TR 7837 MANUAL

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SAS au capital de 1 650 000 euros – RCS Saint-Etienne 790 833 404/ APE: 2651B / SIRET : 790 833 404 00011
TVA Intracommunautaire: FR 19790833404

1 OVERVIEW

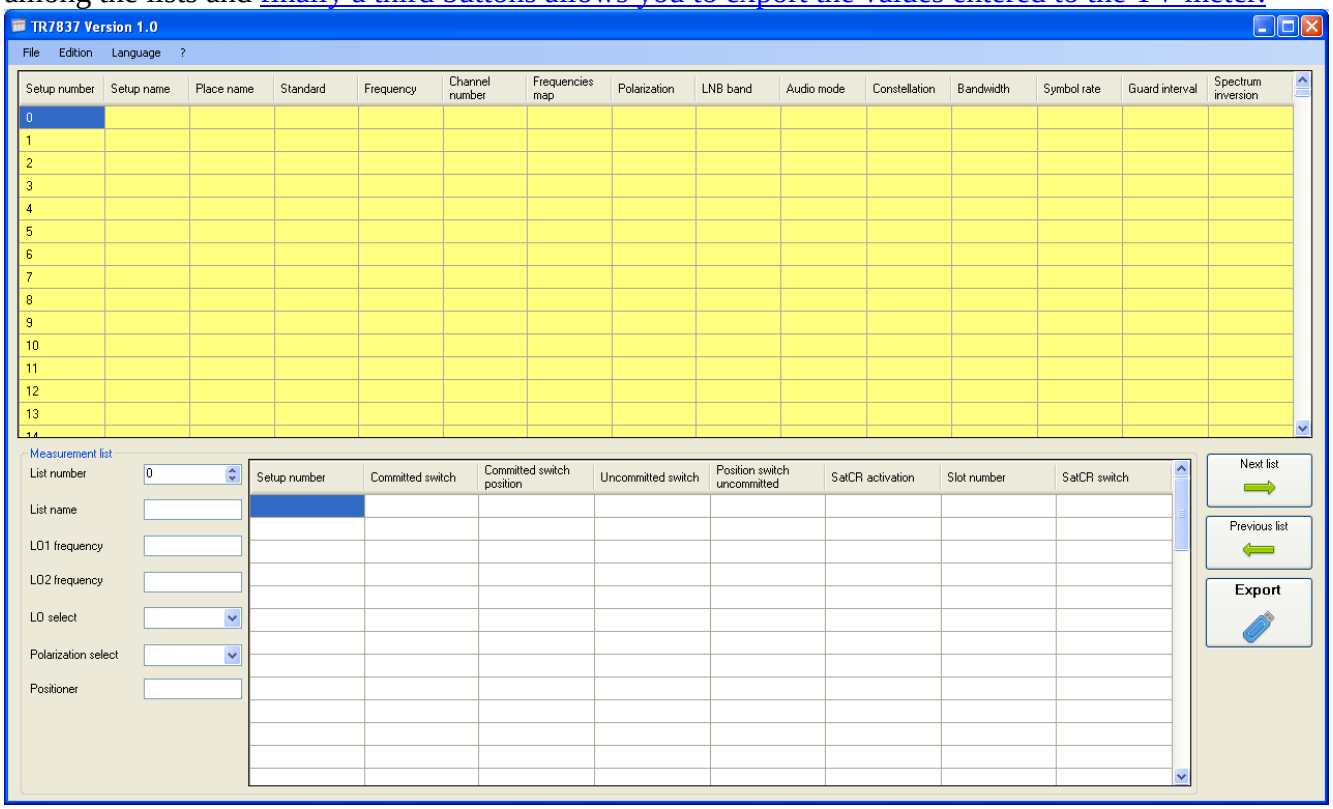
This software allows you to set more easily a TV meter setup.

The main page has three paragraphs:

