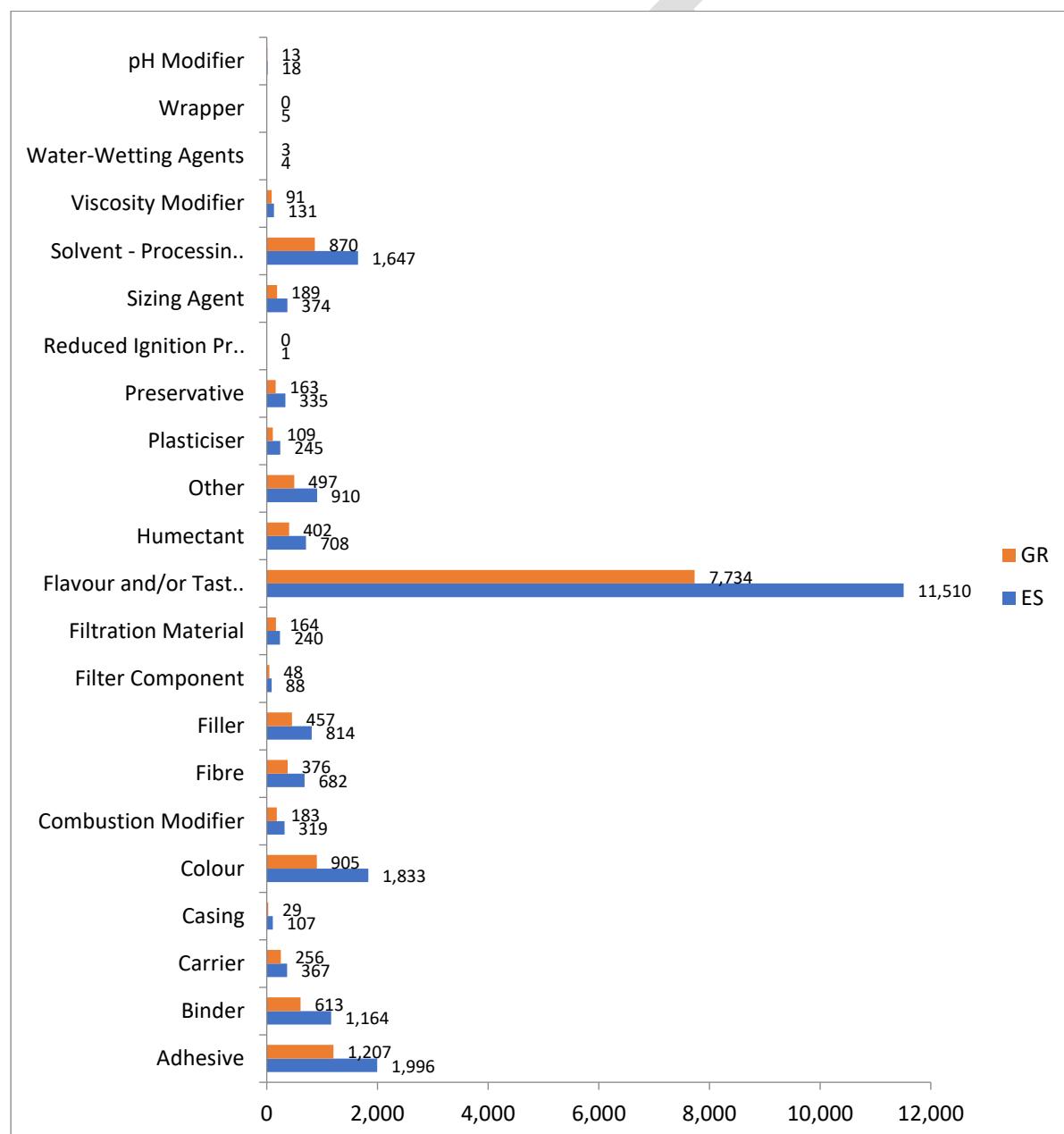
The 15 most frequent ingredients in cigarillos in Spain and Greece are:

ES		Obs	%
CAS number	Ingredient's name	Obs	%
24937-78-8	Ethylenevinylacetate copolymer	341	2.38
65996-61-4	Cellulose	294	2.05
13463-67-7	Titanium dioxide	285	1.99
9004-67-5	Methylcellulose	215	1.5
57-55-6	Propylene-glycol	212	1.48
25213-24-5	Polyvinylalkohol partly hydrolysed	187	1.31
9004-32-4	Sodium carboxymethylcellulose	176	1.23
7732-18-5	Water	175	1.22
121-33-5	Vanillin	166	1.16
8012-95-1	Preperation of paraffin oils, hydroph.	166	1.16
102-76-1	Triacetine	154	1.08
120-57-0	Piperonal	142	0.99
64-19-7	Acetic acid	140	0.98
121-32-4	Ethyl vanillin	131	0.92
56-81-5	Glycerine	130	0.91

GR		Obs	%
CAS number	Ingredient's name	Obs	%
24937-78-8	Ethylenevinylacetate copolymer	620	2.64
65996-61-4	Cellulose	538	2.29
13463-67-7	Titanium dioxide	485	2.06
25213-24-5	Polyvinylalkohol partly hydrolysed	391	1.66
7732-18-5	Water	371	1.58
57-55-6	Propylene-glycol	330	1.4
8012-95-1	Preperation of paraffin oils, hydroph.	313	1.33

9004-32-4	Sodium carboxymethylcellulose	302	1.29
9004-67-5	Methylcellulose	279	1.19
102-76-1	Triacetine	270	1.15
56-81-5	Glycerine	247	1.05
121-33-5	Vanillin	234	1
471-34-1	Calcium carbonate	229	0.97
10043-01-3	Aluminium sulfate	227	0.97
56780-58-6	Starch, 2-hydroxy-3-(trimethyl-ammonio)	227	0.97

### 3.2.4.4.2 Function



### 3.2.4.4.3 Quantity fluctuate

There are no fluctuations notified on quantity of ingredients across production batches

### 3.2.4.4.4 Recipe quantity

Standard weight of the ingredient included in one product unit in mg according to recipe

## 3.2.4.5 Toxicological data

### 3.2.4.5.1 Tox data available

	false	%	true	%	Total	%
ES	23,372	99.46	126	0.54	23,498	100
GR	14,196	99.21	113	0.79	14,309	100
Total	37,568	99.37	239	0.63	37,807	100

### 3.2.4.5.2 Existence of studies indicating the chemistry and/or toxicity (tox CMR)

	false	%	true	%	Total	%
ES	23,378	99.49	120	0.51	23,498	100
GR	14,207	99.29	102	0.71	14,309	100
Total	37,585	99.41	222	0.59	37,807	100

### 3.2.4.5.3 Existence of studies indicating the chemistry and/or toxicity (tox cardio)

	false	%	True	%	Total	%
ES	23,382	99.51	116	0.49	23,498	100
GR	14,219	99.37	90	0.63	14,309	100
Total	37,601	99.46	206	0.54	37,807	100

### 3.2.4.5.4 Existence of studies indicating the chemistry and/or toxicity (tox addictive)

None

### 3.2.4.5.5 Existence of studies indicating the chemistry and/or toxicity (tox other)

	false	%	true	%	Total	%
ES	21,891	93.16	1,607	6.84	23,498	100
GR	13,508	94.4	801	5.6	14,309	100
Total	35,399	93.63	2,408	6.37	37,807	100

## 3.2.4.6 TNCO and other emissions

This file is empty for cigarillos

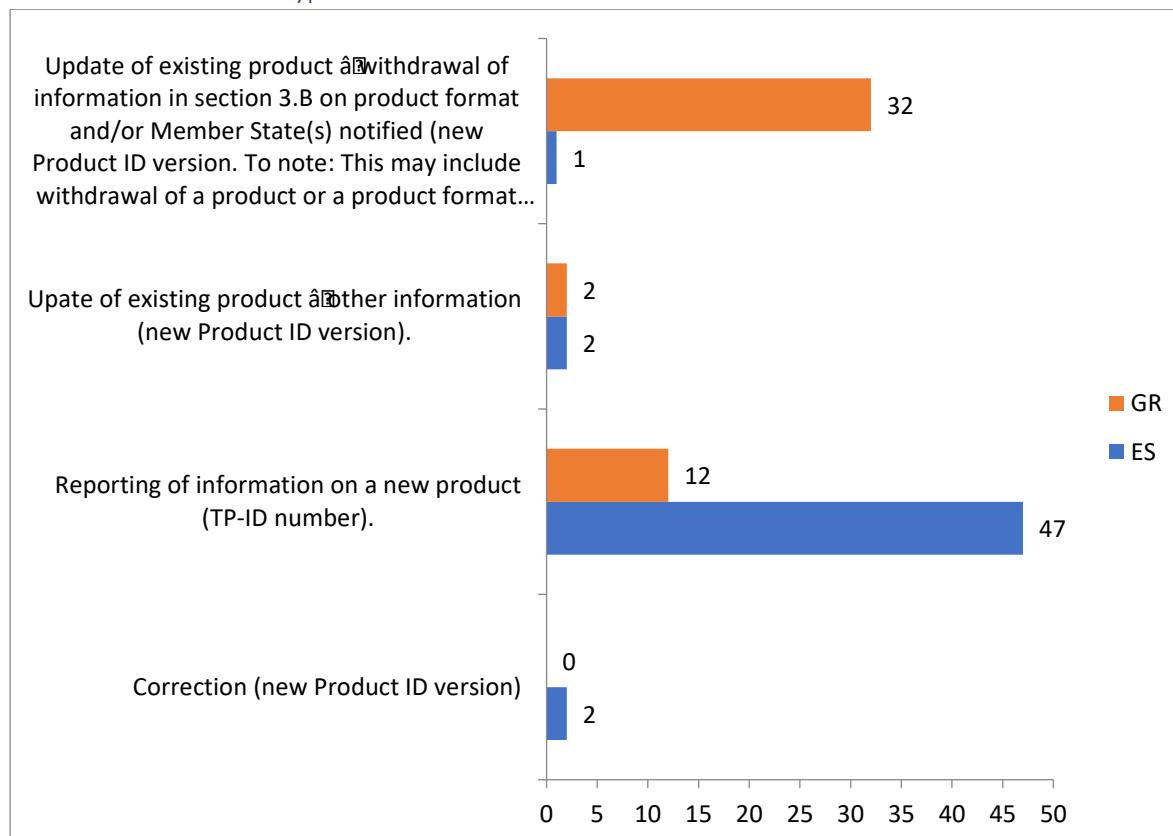
### 3.2.5 Herbal

#### 3.2.5.1 Product details

##### 3.2.5.1.1 Products

There are 98 observations in the product data file, 52 and 46 from Spain and Greece, respectively

##### 3.2.5.1.2 Submission type



##### 3.2.5.1.3 Product manufacturer identification

	Importer	%	Manufacturer	%	Total	%
ES	39	75	13	25	52	100
GR	13	28.26	33	71.74	46	100
Total	52	53.06	46	46.94	98	100

##### 3.2.5.1.4 Product length

Is the average length of the product unit in mm

Only 10% of the Spanish observations inform on the product length on average is 84 mm

No info on Greek product length

##### 3.2.5.1.5 Means product diameter

Not applicable

## 3.2.5.1.6 Means product weight

Type	Obs	Mean	[95% Conf.	Interval]
ES	52	19561.93	13105.01	26018.85
GR	46	22512.42	17466.15	27558.69

## 3.2.5.1.7 Means product tobacco weight

Type	Obs	Mean	[95% Conf.	Interval]
ES	52	1.25	1.13	1.37
GR	46	1.02	0.98	1.07

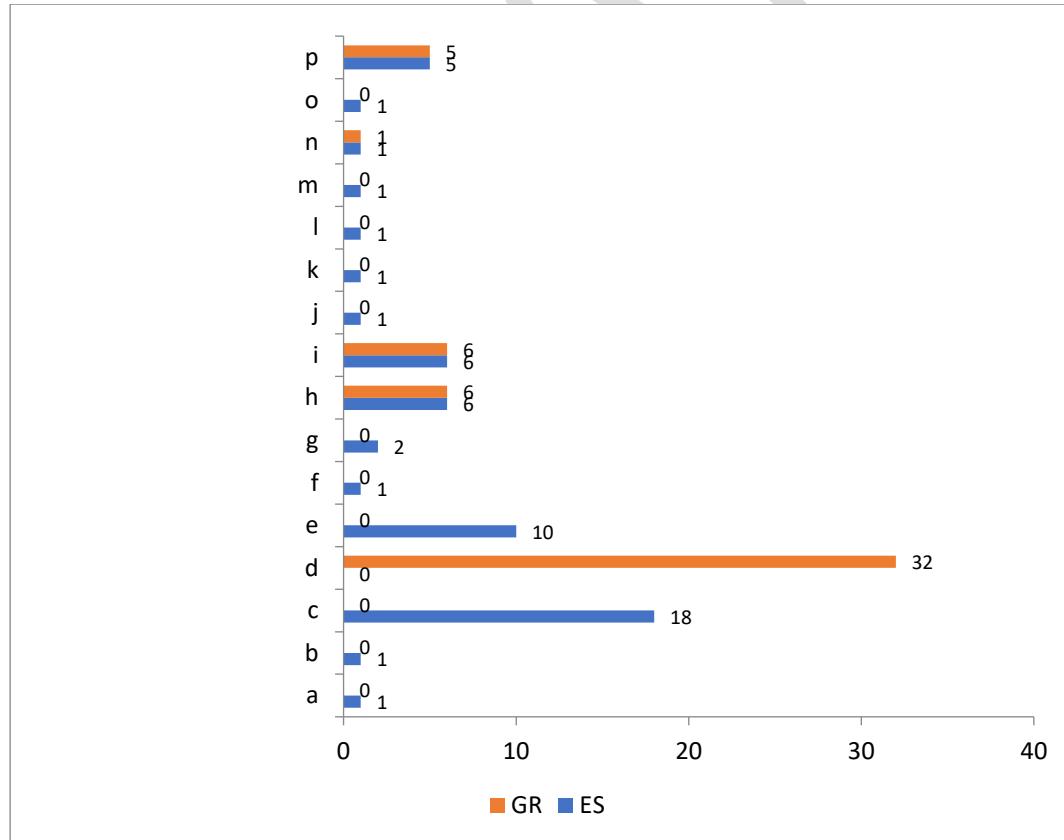
## 3.2.5.1.8 Product filter

	false	%	true	%	Total	%
ES	41	78.85	11	21.15	52	100
GR	46	100	0	0	46	100
Total	87	88.78	11	11.22	98	100

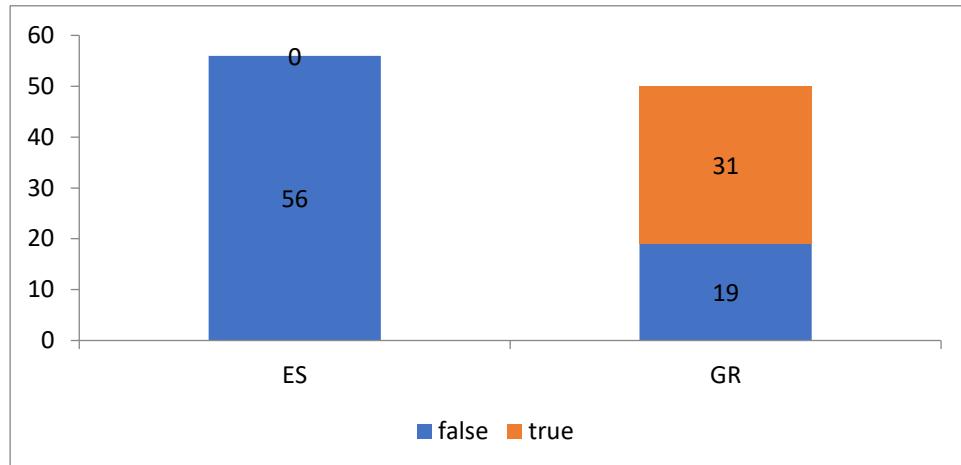
## 3.2.5.2 Presentation details

There are 106 observations on presentation data file of herbal products (56 and 50 from Spain and Greece, respectively)

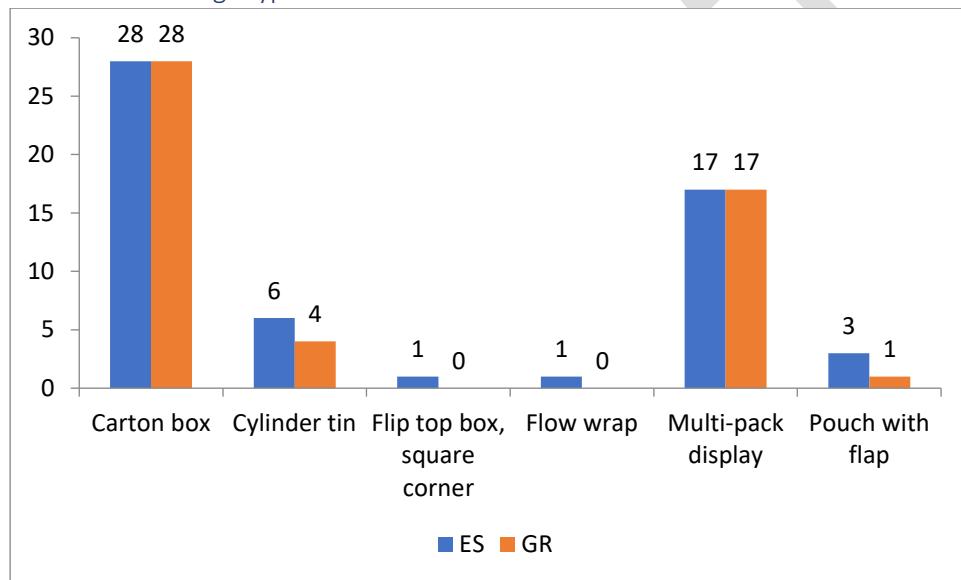
## 3.2.5.2.1 Brandnames



### 3.2.5.2.2 Withdrawal indications



### 3.2.5.2.3 Package type



### 3.2.5.2.4 Package units

Number of individual product units in the unit packet

	ES	GR	Total
-	43	18	61
1	2	4	6
10	0	28	28
20	11	0	11
Total	56	50	106

### 3.2.5.2.5 Package net weight

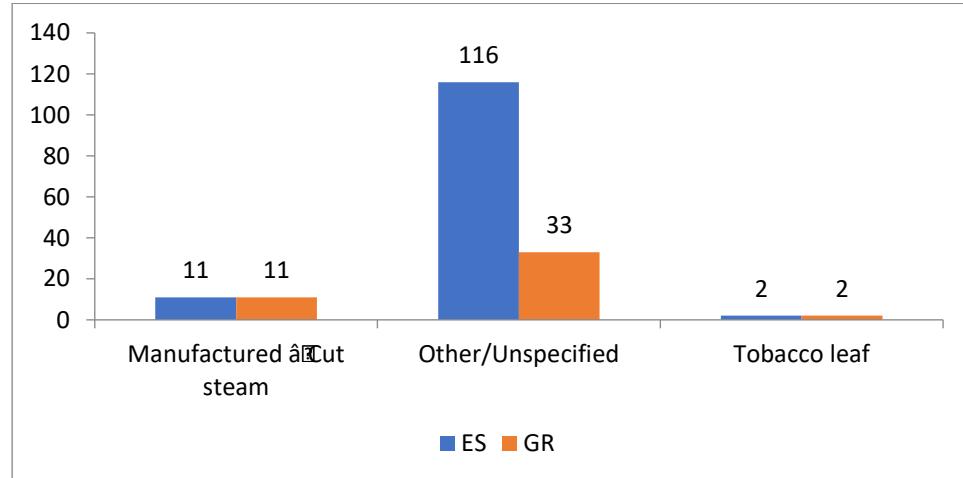
Net weight of one unit packet in g

Type	Obs	Mean	[95% Conf.	Interval]
ES	56	58.01	44.17	71.86
GR	50	535.53	407.30	663.77

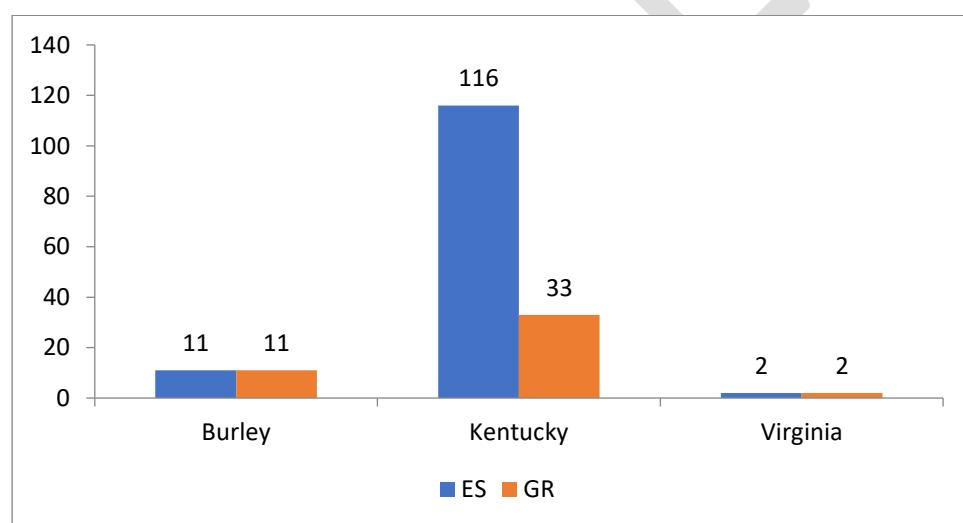
### 3.2.5.3 Tobacco ingredients

There are 175 observations on tobacco ingredients (129 and 46 for Spain and Greece, respectively)

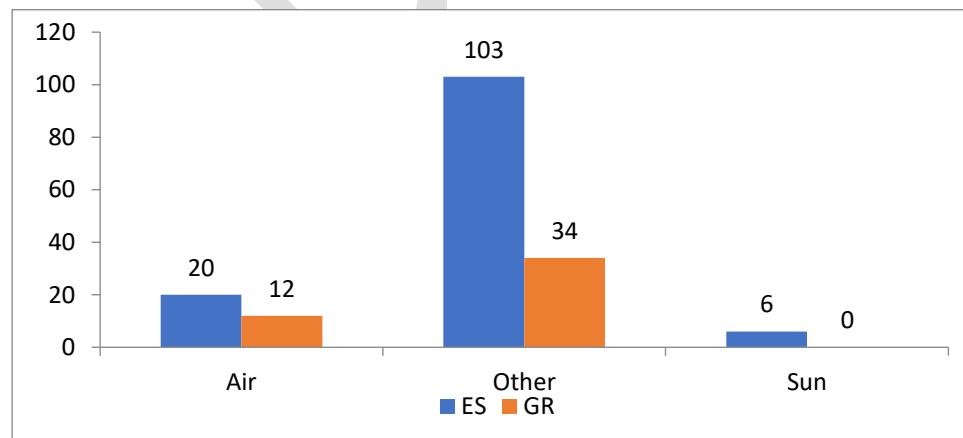
#### 3.2.5.3.1 Tobacco part type



#### 3.2.5.3.2 Tobacco leaf type



#### 3.2.5.3.3 Tobacco leaf cure method



### 3.2.5.3.4 Tobacco quantity

Weight per product unit in mg

Type	Obs	Mean	[95% Conf.	Interval]
ES	129	1589.70	1044.27	2135.12
GR	46	194.74	130.10	259.38

### 3.2.5.4 Other ingredients characteristics

There are 1468 observations on ingredients (367 and 1101 from Spain and Greece, respectively)

#### 3.2.5.4.1 Name or CAS

ES: there are 96 (26.16%) of the observations without information on CAS number

The 15 most frequently notified ingredients on herbal products

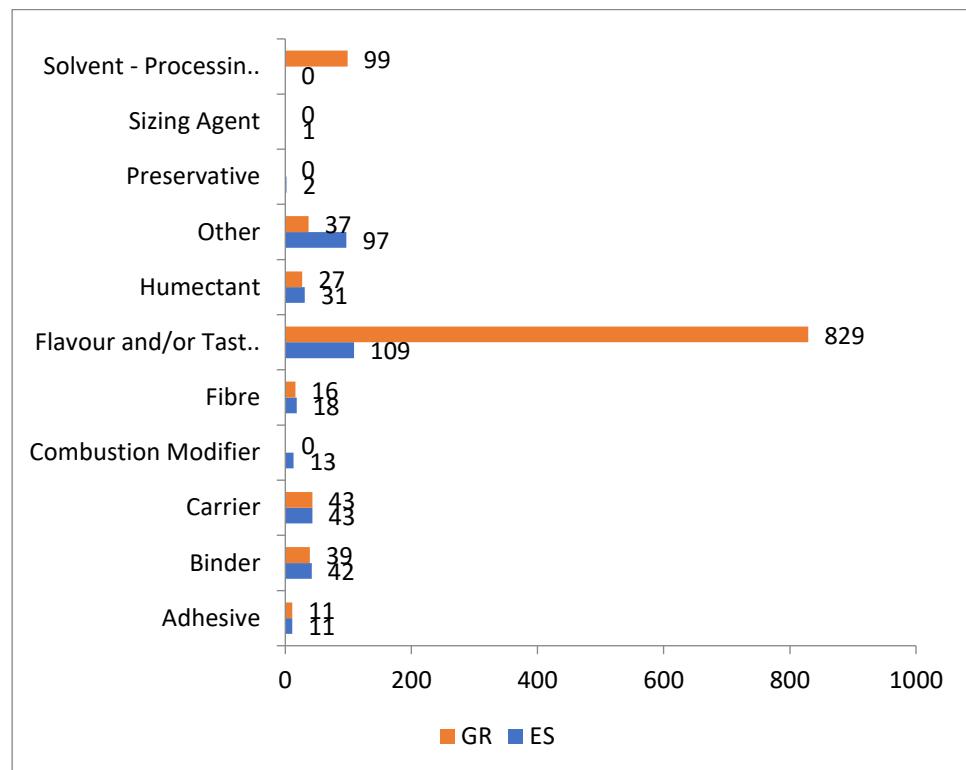
	ES		
CAS number	Ingredient's name	Obs	%
57-55-6	Propylene glycol	29	7.9
56-81-5	Glycerol	21	5.72
65996-61-4	Cellulose	18	4.9
9032-42-2	Methylhydroxyethylcellulose	15	4.09
7732-18-5	Water	14	3.81
128-44-9	sodium saccharin	13	3.54
9004-32-4	Sodium carboxymethylcellulose	13	3.54
25212-19-5	ADE triamine polymer	12	3.27
100-51-6	benzyl alcohol	10	2.72
64-17-5	ethanol	8	2.18
100-52-7	benzaldehyde	6	1.63
121-33-5	vanillin	6	1.63
57-50-1	sugar	6	1.63
102-76-1	triacetin	5	1.36
107-21-1	ethylene glycol	5	1.36

GR: all CAS numbers are informed

	GR		
CAS number	Ingredient's name	Obs	%
57-55-6	Propylene glycol	60	5.45
56-81-5	Glycerol	45	4.09
64-17-5	ethanol	40	3.63
13956-29-1	Cannabidiol	31	2.82
100-51-6	benzyl alcohol	18	1.63
7732-18-5	Water	18	1.63
111-27-3	Maltol	17	1.54
65996-61-4	Cellulose	16	1.45
105-54-4	ethyl butyrate	15	1.36

4940-11-8	ethyl maltol	15	1.36
97-64-3	ethyl lactate	15	1.36
100-52-7	benzaldehyde	14	1.27
121-33-5	vanillin	14	1.27
123-92-2	isoamyl acetate	14	1.27
141-78-6	ethyl acetate	14	1.27

### 3.2.5.4.2 Function



### 3.2.5.4.3 Quantity fluctuate

No fluctuation across batches

### 3.2.5.4.4 Recipe quantity

To be presented in the final report. Now we concentrate on cigarettes, NTP and RYO.

### 3.2.5.5 Toxicological data

No toxicological data is available on herbal products

### 3.2.5.6 TNCO and other emissions

No TNCO information on herbal products

### 3.2.6 Nasal

We need to mention that the Article 7 of the TPD, 2014/40/EU does not apply to tobacco for oral use

#### 3.2.6.1 Product details

There are 21 observations on the nasal products data file (16 and 5 from Spain and Greece, respectively)

##### 3.2.6.1.1 Products ID

ProductID	ES	GR	Percent
00073-16-10007	1		4.76
00073-16-10008	1		4.76
00073-16-10013	1		4.76
00083-16-00016	1		4.76
00083-16-00017	1	1	9.52
00083-16-00020	1		4.76
00083-16-00021	1		4.76
00083-16-00030	1	1	9.52
00083-16-00031	1	1	9.52
00083-16-00032	1		4.76
00083-16-00033	1	1	9.52
00931-16-11001	1	1	9.52
00931-16-11003	1		4.76
00931-16-11007	1		4.76
00931-16-11015	1		4.76
01057-16-00008	1		4.76
Total	16	5	100

##### 3.2.6.1.2 Submission type

All the submissions are "Updates to information to be submitted in regular intervals/annually such as sales data or actual quantities of ingredients (new Product ID version)".

##### 3.2.6.1.3 Product manufacturer identification

All the submitters are manufacturers

##### 3.2.6.1.4 Product filter

No product filter

##### 3.2.6.1.5 Means product diameter

Not applicable

##### 3.2.6.1.6 Means product weight

Type	Obs	Mean	[95% Conf.	Interval]
ES	16	688.38	434.00	942.75
GR	5	602	-74.16	1,278.56

## 3.2.6.1.7 Means product tobacco weight

Type	Obs	Mean	[95% Conf.	Interval]
ES	16	768.51	706.06	830.95
GR	5	740.56	609.65	871.47

## 3.2.6.1.8 Product length

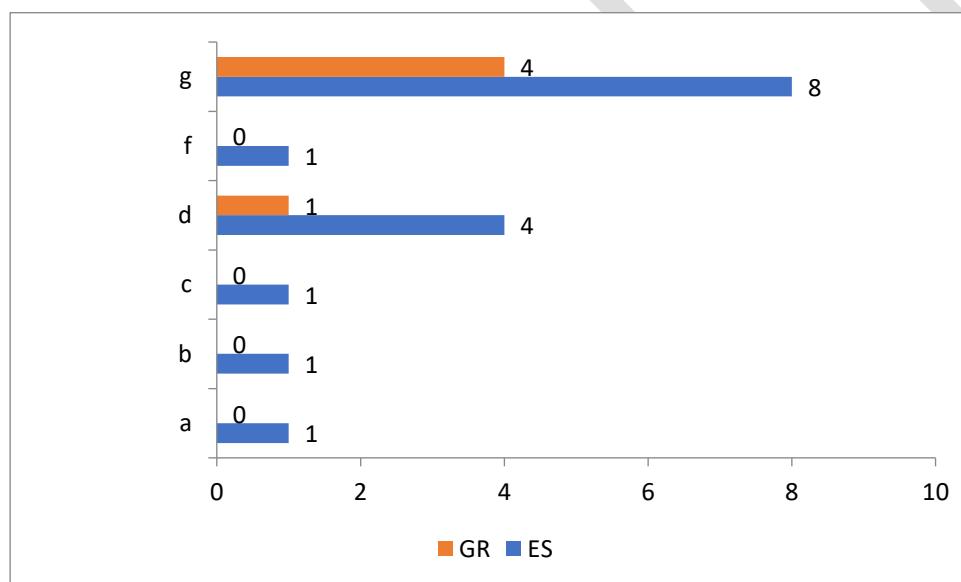
Not applicable

## 3.2.6.1.9 Smokeless Ph

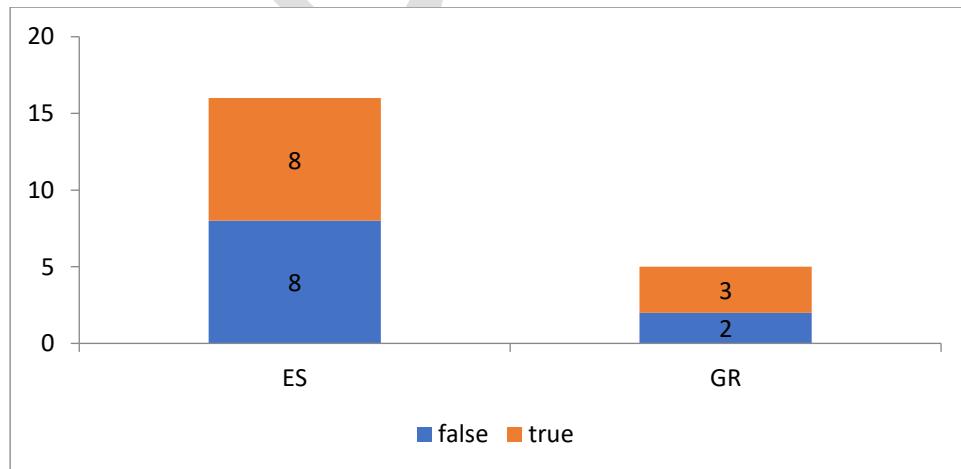
Type	Obs	Mean	[95% Conf.	Interval]
ES	16	12.36	3.73	20.99
GR	5	20.76	-15.51	57.03

## 3.2.6.2 Presentation details

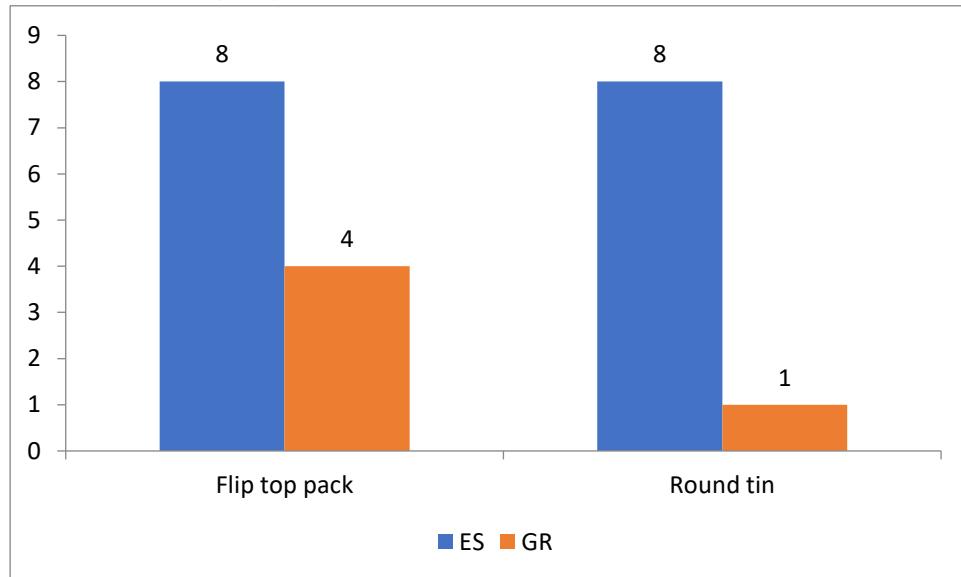
## 3.2.6.2.1 Brand names



## 3.2.6.2.2 Withdrawal indications



### 3.2.6.2.3 Package type



### 3.2.6.2.4 Package units

Information on package units is only available in 4 of the 21 observations

The number of package units is 10 in 4 of the observations

### 3.2.6.2.5 Package net weight

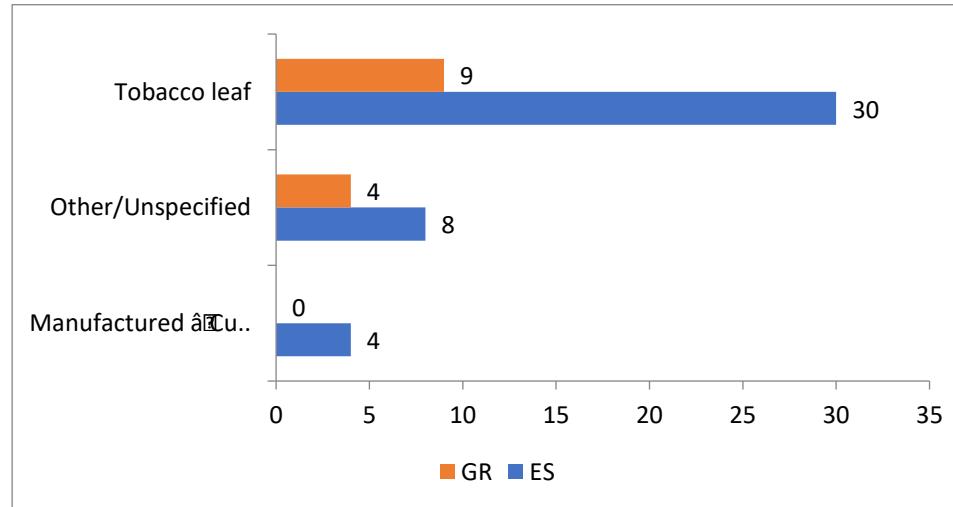
	ES	GR	Total
4	4	0	4
5.8	1	0	1
8.75	0	1	1
10	11	4	15
Total	16	5	21

### 3.2.6.3 Tobacco ingredients

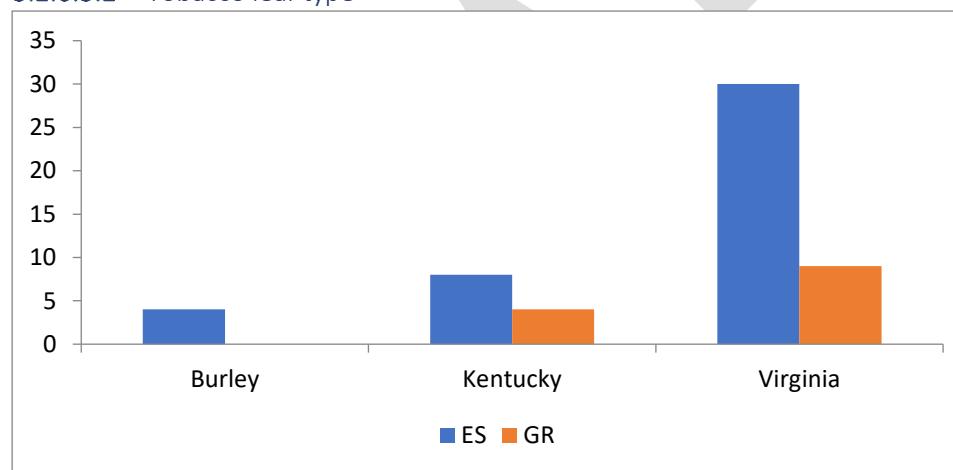
ProductID	ES	GR	Total
00073-16-10007	4	0	4
00073-16-10008	4	0	4
00073-16-10013	5	0	5
00083-16-00016	3	0	3
00083-16-00017	3	3	6
00083-16-00020	3	0	3
00083-16-00021	3	0	3
00083-16-00030	3	3	6
00083-16-00031	3	3	6
00083-16-00032	3	0	3
00083-16-00033	3	3	6
00931-16-11001	1	1	2
00931-16-11003	1	0	1
00931-16-11007	1	0	1

00931-16-11015	1	0	1
01057-16-00008	1	0	1
Total	42	13	55

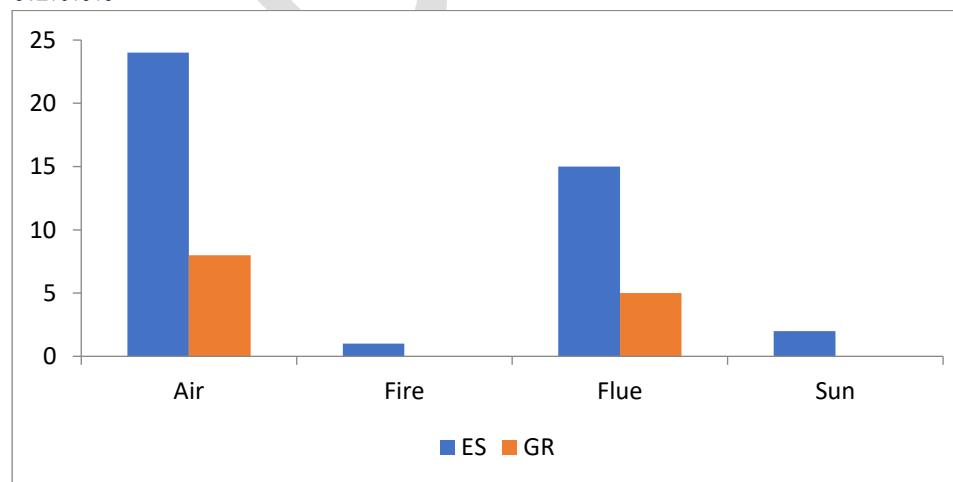
### 3.2.6.3.1 Tobacco part type



### 3.2.6.3.2 Tobacco leaf type



### 3.2.6.3.3 Tobacco leaf cure method



### 3.2.6.3.4 Tobacco quantity

ProductID	ES					GR			
	Obs	Mean	[95%]	Conf.		Obs	Mean	[95%]	Conf.
00073-16-10007	4	185.50	-127.43	498.43	0				
00073-16-10008	4	176.00	-13.51	365.51	0				
00073-16-10013	5	140.80	-28.01	309.61	0				
00083-16-00016	3	243.87	-18.45	506.19	0				
00083-16-00017	3	243.87	-18.45	506.19	3	243.87	-18.45	506.19	
00083-16-00020	3	217.33	-16.44	451.11	0				
00083-16-00021	3	217.33	-16.44	451.11	0				
00083-16-00030	3	226.00	-17.10	469.10	3	226.00	-17.10	469.10	
00083-16-00031	3	226.00	-17.10	469.10	3	226.00	-17.10	469.10	
00083-16-00032	3	230.10	-17.30	477.50	0				
00083-16-00033	3	230.10	-17.30	477.50	3	230.10	-17.30	477.50	
00931-16-11001	1				1				
00931-16-11003	1				0				
00931-16-11007	1				0				
00931-16-11015	1				0				
01057-16-00008	1				0				
<b>Total</b>	<b>42</b>				<b>13</b>				

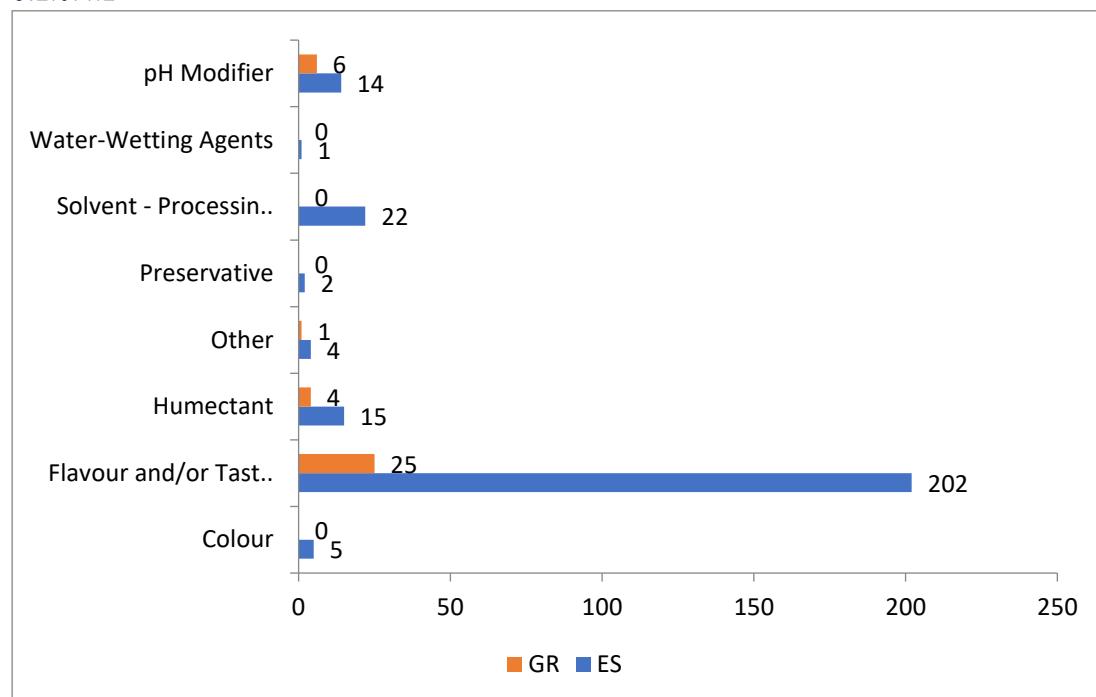
### 3.2.6.4 Other ingredients characteristics

There are 301 ingredients' entries for nasal tobacco products (265 and 36 from Spain and Greece, respectively)

#### 3.2.6.4.1 Name or CAS

	ES			GR	
CAS number	Ingredient's name	Obs	CAS number	Ingredient's name	Obs
7647-14-5	Sodiumchlorid	11	497-19-8	Sodium Carbonate	4
8042-47-5	Paraffin Oil	11	7647-14-5	Sodiumchlorid	4
497-19-8	Sodium Carbonate	8	8042-47-5	Paraffin Oil	4
12125-02-9	Ammoniumchlorid	7	12125-02-9	Ammoniumchlorid	2
2216-51-5	Menthol	5	584-08-7	Potassium Carbonate	2
584-08-7	Potassium Carbonate	5	2216-51-5	Menthol	1
7732-18-5	Water	5	76-22-2	Camphor	1
100-51-6	Benzyl alcohol	3	8000-48-4	Eucalyptus Oil	1

### 3.2.6.4.2 Function



### 3.2.6.4.3 Quantity fluctuate

No fluctuation

### 3.2.6.4.4 Recipe quantity

Type	Obs	Mean	[95% Conf.	Interval]
ES	265	30.01	15.45	44.58
GR	36	58.23	5.88	110.59

### 3.2.6.5 Toxicological data

No toxicological data available

### 3.2.6.6 TNCO and other emissions

No information on emissions

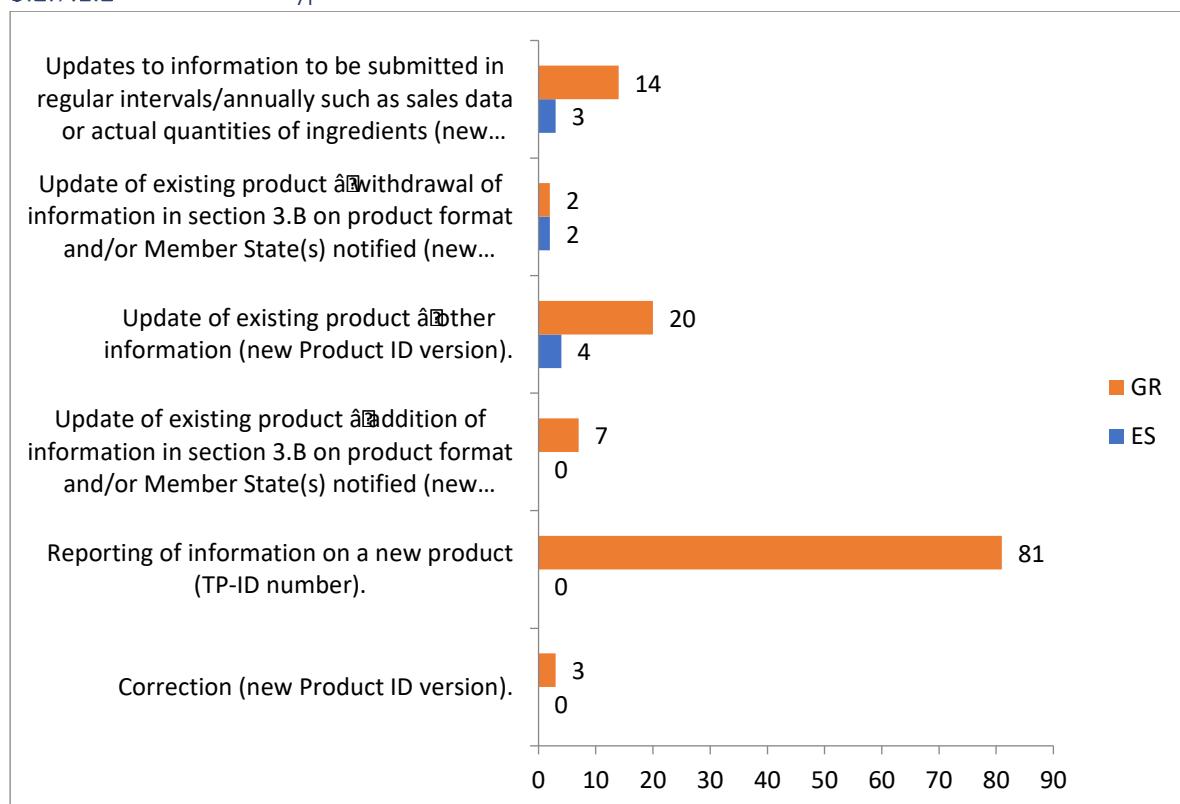
### 3.2.7 Novel Tobacco Products (NTP)

#### 3.2.7.1 Product details

##### 3.2.7.1.1 Products ID

There are 136 entries on the NTP data file (9 and 127 from Spain and Greece, respectively)

##### 3.2.7.1.2 Submission type



##### 3.2.7.1.3 Product manufacturer identification

All the submissions are made by the manufacturer

##### 3.2.7.1.4 Product length

Not applicable

##### 3.2.7.1.5 Means product diameter

Not applicable

##### 3.2.7.1.6 Means product weight

	<b>Obs</b>	<b>Mean</b>	<b>[95% Conf.</b>	<b>Interval]</b>
ES	9	629.54	354.69	904.39
GR	127	523.78	508.44	539.11

##### 3.2.7.1.7 Means product tobacco weight

	<b>Obs</b>	<b>Mean</b>	<b>[95% Conf.</b>	<b>Interval]</b>
ES	9	238.05	134.30	341.80
GR	127	203.86	198.04	209.69

% of tobacco weight over total weight is 37.8% and 38.9% in ES and GR, respectively.

### 3.2.7.1.8 Product filter

Not applicable (NA)

### 3.2.7.1.9 Cigarette characterizing flavor

NA

### 3.2.7.1.10 Cigarette filter ventilation (%)

NA

### 3.2.7.1.11 Cigarette filter drop pressure open

NA

### 3.2.7.1.12 Cigarette filter drop pressure close

NA

## 3.2.7.2 Presentation details

### 3.2.7.2.1 Brandnames

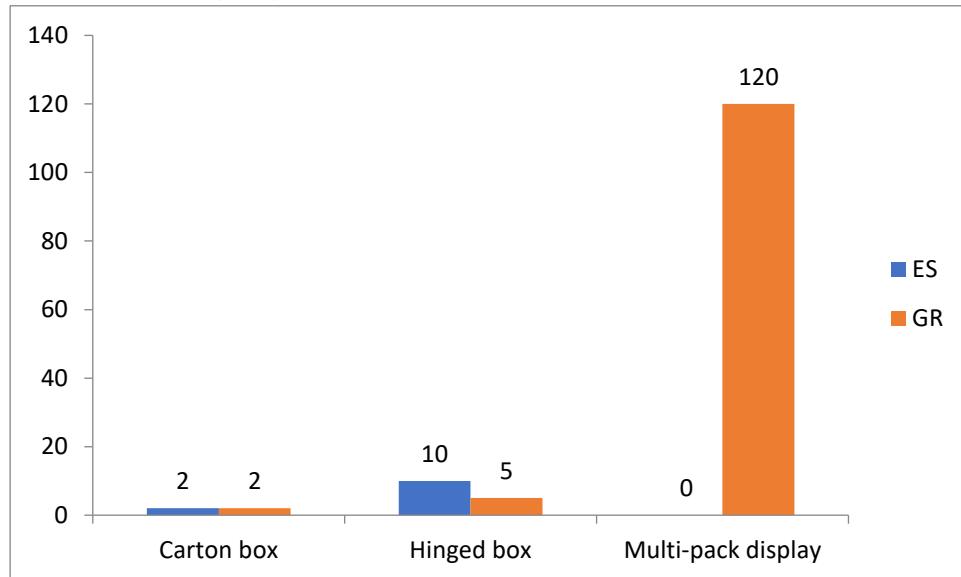
Brandnames	ES	GR	Total
a	2	2	4
b	2	1	3
c	1	0	1
d	1	1	2
e	1	1	2
f	1	0	1
g	2	1	3
h	2	1	3
i	0	120	120
Total	12	127	139

Highlighted in yellow are the pseudo-brandnames equally submitted in ES and GR

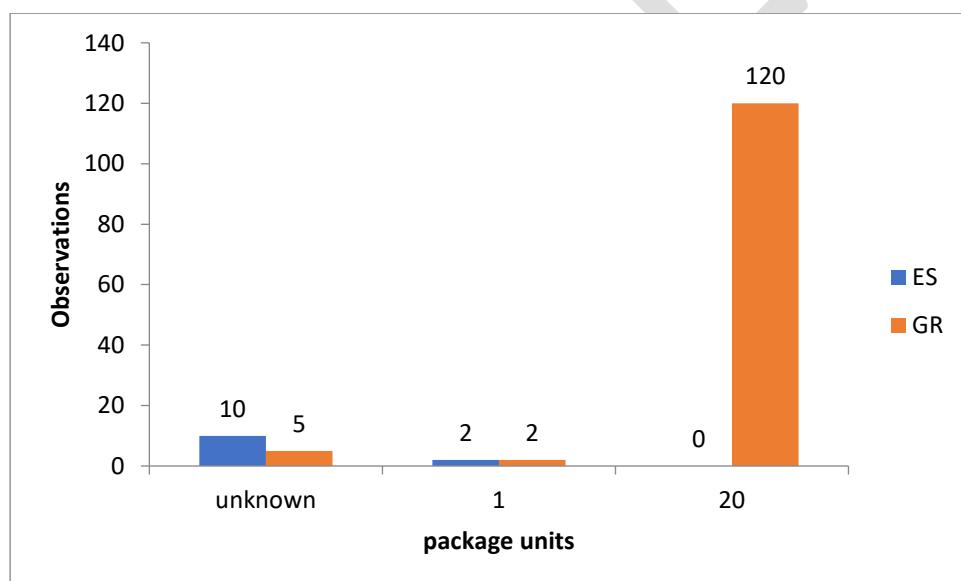
### 3.2.7.2.2 Withdrawal indications

No withdrawal indications

### 3.2.7.2.3 Package type



### 3.2.7.2.4 Package units



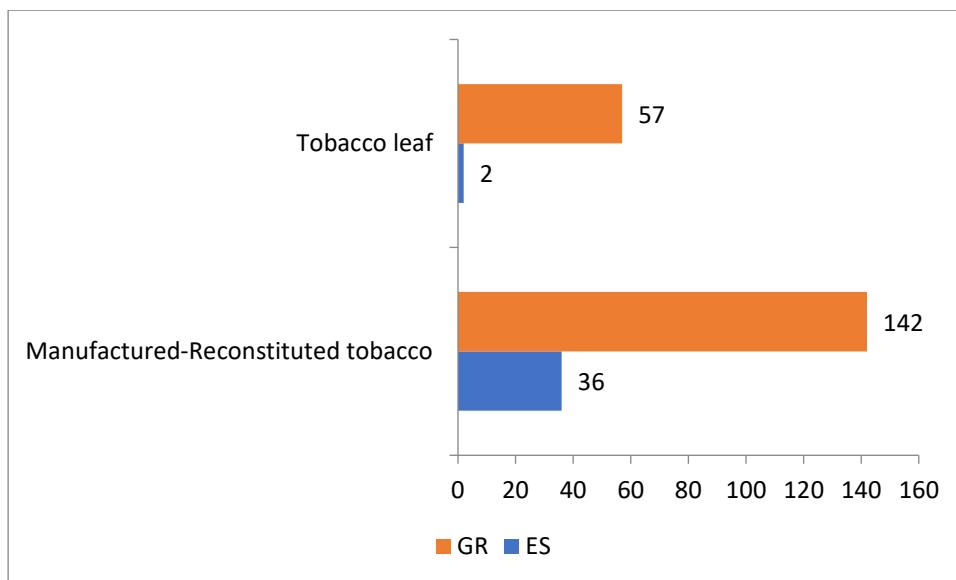
### 3.2.7.2.5 Package net weight

	Obs	Mean	[95% Conf.	Interval]
ES	12	11.33	2.18	20.47
GR	127	16.05	15.38	16.73

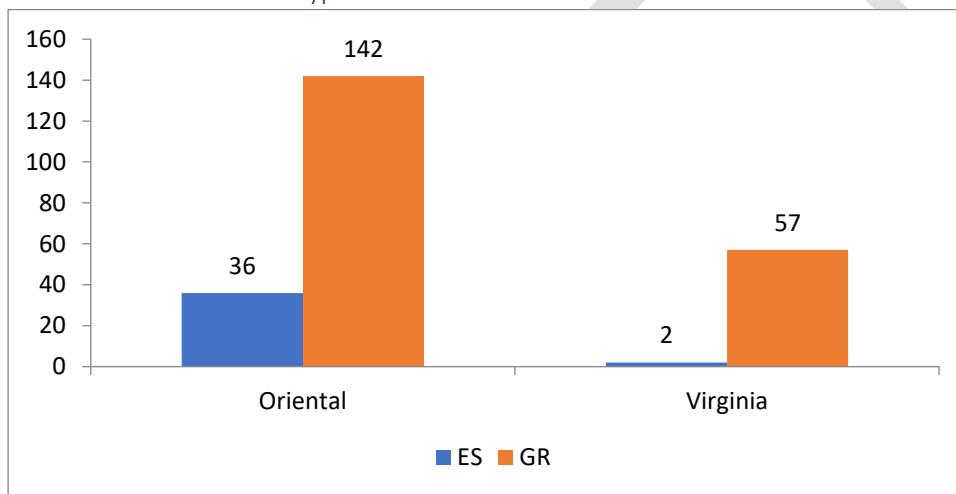
### 3.2.7.3 Tobacco ingredients

This data file contains 237 observations (38 and 199 from Spain and Greece, respectively)

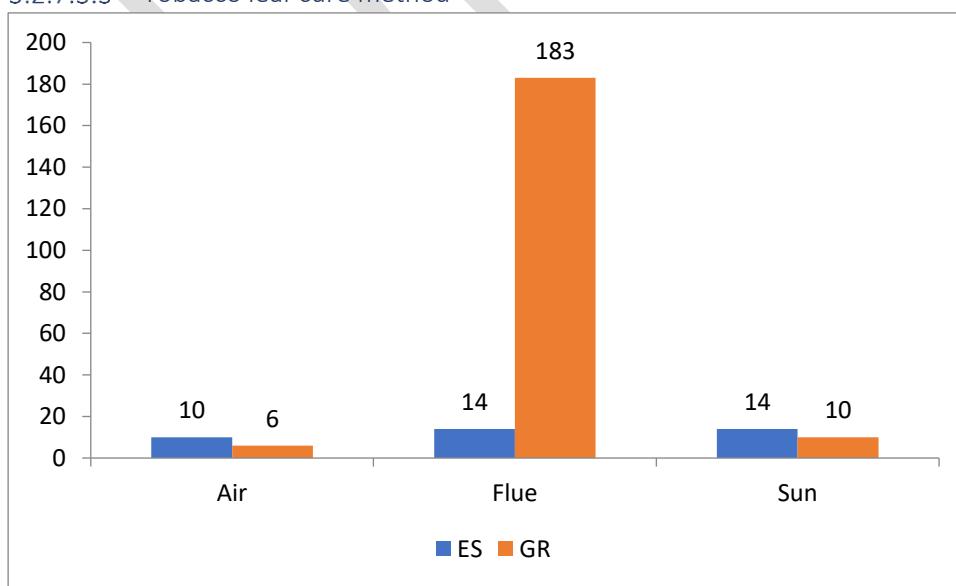
#### 3.2.7.3.1 Tobacco part type



### 3.2.7.3.2 Tobacco leaf type



### 3.2.7.3.3 Tobacco leaf cure method



### 3.2.7.3.4 Tobacco quantity (mg per heatstick)

	<b>Obs</b>	<b>Mean</b>	<b>[95% Conf.</b>	<b>Interval]</b>
ES	38	74.90	53.65	96.15
GR	199	132.24	122.48	142.00

### 3.2.7.4 Other ingredients characteristics

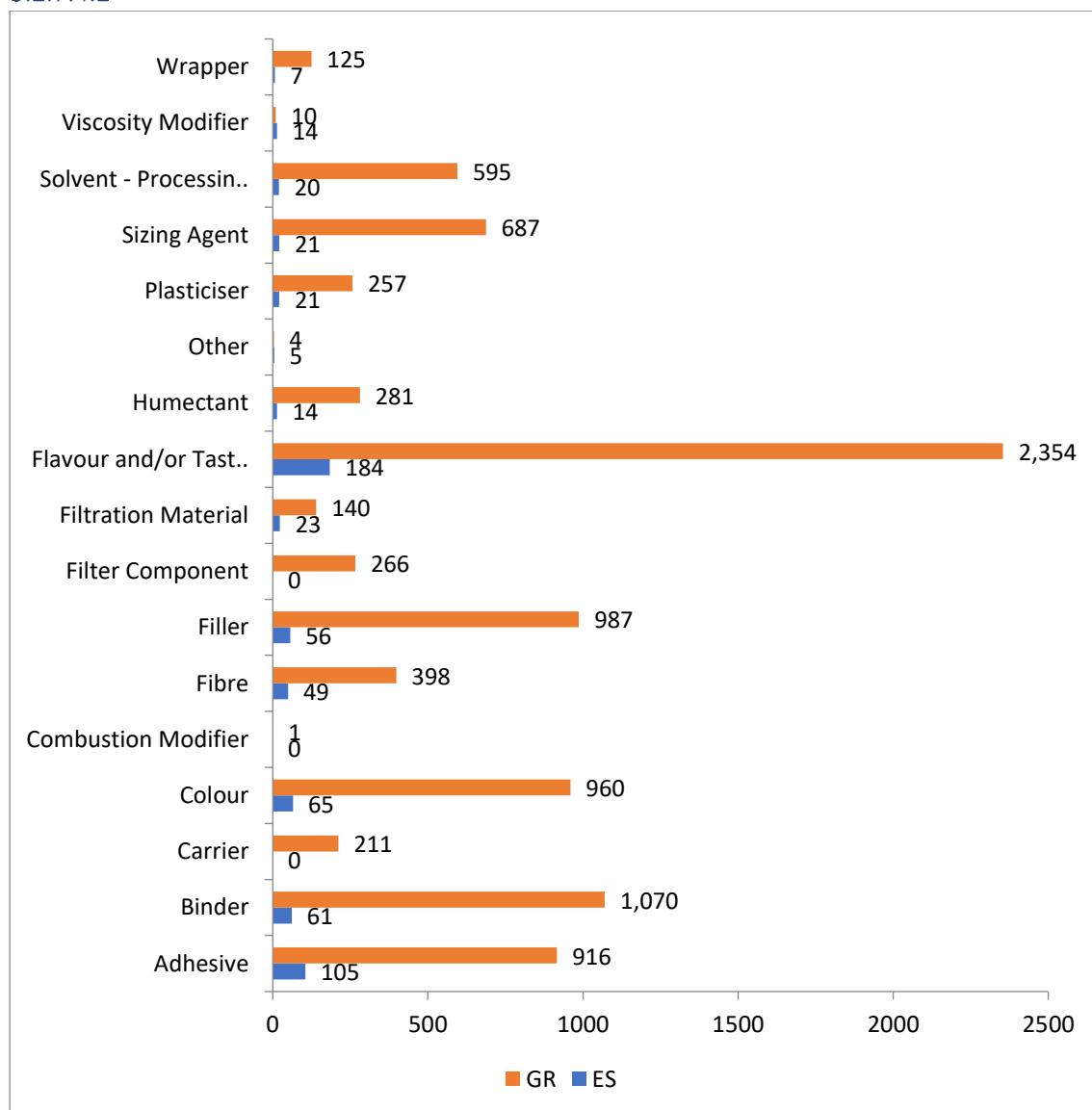
#### 3.2.7.4.1 Name or CAS

There are 9907 observations in the other ingredients data file of the NTP (645 and 9262 from Spain and Greece, respectively)

The 15 most frequently notified ingredients of NTP

	<b>ES</b>	
<b>CAS number</b>	<b>Ingredient's name</b>	<b>Obs</b>
24937-78-8	Ethyl vinyl acetate copolymer	42
471-34-1	Calcium carbonate	42
25213-24-5	Polyvinyl alcohol	28
65996-61-4	Cellulose	28
1317-61-9	Iron Oxide Black - TVO	21
13463-67-7	Titanium dioxide	21
65996-62-5	Cellulose fibre	21
84989-41-3	Alkyl ketene dimer	21
9003-20-7	Polyvinyl acetate	21
9004-32-4	Sodium carboxymethyl cellulose	21
9004-34-6	Cellulose pulp	21
9004-35-7	Cellulose acetate	16
102-76-1	Glyceryl triacetate	14
68132-00-3	Polycyclopentadiene resin, hydrogenated	14
8002-74-2	Paraffin wax	14
	<b>GR</b>	
<b>CAS number</b>	<b>Ingredient's name</b>	<b>Obs</b>
7732-18-5	Water	637
65996-61-4	Cellulose	500
24937-78-8	Ethyl vinyl acetate copolymer	390
14807-96-6	Talc	275
25213-24-5	Polyvinyl alcohol	260
13463-67-7	Titanium dioxide	254
65996-62-5	Cellulose fibre	231
56-81-5	Glycerol	212
10043-01-3	Aluminium Sulphate	211
1332-58-7	Aluminosilicates, Natural	211
9005-84-9	Starch	187
1317-61-9	Iron Oxide Black - TVO	182
471-34-1	Calcium carbonate	164
57-55-6	Propylene glycol	137
84989-41-3	Alkyl ketene dimer	135

### 3.2.7.4.2 Function



### 3.2.7.4.3 Quantity fluctuate

No fluctuations

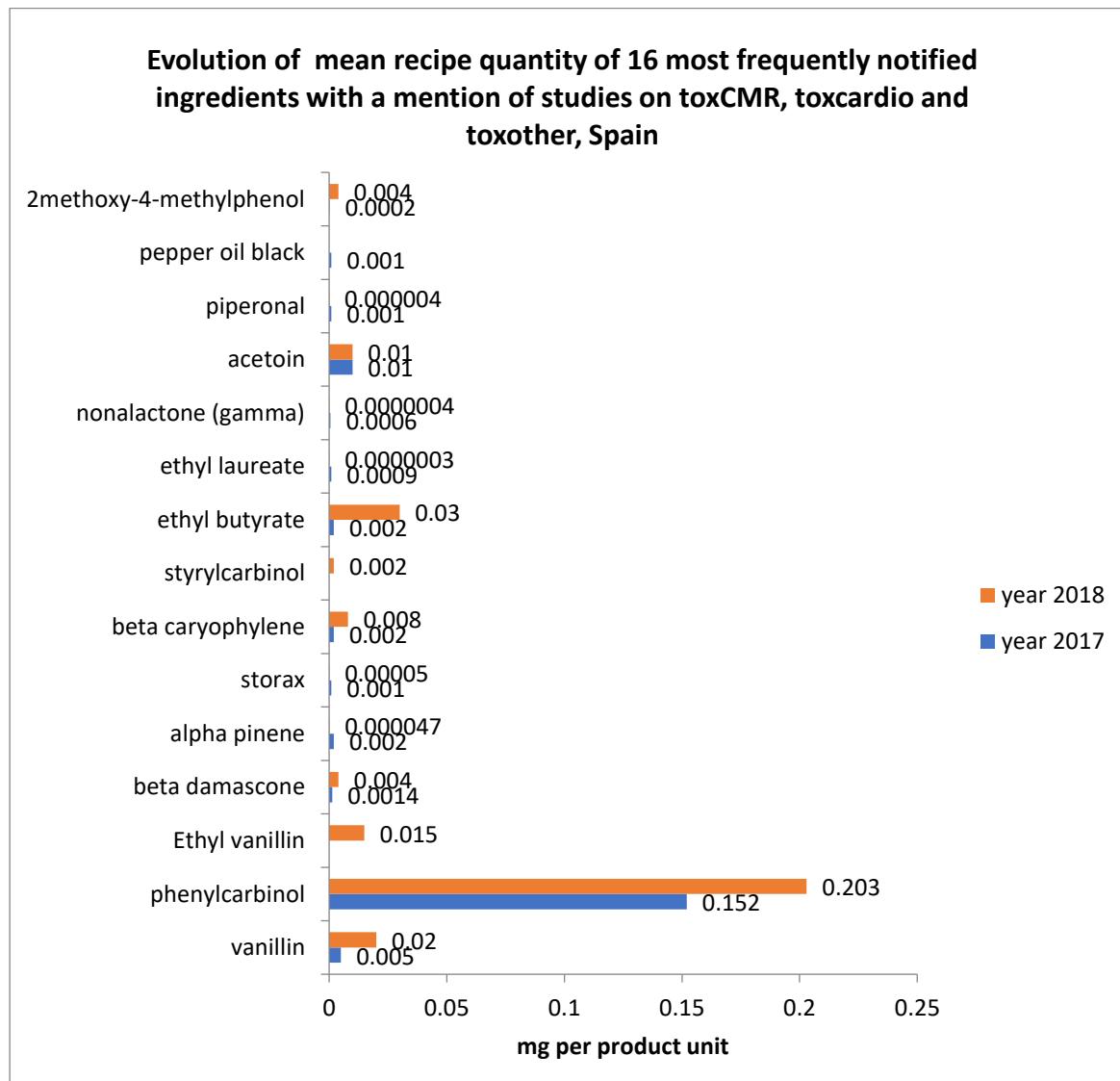
### 3.2.7.4.4 Recipe quantity (mg per heatstick)

In the Spanish data file, the heaviest and most frequently notified ingredients that have studies on toxCMR, tox cardio and toxother, are:

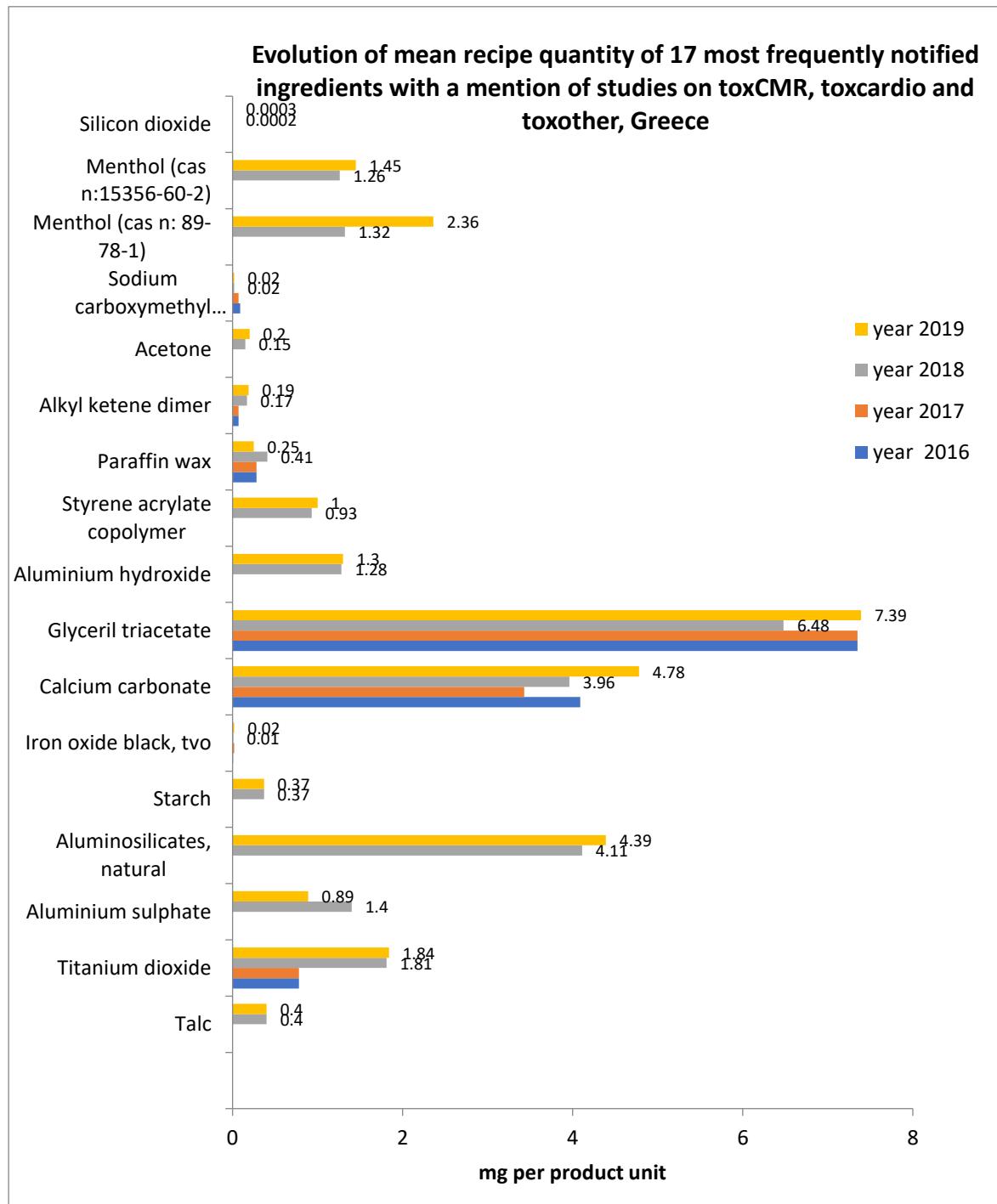
	obs	Mean recipe quantity (mg per heatstick) year 2017	95%CI	obs	Mean recipe quantity (mg per heatstick) year 2018	95%CI
guar gum	5	3.67	neg to 7,7	7	3.9	0,5-6,5
cellulose	9	19.4	12,2 - 26,2	12	19.4	13,5-25,2

glycerol	3	47.1		4	47.1	
----------	---	------	--	---	------	--

With exclusion of guar gum, glycerol and cellulose that are too heavy to be presented in the same graph, the following graph shows the **evolution of the mean recipe quantity** of ingredients in Spain as follows:



With exclusion of Cellulose



### 3.2.7.5 Toxicological data

#### 3.2.7.5.1 Tox data available

	<b>false</b>	<b>%</b>	<b>true</b>	<b>%</b>	<b>Total</b>	<b>%</b>
ES	533	82.64	112	17.36	645	100
GR	8,846	95.51	416	4.49	9,262	100
Total	9,379	94.67	528	5.33	9,907	100

#### 3.2.7.5.2 Existence of studies indicating the chemistry and/or toxicity (tox CMR)

	<b>false</b>	<b>%</b>	<b>true</b>	<b>%</b>	<b>Total</b>	<b>%</b>
ES	533	82.64	112	17.36	645	100
GR	2,689	29.03	6,573	70.97	9,262	100
Total	3,222	32.52	6,685	67.48	9,907	100

#### 3.2.7.5.3 Existence of studies indicating the chemistry and/or toxicity (tox cardio)

	<b>false</b>	<b>%</b>	<b>true</b>	<b>%</b>	<b>Total</b>	<b>%</b>
ES	533	82.64	112	17.36	645	100
GR	4,471	48.27	4,791	51.73	9,262	100
Total	5,004	50.51	4,903	49.49	9,907	100

#### 3.2.7.5.4 Existence of studies indicating the chemistry and/or toxicity (tox addictive)

none

#### 3.2.7.5.5 Existence of studies indicating the chemistry and/or toxicity (tox other)

	<b>false</b>	<b>%</b>	<b>true</b>	<b>%</b>	<b>Total</b>	<b>%</b>
ES	20	3.1	625	96.9	645	100
GR	1,713	18.49	7,549	81.51	9,262	100
Total	1,733	17.49	8,174	82.51	9,907	100

### 3.2.7.6 TNCO and other emissions

No information on emissions

### 3.2.8 Other (Product placed on the market before 19 May 2014, not covered by categories 1-9)

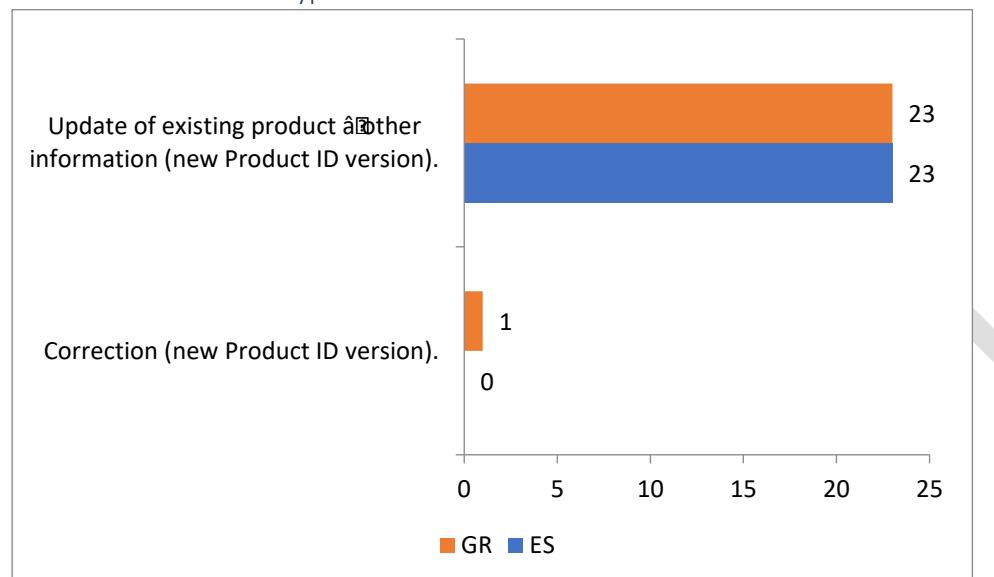
#### 3.2.8.1 Product details

There are 47 observations in the products data file of other tobacco products (23 from Spain and 24 from Greece)

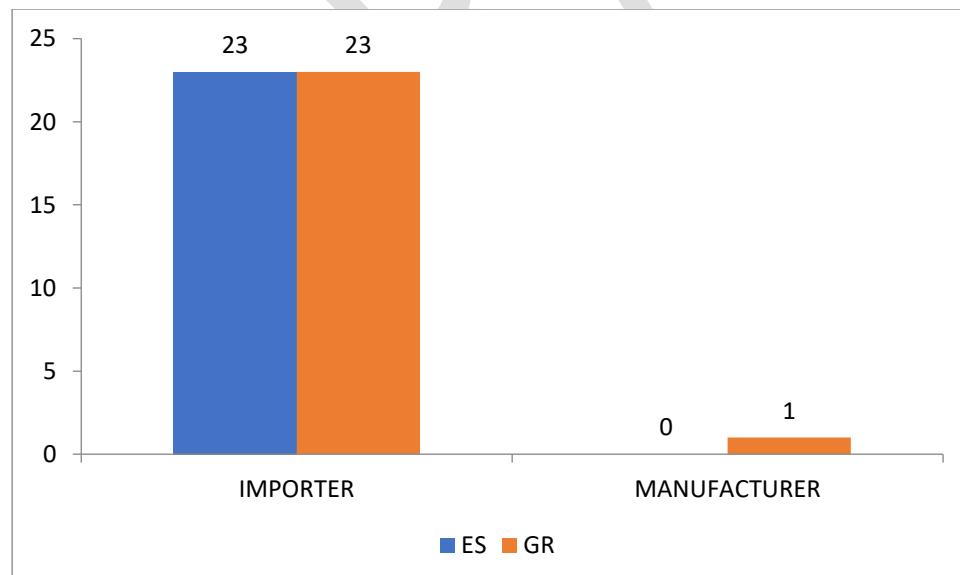
##### 3.2.8.1.1 Products ID

To be explored further in the final report. Now, we concentrate on cigarettes, NTP and RYO

##### 3.2.8.1.2 Submission type



##### 3.2.8.1.3 Product manufacturer identification



##### 3.2.8.1.4 Product length

NA

##### 3.2.8.1.5 Product diameter

NA

## 3.2.8.1.6 Product weight

	<b>ES</b>	<b>GR</b>	<b>Total</b>
151.59	1	1	2.00
336.8	2	2	4.00
337	1	1	2
337.059	1	1	2
339.775	1	1	2
378.7315	1	1	2
426.47	1	1	2
827.6312	1	1	2
1166.23	1	1	2
1200.96	3	3	6
1202.08	1	1	2
1477.72	1	1	2
1546.73	1	1	2
1546.74	1	1	2
1575.93	1	1	2
14662	1	1	2
14693.04	1	1	2
14745.79	1	1	2
14745.8	1	1	2
14748.48	1	1	2
30000	0	1	1
<b>Total</b>	<b>23</b>	<b>24</b>	<b>47</b>

## 3.2.8.1.7 Product tobacco weight

	<b>ES</b>	<b>GR</b>	<b>Total</b>
0	1	1	2.00
60.564	5	5	10.00
252.35	6	6	12
842.128	6	6	12
1153.6	5	5	10
30000	0	1	1
<b>Total</b>	<b>23</b>	<b>24</b>	<b>47</b>

## 3.2.8.1.8 Product filter

NA

## 3.2.8.1.9 Cigarette characterizing flavor

NA

## 3.2.8.1.10 Cigarette filter ventilation (%)

NA

## 3.2.8.1.11 Cigarette filter drop pressure open

NA

## 3.2.8.1.12 Cigarette filter drop pressure close

NA

## 3.2.8.2 Presentation details

There are 51 observations on other products (25 from Spain and 26 from Greece)

## 3.2.8.2.1 Brand names

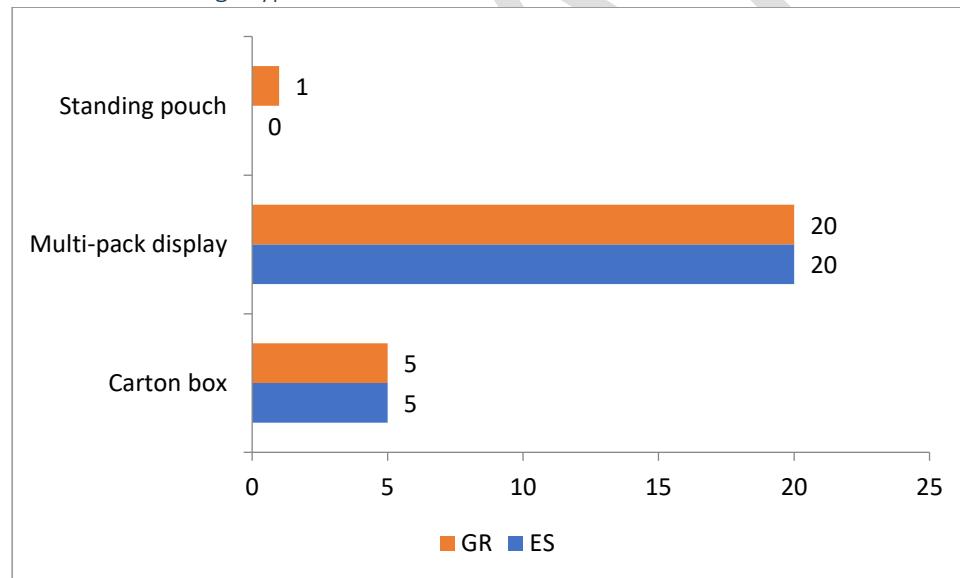
Brandnames	ES	GR	Total
A	0	1	1
B	5	5	10
C	6	6	12
D	6	6	12
E	8	8	16
Total	25	26	51

Highlighted in yellow are the pseudo-brandnames equally submitted in ES and GR

## 3.2.8.2.2 Withdrawal indications

No indications

## 3.2.8.2.3 Package type



## 3.2.8.2.4 Package units

NA

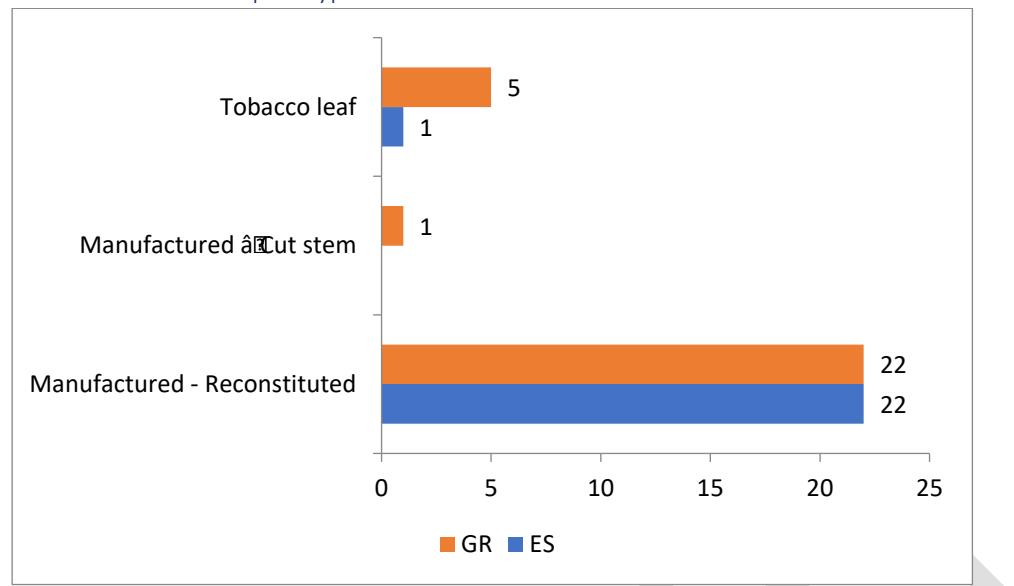
## 3.2.8.2.5 Package net weight

	ES	GR	Total
unknown	22	23	45
16.16	3	3	6
Total	25	26	51

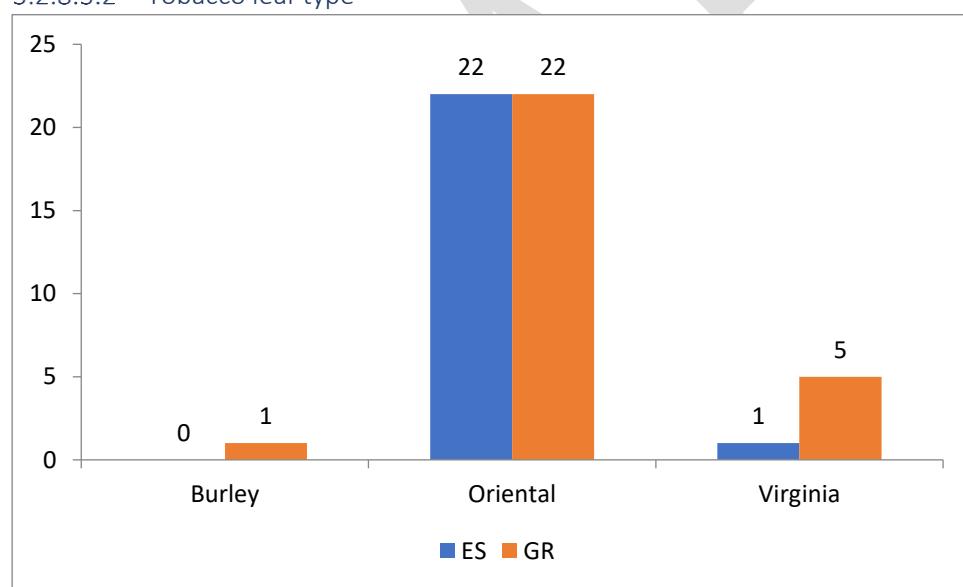
### 3.2.8.3 Tobacco ingredients

There are 51 observations (23 from Spain and 28 from Greece)

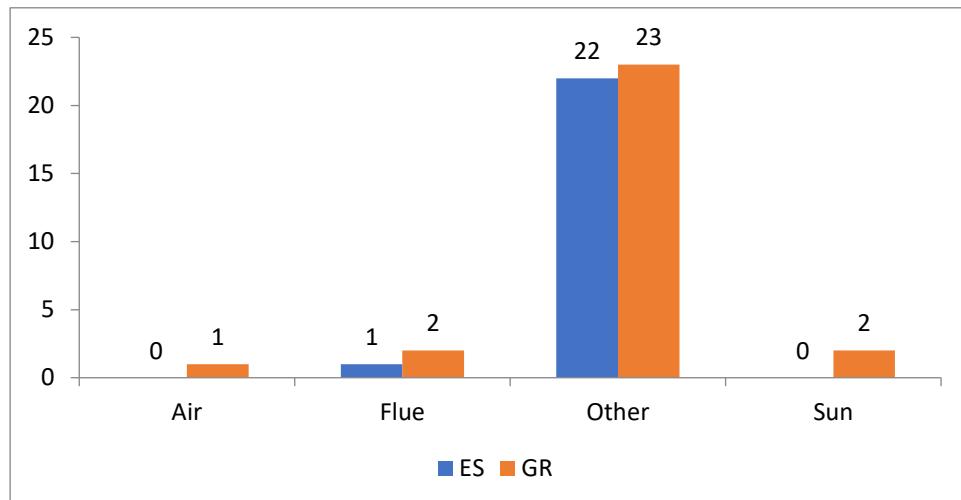
#### 3.2.8.3.1 Tobacco part type



#### 3.2.8.3.2 Tobacco leaf type



### 3.2.8.3.3 Tobacco leaf cure method



### 3.2.8.3.4 Tobacco quantity

Type	Obs	Mean	[95% Conf.	Interval]
ES	23	539.65	343.01	736.29
GR	28	1514.71	267.70	2761.72

### 3.2.8.4 Other ingredients characteristics

There are 832 observations in the other ingredients data file (416 from Spain and 416 from Greece)

#### 3.2.8.4.1 Name or CAS

In Spain

CAS number	Ingredient's name	Obs	%
57-55-6	Propylene glycol	39	9.38
65996-61-4	Cellulose	25	6.01
128-44-9	Sodium sacharin	23	5.53
9004-62-0	hydroxyethyl cellulose	23	5.53
9000-30-0	guar gum	22	5.29
9004-67-5	methyl cellulose	21	5.05
7732-18-5	Water	17	4.09
121-33-5	Vanillin	15	3.61
100-51-6	Benzyl alcohol	14	3.37
64-17-5	Ethanol	14	3.37
100-52-7	benzaldehyde	10	2.40
105-54-4	Ethyl butyrate	10	2.40
08/11/4940	ethyl maltol	10	2.40
60047-17-8	linalool oxide	9	2.16
102-76-1	Triacetin	7	1.68

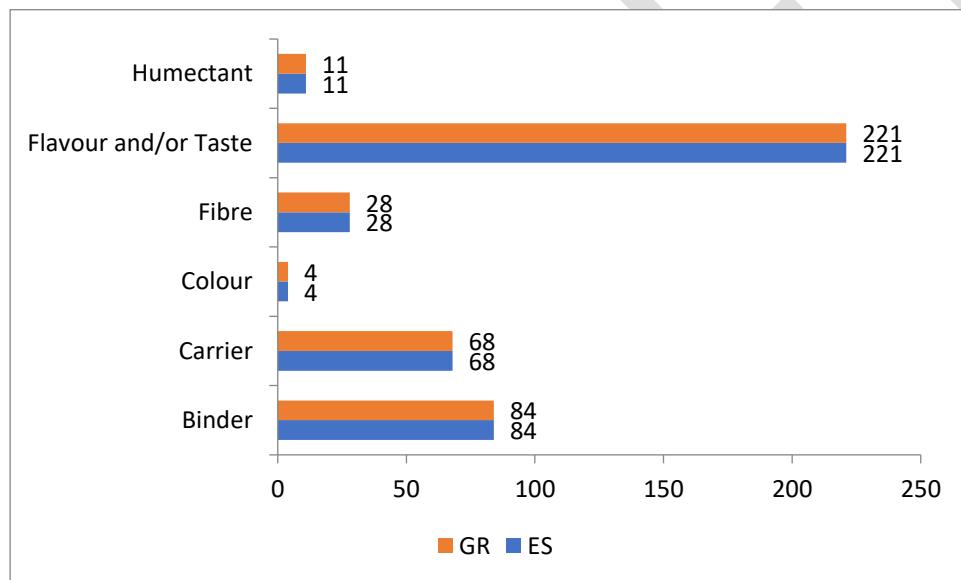
In Greece

CAS number	Ingredient's name	Obs	%

57-55-6	Propylene glycol	39	9.38
65996-61-4	Cellulose	25	6.01
128-44-9	Sodium sacharin	23	5.53
9004-62-0	hydroxyethyl cellulose	23	5.53
9000-30-0	guar gum	22	5.29
9004-67-5	methyl cellulose	21	5.05
7732-18-5	Water	17	4.09
121-33-5	Vanillin	15	3.61
100-51-6	Benzyl alcohol	14	3.37
64-17-5	Ethanol	14	3.37
100-52-7	benzaldehyde	10	2.40
105-54-4	Ethyl butyrate	10	2.40
08/11/4940	ethyl maltol	10	2.40
60047-17-8	linalool oxide	9	2.16
102-76-1	Triacetin	7	1.68

Same ingredients and numbers

### 3.2.8.4.2 Function



### 3.2.8.4.3 Quantity fluctuate

No fluctuation

### 3.2.8.4.4 Recipe quantity

Type	Obs	Mean	[95% Conf.	Interval]
ES	416	1040.63	-176.49	2257.74
GR	416	1040.63	-176.49	2257.74

### 3.2.8.5 Toxicological data

No toxicological data is available

### 3.2.8.6 TNCO and other emissions

No emissions data is available

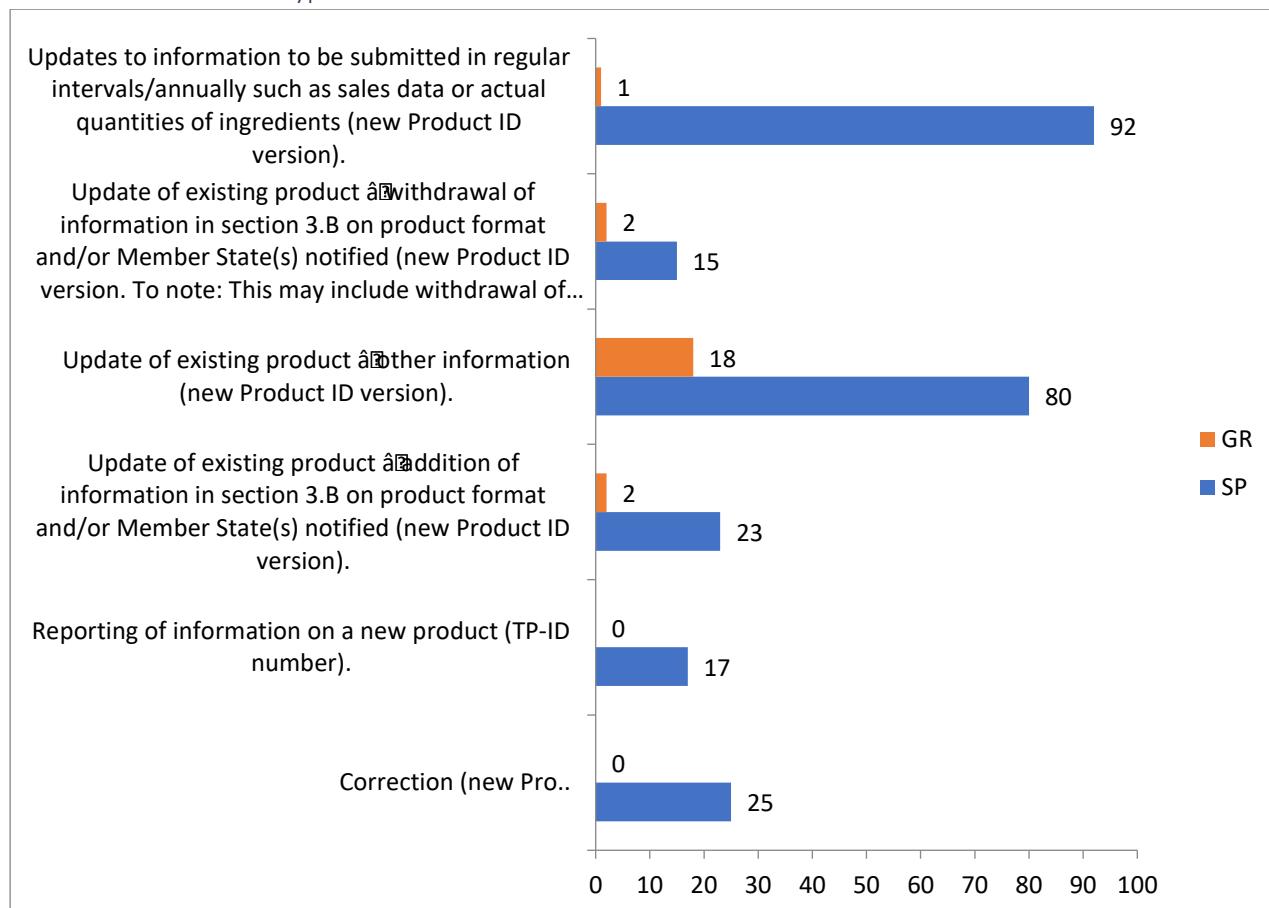
### 3.2.9 Pipe

#### 3.2.9.1 Product details

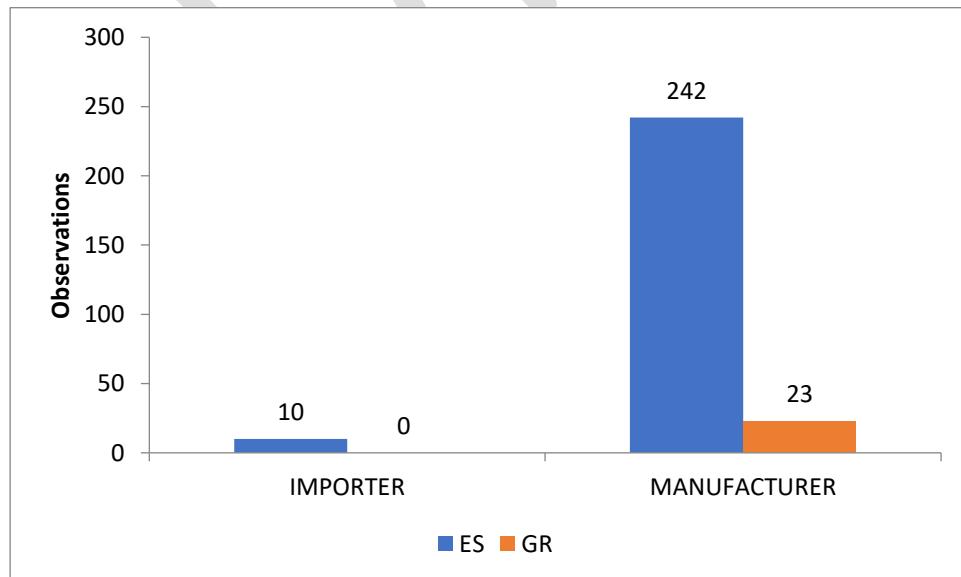
##### 3.2.9.1.1 Products ID

There are 275 entries (252 and 23 from Spain and Greece, respectively)

##### 3.2.9.1.2 Submission type



##### 3.2.9.1.3 Product manufacturer identification



### 3.2.9.1.4 Product length

*Average length of the product unit in mm*

### 3.2.9.1.5 Product diameter

*Average diameter of the product unit in mm*

### 3.2.9.1.6 Product weight

*Weight of one product unit (one unit for loose tobacco is 1 g.), including the moisture in mg*

### 3.2.9.1.7 Product tobacco weight

*Total weight of the tobacco in one product unit in mg*

## 3.2.9.2 Presentation details

### 3.2.9.2.1 Brand names

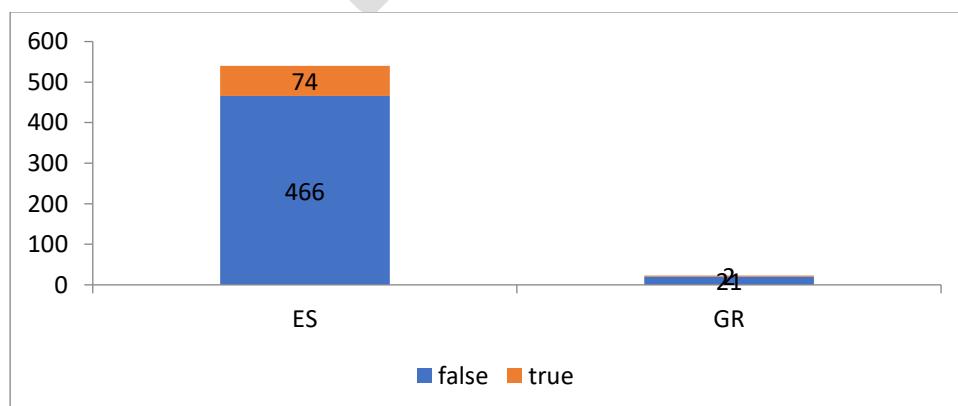
The 15 most frequent brand names in Spain and the only notified brand names in Greece are:

ES			GR		
Brand name	Observations	%	Brand name	Observations	%
a	37	6.85	o	6	26.09
b	18	3.33	p	5	21.74
c	13	2.41	i	4	17.39
d	12	2.22	m	2	8.7
e	11	2.04	q	2	8.7
f	11	2.04	k	2	8.7
g	9	1.67	r	1	4.35
h	9	1.67	s	1	4.35
i	8	1.48			
j	8	1.48			
k	8	1.48			
l	8	1.48			
m	7	1.3			
n	7	1.3			
o	7	1.3			

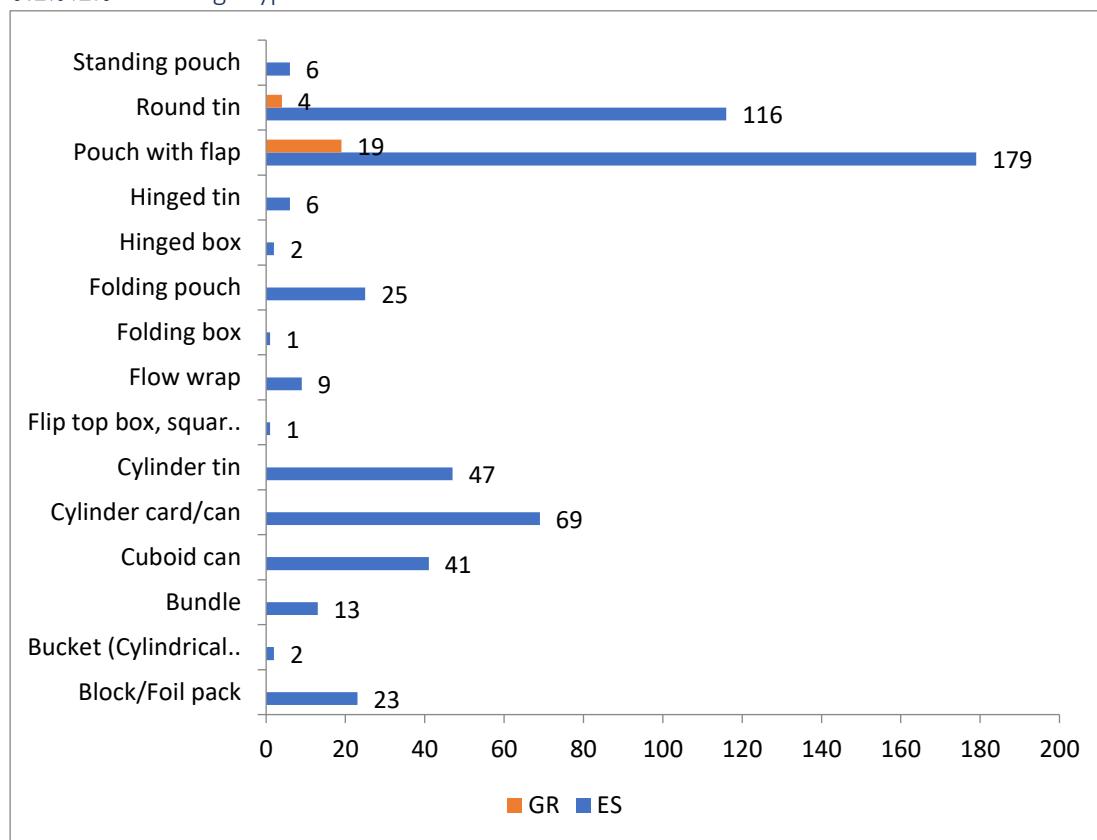
Highlighted in yellow are the pseudo-brandnames equally submitted in ES and GR.

### 3.2.9.2.2 Withdrawal indications

Indication that the submitter plans to withdraw the product from the market



### 3.2.9.2.3 Package type



### 3.2.9.2.4 Package units

Information on package units is missing in all Greek presentations and in 418 (77%) of the 540 Spanish presentations

	ES	GR	Total
Unknown	418	23	441
1	71	0	71
120	1	0	1
16	1	0	1
2	1	0	1
20	5	0	5
24	1	0	1
3	2	0	2
30	5	0	5
4	5	0	5
5	28	0	28
6	2	0	2
Total	540	23	563

### 3.2.9.2.5 Package net weight

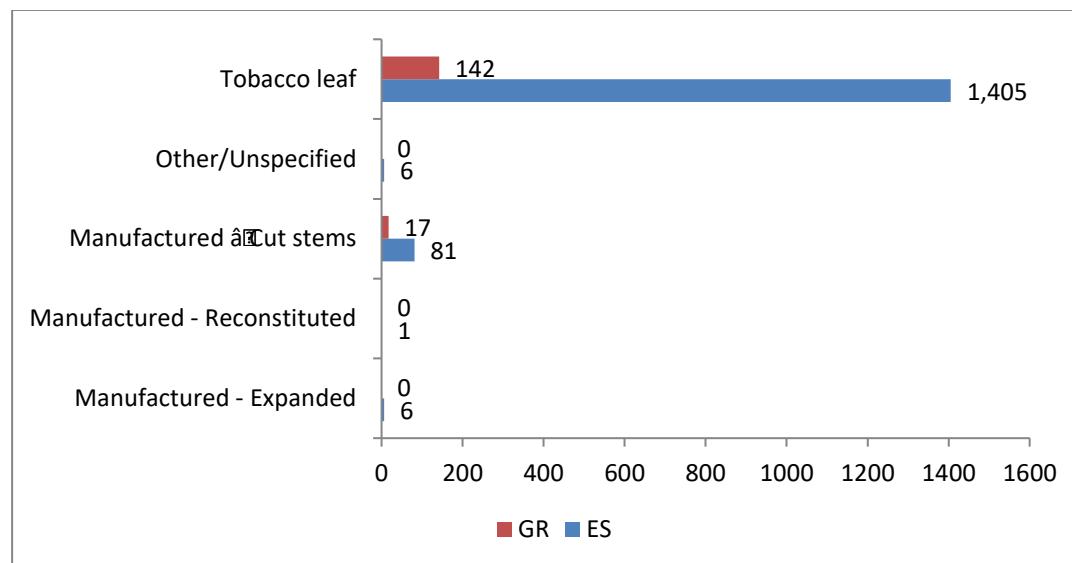
*Net weight of one unit packet in g*

Type	Obs	Mean	[95% Conf.	Interval]
ES	540	23.59	22.52	24.67
GR	23	30.70	30.27	31.12

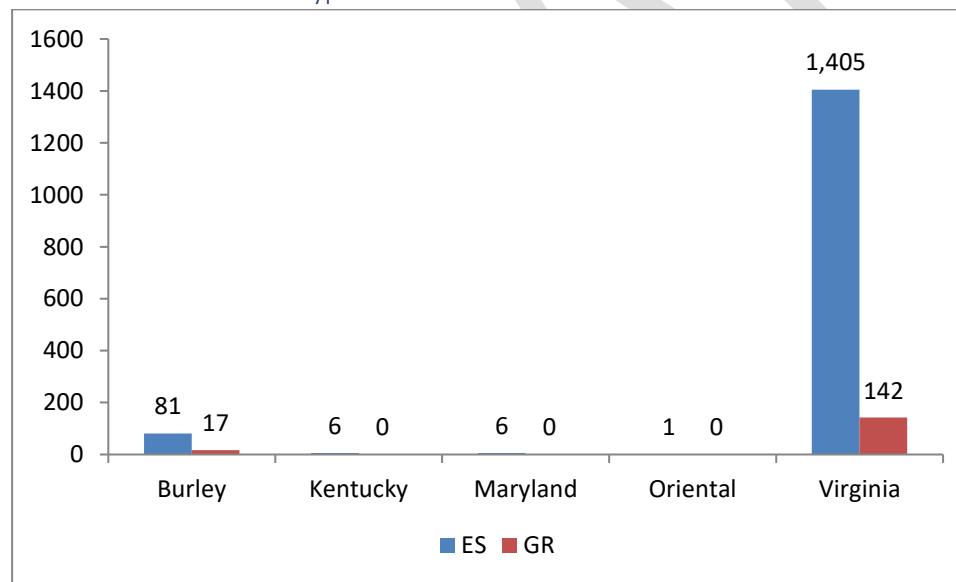
### 3.2.9.3 Tobacco ingredients

There are 1658 observations in the tobacco ingredients data file of pipe tobacco products (1499 and 159)

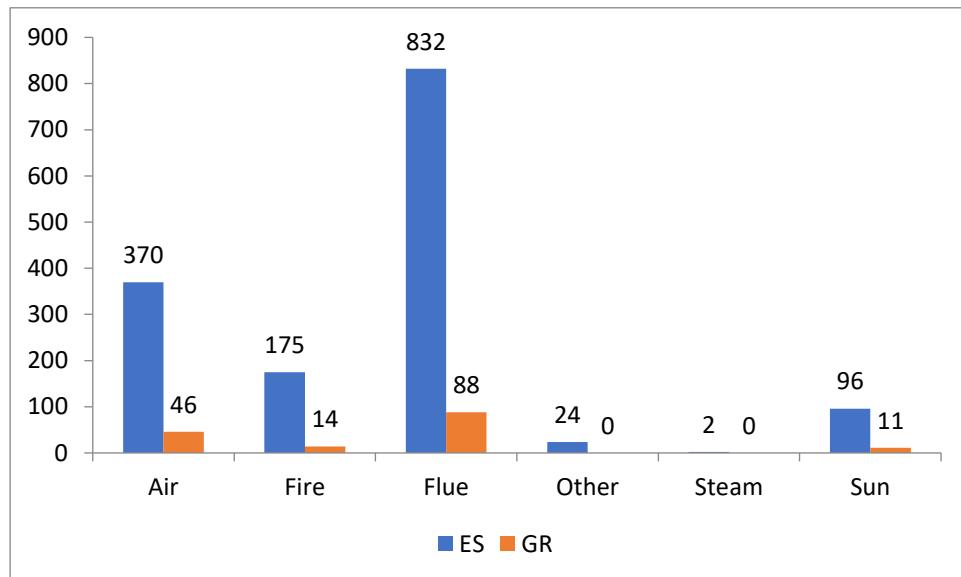
#### 3.2.9.3.1 Tobacco part type



#### 3.2.9.3.2 Tobacco leaf type



### 3.2.9.3.3 Tobacco leaf cure method



### 3.2.9.3.4 Tobacco quantity

Type	Obs	Mean	[95% Conf.	Interval]
ES	1,499	2,265.58	1,787.51	2,743.65
GR	159	111.66	91.56	131.76

### 3.2.9.4 Other ingredients characteristics

#### 3.2.9.4.1 Name or CAS

CAS number	ES	Obs.	%
57-55-6	Propylene glycol	248	1.92
121-33-5	Vanillin	164	1.27
56-81-5	Glycerol	151	1.17
64-17-5	Ethanol	151	1.17
65-85-0	Benzoic acid	148	1.15
8013-17-0	Invert sugar	147	1.14
120-57-0	Piperonal	141	1.09
100-51-6	Benzyl alcohol	131	1.02
532-32-1	Sodium benzoate	131	1.02
121-32-4	Ethyl vanillin	127	0.99
80-71-7	Methyl Cycloentane-1,2-Dione, [3-]	125	0.97
100-52-7	Benzaldehyde	122	0.95
68916-91-6	Licorice extract, powder	119	0.92
7732-18-5	Water	118	0.92
64-19-7	Acetic acid	113	0.88

	GR		
CAS number	Ingredients' name	Obs.	%
68916-91-6	Licorice extract, powder	27	1.39
120-57-0	Piperonal	23	1.19
121-33-5	Vanillin	23	1.19
57-55-6	Propylene glycol	23	1.19
8013-17-0	Invert sugar	23	1.19
121-32-4	Ethyl vanillin	22	1.13
80-71-7	Methyl Cycloentane-1,2-Dione, [3-]	22	1.13
100-51-6	Benzyl alcohol	21	1.08
56-81-5	Glycerol	21	1.08
64-17-5	Ethanol	21	1.08
90604-30-1	Rum extract	21	1.08
104-50-7	Octalactone (gamma-)	20	1.03
65-85-0	Benzoic acid	20	1.03
8002-31-1	Cocoa powder	19	0.98
118-71-8	Maltol	18	0.93

### 3.2.9.4.2 Function

	ES		GR		Total
	Obs	%	Obs	%	
Addictive Enhancer	2	0.02	0	0.00	2
Binder	21	0.16	0	0.00	21
Carrier	8	0.06	0	0.00	8
Casing	213	1.65	74	3.81	287
Colour	2	0.02	1	0.05	3
Combustion Modifier	30	0.23	0	0.00	30
Filler	1	0.01	0	0.00	1
Flavour and/or Tast..	11,417	88.58	1,735	89.43	13,152
Humectant	383	2.97	44	2.27	427
Plasticiser	3	0.02	0	0.00	3
Preservative	540	4.19	82	4.23	622
Solvent - Processin..	266	2.06	4	0.21	270
Water-Wetting Agents	1	0.01	0	0.00	1
pH Modifier	2	0.02	0	0.00	2
Total	12,889	100.00	1,940	100.00	14,829

### 3.2.9.4.3 Quantity fluctuate

No fluctuations in quantity

### 3.2.9.5 Toxicological data

#### 3.2.9.5.1 Tox data available

ToxData	false		true		Total	
	Observations	%	Observations	%	Observations	%
ES	12,701	98.54	188	1.46	12,889	100
GR	1,940	100	0	0	1,940	100
Total	14,641	98.73	188	1.27	14,829	100

#### 3.2.9.5.2 Existence of studies indicating the chemistry and/or toxicity (tox CMR)

ToxCMR	false		true		Total	
	Observations	%	Observations	%	Observations	%
ES	12,667	98.28	222	1.72	12,889	100
GR	1,936	99.79	4	0.21	1,940	100
Total	14,603	98.48	226	1.52	14,829	100

#### 3.2.9.5.3 Existence of studies indicating the chemistry and/or toxicity (tox cardio)

Tox Cardio	false		true		Total	
	Observations	%	Observations	%	Observations	%
ES	12,744	98.88	145	1.12	12,889	100
GR	1,939	99.95	1	0.05	1,940	100
Total	14,683	99.02	146	0.98	14,829	100

#### 3.2.9.5.4 Existence of studies indicating the chemistry and/or toxicity (tox addictive)

Tox addictive	false		true		Total	
	Observations	%	Observations	%	Observations	%
ES	12,666	98.27	223	1.73	12,889	100
GR	1,917	98.81	23	1.19	1,940	100
Total	14,583	98.34	246	1.66	14,829	100

#### 3.2.9.5.5 Existence of studies indicating the chemistry and/or toxicity (tox other)

Tox other	false		true		Total	
	Observations	%	Observations	%	Observations	%
ES	11,642	90.33	1,247	9.67	12,889	100
GR	1,903	98.09	37	1.91	1,940	100
Total	13,545	91.34	1,284	8.66	14,829	100

### 3.2.9.6 TNCO and other emissions

There are 275 observations but no information on emissions

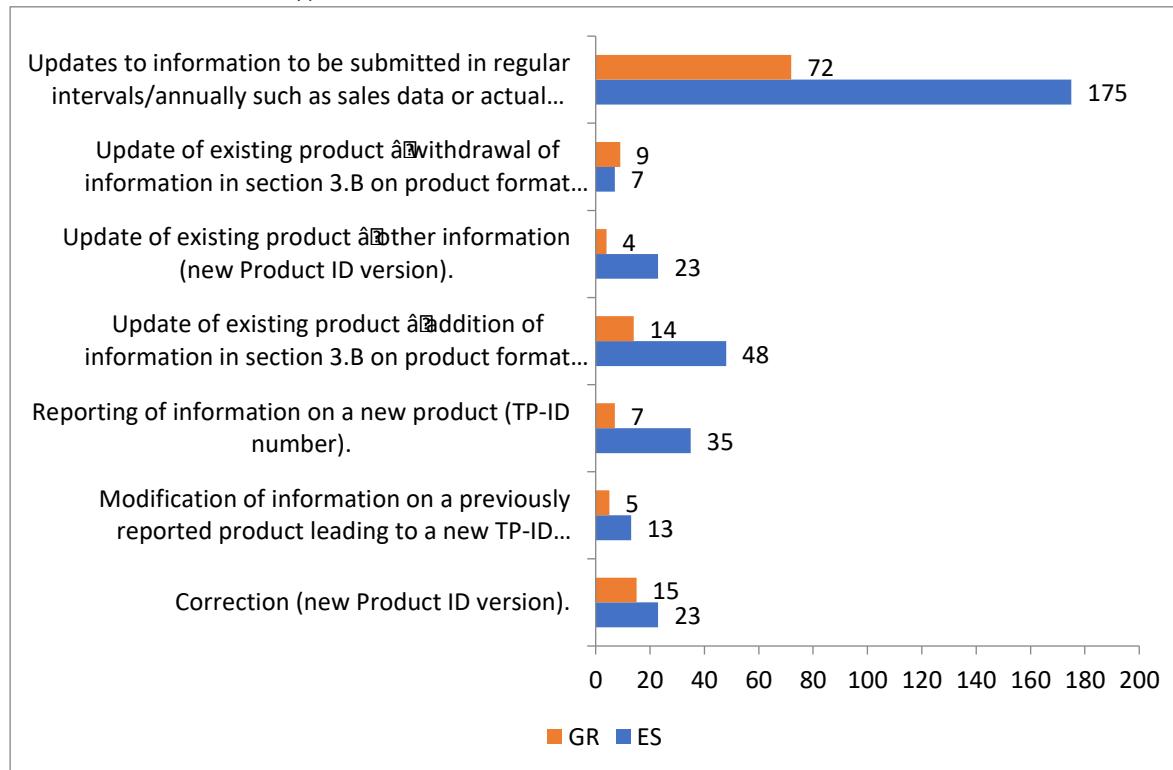
### 3.2.10 Roll your own (RYO)

#### 3.2.10.1 Product details

##### 3.2.10.1.1 Products ID

There are 450 observations with different TP-ID on the product data file of RYO (324 of Spain and 126 of Greece)

##### 3.2.10.1.2 Submission type



There are 35 and 7 different product IDs that are classified as NEW PRODUCT in Spain and Greece, respectively.

##### 3.2.10.1.3 Product manufacturer identification

For all the products the submitter is the manufacturer

##### 3.2.10.1.4 Product weight

Product weight (mg)	ES	GR	Total
0	15	0	15.00
1	9	1	10.00
750	10	0	10
1000	289	125	414
30000	1	0	1
Total	324	126	450

Type	Obs	Mean	[95% Conf.	Interval]
ES	324	1007.74	828.82	1186.66
GR	126	992.07	976.38	1007.76

If this is a NEW PRODUCT: Submission type==” Reporting of information on a new product (TP-ID number).”

Type	Obs	Mean	[95% Conf.	Interval]
ES	35	1828.57	144.71	3512.43
GR	7	857.29	508.08	1206.50

### 3.2.10.1.5 Product tobacco weight

Type	Obs	Mean	[95% Conf.	Interval]
ES	324	937.97	758.01	1117.93
GR	126	927.34	903.29	951.39

If this is a NEW PRODUCT: Submission type==” Reporting of information on a new product (TP-ID number).”

Type	Obs	Mean	[95% Conf.	Interval]
ES	35	1700.99	5.91	3396.08
GR	7	745.56	422.55	1068.57

### 3.2.10.1.6 Percentage tobacco weight to all weight

The percentage of the mean tobacco weight out of the mean of all product weight is 93% for both Spain and Greece

After stratification by NEW PRODUCT, the percentage of the mean tobacco weight out of the mean of all product weight is 93% and 87% for Spain and Greece, respectively.

### 3.2.10.1.7 Roll-your-own\_pipe nicotine content

*Total nicotine content of the loose product per product unit*

Type	Obs	Mean	[95% Conf.	Interval]
ES	324	42.25	40.04	44.46
GR	126	46.52	43.18	49.85

If this is a NEW PRODUCT: Submission type==” Reporting of information on a new product (TP-ID number).”, the mean RYOPipe nicotine content is still similar between Spain and Greece

Type	Obs	Mean	[95% Conf.	Interval]
ES	35	41.91	36.17	47.66
GR	7	45.71	20.35	71.08

### 3.2.10.2 Presentation details

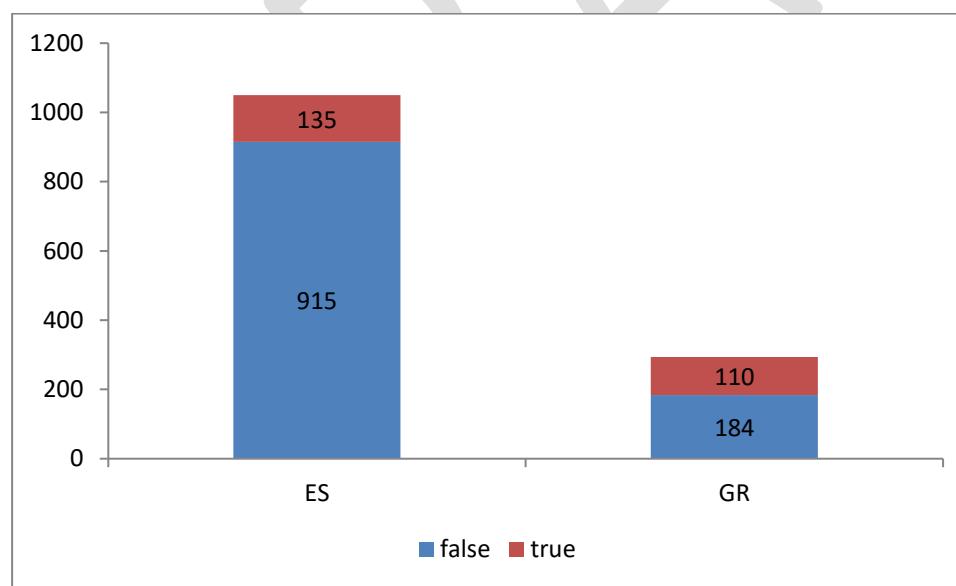
#### 3.2.10.2.1 Brand names

In Spain and Greece, 15 most frequent brand names are:

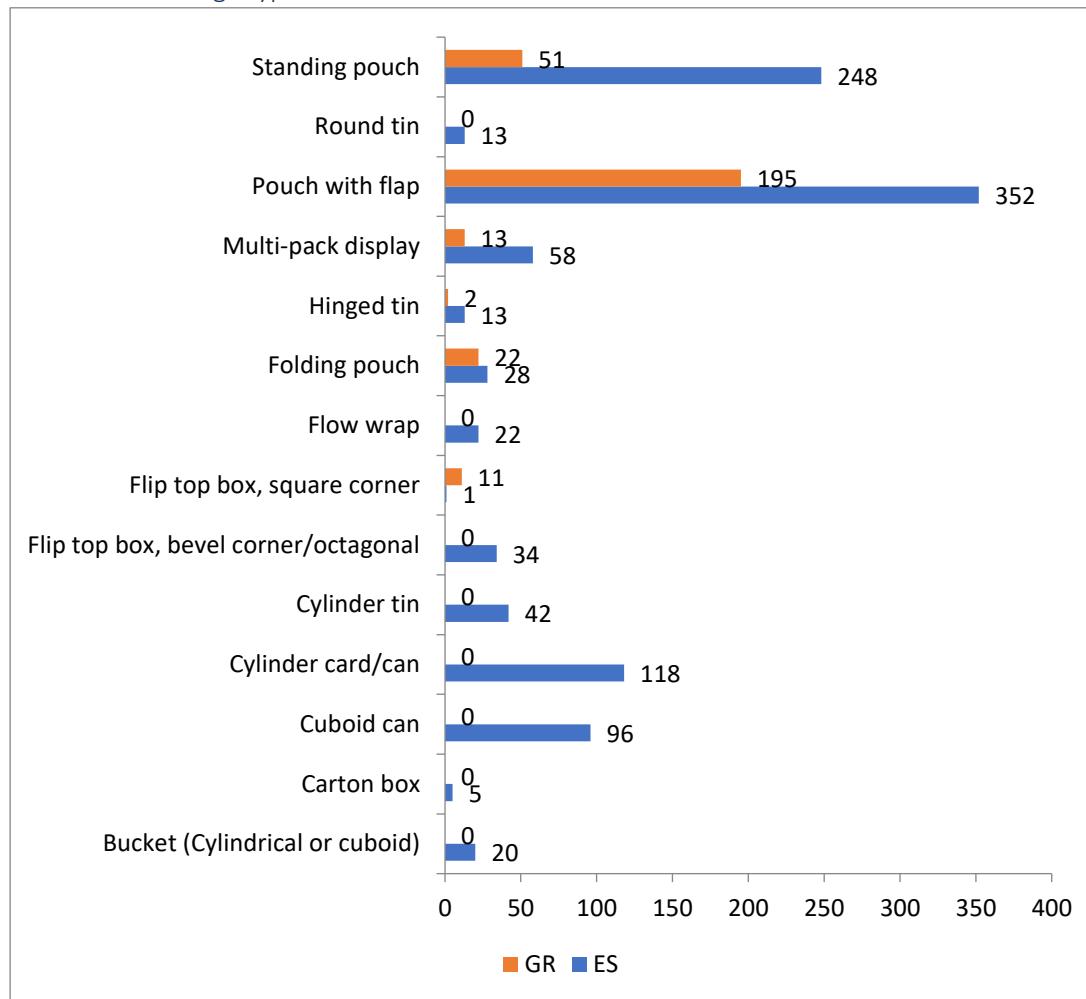
ES Brandnames	N observations	GR Brandnames	N observations
A	141	P	32
B	64	Q	27
C	48	R	27
D	38	J	21
E	38	S	15
F	35	T	14
G	21	U	13
H	20	C	12
I	16	V	9
J	15	X	9
K	13	Y	8
L	12	Z	8
M	12	E	7
N	12	L	6
O	12	AA	6

And they share 4 brandnames highlighted in yellow

#### 3.2.10.2.2 Withdrawal indications



## 3.2.10.2.3 Package type



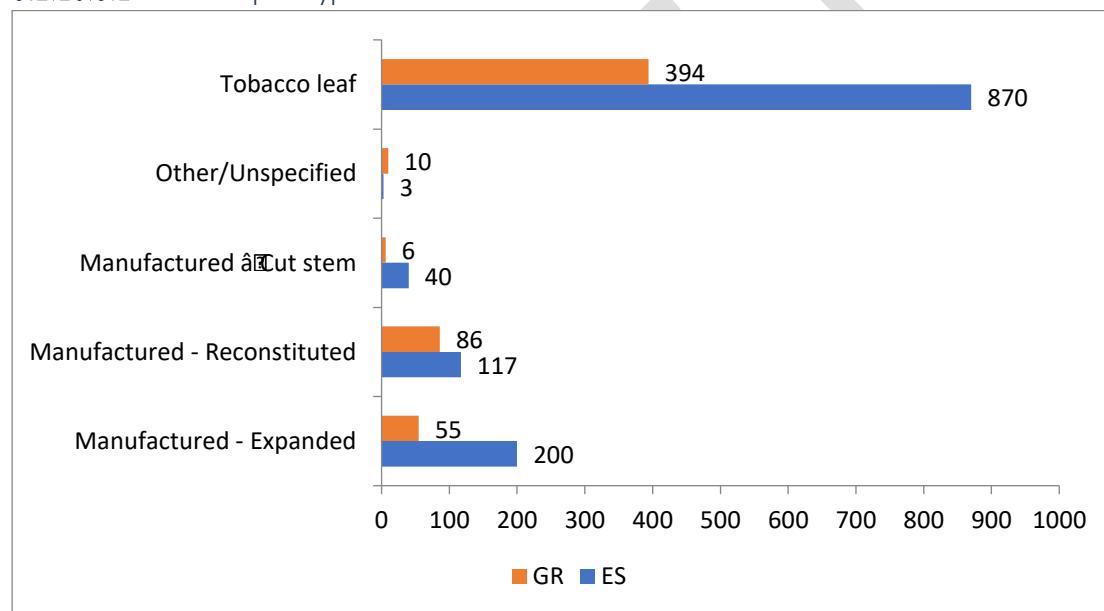
## 3.2.10.2.4 Package units by package type

	ES			
Package units	Unknown	0	1	Total
Bucket (Cylindrical)	7	13	0	20
Carton box	0	5	0	5
Cuboid can	41	55	0	96
Cylinder card/can	34	76	8	118
Cylinder tin	1	41	0	42
Flip top box, beveled box	0	34	0	34
Flip top box, squared box	0	1	0	1
Flow wrap	0	0	22	22
Folding pouch	13	15	0	28
Hinged tin	13	0	0	13
Multi-pack display	0	58	0	58
Pouch with flap	149	200	3	352
Round tin	13	0	0	13
Standing pouch	15	233	0	248
Total	286	731	33	1,050

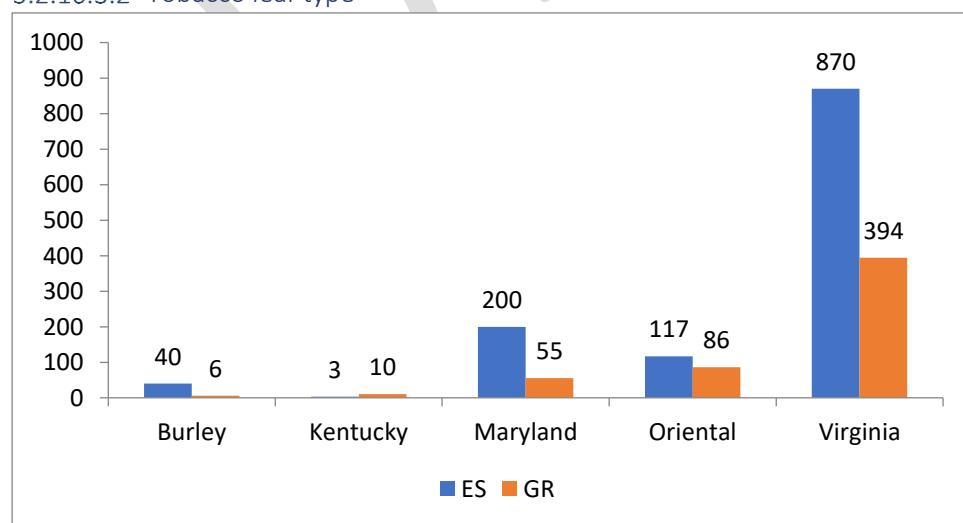
	GR		
Package units	Unknown	0	Total
Package type			
Flip top box, squared box	11	0	11
Folding pouch	22	0	22
Hinged tin	2	0	2
Multi-pack display	0	13	13
Pouch with flap	42	153	195
Standing pouch	0	51	51
Total	77	217	294

### 3.2.10.3 Tobacco ingredients

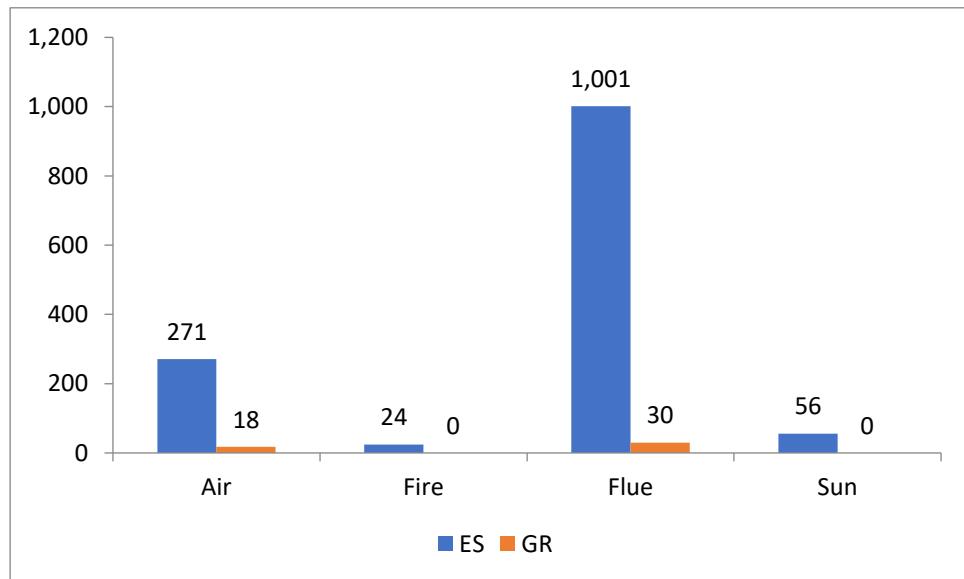
#### 3.2.10.3.1 Tobacco part type



#### 3.2.10.3.2 Tobacco leaf type



### 3.2.10.3.3 Tobacco leaf cure method



### 3.2.10.3.4 Tobacco quantity

*Weight per product unit in mg*

Type	Obs	Mean	[95% Conf.]	Interval]
ES	1,230	271.08	243.30	298.87
GR	551	204.91	187.21	222.60

### 3.2.10.4 Other ingredients characteristics

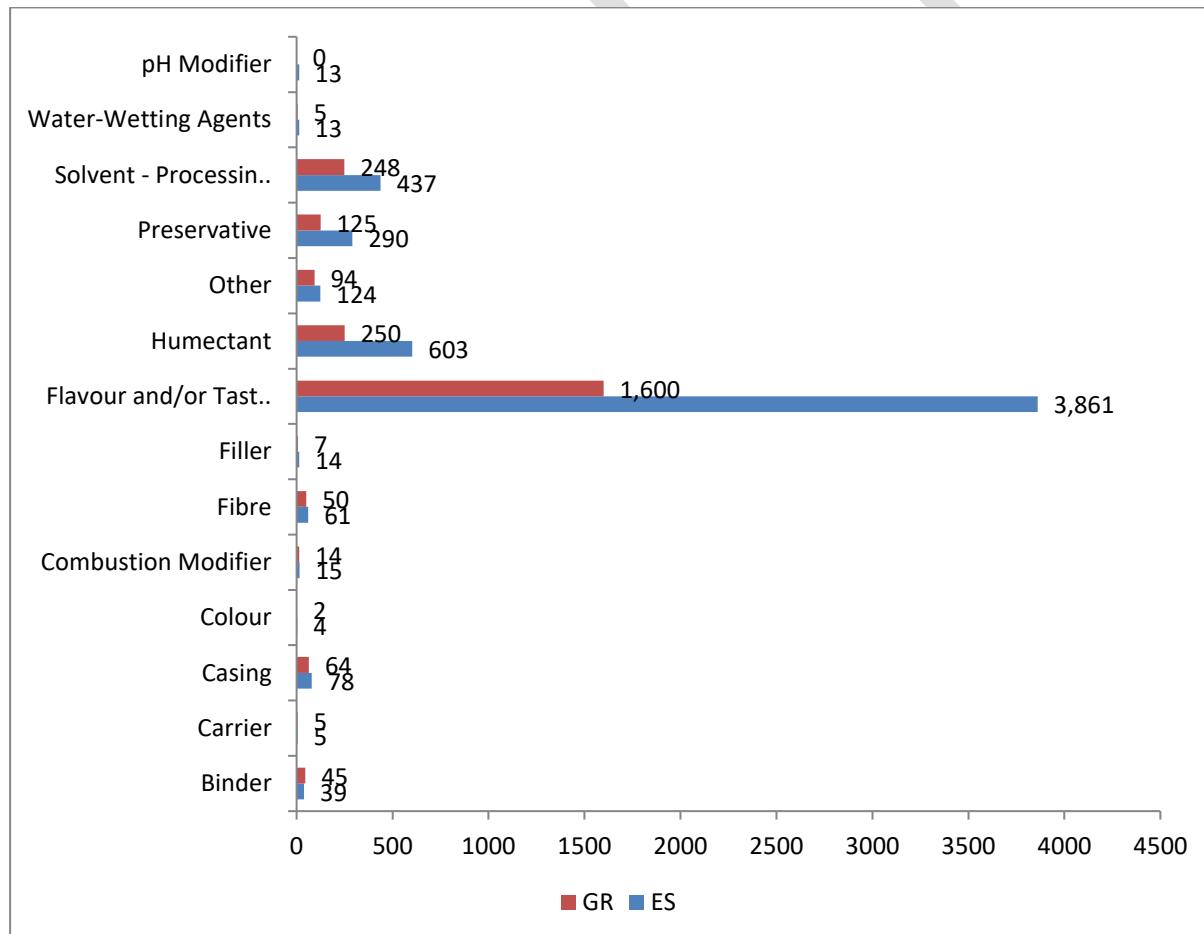
#### 3.2.10.4.1 Name or CAS

15 most frequent ingredients

CAS number	ES	Observations
7732-18-5	Water	376
57-55-6	Propylene glycol	337
532-32-1	Sodium benzoate	200
56-81-5	Glycerol	194
121-33-5	Vanillin	167
8013-17-0	Invert sugar	138
64-17-5	Ethanol	105
65996-61-4	Cellulose fibre	96
-	Unknown	85
64-19-7	Acetic acid	77
68915-86-6	Raisin extract	70
100-52-7	Benzaldehyde	67
120-57-0	Piperonal	65
118-71-8	Maltol	62
84649-99-0	cocoa and cocoa products	62
8028-89-5	Caramel and/or Caramel Color	59

CAS number	GR	Observations
57-55-6	Propylene glycol	169
7732-18-5	Water	165
56-81-5	Glycerol	105
532-32-1	Sodium benzoate	93
8013-17-0	Invert sugar	85
65996-61-4	Cellulose fibre	84
-	Unknown	77
68915-86-6	Raisin extract	74
121-33-5	Vanillin	50
64-17-5	Ethanol	47
64-19-7	Acetic acid	47
90028-74-3	Fig extract	38
5996-10-1	Glucose	35
8002-31-1	Cocoa extract (alt CAS No.)	35
100-51-6	Benzyl alcohol	31
84649-99-0	cocoa and cocoa products	31

### 3.2.10.4.2 Function



### 3.2.10.4.3 Quantity fluctuate

No fluctuation

### 3.2.10.5 Toxicological data

#### 3.2.10.5.1 Tox data available

ToxData	false		true		Total	
	Observations	%	Observations	%	Observations	%
ES	3,694	66	1,863	33.53	5,557	100
GR	1,451	58	1,058	42.17	2,509	100
Total	5,145	64	2,921	36.21	8,066	100

#### 3.2.10.5.2 Existence of studies indicating the chemistry and/or toxicity (tox CMR)

ToxCMR	false		true		Total	
	Observations	%	Observations	%	Observations	%
ES	3,434	61.8	2,123	38.2	5,557	100
GR	1,327	52.9	1,182	47.1	2,509	100
Total	4,761	59.0	3,305	41.0	8,066	100

#### 3.2.10.5.3 Existence of studies indicating the chemistry and/or toxicity (tox cardio)

Tox cardio	false		true		Total	
	Observations	%	Observations	%	Observations	%
ES	4,288	77.2	1,269	22.8	5,557	100
GR	1,748	69.7	761	30.3	2,509	100
Total	6,036	74.8	2,030	25.2	8,066	100

#### 3.2.10.5.4 Existence of studies indicating the chemistry and/or toxicity (tox addictive)

Tox addictive	false		true		Total	
	Observations	%	Observations	%	Observations	%
ES	5,418	97.5	139	2.5	5,557	100
GR	2,428	96.77	81	3.23	2,509	100
Total	7,846	97.27	220	2.73	8,066	100

#### 3.2.10.5.5 Existence of studies indicating the chemistry and/or toxicity (tox other)

ToxOther	false		true		Total	
	Observations	%	Observations	%	Observations	%
ES	1,554	28.0	4,003	72.0	5,557	100
GR	515	20.5	1,994	79.5	2,509	100
Total	2,069	25.7	5,997	74.3	8,066	100

### 3.2.10.6 TNCO and other emissions

This variable is inconsistently informed

#### 3.2.10.6.1 Tar

TAR	ES	GR	Total
-	162	59	221
-1	15	0	15
0	147	65	212
1	0	1	1
12	0	1	1
Total	324	126	450

#### 3.2.10.6.2 Nicotine

Nicotine	ES	GR	Total
-	162	59	221
-1	15	0	15
0.9	0	1	1
0	147	65	212
1	0	1	1
Total	324	126	450

#### 3.2.10.6.3 CO

CO	ES	GR	Total
-	162	59	221
-1	15	0	15
0	147	66	213
1	0	1	1
Total	324	126	450

#### 3.2.10.6.4 TNCO lab

There is a list of labs not available for publication

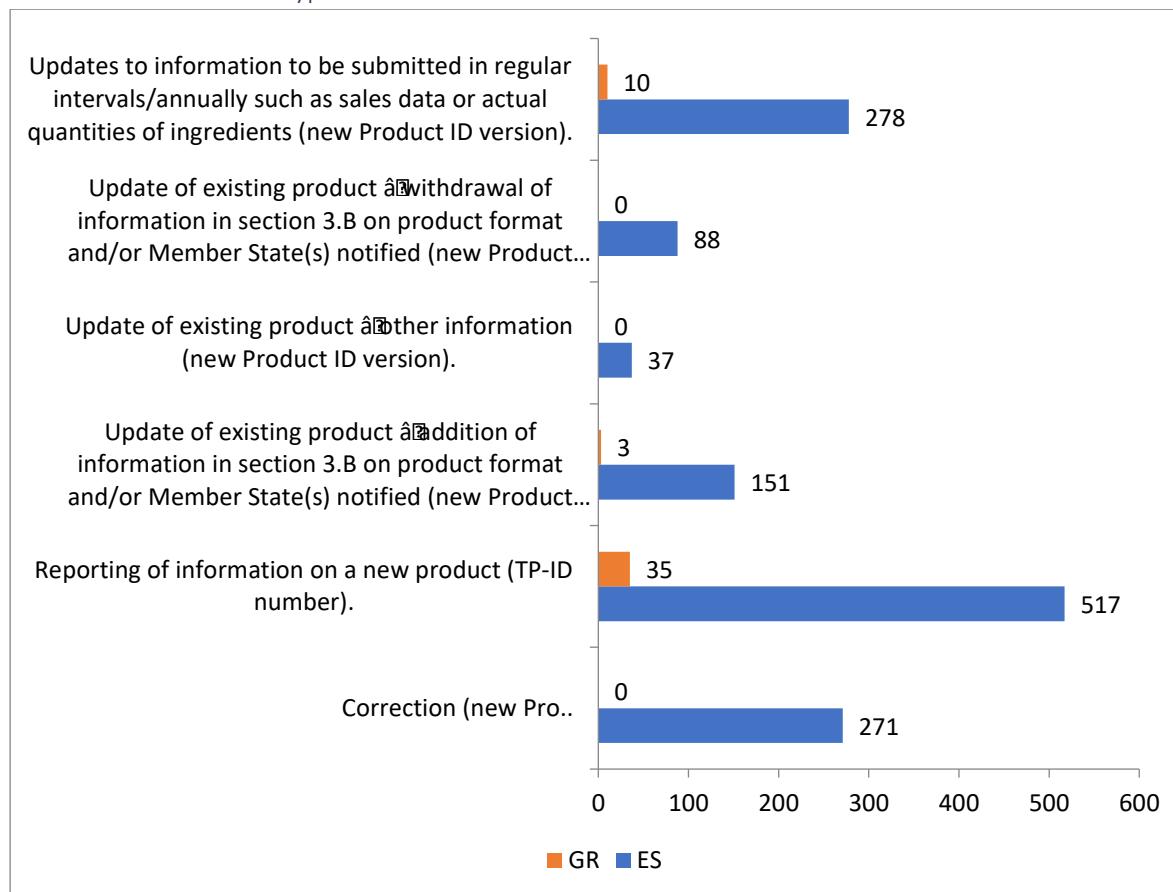
### 3.2.11 Waterpipe

#### 3.2.11.1 Product details

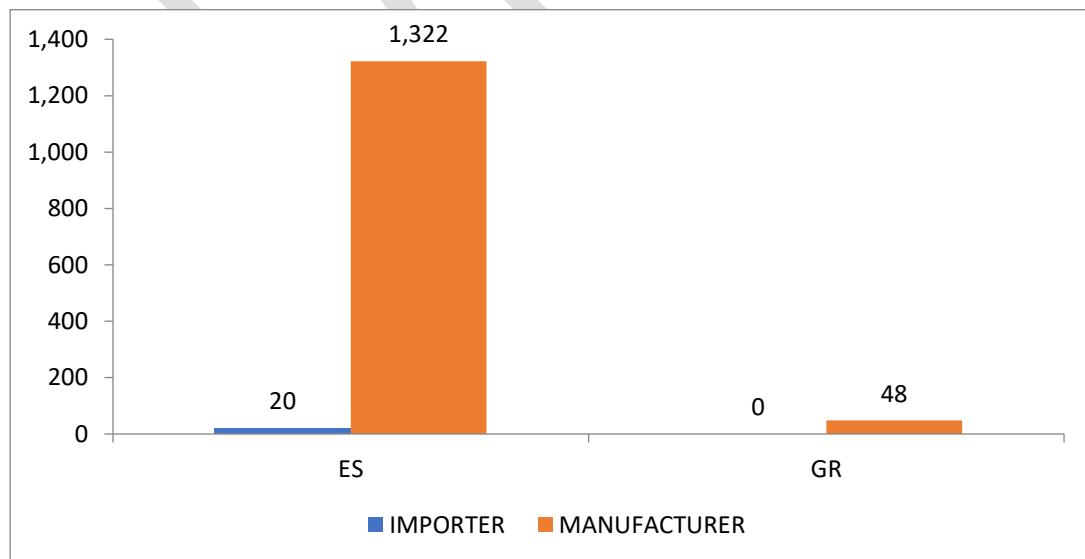
##### 3.2.11.1.1 Products

There are 1390 observations in the waterpipe data file (1342 from Spain and 48 from Greece)

##### 3.2.11.1.2 Submission type



##### 3.2.11.1.3 Product manufacturer identification



### 3.2.11.1.4 Product length

This information is empty in all Greek products

Type	Obs	Mean	[95% Conf.	Interval]
ES	1,342	1.55	1.47	1.62
GR	48	0.00	0.00	0.00

### 3.2.11.1.5 Product diameter

This information is empty in all Greek products and in 81% of the Spanish products

Type	Obs	Mean	[95% Conf.	Interval]
ES	1,342	1.19	1.16	1.21
GR	48	0.00	0.00	0.00

### 3.2.11.1.6 Product weight (mg per product unit)

	ES	GR	Total
0	1	0	1.00
9	1	0	1.00
50	111	20	131
100	16	2	18
109	29	0	29
160	1	0	1
1000	329	10	339
1033	8	0	8
7692	23	0	23
10000	5	0	5
20000	10	0	10
50000	383	0	383
63000	22	0	22
76920	1	0	1
80000	32	13	45
100000	109	3	112
107000	13	0	13
109000	5	0	5
200000	51	0	51
250000	58	0	58
1000000	129	0	129
1033000	5	0	5
Total	1,342	48	1,390

### 3.2.11.1.7 Mean product weight (mg)

	Obs	mean		95% CI
ES	1,342	145788.8	130172.7	161404.9
GR	48	28150	16537.23	39762.77

### 3.2.11.1.8 Product tobacco weight (mg)

	ES	GR	Total
1 to 100	179	38	217
101 to 500	327	10	337
501 to 1000	51	0	51
1001 to 5000	10	0	10
5001 to 10000	352	0	352
10001 to 100000	286	0	286
100001 to 1000000	137	0	137
Total	1,342	48	1,390

### 3.2.11.1.9 Mean product tobacco weight (mg)

	Obs	mean		95% CI
ES	1,342	32174.75	27953.07	36396.43
GR	48	81.22083	70.52743	91.91424

### 3.2.11.1.10 % of mean product tobacco weight over mean product weight

The % of mean tobacco weight over all weight of the product is 22% and 0.3% in ES and GR, respectively.

## 3.2.11.2 Presentation details

### 3.2.11.2.1 Brand names

All brand names listed by frequency are:

Brand names in Spain	Observations	All Brand names in Greece	Observations
A	171	C	56
B	159	O	20
C	127	U	1
D	120	V	1
E	115	W	1
F	105	X	1
G	96	Y	1
H	73	Z	1
I	65	AA	1
J	54	BB	1
K	48	CC	1
L	47	DD	1
M	30		
N	24		
O	20		
P	15		
Q	15		
R	12		

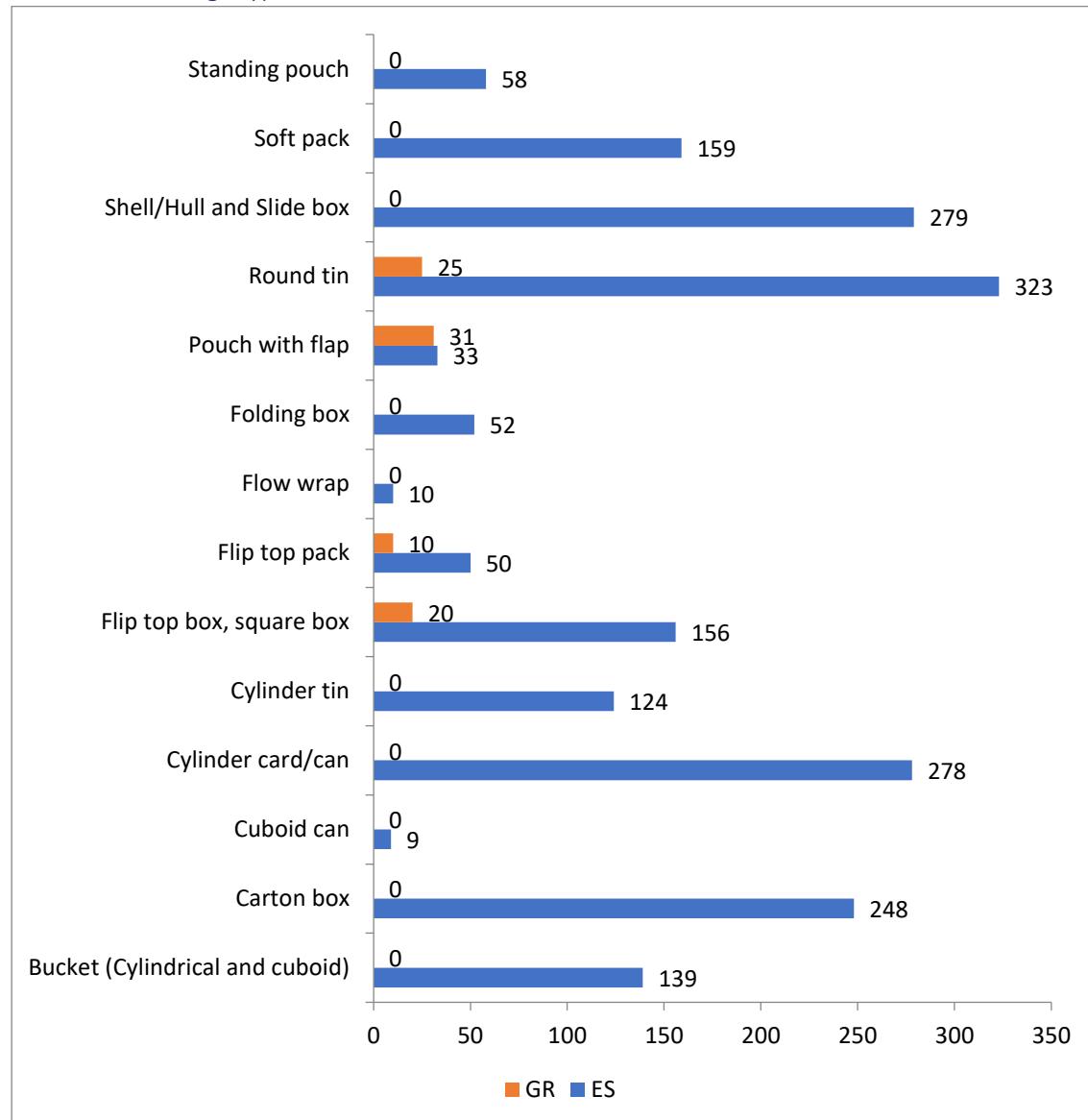
S	11		
T	11		

Highlighted in yellow are the pseudo-brandnames shared between ES and GR.

### 3.2.11.2.2 Withdrawal indications

There are 18 observations with withdrawal indications in the Spanish data set and none in the Greek data set.

### 3.2.11.2.3 Package type



### 3.2.11.2.4 Package units

	ES	GR	Total
-	990	86	1,076
0	49	0	49
1	615	0	615
10	16	0	16
1000	24	0	24
18	23	0	23

2	11	0	11
20	90	0	90
200	24	0	24
4	52	0	52
50	24	0	24
Total	1,918	86	2,004

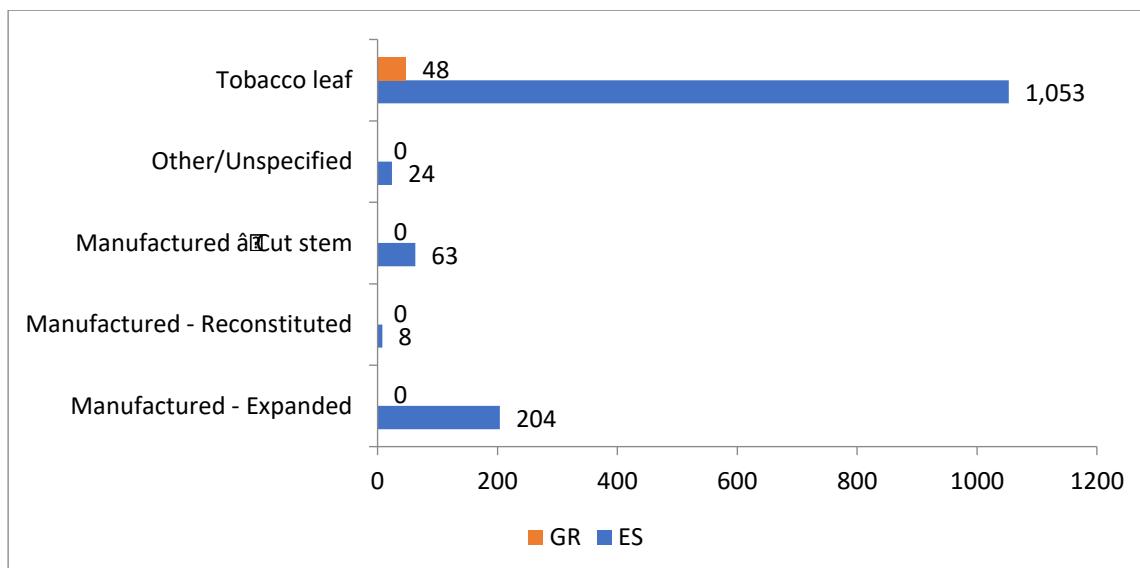
### 3.2.11.2.5 Package net weight

	ES	GR	Total
6	46	0	46
9	34	0	34
10	32	0	32
13	22	0	22
20	12	0	12
25	5	0	5
33	14	0	14
40	93	0	93
45	2	0	2
50	814	30	844
60	12	0	12
80	31	14	45
100	190	6	196
117	1	0	1
180	9	0	9
200	243	16	259
250	142	3	145
500	3	3	6
750	5	0	5
1000	207	14	221
80000	1	0	1
Total	1,918	86	2,004

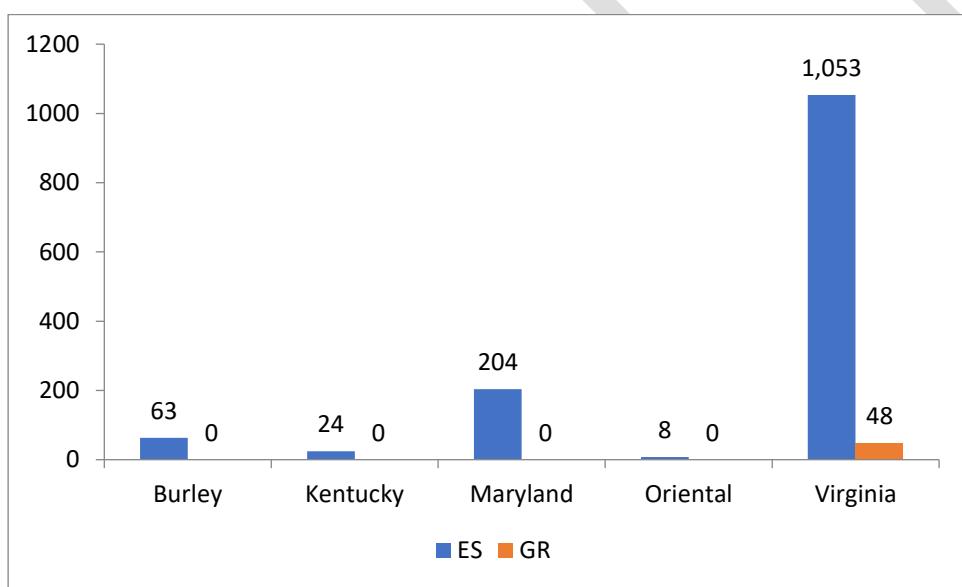
### 3.2.11.3 Tobacco ingredients

There are 1400 observations in the tobacco ingredients data file (1352 from Spain and 48 from Greece).

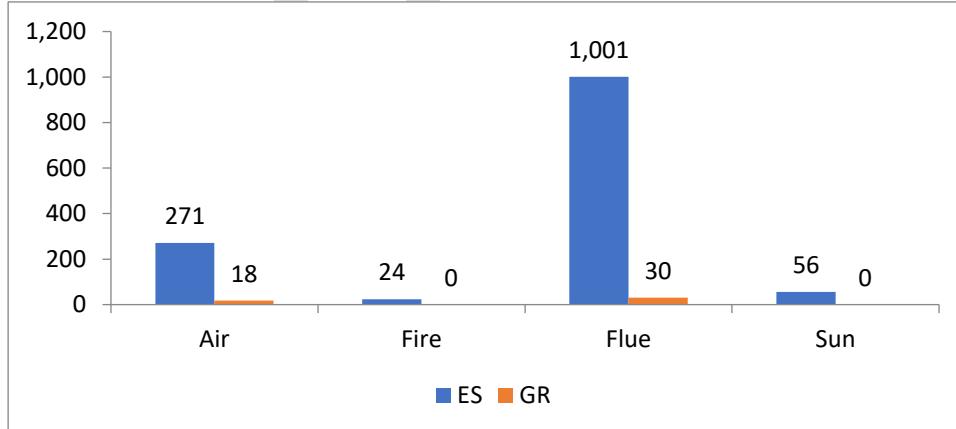
#### 3.2.11.3.1 Tobacco part type



### 3.2.11.3.2 Tobacco leaf type



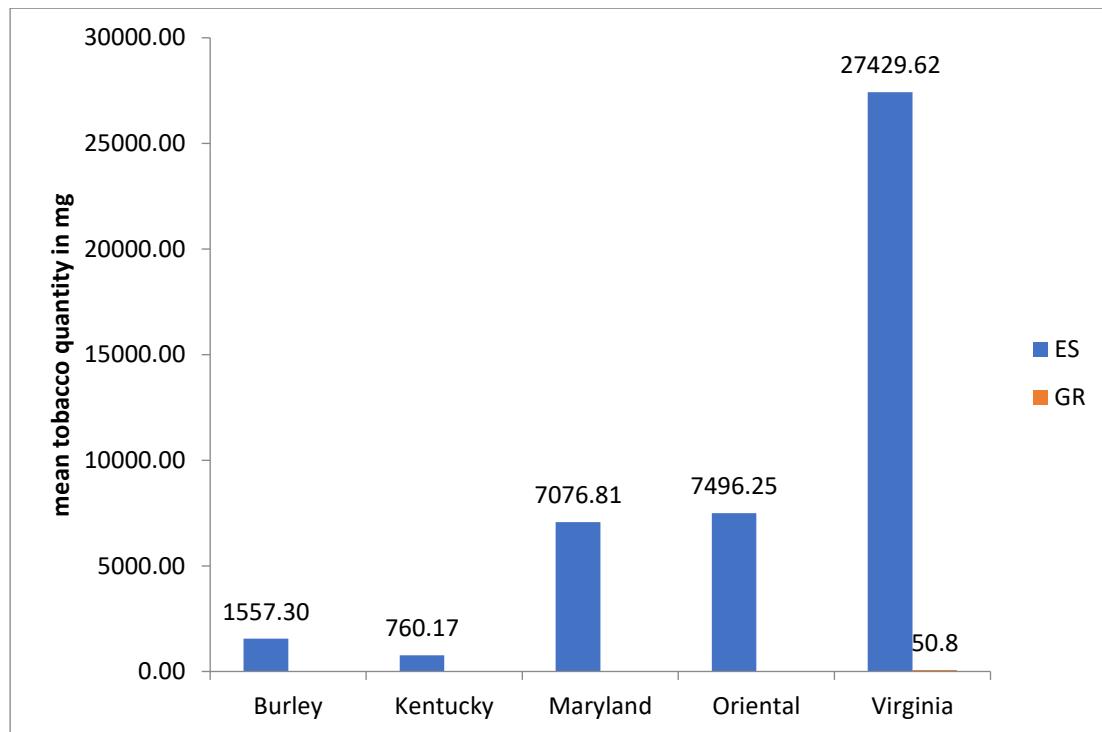
### 3.2.11.3.3 Tobacco leaf cure method



### 3.2.11.3.4 Tobacco quantity (mg)

Type	Obs	Mean (mg)	[95% Conf.	Interval]
ES	1,352	22561.68	19931.53	25191.83
GR	48	50.80	36.44	65.17

The mean tobacco quantity by leaf type and country in mg is:



### 3.2.11.4 Other ingredients characteristics

There are 16240 observations on ingredients in the waterpipe data set (15649 from Spain and 591 from Greece)

#### 3.2.11.4.1 Name or CAS

The 15 most frequent ingredients in Spain

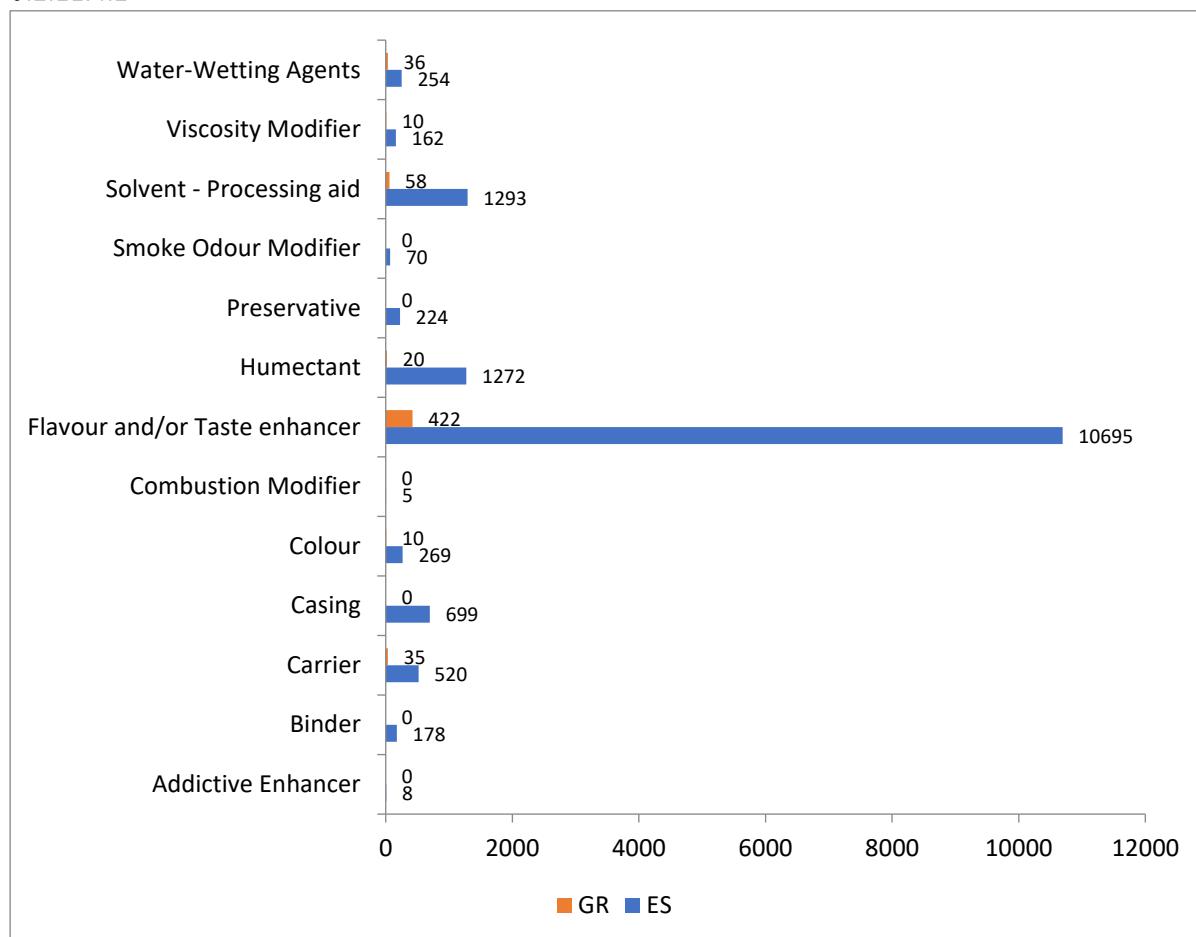
	ES		
CAS number	Ingredients' name	Obs	%
56-81-5	Glycerol	1,387	8.86
-	Unknown	832	5.32
57-55-6	Propylene glycol	769	4.91
7732-18-5	Water	459	2.93
121-33-5	Vanillin	338	2.16
64-17-5	Ethanol	313	2
8029-43-4	Corn Syrup	288	1.84
77-92-9	Citric acid	279	1.78
100-51-6	Benzyl alcohol	258	1.65

57-50-1	Natural sugar	257	1.64
50-99-7	Glucose	243	1.55
71-55-6	Sweet liquid	212	1.35
105-54-4	Ethyl butyrate	205	1.31
2611-82-7	324-102 PONCEAU A 80%	191	1.22
8028-66-8	Honey	171	1.09
977042-84-4	High Fructose Corn Syrup	171	1.09

CAS number	GR Ingredients' name	Obs	%
-	Unknown	60	10.15
56-81-5	Glycerol	48	8.12
57-55-6	Propylene glycol	33	5.58
7732-18-5	Water	26	4.4
57-50-1	Natural sugar	18	3.05
64-17-5	Ethanol	17	2.88
121-32-4	Ethyl vanillin	11	1.86
112945-52-4	Synthetic Amorphous Silica	10	1.69
121-33-5	Vanillin	10	1.69
25956-17-6	FD&C Red	10	1.69
590-00-1	Potassium Sorbate	10	1.69
8028-89-5	Caramel (E150d)	10	1.69
8029-43-4	Corn Syrup	10	1.69
119-84-6	3,4-Dihydrocoumarin	9	1.52
102-76-1	Triacetin	8	1.35
100-51-6	Benzyl alcohol	7	1.18

Highlighted in yellow are priority additives

### 3.2.11.4.2 Function



### 3.2.11.4.3 Quantity fluctuate

No fluctuation in ingredients quantity among Greek batches and 10 observations with fluctuation in Spanish data set.

### 3.2.11.4.4 Ingredient Recipe quantity (mg per product unit)

*Standard weight of the ingredient included in one product unit in mg according to recipe*

Type	Obs	Mean	[95% Conf.	Interval]
ES	15,649	10201.26	9425.64	10976.89
GR	591	2154.07	1513.30	2794.83

This variable should be calculated by type of ingredient or by function of the ingredient

### 3.2.11.5 Toxicological data

#### 3.2.11.5.1 Tox data available

ToxData	false		true		Total	
	Obs	%	Obs	%	Obs	%
ES	14,423	92.17	1,226	7.83	15,649	100
GR	522	88.32	69	11.68	591	100
Total	14,945	92.03	1,295	7.97	16,240	100

### 3.2.11.5.2 Existence of studies indicating the chemistry and/or toxicity (tox CMR)

ToxCMR	false		true		Total	
	Obs	%	Obs	%	Obs	%
ES	14,423	92.17	1,226	7.83	15,649	100
GR	522	88.32	69	11.68	591	100
Total	14,945	92.03	1,295	7.97	16,240	100

### 3.2.11.5.3 Existence of studies indicating the chemistry and/or toxicity (tox cardio)

ToxCardio	false		true		Total	
	Obs	%	Obs	%	Obs	%
ES	14,423	92.17	1,226	7.83	15,649	100
GR	522	88.32	69	11.68	591	100
Total	14,945	92.03	1,295	7.97	16,240	100

### 3.2.11.5.4 Existence of studies indicating the chemistry and/or toxicity (tox addictive)

ToxAddictive	false		true		Total	
	Obs	%	Obs	%	Obs	%
ES	14,423	92.17	1,226	7.83	15,649	100
GR	522	88.32	69	11.68	591	100
Total	14,945	92.03	1,295	7.97	16,240	100

### 3.2.11.5.5 Existence of studies indicating the chemistry and/or toxicity (tox other)

ToxOther	false		true		Total	
	Obs	%	Obs	%	Obs	%
ES	13,555	86.62	2,094	13.38	15,649	100
GR	522	88.32	69	11.68	591	100
Total	14,077	86.68	2,163	13.32	16,240	100

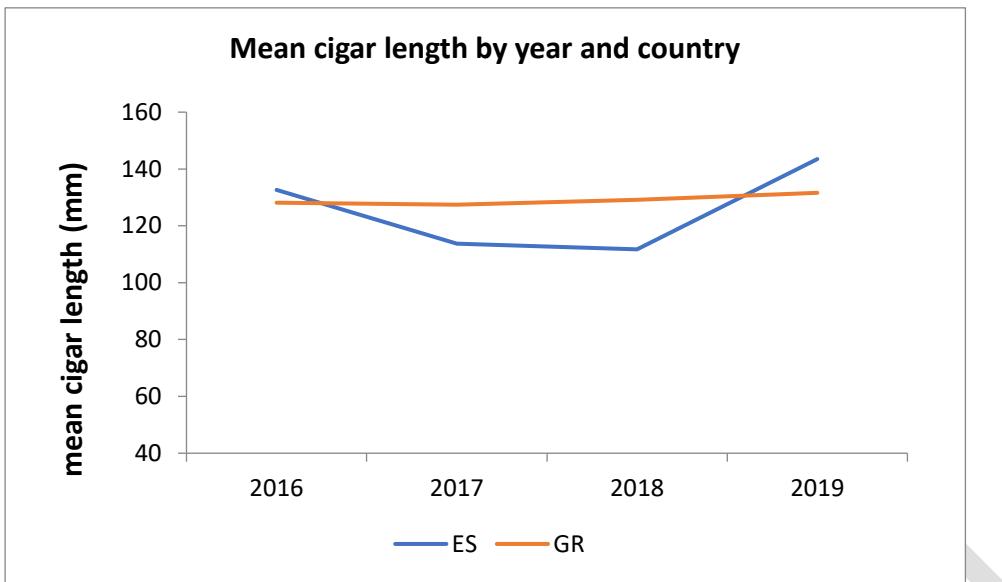
### 3.2.11.6 TNCO and other emissions

No emissions are notified for waterpipe products

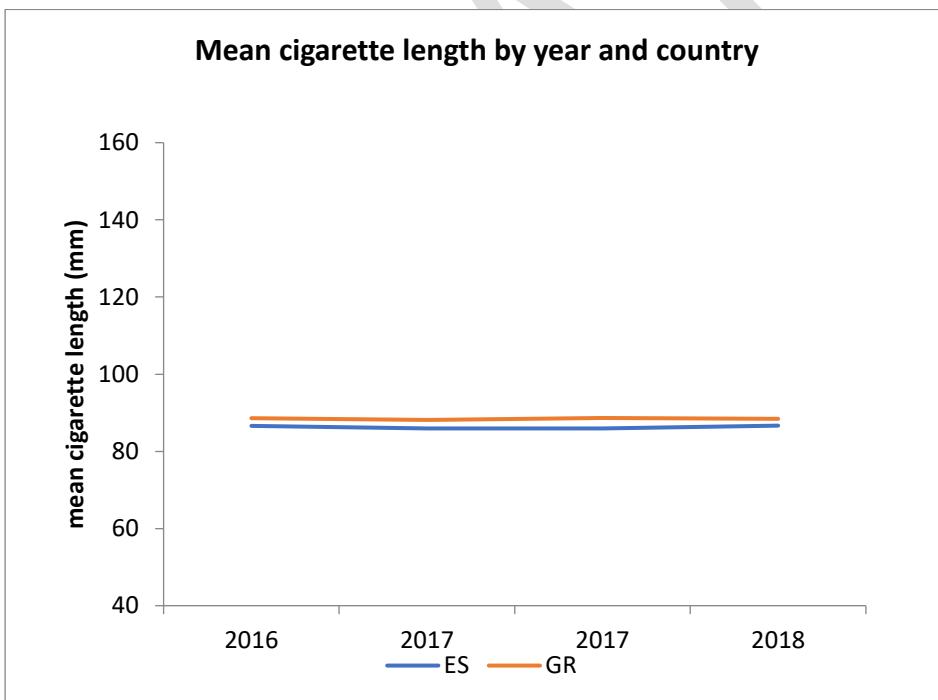
### 3.3 Cross tabs of main variables by year and country

#### 3.3.1 Product length of key products by year and country

##### 3.3.1.1 Cigars

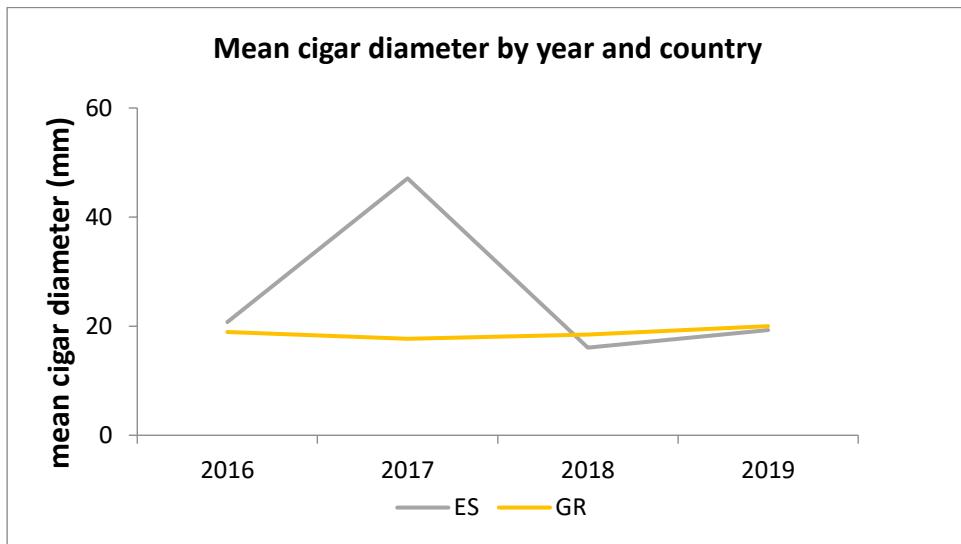


##### 3.3.1.2 Cigarettes

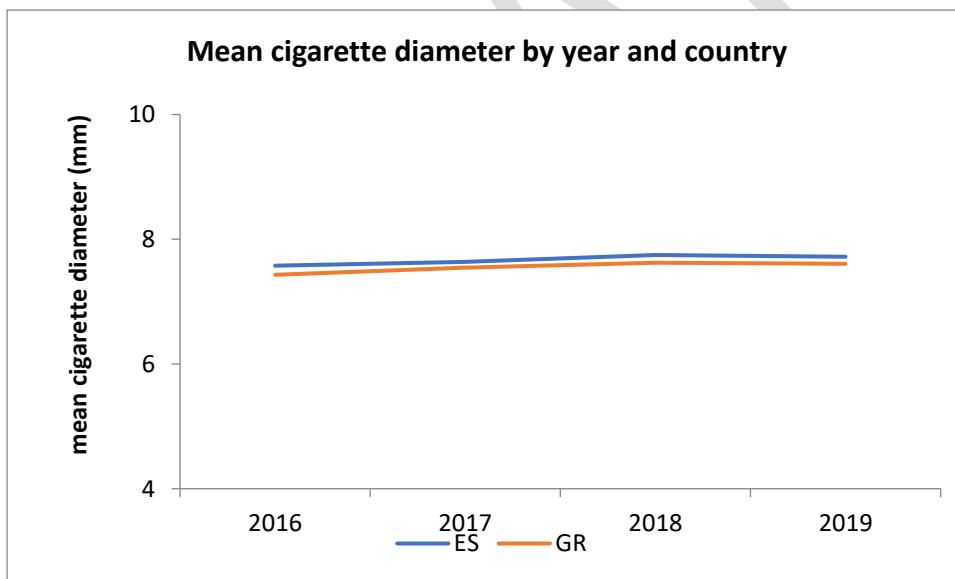


### 3.3.2 Product diameter by year and country

#### 3.3.2.1 Cigars

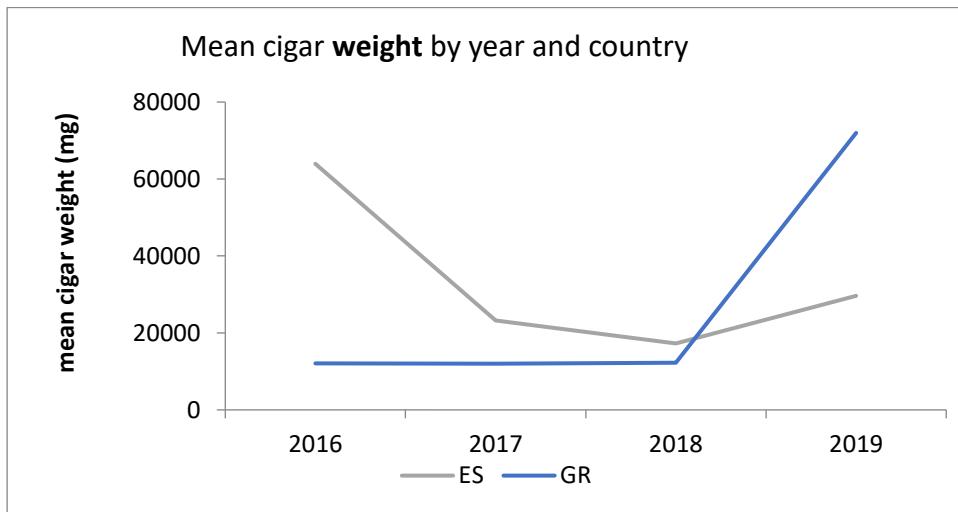


#### 3.3.2.2 Cigarettes

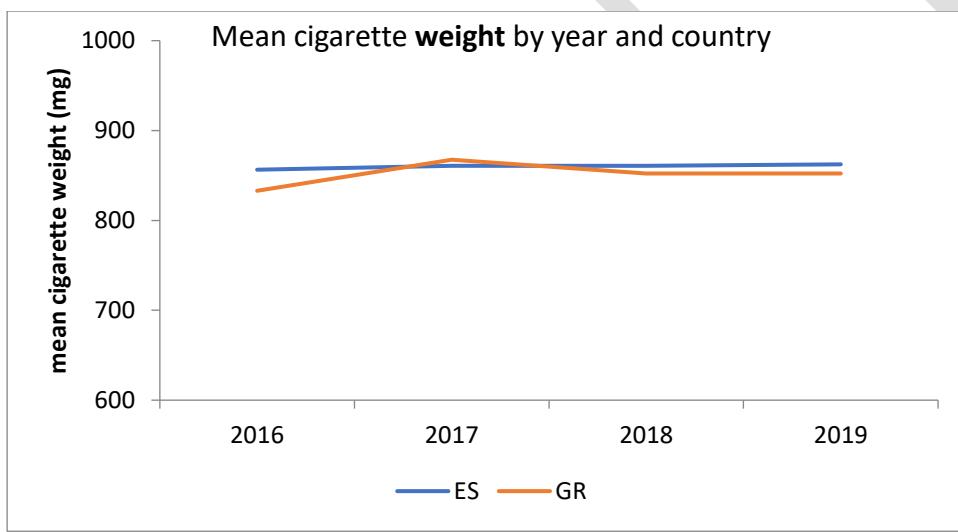


### 3.3.3 Product weight of key products by year and country

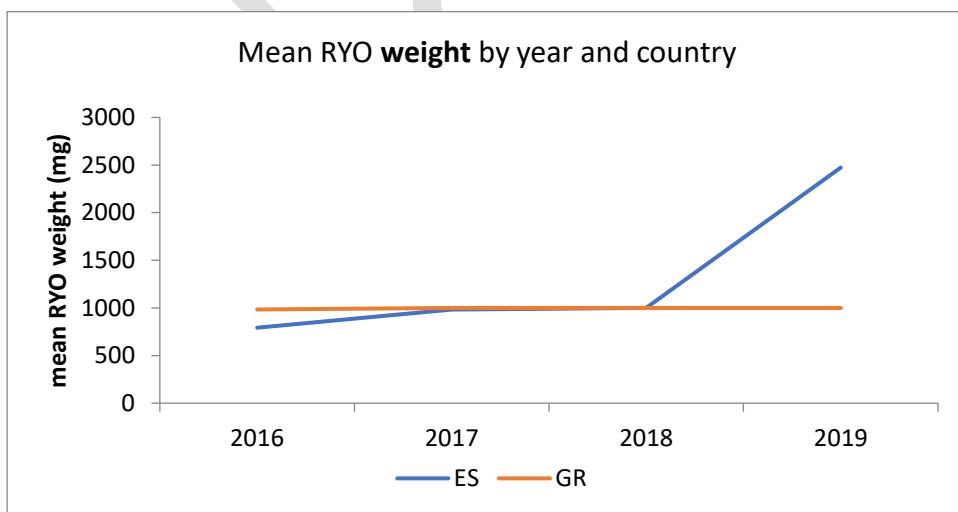
#### 3.3.3.1 Cigars



#### 3.3.3.2 Cigarettes

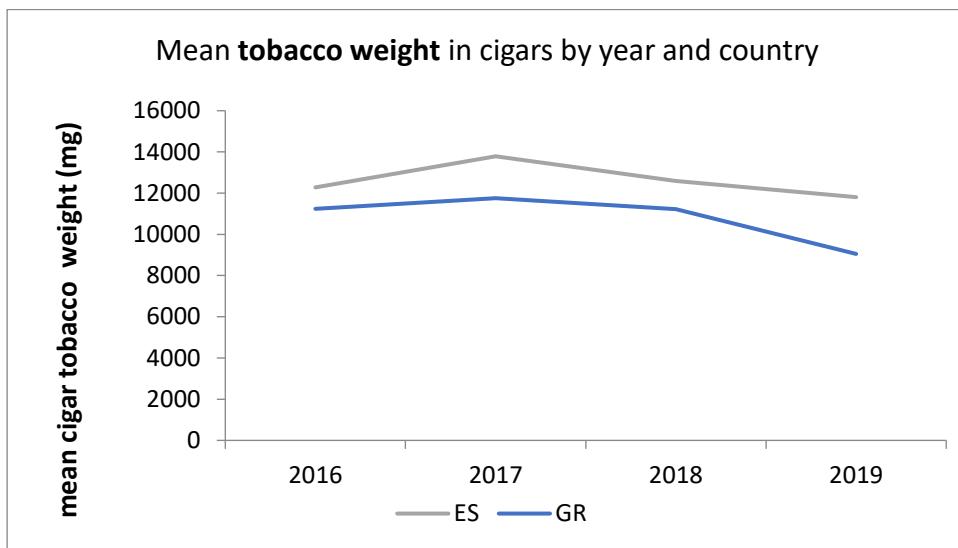


#### 3.3.3.3 RYO

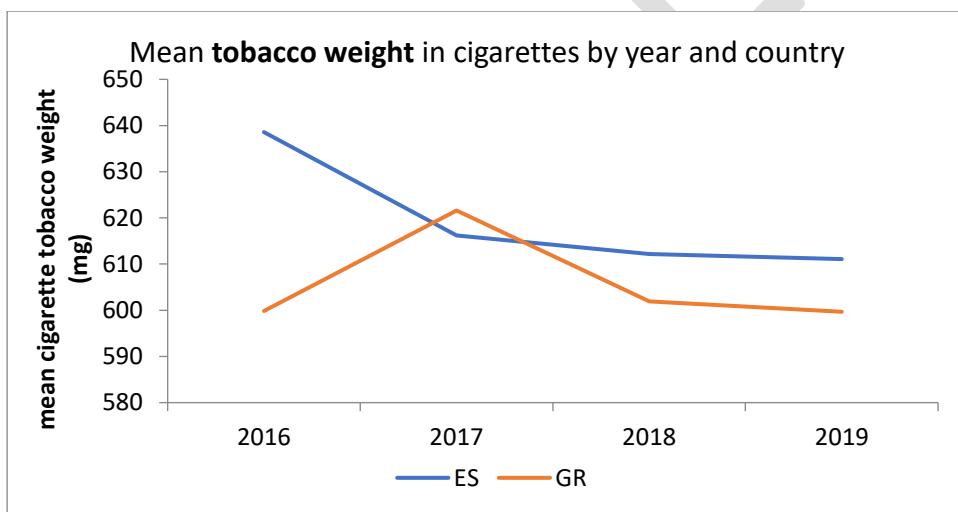


### 3.3.4 Product tobacco weight of key products by year and country

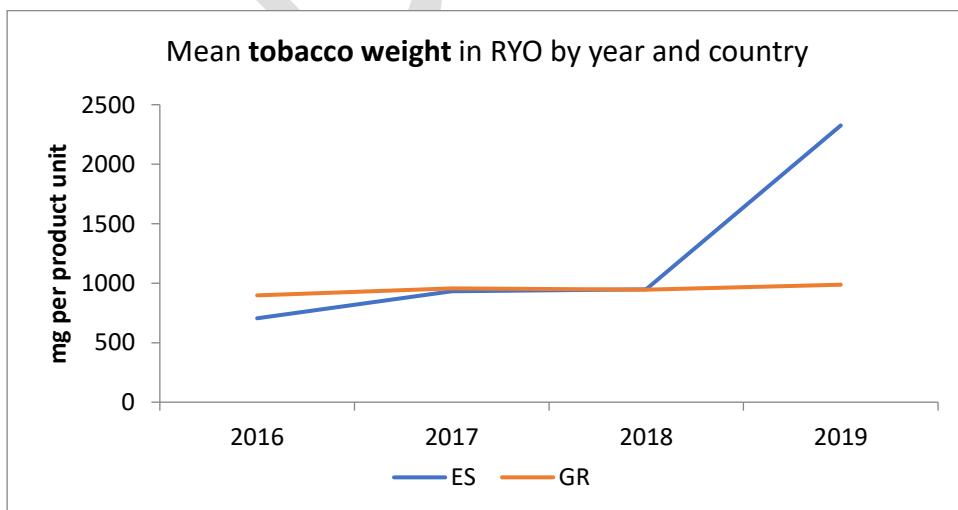
#### 3.3.4.1 Cigars



#### 3.3.4.2 Cigarettes

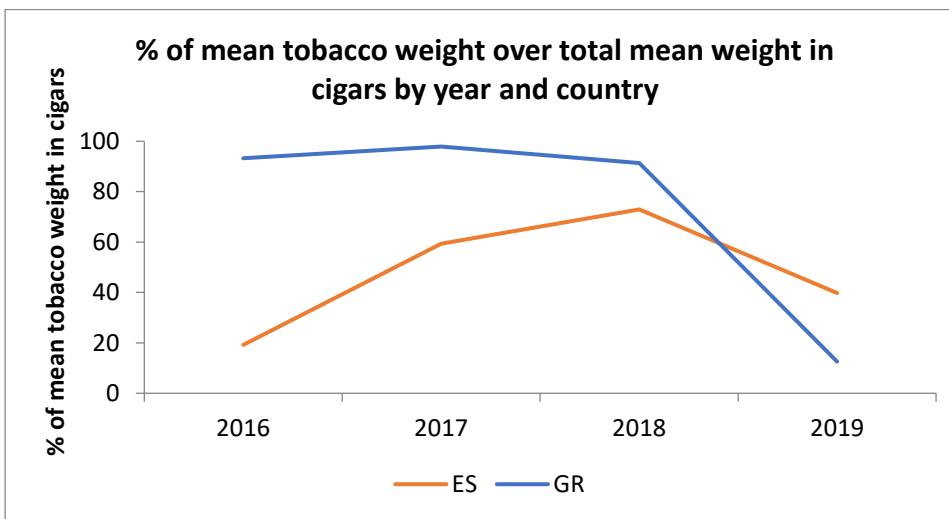


#### 3.3.4.3 RYO

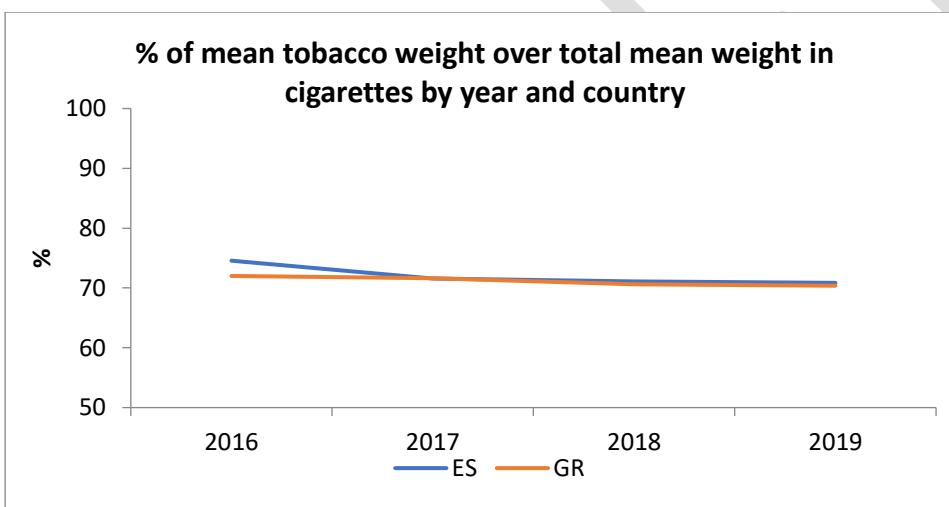


### 3.3.5 % of mean tobacco weight over total mean weight

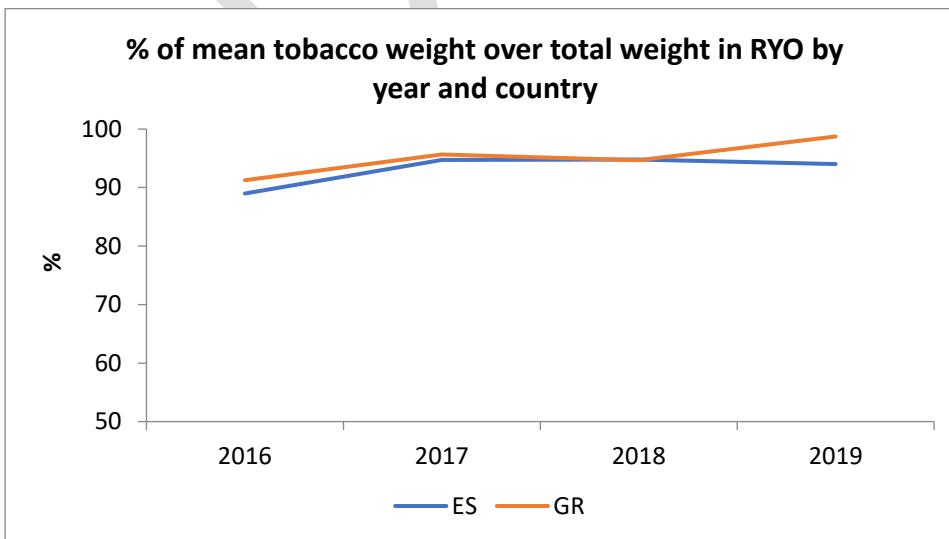
#### 3.3.5.1 Cigars



#### 3.3.5.2 Cigarettes

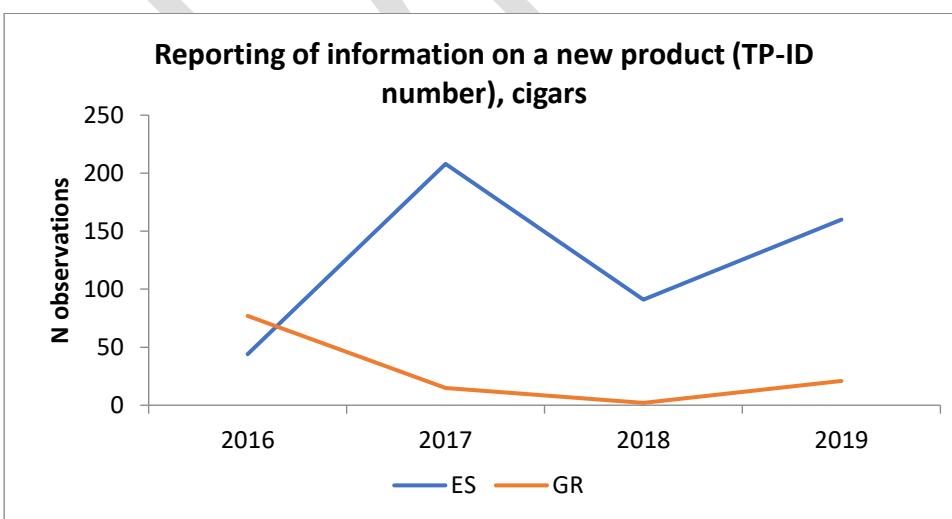
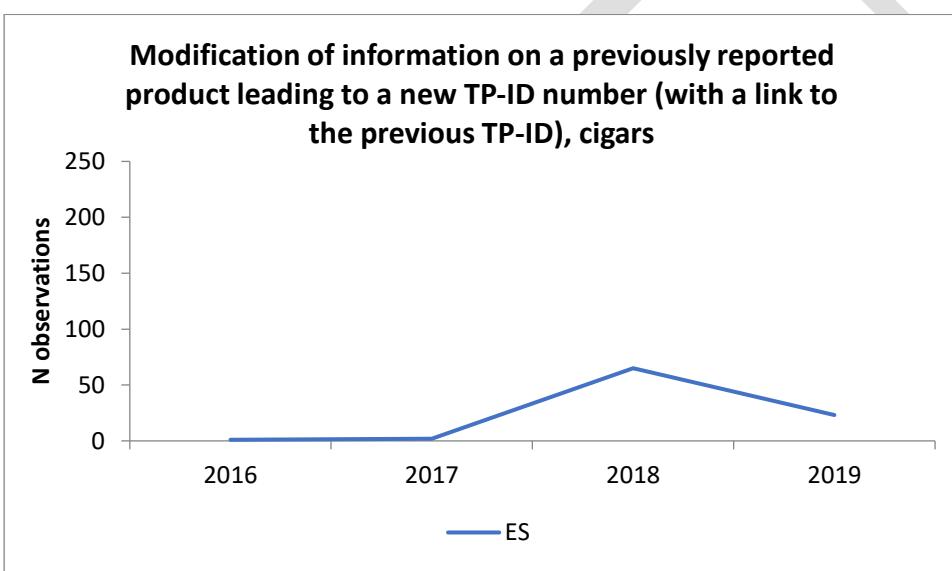
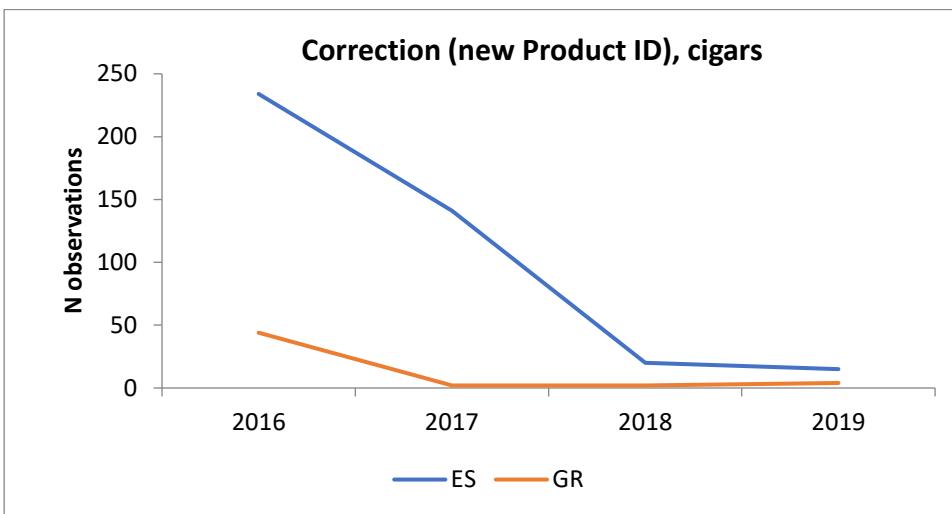


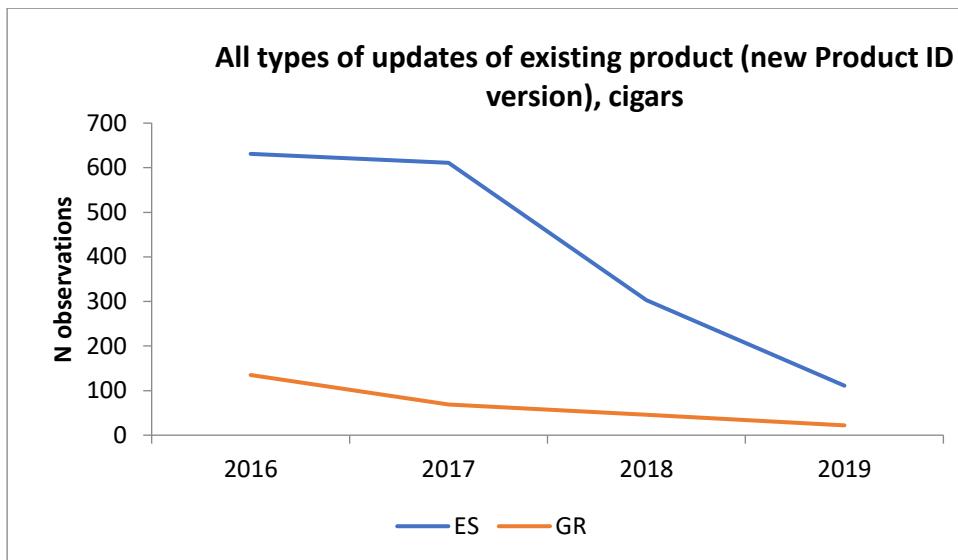
#### 3.3.5.3 RYO



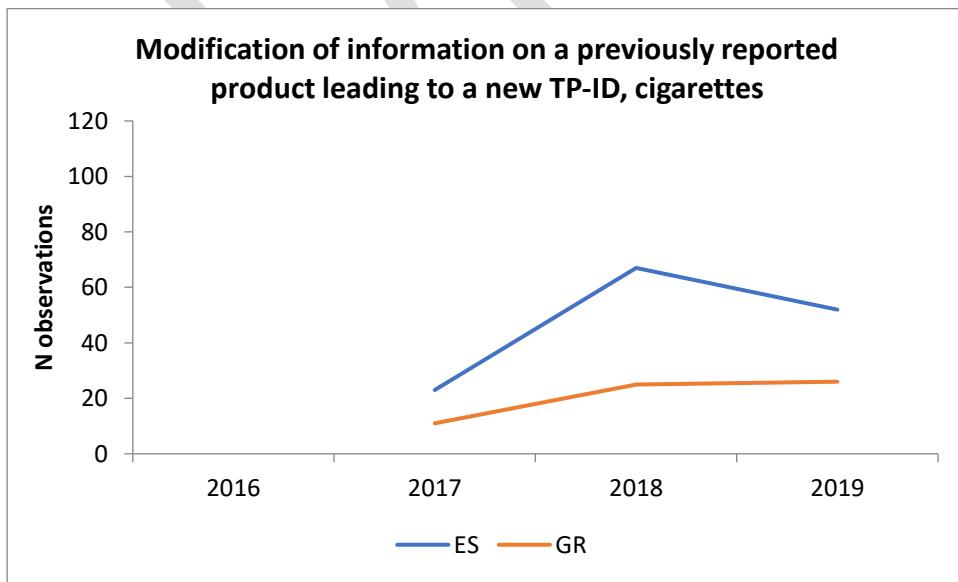
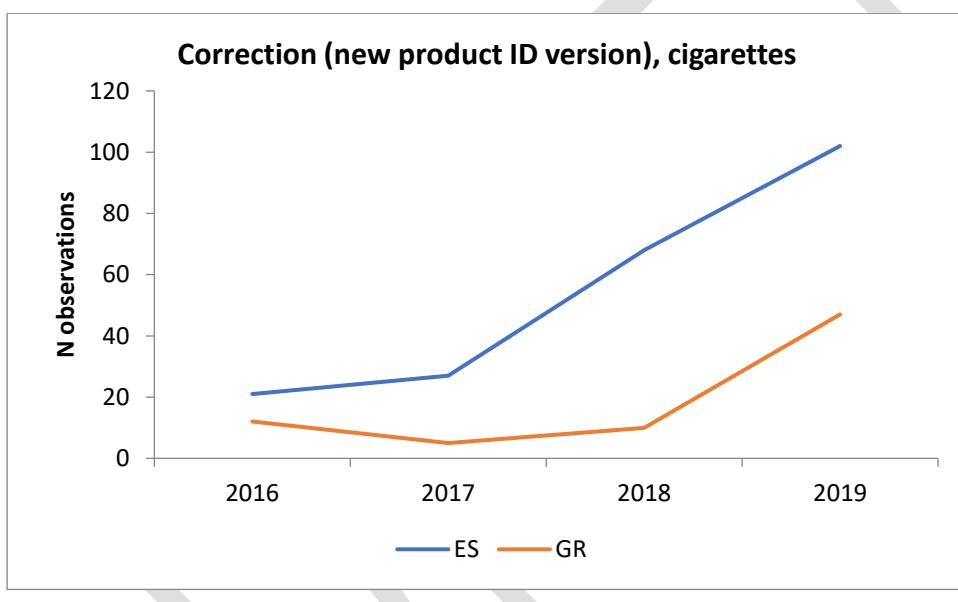
### 3.3.6 Submission type of key products by year and country

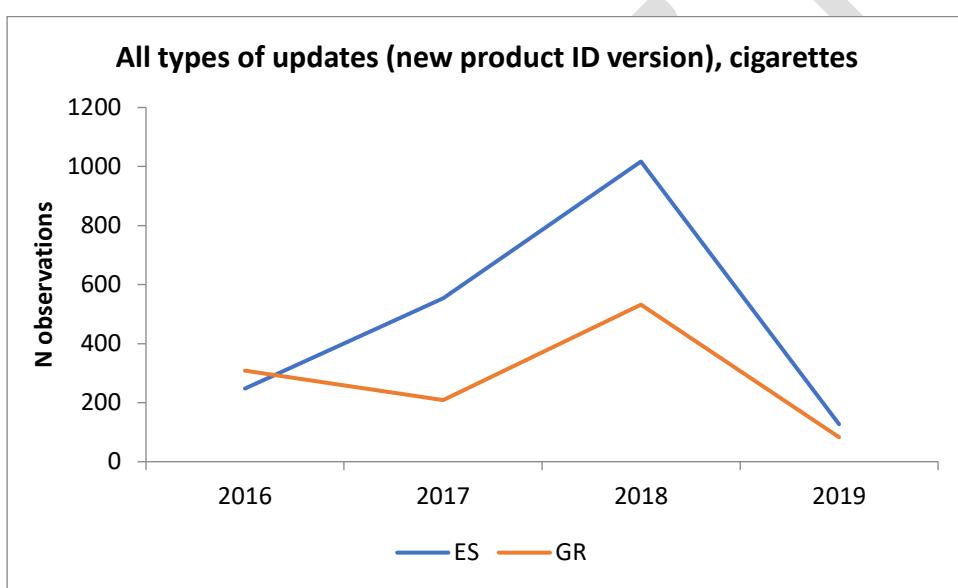
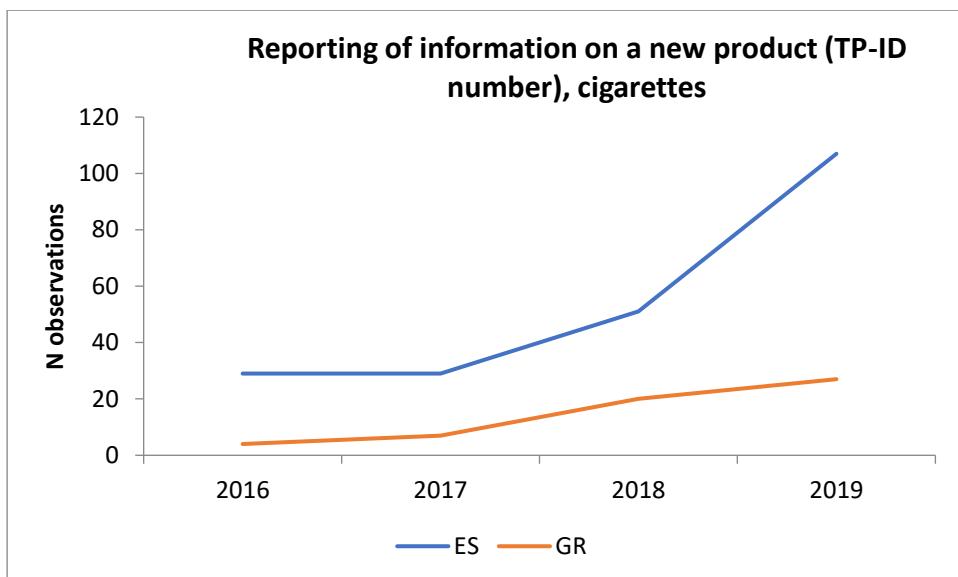
#### 3.3.6.1 Cigars



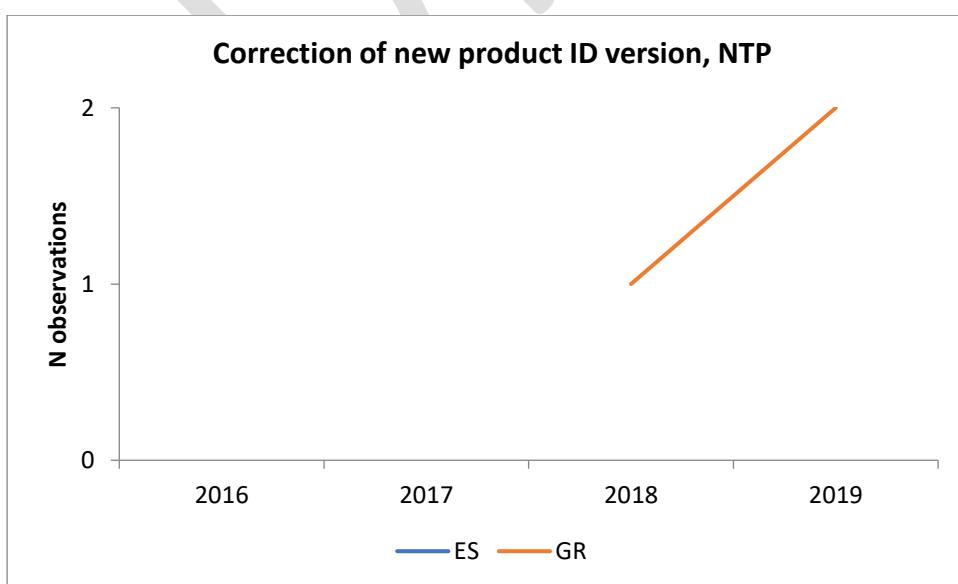


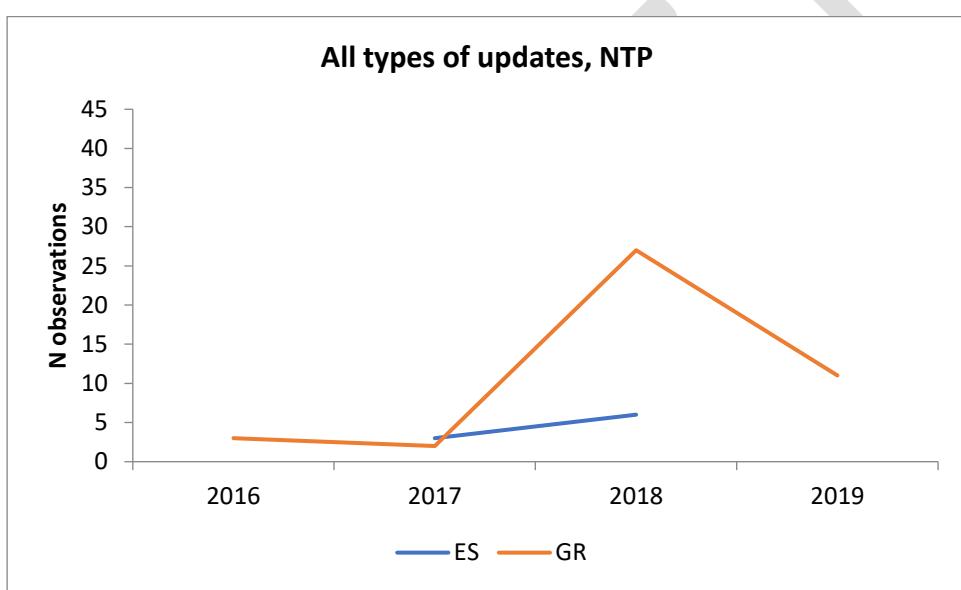
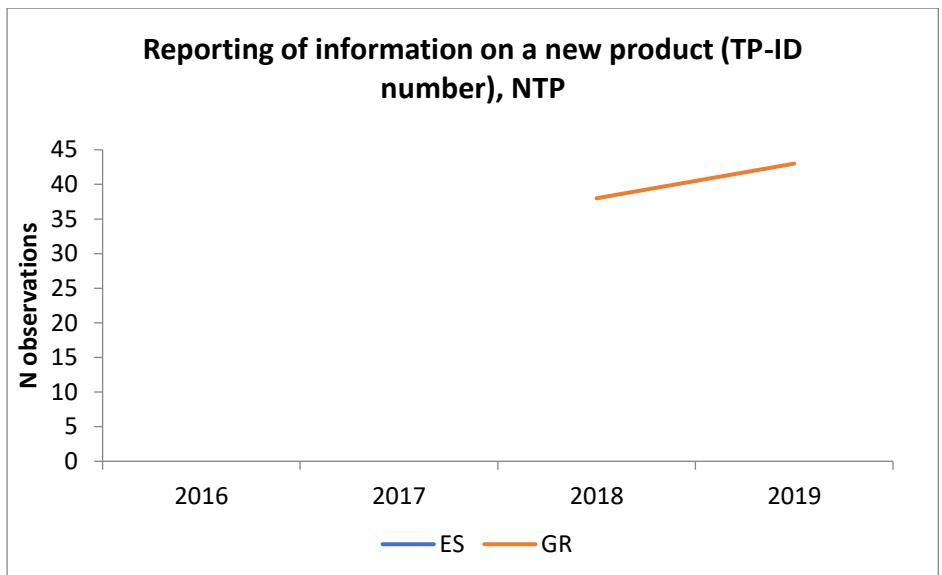
### 3.3.6.2 Cigarettes



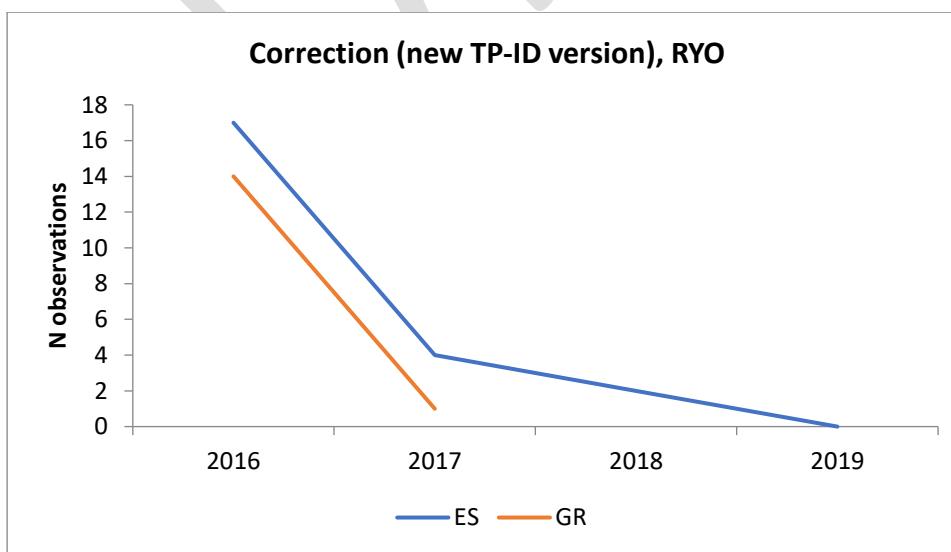


### 3.3.6.3 NTP

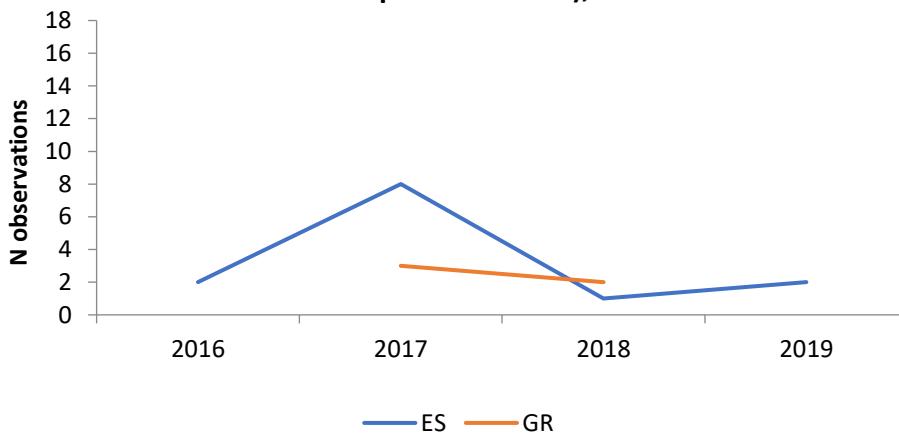




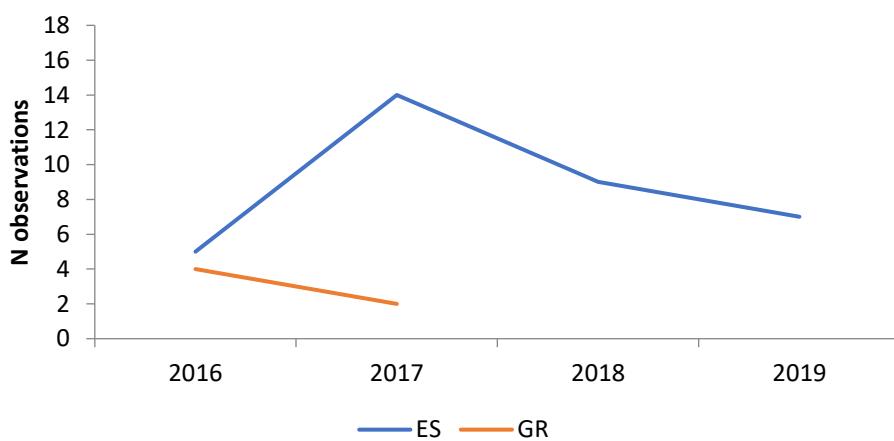
### 3.3.6.4 RYO



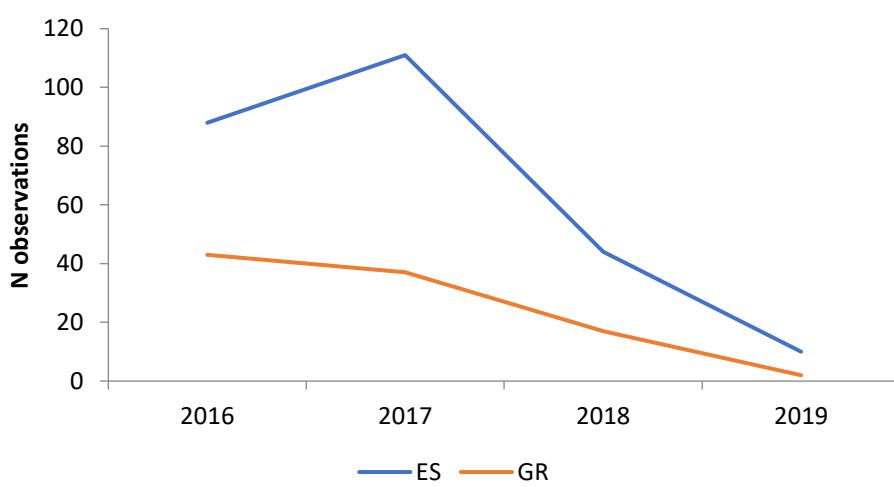
**Modification of information on a previously reported product leading to a new TP-ID number (with a link to the previous TP-ID), RYO**



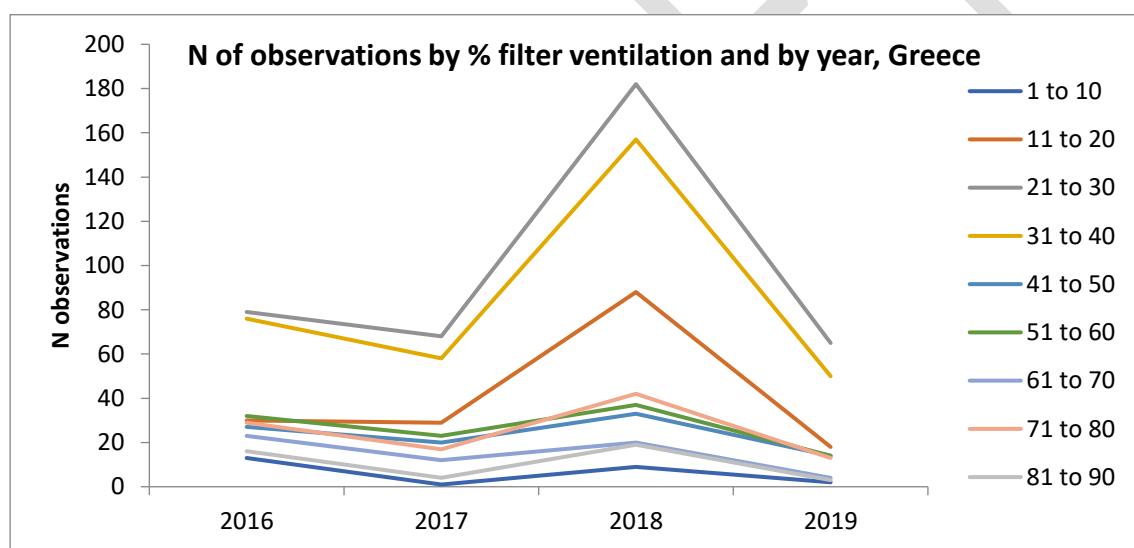
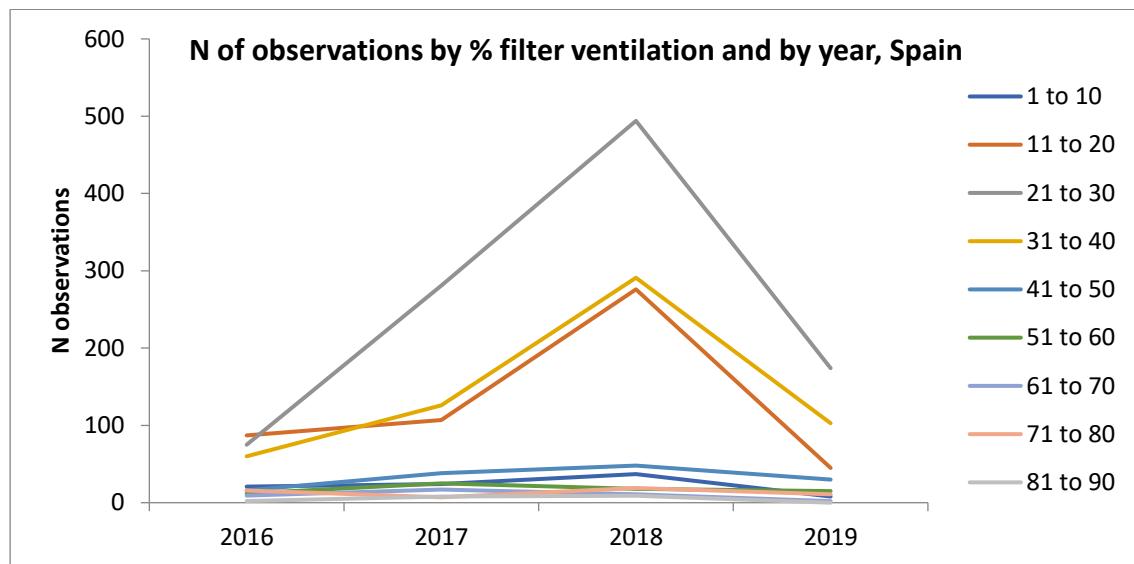
**Reporting of information on a new product (TP-ID number). RYO**



**All types of updates (new product ID version) RYO**



### 3.3.7 Cigarettes by percent of filter ventilation and by year and country



### 3.3.8 Recipe quantity by function and country

#### 3.3.8.1 Cigarettes

In order to check compliance of TPD 2014/40, Article 6 paragraph 2:

(c) for cigarettes and ryo, inclusion and quantity of individual flavourings used in quantities above 0.1% of the total tobacco product unit weight, should be not confidential.

Recipe quantity: measured as mean mg per product unit

Overall period of study (year 2016 to 2019) the recipe quantity of ingredients by function is as follows:

	ES				GR			
	Obs	Mean	(95%CI)		Obs	Mean	(95%CI)	
Addictive Enhancer	37	0.77	0.43	1.10	0.00			
Adhesive	6,384	1.97	1.68	2.26	3,787	2.00	1.89	2.11
Binder	25,707	1.83	1.79	1.88	14,439	1.76	1.69	1.82
Carrier	1,859	2.33	1.93	2.74	961	1.64	1.33	1.95
Casing	782	1.91	1.60	2.22	549	3.96	3.49	4.44
Colour	8,877	0.43	0.39	0.47	6,015	0.49	0.46	0.52
Combustion Modifier	1,766	1.02	0.96	1.08	1,252	1.05	0.96	1.15
Fibre	3,530	20.59	19.91	21.27	2,198	20.8	20.12	21.60
Filler	28,788	4.09	0.81	7.36	13,811	6.14	-0.69	12.97
Filter Component	904	12.06	4.28	19.83	383	21.9	3.73	40.15
Filtration Material	1,068	705.2	-444.0	1854.4	733	967.	-707.9	2642.6
<i>Flavour and/or Taste Enhancer</i>	<b>37,086</b>	<b>2.36</b>	<b>2.24</b>	<b>2.48</b>	<b>28,675</b>	<b>1.49</b>	<b>1.43</b>	<b>1.56</b>
Humectant	7,008	4.50	4.23	4.76	3,769	4.58	4.35	4.80
Other	43,455	0.81	0.79	0.84	19,176	0.89	0.84	0.94
Plasticiser	2,560	5.14	4.79	5.50	1,745	4.66	4.33	4.98
Preservative	6,386	0.01	0.00	0.01	3,080	0.00	0.00	0.00
Reduced Ignition Propensity Agent	79	0.93	0.77	1.09	48	1.58	1.47	1.69
Sizing Agent	2,508	0.55	0.48	0.63	1,207	0.17	0.16	0.19
Solvent - Processing Aid	10,410	19.51	18.80	20.21	5,175	18.00	17.02	18.97
Viscosity Modifier	169	0.31	0.23	0.40	183	0.39	0.29	0.49
Water-Wetting Agents	60	44.86	36.06	53.66	46	45.4	32.81	58.06
Wrapper	1	49.68	0.00	0.00	0			

### 3.3.8.2 RYO

	ES				GR			
	Obs	Mean	(95%CI)		Obs	Mean	(95%CI)	
Binder	39	11.2	10.3	12.0	45	8.8	7.6	10.1
Carrier	5	14.7	-10.1	39.5	5	179.3	80.2	278.4
Casing	78	10.1	7.2	13.0	64	9.1	6.1	12.2
Colour	4	0.0	0.0	0.1	2	0.0	-0.1	0.1
Combustion Modifier	15	0.3	0.2	0.5	14	2.5	0.2	4.8
Fibre	61	7.5	6.6	8.4	50	5.6	4.8	6.4
Filler	14	10.5	7.8	13.1	7	9.5	5.5	13.5
<i>Flavour and/or Taste Enhancer</i>	<b>3,861</b>	<b>0.9</b>	<b>0.7</b>	<b>1.1</b>	<b>1,600</b>	<b>1.3</b>	<b>1.0</b>	<b>1.6</b>
Humectant	603	23.8	11.2	36.3	250	20.2	17.9	22.5
Other	124	0.0	0.0	0.0	94	0.1	0.0	0.1
Preservative	290	2.1	2.0	2.3	125	2.0	1.8	2.1
Solvent - Processing Aid	437	13.9	10.9	17.0	248	12.0	8.2	15.9
Water-Wetting Agents	13	129.4	101.4	157.3	5	180.0	167.6	192.4
pH Modifier	13	0.7	0.5	0.9	0.0			

### 3.3.9 Tobacco product unit weight by function and country

#### 3.3.9.1 Cigarettes

	ES				GR			
	Obs	Mean	(95%CI)		Obs	Mean	(95%CI)	
Addictive enhancer	37	892.70	873.99	911.41	0	0.00	0.00	0.00
Adhesive	6,384	870.54	867.76	873.33	3,787	851.60	847.35	855.85
Binder	25,707	858.41	857.28	859.53	14,439	852.77	850.81	854.73
Carrier	1,859	881.32	875.99	886.65	961	902.41	894.55	910.28
Casing	782	704.23	693.54	714.92	549	756.09	743.54	768.64
Colour	8,877	879.09	877.03	881.15	6,015	861.95	858.74	865.15
Combustion modifier	1,766	860.99	855.31	866.67	1,252	865.01	857.63	872.38
Fibre	3,530	865.29	861.42	869.16	2,198	846.94	841.37	852.51
Filler	28,788	856.81	855.77	857.86	13,811	855.40	853.43	857.37
Filter component	904	842.84	831.95	853.73	383	871.61	853.46	889.76
Filtration material	1,068	862.05	854.69	869.40	733	858.10	848.17	868.02
<i>Flavour and taste enhancer</i>	<b>37,086</b>	<b>849.75</b>	<b>848.65</b>	<b>850.85</b>	<b>28,675</b>	<b>836.62</b>	<b>835.04</b>	<b>838.20</b>
Humectant	7,008	865.42	863.18	867.65	3,769	858.37	854.31	862.42
Other	43,455	831.53	830.77	832.29	19,176	849.88	848.36	851.40
Plasticiser	2,560	870.38	866.00	874.77	1,745	856.47	850.21	862.73
Preservative	6,386	862.70	860.65	864.76	3,080	853.13	849.26	857.00
Reduced ignition	79	881.12	845.64	916.59	48	878.04	829.07	927.00
Sizing agent	2,508	889.72	885.67	893.77	1,207	841.24	833.69	848.79

Solvent and processing aid	10,410	852.39	850.38	854.40	5,175	860.29	856.54	864.04
Viscosity modifier	169	873.63	855.25	892.00	183	897.99	878.82	917.16
Water-wetting agents	60	753.92	695.92	811.91	46	880.30	821.78	938.83
Wrapper	1	950.00	.	.	0	0.00	0.00	0.00

### 3.3.9.2 RYO

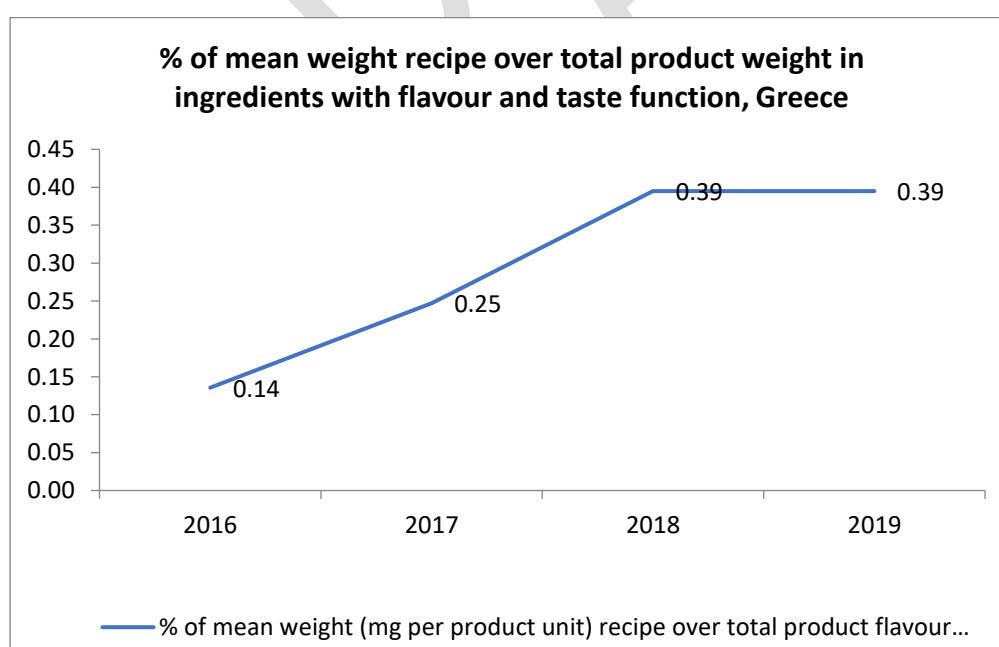
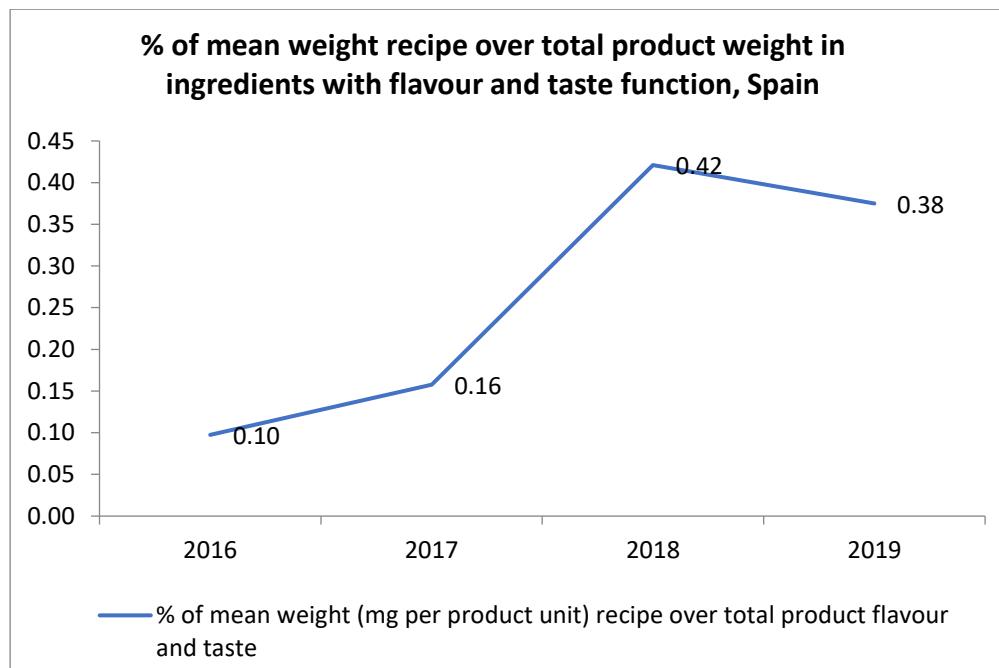
	ES				GR			
	Obs	Mean	(95%CI)		Obs	Mean	(95%CI)	
Adhesive	0	0.00	0.00	0.00	0	0	0	0
Binder	39	974.36	922.45	1026.27	45	1000	1000	1000
Carrier	5	850.00	679.98	1020.02	5	1000	1000	1000
Casing	78	1000.00	1000.00	1000.00	64	1000	1000	1000
Colour	4	250.00	-545.61	1045.61	2	1000	1000	1000
Combustion modifier	15	1000.00	1000.00	1000.00	14	1000	1000	1000
Fibre	61	918.11	847.35	988.88	50	1000	1000	1000
Filler	14	571.79	275.52	868.06	7	1000	1000	1000
<i>Flavour and taste enhancer</i>	<b>3,861</b>	<b>806.18</b>	<b>793.96</b>	<b>818.40</b>	<b>1600</b>	<b>1000</b>	<b>1000</b>	<b>1000</b>
Humectant	603	973.93	877.14	1070.72	250	1000	1000	1000
Other	124	1000.00	1000.00	1000.00	94	1000	1000	1000
Preservative	290	929.33	902.43	956.24	125	1000	1000	1000
Solvent and processing aid	437	903.32	875.57	931.07	248	1000	1000	1000
Water-wetting agents	13	557.69	317.60	797.78	5	1000	1000	1000
ph modifier	13	289.08	59.89	518.27	0	0	0	0

### 3.3.10 % of flavorings over total tobacco product unit weight by year and country

#### 3.3.10.1 Cigarettes

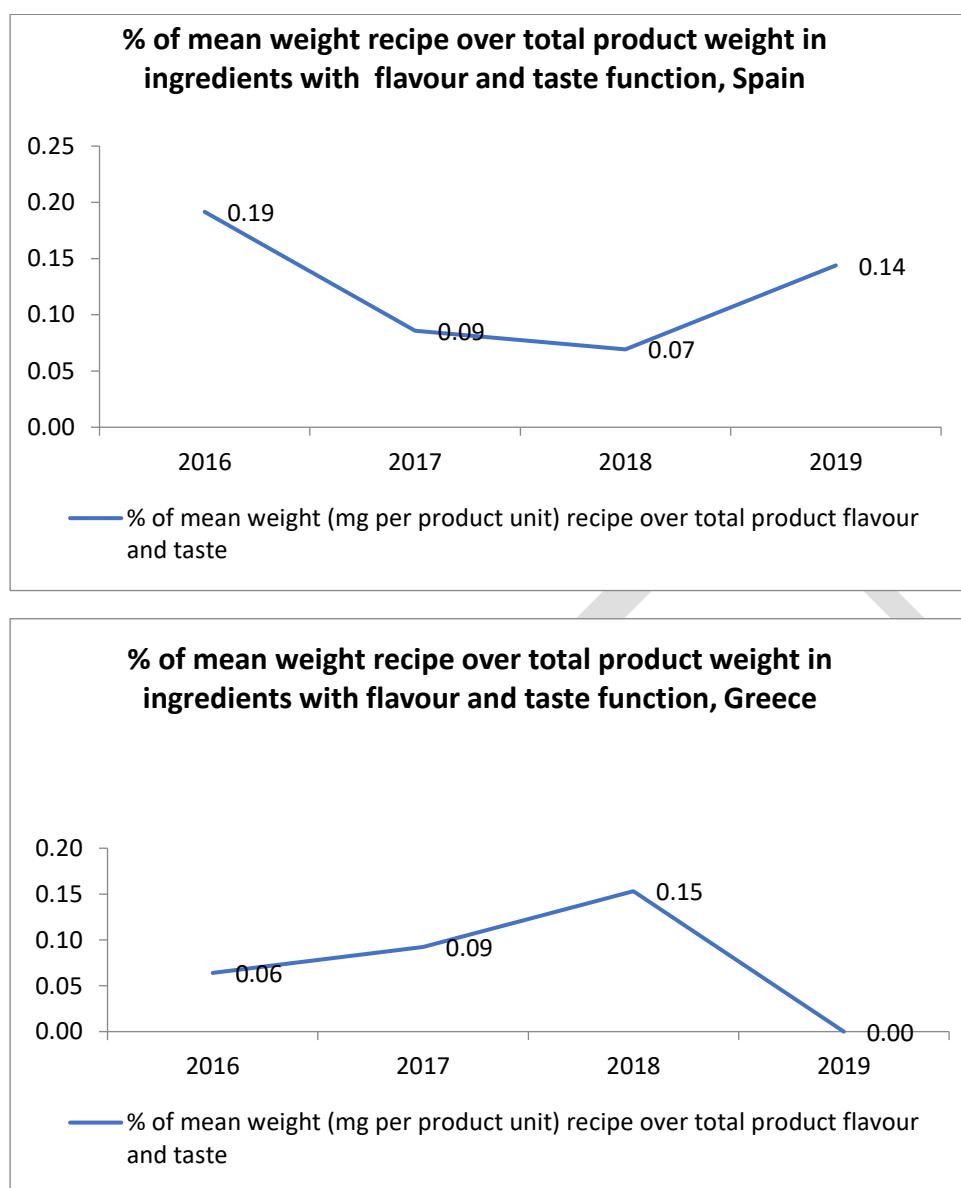
In order to check compliance of TPD 2014/40, Art 6 para 2:

(c) for cigarettes and ryo, inclusion and quantity of individual flavourings used in quantities above 0.1% of the total tobacco product unit weight, should be not confidential.



All flavourings notified in both countries are used in quantities above 0.1%

### 3.3.10.2 RYO



## 3.4 Specific queries

### 3.4.1 TP-IDs with more than one new submission in a year and /or shared between countries, by year and country

These TP-IDs have been selected using the variable “submission type” and selection of the category “Reporting information on a new product (TP-ID number) as a definition of new submission.

#### 3.4.1.1 Cigarette

Highlighted in yellow are the TP-IDs shared between ES and GR.

ES	Tp-ID	New submissions	%
2016	00010-16-00540	5	13.9
	00002-16-00488	2	5.56
	00002-16-00592	2	5.56

	00002-16-00744	2	5.56
% of total new submissions			30.6
2017	00002-17-01873	3	8.82
	00002-17-00385	2	5.88
	00002-17-00391	2	5.88
	00002-17-00537	2	5.88
% of total new submissions			26.5
2018	00010-18-02467	4	6.9
	00003-18-02336	2	3.45
	00003-18-93798	2	3.45
	00010-18-01273	2	3.45
	00010-18-02485	2	3.45
% of total new submissions			20.7
2019	00010-19-00939	7	4.79
	00010-19-00940	5	3.42
	00010-18-01841	4	2.74
	00010-18-01869	4	2.74
	01585-18-10115	4	2.74
	00010-18-02003	3	2.05
	00010-18-02449	3	2.05
	00002-19-00021	2	1.37
	00002-19-00325	2	1.37
	00002-19-00432	2	1.37
	00002-19-00433	2	1.37
	00003-19-01279	2	1.37
	00003-19-54703	2	1.37
	00003-19-60043	2	1.37
	00010-19-00362	2	1.37
	00010-19-00432	2	1.37
	00010-19-00451	2	1.37
	00010-19-00467	2	1.37
	00010-19-00468	2	1.37
	00010-19-00615	2	1.37
	01585-18-10117	2	1.37
	01585-18-10130	2	1.37
	01585-18-10249	2	1.37
% of total new submissions			42.5

GR	Tp-ID	New submissions	%
2016	00002-16-10035	132	95
	00002-16-00848	3	2.2
	00010-16-00540	3	2.2
% of total new submissions 2016			99
2017	00002-17-00437	3	25
	00002-17-00451	3	25
	00002-17-00537	2	17
% of total new submissions 2017			67
2018	00003-18-91442	3	8.3

	00003-18-92807	3	8.3
	00003-18-92808	3	8.3
	00003-18-91443	2	5.6
	00003-18-92319	2	5.6
	00003-18-94260	2	5.6
	00003-18-94261	2	5.6
	00003-18-94439	2	5.6
	00003-18-94440	2	5.6
	00003-18-94446	2	5.6
	00003-18-94568	2	5.6
	00003-18-94569	2	5.6
	00003-18-94571	2	5.6
% of total new submissions 2018			81
	00002-19-00498	4	8.5
	00010-18-02003	3	6.4
	00002-19-00453	3	6.4
	00002-19-00450	3	6.4
	00002-19-00449	3	6.4
	00002-19-00448	3	6.4
	00002-19-00494	2	4.3
	00002-19-00493	2	4.3
	00002-19-00490	2	4.3
	00002-19-00481	2	4.3
	00002-19-00480	2	4.3
	00002-19-00284	2	4.3
	00002-19-00185	2	4.3
% of total new submissions 2019			70

### 3.4.1.2 NTP

There are no TP-IDs with more than one submission in a year. Greece has 38 and 43 TP-IDs submitted as new in the years 2018 and 2019, respectively. Spain doesn't have any new submission of TP-IDs over the period 2016 to 2019

### 3.4.1.3 RYO

There are 3 different new TP-IDs where the submission type is "reporting of information on a new product" shared between ES and GR. These TP-IDs are linked to the following brandnames:

TP-ID	Brand name	ES (Observations)	GR (Observations)	Total
00010-16-00095	1	4	2	6
00010-16-00140	2	1	1	2
00010-16-00543	3	2	2	4
Total		27	9	36

## 3.4.2 TP-IDs linked to more than one brandname and with submission type == "Reporting information on a new product"

We don't know how to interpret the following situation of Tp-ID,cigarettes in Greece, where there are 10 different brandnames informed under the same TP-ID

### 3.4.2.1 Cigarettes

In Greece for TP-ID: 00002-16-10035 in the year 2019:

Brand name	Obs	%
1	1	0.76
2	9	6.82
3	2	1.52
4	11	8.33
5	21	15.91
6	40	30.3
7	31	23.48
8	6	4.55
9	7	5.3
10	4	3.03
	132	100

We can find the same situation in Spain :

In Spain for TP-ID: "01585-18-10115" and the year 2016

Brand name	Obs	%
A	1	25
B	1	25
C	1	25
D	1	25

### 3.4.2.2 NTP

There is no brand name newly reported in Spain

There is only one new brand name in Greece and 81 entries of different TP-IDs

### 3.4.2.3 RYO

There are three TP-IDs shared between ES and GR with different brand names:

TP-ID	Brand name	ES (Observations)	GR (Observations)	Total
00010-17-00329	A	8		8
	B		1	1
00010-17-00700	A	9		9
	B		2	2
00010-16-00140	C	1	1	2
00003-19-00757	D	3		3
	E		1	1
Total		21	5	26

3.4.3 TP-IDs equally submitted in both countries and resubmitted over the years although the submission type is classified as “reporting of information on a new product (TP-ID number)”

#### 3.4.3.1 Cigarettes

The following TP-IDs in cigarettes are those with Package type == “Flip top box, square corner”. This category of package type is the most frequently submitted in both countries (77% and 73%) in Spain and Greece, respectively

year	TP-ID	ES	GR	total
2016	00010-16-00540	5	3	8
	00010-18-02003	3	3	6
2019	00010-18-02003	3	3	6
	00010-19-00715	1	1	2
	00010-19-00784	1	1	2
	00010-19-00893	1	1	2
	00010-19-00935	1	1	2

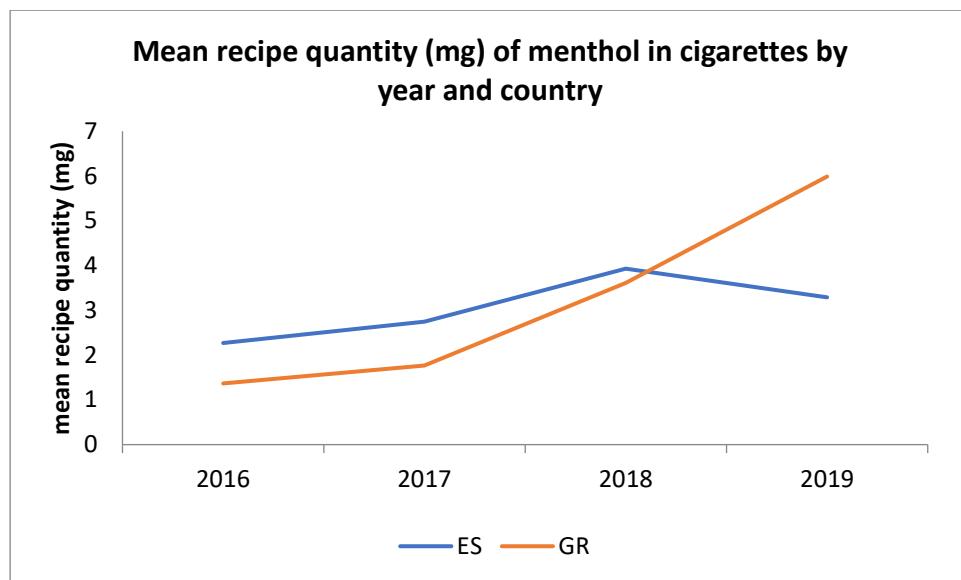
#### 3.4.3.2 NTP

None

#### 3.4.3.3 RYO

Year	TP-ID	ES	GR	Total
2016	00010-16-00095	1	1	2
	00010-16-00140	1	1	2
	00010-16-00543	1	1	2
2017	00010-17-00329	1	1	2
	00010-17-00700	1	1	2
2019	00003-19-00757	1	1	2

3.4.4 Recipe quantity of menthol (CAS number “2216-51-5”) in cigarettes by year and country



### 3.4.5 TP-IDs containing additives with colouring properties for emissions

No information is available on emissions

### 3.4.6 TP-IDs of cigarettes and RYO with submission type classified as “reporting of information on a new product (TP-ID number)” and containing one or more priority additives

#### 3.4.6.1 Cigarettes

To be presented in the final report when the variable “priority additive” is made available

#### 3.4.6.2 RYO

To be presented in the final report when the variable “priority additive” is made available

### 3.4.7 Ingredients where the variable “toxdata available” is true

#### 3.4.7.1 Cigars

The 20 most frequent ingredients in cigars where toxdata available is true

	ES		
cas	ingredients' name	obs	%
8028-89-5	Caramel (E150d)	204	4.67
25213-24-5	Polyvinyl alcohol - partly hydrolysed	182	4.17
24937-78-8	Ethylene vinyl acetate copolymer	164	3.75
9004-58-4	Bermecoll	144	3.3
56-81-5	Glycerol	132	3.02
9004-32-4	Carboximetil Celulosa	131	3
57-55-6	Propylene glycol	128	2.93
65996-61-4	Cellulose fibre	118	2.7
9004-34-6	Cellulose	115	2.63
13463-67-7	Titanium dioxide	108	2.47
532-32-1	Sodium benzoate	89	2.04
121-33-5	Vanillin	82	1.88

64-17-5	Ethanol	80	1.83
471-34-1	Calcium carbonate	78	1.79
2836-32-0	Sodium glycolate	69	1.58
65996-62-5	Starch oxidised	69	1.58
120-57-0	Piperonal	67	1.53
123-11-5	Methoxybenzaldehyde, para-	67	1.53
100-52-7	Benzaldehyde	66	1.51
100-51-6	Benzyl alcohol	61	1.4
Total		2154	49.31

	GR		
cas	ingredient's name	obs	%
9004-58-4	Ethylhydroxyethyl cellulose(Bermocoll)	67	6.79
57-55-6	Propylene glycol	47	4.76
100-51-6	Benzyl alcohol	46	4.66
8028-89-5	Caramel (E150d)	44	4.46
120-57-0	Piperonal	37	3.75
64-17-5	Ethanol	32	3.24
121-32-4	Ethyl vanillin	30	3.04
121-33-5	Vanillin	30	3.04
84625-40-1	Fenugreek extract	29	2.94
118-71-8	Maltol	28	2.84
105-37-3	Ethyl propionate	21	2.13
120-14-9	Veratraldehyde	21	2.13
100-52-7	Benzaldehyde	20	2.03
105-54-4	Ethyl butyrate	19	1.93
600-14-6	Pentanedione,	19	1.93
79-09-4	Propionic acid	19	1.93
104-61-0	Nonalactone,gamma	18	1.82
513-86-0	Acetoin	18	1.82
9000-65-1	Gum tragacanth	18	1.82
56-81-5	Glycerol	17	1.72
Total		580	58.78

### 3.4.7.2 Cigarettes

There are 302 and 247 different ingredients in cigarettes where toxdata available is true in Spain and Greece, respectively. The 20 most frequent ingredients are:

For cigarettes and RYO we have highlighted in yellow are priority additives

	ES		
cas	ingredients' name	obs	%
471-34-1	Calcium carbonate	5,819	6.84
65996-61-4	Cellulose fibre	4,028	4.73
24937-78-8	Ethylene vinyl acetate copolymer	3,050	3.58
9004-34-6	Cellulose fibre	2,956	3.47
25213-24-5	Polyvinyl alcohol - partly hydrolysed	2,836	3.33
13463-67-7	Titanium dioxide	2,734	3.21
9003-20-7	Polyvinyl acetate	2,651	3.12
65996-62-5	Starch oxidised	2,642	3.1

9000-30-0	Guar gum	2,521	2.96
102-76-1	Glyceryl triacetate	2,494	2.93
84649-99-0	Cocoa extract	2,049	2.41
57-55-6	Propylene glycol	1,879	2.21
56-81-5	Glycerol	1,858	2.18
9004-32-4	Carboximethyl Celulosa	1,691	1.99
6100 05 06	?	1,545	1.82
9004-35-7	Cellulose acetate	1,494	1.76
64-17-5	Ethanol	1,440	1.69
121-33-5	Vanillin	1,266	1.49
8028-89-5	Caramel (E150d)	1,265	1.49
68916-91-6	Licorice extract	1,251	1.47
Total		47,469	55.78

	GR		
CAS	Ingredients' name	Obs	%
471-34-1	Calcium carbonate	3,040	7.27
65996-61-4	Cellulose fibre	2,019	4.83
9000-30-0	Guar gum	1,574	3.76
24937-78-8	Ethylene vinyl acetate copolymer	1,459	3.49
65996-62-5	Starch oxidised	1,412	3.38
13463-67-7	Titanium dioxide	1,385	3.31
9004-34-6	Cellulose fibre	1,385	3.31
9003-20-7	Polyvinyl acetate	1,361	3.25
25213-24-5	Polyvinyl alcohol - partly hydrolysed	1,360	3.25
102-76-1	Glyceryl triacetate	1,145	2.74
84649-99-0	Cocoa extract	1,095	2.62
56-81-5	Glycerol	978	2.34
57-55-6	Propylene glycol	957	2.29
9004-32-4	Carboximethyl Celulosa	944	2.26
6100 5 6	??	739	1.77
9004-35-7	Cellulose acetate	699	1.67
1317-61-9	Iron oxide - black	649	1.55
121-33-5	Vanillin	648	1.55
64-17-5	Ethanol	646	1.54
68916-91-6	Licorice extract	615	1.47
Total		24,110	57.65

### 3.4.7.3 NTP

There are 53 and 47 different NTP ingredients where toxdata available is true in Spain and Greece, respectively.

The 15 most frequently notified are:

ES				GR			
Cas	Ingredients' name	Obs	%	Cas	Ingredients' name	Obs	%
121-33-5	Vanillin	7	6.3	56-81-5	glycerol	208	50
57-55-6	Propylene glycol	7	6.3	57-55-6	Propylene glycol	135	32.5

9000-30-0	guar gum	7	6.3	121-33-5	Vanillin	5	1.2
9004-34-6	cellulose	7	6.3	9000-30-0	guar gum	5	1.2
56-81-5	glycerol	6	5.4	9004-34-6	cellulose	5	1.2
100-51-6	Phenylcarbinol	5	4.5	100-51-6	Phenylcarbinol	3	0.72
121-32-4	Ethyl vanillin	4	3.6	23726-91-2	beta-damascone	3	0.72
23726-91-2	beta-damascone	4	3.6	80-56-8	alpha-pinene	3	0.72
80-56-8	alpha-pinene	4	3.6	8046-19-3	storax	3	0.72
8046-19-3	storax	4	3.6	87-44-5	beta-caryophyllene	3	0.72
87-44-5	beta-caryophyllene	4	3.6	105-54-4	Ethyl Butyrate	2	0.48
104-54-1	styrylcarbinol	3	2.7	106-33-2	ethyl laurate	2	0.48
105-54-4	Ethyl Butyrate	3	2.7	121-32-4	Ethyl vanillin	2	0.48
106-33-2	ethyl laurate	3	2.7	513-86-0	acetoin	2	0.48
104-61-0	Nonalactone (Gamma-)	2	1.8	8006-82-4	pepper oil, black	2	0.48
		70	63			383	92.1

### 3.4.7.4 RYO

There are 185 and 61 different RYO ingredients where toxdata available is true in Spain and Greece, respectively. Among the 15 most frequently notified ingredients there are 4 and 6 priority additives in ES and GR, respectively.

ES				GR			
CAS	Ingredients' name	Obs	%	CAS	Ingredients' name	Obs	%
57-55-6	Propylene glycol	229	12.3	57-55-6	Propylene glycol	129	12.2
532-32-1	Sodium benzoate	126	6.76	56-81-5	Glycerol	70	6.62
56-81-5	Glycerol	118	6.33	68915-86-6	Raisin extract	70	6.62
121-33-5	Vanillin	100	5.37	532-32-1	Sodium benzoate	64	6.05
65996-61-4	Cellulose fibre	78	4.19	65996-61-4	Cellulose fibre	63	5.95
8013-17-0	Invert sugar	72	3.86	8013-17-0	Invert sugar	61	5.77
68915-86-6	Raisin extract	66	3.54	64-19-7	Acetic acid	36	3.4
64-19-7	Acetic acid	48	2.58	90028-74-3	Fig extract	36	3.4
100-52-7	Benzaldehyde	37	1.99	5996 10 1	Dextrose (d-glucose)	35	3.31
64-17-5	Ethyl Alcohol	37	1.99	8002-31-1	Cocoa extract (alt CAS No.)	35	3.31
90028-74-3	Fig extract	36	1.93	121-33-5	Vanillin	21	1.98
104-61-0	Nonalactone, gamma-	35	1.88	68916-91-6	licorice extract	16	1.51
120-57-0	Piperonal	35	1.88	84649-99-0	Cocoa extract	16	1.51
84649-99-0	Cocoa extract	34	1.83	100-51-6	Benzyl alcohol	15	1.42
5996 10 1	Dextrose (d-glucose)	33	1.77	50-70-4	Sorbitol	14	1.32
Total		1084	58.2	Total		681	64.4

### 3.4.8 TP-IDs where the variables “existence of studies on toxCMR, toxcardio, tox additive and toxother” are notified as true

#### 3.4.8.1 Cigarettes : Selected by Submission type=="Reporting of information on a new product (TP-ID number)."

ES											
TP-IDs 2016	Obs	%	TP-IDs 2017	Obs	%	TP-IDs 2018	Obs	%	TP-IDs 2019	Obs	%
00010-16-01118	32	19	00002-17-00391	48	14	00010-18-02467	50	11	00010-19-00715	57	3

00002-16-00926	27	16	00010-17-00477	43	12	00002-18-01203	46	10	00010-18-01841	50	2
00002-16-00010	26	16	00002-17-00385	41	12	00010-18-00401	45	10	00010-18-01869	50	2
00002-16-00488	21	13	00010-17-00493	41	12	00010-18-01273	45	10	00010-19-00519	50	2
00002-16-00592	20	12	00002-17-00620	39	11	00010-18-02100	42	9	00010-19-00613	50	2
00002-16-00744	20	12	00002-17-01873	34	10	00010-18-02485	42	9	00010-19-00467	49	2
00010-16-00540	20	12	00010-17-00907	34	10	00010-18-00778	39	8	00010-19-00935	49	2
			00002-17-00537	31	9	00010-18-02193	36	8	00010-19-00468	48	2
			00002-17-00603	22	6	00010-18-01297	33	7	00010-18-02449	47	2
			00010-17-00391	20	6	00002-18-01199	31	7	00010-19-00939	45	2
						00010-18-00530	25	5	00002-19-00468	44	2
						00010-18-00369	20	4	00002-19-00505	44	2
						00010-18-01308	7	2	00010-18-01523	44	2
									00010-19-00432	43	2
									00010-19-00451	43	2
									00010-19-00615	43	2
									00010-19-00466	42	2
									00010-19-00800	41	2
									00010-19-00944	39	2
									00010-18-01604	38	2
									00010-18-01915	38	2
									00010-19-00362	37	2
									00010-18-02003	36	2
									00002-19-00013	35	2
									00010-19-00805	35	2
									00002-19-00044	34	2
									00002-19-00195	34	2
									00002-19-00196	34	2
									00002-19-00011	33	2
									00002-19-00530	33	2
									00002-19-00531	33	2
									00002-19-00433	32	1
									00002-19-00107	31	1
									00002-19-00021	30	1
									00002-19-00022	30	1
									00002-19-00034	30	1
									00002-19-00432	30	1
									00002-19-00532	30	1
									00002-19-00588	30	1
									00002-19-00601	30	1
									00002-19-00604	30	1
									00002-19-00325	29	1
									00002-19-00587	29	1
									00002-19-00028	27	1
									00010-19-00459	27	1
									00002-19-00036	26	1
									00010-19-00458	26	1
									00007-19-01916	25	1
									00002-19-00120	24	1
									00010-19-00942	24	1

									00002-19-00033	23	1
									00010-19-00695	22	1
									00010-19-00936	22	1
									00010-19-00937	22	1
									00010-19-00938	22	1
									00007-19-01911	21	1
									00007-19-01920	21	1
									00007-19-01936	21	1
									00010-19-00784	21	1
									00010-19-00893	21	1
									00007-19-01939	20	1
									00007-19-01942	20	1
									00002-19-00586	18	1
									00002-19-00600	18	1
									00010-19-00940	18	1
Total	166	100		353	100			461	100		2148 100

GR											
TP-IDs 2016	Obs	%	TP-IDs 2017	Obs	%	TP-IDs 2018	Obs	%	TP-IDs 2019	Obs	%
00002-16-00848	40	51	00002-17-00437	48	38	00010-18-01108	35	100	00010-19-00715	57	7
00010-16-00540	20	26	00002-17-00451	47	37				00010-19-00599	49	6
00010-16-00601	18	23	00002-17-00537	31	25				00010-19-00935	49	6
									00010-19-00947	39	5
									00002-19-00448	38	5
									00002-19-00480	38	5
									00010-18-02003	36	4
									00002-19-00185	34	4
									00002-19-00449	34	4
									00002-19-00450	34	4
									00002-19-00493	34	4
									00002-19-00494	34	4
									00002-19-00284	33	4
									00002-19-00481	32	4
									00002-19-00490	27	3
									00002-19-00509	26	3
									00002-19-00453	24	3
									00002-19-00498	23	3
									00007-19-01917	21	3
									00007-19-01921	21	3
									00007-19-01946	21	3
									00010-19-00784	21	3
									00010-19-00893	21	3
									00002-19-00435	20	2
									00002-19-00497	20	2
									00007-19-01922	16	2
Total	78	100		126	100			35	100		802 100

## 3.4.8.2 RYO

ES											
TP-IDs 2016	Obs	%	TP-IDs 2017	Obs	%	TP-IDs 2018	Obs	%	TP-IDs 2019	Obs	%
00002-16-00810	21	7	00007-17-01502	19	3	00010-18-03088	16	6	00010-19-00117	4	14
00002-16-00965	15	5	00007-17-01522	19	3	00010-18-00814	15	5	00010-19-00393	4	14
00002-16-00764	12	4	00007-17-01543	19	3	00010-18-01286	15	5	00010-19-01057	4	14
00002-16-00963	12	4	00007-17-01504	17	3	00010-18-01289	15	5	00010-19-01058	4	14
00002-16-11045	12	4	00007-17-01541	17	3	00010-18-02049	15	5	00010-19-01084	4	14
00010-16-00093	12	4	00007-17-01547	17	3	00010-18-02646	15	5	00010-19-01136	4	14
00010-16-00135	12	4	00007-17-01549	17	3	00010-18-02848	15	5	00010-19-01232	4	14
00010-16-00127	11	4	00010-17-00128	17	3	00010-18-00821	14	5			
00010-16-00128	11	4	00010-17-00181	17	3	00010-18-00847	14	5			
00010-16-00048	7	2	00007-17-01532	16	2	00010-18-01287	14	5			
00010-16-00058	7	2	00007-17-01539	16	2	00010-18-01288	14	5			
00010-16-00095	7	2	00007-17-01513	15	2	00010-18-01290	14	5			
00010-16-00171	7	2	00007-17-01534	15	2	00010-18-02647	14	5			
00010-16-00427	7	2	00007-17-01535	15	2	00010-18-00805	9	3			
00010-16-00551	7	2	00010-17-00757	15	2	00010-18-00883	9	3			
00010-16-00911	7	2	00007-17-01520	14	2	00010-18-00338	4	1			
00010-16-00942	7	2	00010-17-00704	14	2	00010-18-00796	4	1			
00010-16-00140	6	2	00010-17-00759	14	2	00010-18-00815	4	1			
00010-16-00143	6	2	00010-17-00761	14	2	00010-18-01180	4	1			
00010-16-00543	6	2	00010-17-00891	14	2	00010-18-01182	4	1			
00010-16-00809	6	2	00010-16-00099	13	2	00010-18-01283	4	1			
00010-16-00825	6	2	00010-17-00623	13	2	00010-18-01716	4	1			
00002-16-00822	5	2	00010-17-00702	13	2	00010-18-01855	4	1			
00010-16-00110	4	1	00007-17-01525	12	2	00010-18-01856	4	1			
00010-16-00113	4	1	00010-17-00084	12	2	00010-18-01857	4	1			
00010-16-00114	4	1	00010-17-00085	12	2	00010-18-01858	4	1			
00010-16-00148	4	1	00010-17-00243	12	2	00010-18-01859	4	1			
00010-16-00150	4	1	00010-17-00485	12	2	00010-18-01860	4	1			
00010-16-00173	4	1	00010-17-00620	12	2	00010-18-02558	4	1			
00010-16-00182	4	1	00010-17-00706	12	2	00010-18-02603	4	1			
00010-16-00183	4	1	00010-17-00698	10	2	00010-18-02604	4	1			
00010-16-00184	4	1	00010-17-00765	9	1	00010-18-02605	4	1			
00010-16-00190	4	1	00002-17-00371	8	1	00010-18-02606	4	1			
00010-16-00191	4	1	00007-17-01503	8	1	00010-18-02822	4	1			
00010-16-00545	4	1	00007-17-01511	8	1	00010-18-00782	3	1			
00010-16-00548	4	1	00007-17-01542	8	1	00010-18-00795	3	1			
00010-16-00875	4	1	00007-17-01546	8	1	00010-18-02993	1	0			
00010-16-00930	4	1	00010-17-00162	7	1						
00010-16-01120	4	1	00010-17-00204	7	1						
00010-16-01350	4	1	00010-17-00239	7	1						
00002-16-00786	3	1	00010-17-00284	7	1						
00002-16-00125	2	1	00010-17-00329	7	1						
			00010-17-00335	7	1						
			00010-17-00451	7	1						

		00010-17-00484	7	1								
		00010-17-00549	7	1								
		00010-17-00701	7	1								
		00010-17-00238	6	1								
		00010-17-00474	6	1								
		00010-17-00700	6	1								
		00010-17-00712	6	1								
		00010-17-00726	6	1								
		00010-17-00697	5	1								
		00010-17-00699	5	1								
		00010-16-00810	4	1								
		00010-17-00028	4	1								
		00010-17-00206	4	1								
		00010-17-00551	4	1								
		00010-17-00755	4	1								
		00010-17-00756	4	1								
		00010-17-00758	4	1								
		00010-17-00836	4	1								
		00010-17-00837	4	1								
		00010-17-00838	4	1								
		00010-17-00752	3	0								
		00010-17-00754	3	0								
		00002-16-00968	1	0								
		00002-17-01968	1	0								
TOTAL	282	100			661	100			291	100		
											28	100

GR											
TP-IDs 2016	Obs	%	TP-IDs 2017	Obs	%	TP-IDs 2018	Obs	%	TP-IDs 2019	Obs	%
00007-16-01073	57	13	00007-17-01352	63	27	00010-18-00839	15	19	00010-19-00382	1	100
00007-16-01052	22	5	00007-17-01350	16	7	00010-18-00797	5	6.4			
00007-16-01067	22	5	00007-17-01353	16	7	00010-18-01183	5	6.4			
00002-16-00810	21	5	00010-17-00336	8	3	00010-18-00796	4	5.1			
00007-16-01056	19	4	00010-17-00162	7	3	00010-18-00835	4	5.1			
00007-16-01074	19	4	00010-17-00204	7	3	00010-18-00841	4	5.1			
00007-16-01085	19	4	00010-17-00239	7	3	00010-18-01182	4	5.1			
00007-16-01103	19	4	00010-17-00284	7	3	00010-18-01283	4	5.1			
00010-16-00106	18	4	00010-17-00329	7	3	00010-18-01364	4	5.1			
00010-16-00104	13	3	00010-17-00335	7	3	00010-18-01646	4	5.1			
00010-16-00434	13	3	00010-17-00451	7	3	00010-18-02822	4	5.1			
00010-16-00906	13	3	00010-17-00484	7	3	00010-18-02843	4	5.1			
00002-16-00814	12	3	00010-17-00549	7	3	00010-18-02983	4	5.1			
00007-16-01066	12	3	00010-17-00701	7	3	00010-18-00782	3	3.9			
00007-16-01091	12	3	00010-17-00840	7	3	00010-18-00795	3	3.9			
00007-16-01104	12	3	00010-17-00238	6	3	00010-18-00804	3	3.9			
00010-16-00135	12	3	00010-17-00474	6	3	00010-18-02977	3	3.9			
00010-16-00050	8	2	00010-17-00700	6	3	00010-18-00906	1	1.3			
00010-16-00048	7	2	00010-17-00726	6	3						
00010-16-00095	7	2	00010-17-00697	5	2						

00010-16-00103	7	2	00010-17-00699	5	2						
00010-16-00109	7	2	00010-17-00779	5	2						
00010-16-00171	7	2	00010-17-00746	4	2						
00010-16-00387	7	2	00010-17-00755	4	2						
00010-16-00427	7	2	00010-17-00756	4	2						
00010-16-00828	7	2	00010-17-00752	3	1						
00010-16-00911	7	2	00010-17-00754	3	1						
00010-16-00942	7	2									
00002-16-00806	6	1									
00010-16-00047	6	1									
00010-16-00140	6	1									
00010-16-00143	6	1									
00010-16-00543	6	1									
00010-16-00809	6	1									
00010-16-00825	6	1									
00002-16-00822	5	1									
00007-16-01049	1	0									
00007-16-01068	1	0									
00010-16-00069	1	0									
	443	100		237	100			78	100		1 100

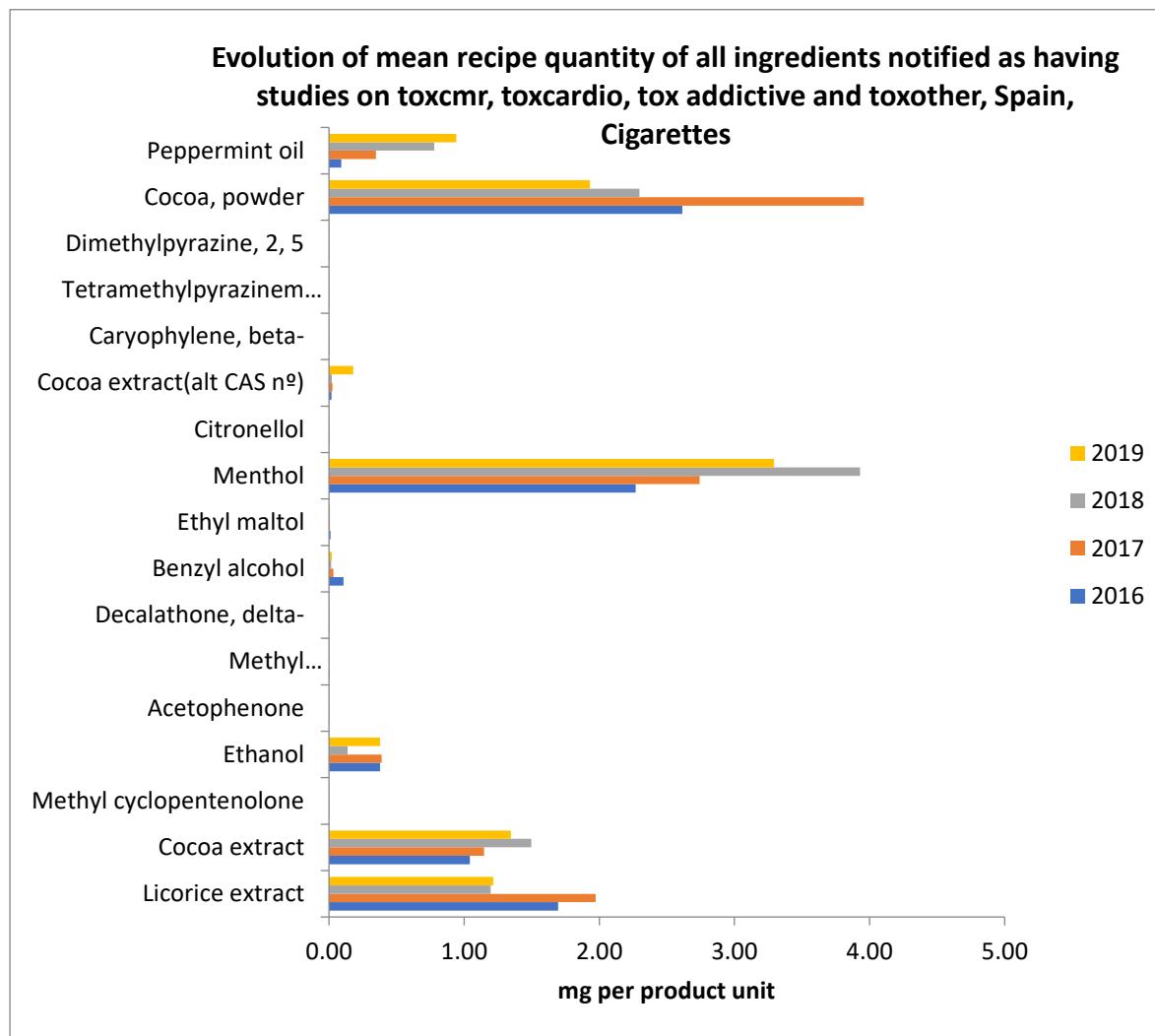
### 3.4.9 Ingredients where the variables “existence of studies on toxCMR, on toxcardio, and on toxother” are notified as true

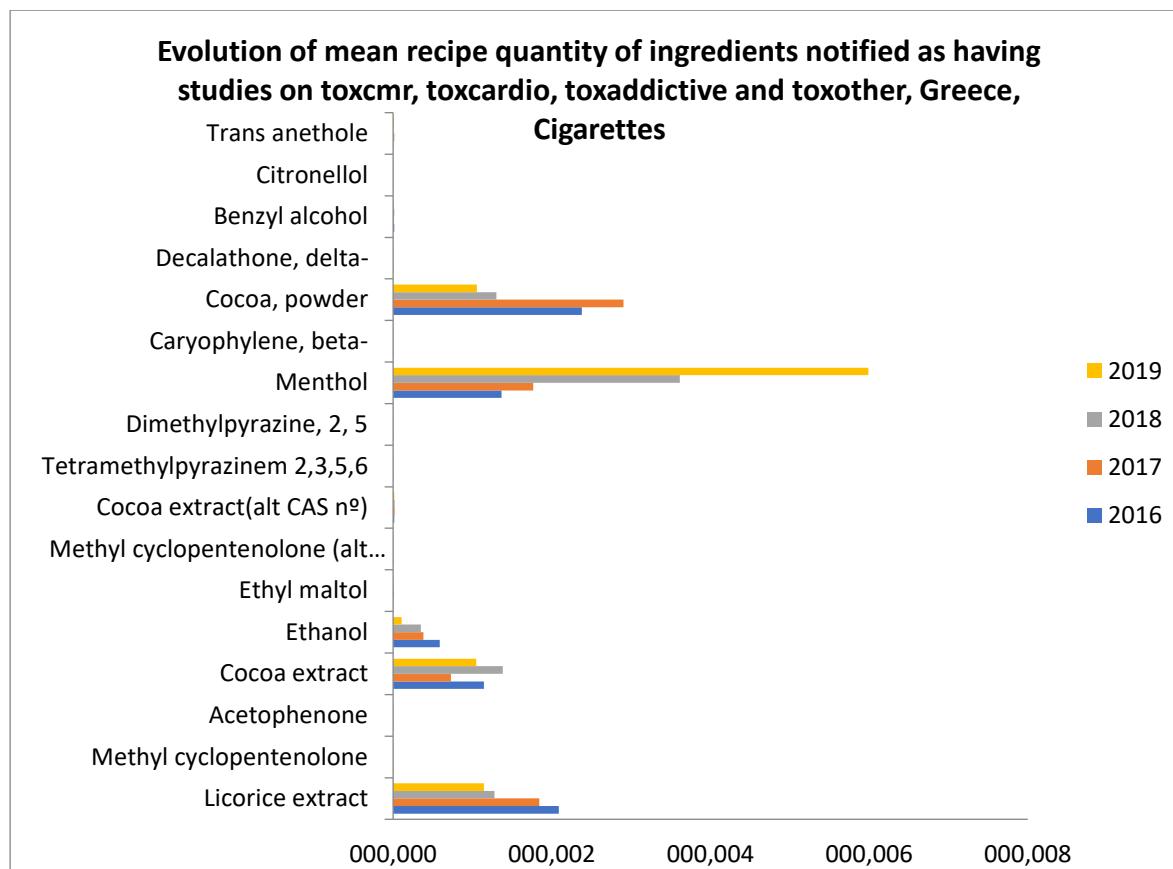
#### 3.4.9.1 Cigarettes

There are 17 different ingredients in Spain and Greece where the variables “existence of studies on toxCMR, on toxcardio, tox additive and on toxother” are notified as true.

		ES					GR	
CAS	Ingredient's name	Obs	%	CAS	Ingredient's name	Obs	%	
68916-91-6	Licorice extract	791	19.43	68916-91-6	Licorice extract	331	19.66	
84649-99-0	Cocoa extract	389	9.55	80-71-7	Methyl cyclopentenolone	245	14.55	
80-71-7	Methyl cyclopentenolone	377	9.26	98-86-2	Acetophenone	205	12.17	
64-17-5	Ethanol	369	9.06	84649-99-0	Cocoa extract	187	11.1	
98-86-2	Acetophenone	349	8.57	64-17-5	Ethanol	180	10.69	
765-70-8	Methyl cyclopentenolone (alt CAS nº)	323	7.93	4940 11 8	Ethyl maltol	168	9.98	
705-86-2	Decalathone, delta-	316	7.76	765-70-8	Methyl cyclopentenolone (alt CAS nº)	103	6.12	
100-51-6	Benzyl alcohol	266	6.53	8002-31-1	Cocoa extract(alt CAS nº)	73	4.33	
4940 11 8	Ethyl maltol	266	6.53	1124-11-4	Tetramethylpyrazinem 2,3,5,6	41	2.43	
2216-51-5	Menthol	149	3.66	123-32-0	Dimethylpyrazine, 2, 5	41	2.43	
106-22-9	Citronellol	107	2.63	2216-51-5	Menthol	41	2.43	
8002-31-1	Cocoa extract(alt CAS nº)	103	2.53	87-44-5	Caryophylene, beta-	26	1.54	
87-44-5	Caryophylene, beta-	73	1.79	95009-22-6	Cocoa, powder	22	1.31	
1124-11-4	Tetramethylpyrazinem 2,3,5,6	65	1.6	705-86-2	Decalathone, delta-	12	0.71	

123-32-0	Dimethylpyrazine, 2, 5	65	1.6	100-51-6	Benzyl alcohol	4	0.24
95009-22-6	Cocoa, powder	41	1.01	106-22-9	Citronellol	4	0.24
8006-90-4	Peppermint oil	23	0.56	4180-23-8	Trans anethole	1	0.06
Total		4072	100	Total		1684	100





### 3.4.9.2 NTP

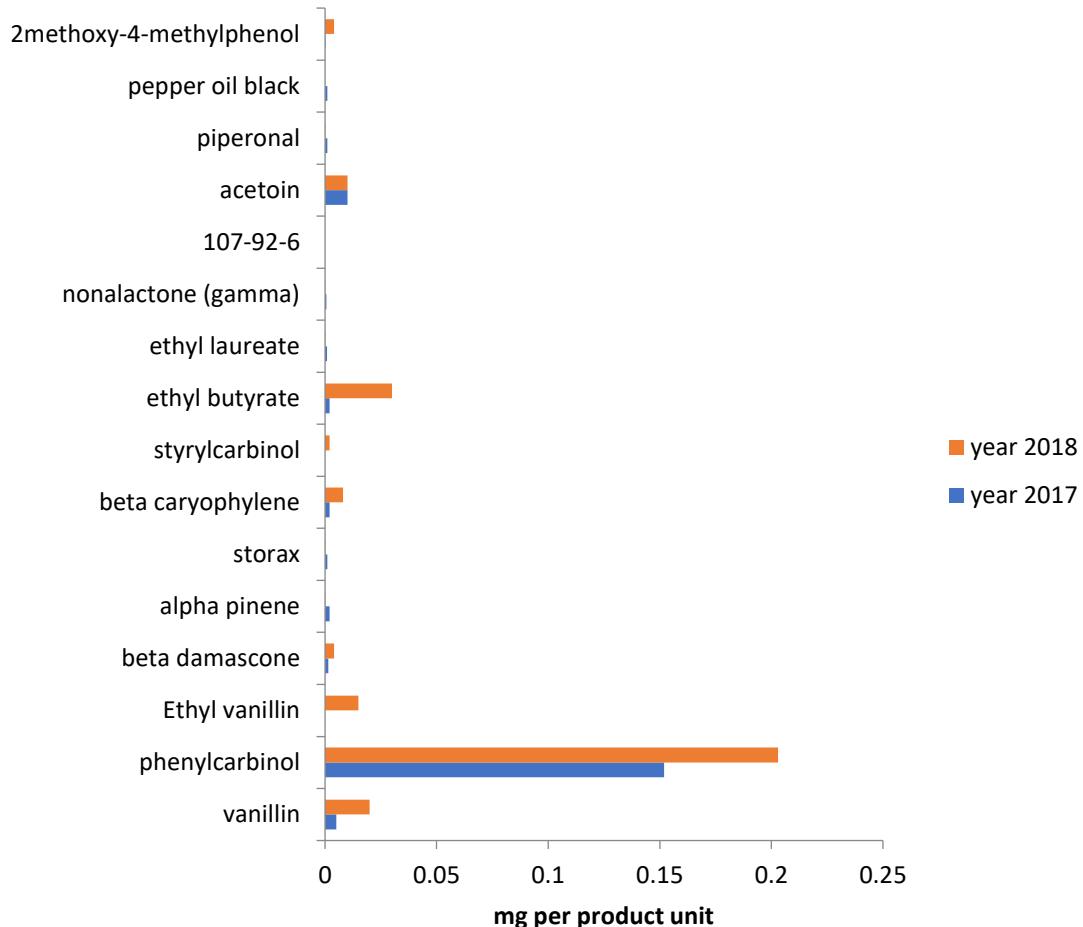
There are 52 and 132 different ingredients where the variables “existence of studies on toxCMR, on toxcardio, and on toxother” are notified as true.

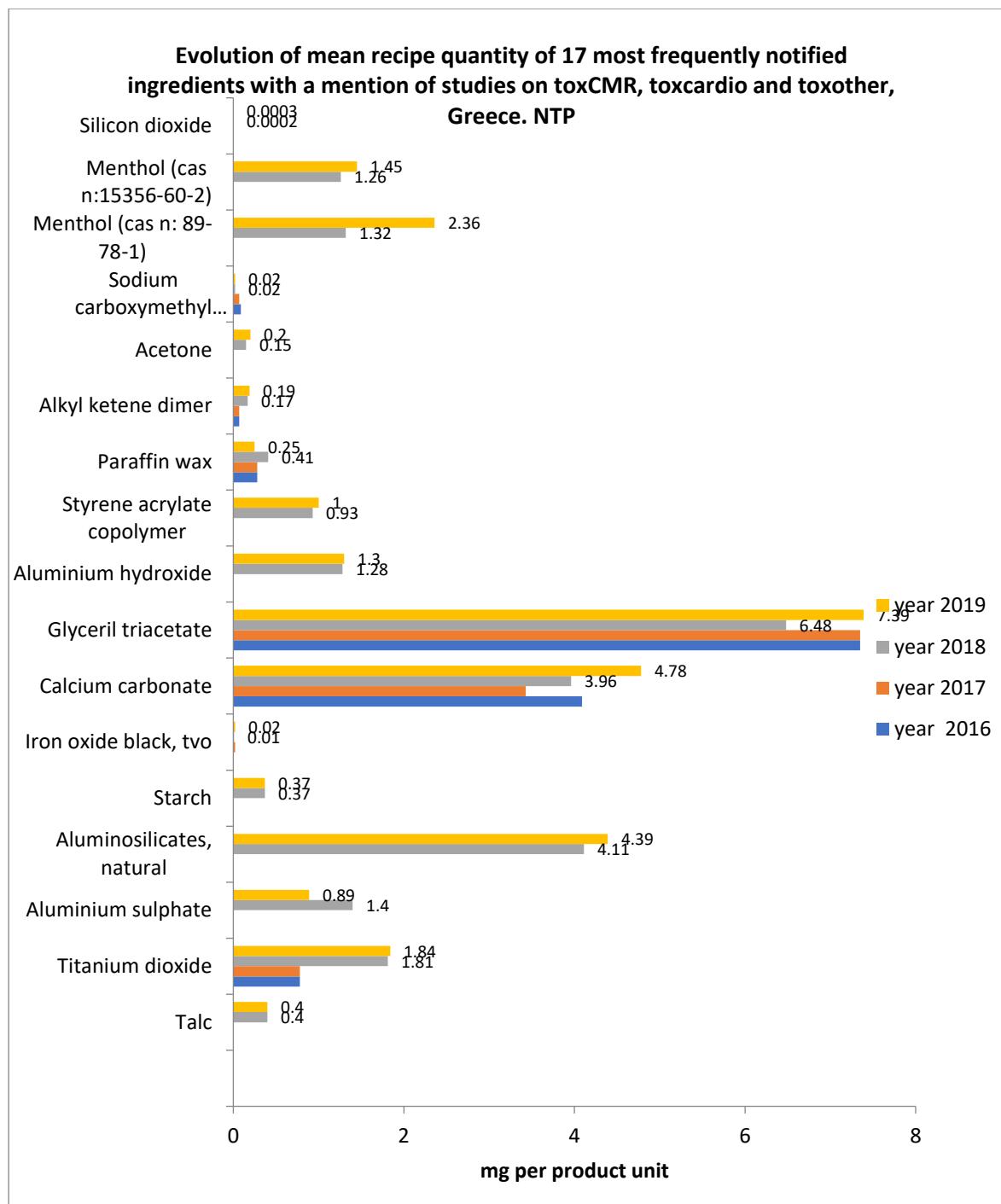
The 20 most frequent ingredients where the variables “existence of studies on toxCMR, on toxcardio, and on toxother” are notified as true are:

ES				GR			
Cas	Ingredients' name	Obs	%	Cas	Ingredients' name	Obs	%
121-33-5	Vanillin	7	6.3	65996-61-4	Cellulose fibre	480	10.
57-55-6	Propylene glycol	7	6.3	14807-96-6	Talc	275	5.8
9000-30-0	guar gum	7	6.3	13463-67-7	Titanium dioxide	239	5.0
9004-34-6	Cellulose	7	6.3	10043-01-3	Aluminium sulphate	211	4.4
56-81-5	Glycerol	6	5.4	1332-58-7	Aluminosilicates, natural	211	4.4
100-51-6	Phenylcarbinol	5	4.5	56-81-5	Glycerol	209	4.4
121-32-4	Ethyl vanillin	4	3.6	9005-84-9	Starch	187	3.9
23726-91-2	Beta-damascone	4	3.6	1317-61-9	Iron oxid black-TVO	165	3.5
80-56-8	Alpha-pinene	4	3.6	57-55-6	Propylene glycol	137	2.9
8046-19-3	Storax	4	3.6	471-34-1	Calcium carbonate	134	2.8
87-44-5	Beta-caryophyllene	4	3.6	102-76-1	Glyceryl triacetate	124	2.6
104-54-1	Styrylcarbinol	3	2.7	21645-51-2	Aluminium hydroxide	120	2.5
105-54-4	Ethyl butyrate	3	2.7	29497-08-3	Styrene acrylate	120	2.5

					copolymer		
106-33-2	Ethyl laureate	3	2.7	8002-74-2	Paraffin wak	120	2.5
104-61-0	Nonalactone (gamma)	2	1.8	84989-41-3	Alkyl ketene dimer	120	2.5
107-92-6	Butyric acid	2	1.8	67-64-1	Acetone	108	2.3
120-57-0	Piperonal	2	1.8	9004-32-4	Sodium carboxymethyl cellulose	91	1.9
513-86-0	Acetoin	2	1.8	89-78-1	Menthol	87	1.8
8006-82-4	Pepper oil, black	2	1.8	15356-60-2	Menthol	79	1.7
93-51-6	2-methoxy-4-methylphenol	2	1.8	7631-86-9	Silicon dioxide	77	1.6

**Evolution of mean recipe quantity of 16 most frequently notified ingredients with a mention of studies on toxCMR, toxcardio and toxother, Spain. NTP**





## 3.4.9.3 RYO

ES				GR			
CAS	Ingredients' name	Obs	%	CAS	Ingredients' name	Obs	%
57-55-6	Propylene glycol	229	18	57-55-6	Propylene glycol	129	17
532-32-1	Sodium benzoate	124	9.8	56-81-5	Glycerol	70	9.22
56-81-5	Glycerol	118	9.4	532-32-1	Sodium benzoate	63	8.3
121-33-5	Vanillin	100	7.9	65996-61-4	Cellulose fibre	63	8.3
65996-61-4	Cellulose fibre	78	6.2	64-19-7	Acetic acid	36	4.74
64-19-7	Acetic acid	48	3.8	8002-31-1	Cocoa extract (alt CAS No.)	30	3.95
100-52-7	Benzaldehyde	37	2.9	121-33-5	Vanillin	21	2.77
64-17-5	Ethyl Alcohol	37	2.9	84649-99-0	Cocoa extract	16	2.11
104-61-0	Nonalactone, gamma-	35	2.8	100-51-6	Benzyl alcohol	15	1.98
84649-99-0	Cocoa extract	34	2.7	68916-91-6	licorice extract	15	1.98
513-86-0	Acetoin	32	2.5	50-70-4	Sorbitol	14	1.84
8002-31-1	Cocoa extract (alt CAS No.)	27	2.1	57-50-1	sugar: sucrose	13	1.71
77-92-9	Citric acid	26	2.1	8013-17-0	Invert sugar	13	1.71
50-21-5	Lactic acid	24	1.9	8024 06 04	?	13	1.71
57-50-1	sugar: sucrose	22	1.7	8007-01-0	rose oil, bulgarian, true otto	10	1.32
		971	77			521	68.6

The cas numbers where studies on tox addictive are available in RYO are:

ES				GR			
CAS	Ingredients' name	Obs	%	CAS	Ingredients' name	Obs	%
8013-17-0	Invert sugar	47	33.81	8013-17-0	Invert sugar	45	55.56
5996 10 1	Dextrose (d-glucose monohydrate)	33	23.74	5996 10 1	Dextrose (d-glucose monohydrate)	35	43.21
57-55-6	Propylene glycol	15	10.79	100-51-6	Benzyl alcohol	1	1.23
121-33-5	Vanillin	11	7.91				
80-71-7	Methylcyclopentenolone	11	7.91				
100-51-6	Benzyl alcohol	7	5.04				
56-81-5	Glycerol	4	2.88				
98-86-2	Acetophenone	4	2.88				
22047-25-2	Acetylpyrazine, 2-	3	2.16				
68916-17-6	Cocoa	3	2.16				
64-17-5	Ethyl Alcohol	1	0.72				
Total		139	100	Total		81	100

### 3.5 Overall completeness of variables in data files

Data completeness of product data file					
Variable name	Spain	%	Greece	%	Comments
Total number of observations	7647		2440		
Product ID	7647	100	2440	100	
Submission type	7647	100	2440	100	
Submission start date	7647	100	2440	100	
Product id other	84	1.1	38	1.6	Filter variable for other tp-ids
Product same composition other	267	3.5	281	11.5	Filter variable for other tp-ids
Product type	7647	100	2440	100	
Product length	7732	75	2035	83	
Product diameter	5619	73.5	2019	82.7	
Product weight	7609	99.5	2440	100	
Product tobacco weight	7609	99.5	2440	100	
Product manufacturer	7647	100	2440	100	
Product filter	7614	99.6	2407	99.6	
Cigarette characterizing flavour	2523	33	1328	54.4	
Cigarette filter ventilation	2523	33	1328	54.4	
Cigarette filter drop pressure closed	2523	33	1328	54.4	
Cigarette filter drop pressure open	2523	33	1328	54.4	
Smokeless ph	38	0.5	30	1.2	
Smokeless nicotine content	25	0.3	19	0.8	
Roll your own pipe total nicotine	575	7.5	148	6.1	

Data completeness of TNCO presentations data file					
Variable name	Spain	%	Greece	%	Comments
Number of observations	13962		5097		
Product Id	13962	100	5097	100	
Brand name	0	0	5086	99,8	11 brand names entered as numbers
Brand subtype name	10566	75,7	3638	71,4	
Product launch date	13962	100	5097	100	
Product withdrawal	13962	100	5097	100	
Product withdrawal date	1330	100	1377	100	All registers with “true” withdrawal
Submitter number	13962	100	5097	100	
Product UPC number					
Product EAN number					
Product GTIN number					
Product SKU number					
Product National Market	13962	100	5097	100	
Product package type	13962	100	5097	100	Fields completed accurately and reliably
Product package units	13962	100	5097	100	Fields completed accurately and reliably
Product package net weight	3402	39,2	3430	80,5	

Data completeness of other ingredients data file					
Variable name	Spain	%	Greece	%	Comments
Number of observations	259,704		141,046		
Product Id	259,704	100	141,046	100	
Category	259,704	100	141,046	100	
Category other	4,758	1.8	1,240	0.9	Most of these entries relate to a function and
Name	259,704	100	141,046	100	
CAS number	249,308	96	136,821	97	
CAS additional	61,824	23.8	30,513	21.6	
FEMA number	67,306	25,9	26,160	18,5	
Additive number	42,553	16,4	20,384	14,5	
FL number	29,845	11,5	15,807	11,2	
EC number	102,978	39,7	46,475	33,0	
Quantity Fluctuate	259,704	100	141,046	100	
Recipe Quantity	259,704	100	141,046	100	
Recipe range min	80,098	30,8	53,464	37,9	
Recipe range max	109,546	42,2	46,243	32,8	
Measured mean quantity	259,704	100	141,046	100	
Measured SD	259,704	100	141,046	100	
Measured number	259,704	100	141,046	100	
Function	259,704	100	141,046	100	
Function other	0	0	0	0	
Tox data	259,704	100	141,046	100	
Tox emission	0	0	0	0	
Tox CMR	259,704	100	141,046	100	
Tox cardiopulmonary	259,704	100	141,046	100	
Tox addictive	259,704	100	141,046	100	
Tox other	259,704	100	141,046	100	

Data completeness of tobacco ingredients data file					
Variable name	Spain	%	Greece	%	Comments
Number of observations	24497		10954		
Product Id	24497	100	10954	100	
Tobacco part type	24497	100	10954	100	
Tobacco part type other	221	0.9	91	0.8	Filter variable: complementary
Tobacco leaf type	24497	100	10954	100	
Tobacco leaf type other	2972	12.1	1405	12.8	Filter variable: complementary
Tobacco leaf cure method	24497	100	10954	100	
Tobacco leaf cure method other	1928	7.9	1483	13.5	Filter variable: complementary
Tobacco quantity	24497	100	10954	100	

Data completeness of TNCO emissions data file					
Variable name	Spain	%	Greece	%	Comments
Number of observations	7655		2808		

Product Id	7655	100	2808	100	
TAR	3338	43.6	1505	53.6	
Nicotine	3395	44.3	1520	54.1	
CO	3229	42.2	1482	52.8	
TNCO lab	3034	39,6	1402	49,9	
CAS number	8	0,1	248	8,8	inconsistent
IUPAC number	0	0	360	12,8	
Quantity	0	0	368	13,2	Range (0 to 73.8)
Units	8	0,1	368	13,1	In mg/8 puffs

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## Summary of submissions and variables in the data files of each tobacco product

	N Variables	Chewing		Cigar		Cigarette		Cigarrillo		Herbal		Nasal		NTP		Other		Pipe		RYO		Waterpipe		All	
		Obs	%	Obs	%	Obs	%	Obs	%	Obs	%	Obs	%	Obs	%	Obs	%	Obs	%	Obs	%	Obs	%	Obs	%
PRODUCT-ES	22	47	2660	86	2522	66	425	63	52	53	16	76	9	7	23	49	253	92	324	72	1342	97	7648	76	
PRODUCT-GR	25	53	439	14	1327	34	250	37	46	47	5	24	127	93	24	51	23	8	126	28	48	3	2440	24	
PRODUCT-ALL	21	47	100	3099	100	3849	100	675	100	98	100	21	100	136	100	47	100	276	100	450	100	1390	100	10088	100
PRESENTATIONS-ES	29	46	3528	87	6088	63	700	65	56	53	16	76	12	9	25	49	540	96	1050	78	1918	96	13962	73	
PRESENTATIONS-GR	34	54	548	13	3529	37	375	35	50	47	5	24	127	91	26	51	23	4	294	22	86	4	5097	27	
PRESENTATIONS-ALL	19	63	100	4076	100	9617	100	1075	100	106	100	21	100	139	100	51	100	563	100	1344	100	2004	100	19059	100
INGREDIENTS-ES	356	42	10638	77	189424	64	23498	62	367	25	265	88	645	7	416	50	12889	87	5557	69	15649	96	259704	65	
INGREDIENTS-GR	491	58	3159	23	107232	36	14309	38	1101	75	36	12	9262	93	416	50	1940	13	2509	31	591	4	141046	35	
INGREDIENTS-ALL	29	847	100	13797	100	296656	100	37807	100	1468	100	301	100	9907	100	832	100	14829	100	8066	100	16240	100	400750	100
TOBAC_INGRED-ES	43	39	3814	85	15172	64	1154	66	129	74	42	76	38	16	23	45	1499	90	1230	69	1352	97	24496	69	
TOBAC_INGRED-GR	67	61	678	15	8575	36	590	34	46	26	13	24	199	84	28	55	159	10	551	31	48	3	10954	31	
TOBAC_INGRED-ALL	12	110	100	4492	100	23747	100	1744	100	175	100	55	100	237	100	51	100	1658	100	1781	100	1400	100	35450	100
EMISSIONS-ES					2522	66						17	3							324	72			2863	60
EMISSIONS-GR					1327	34						495	97							126	28			1948	40
EMISSIONS-ALL	14	0	0	0	0	3849	100	0	0	0	0	0	512	100	0	0	0	0	450	100	0	0	4811	100	

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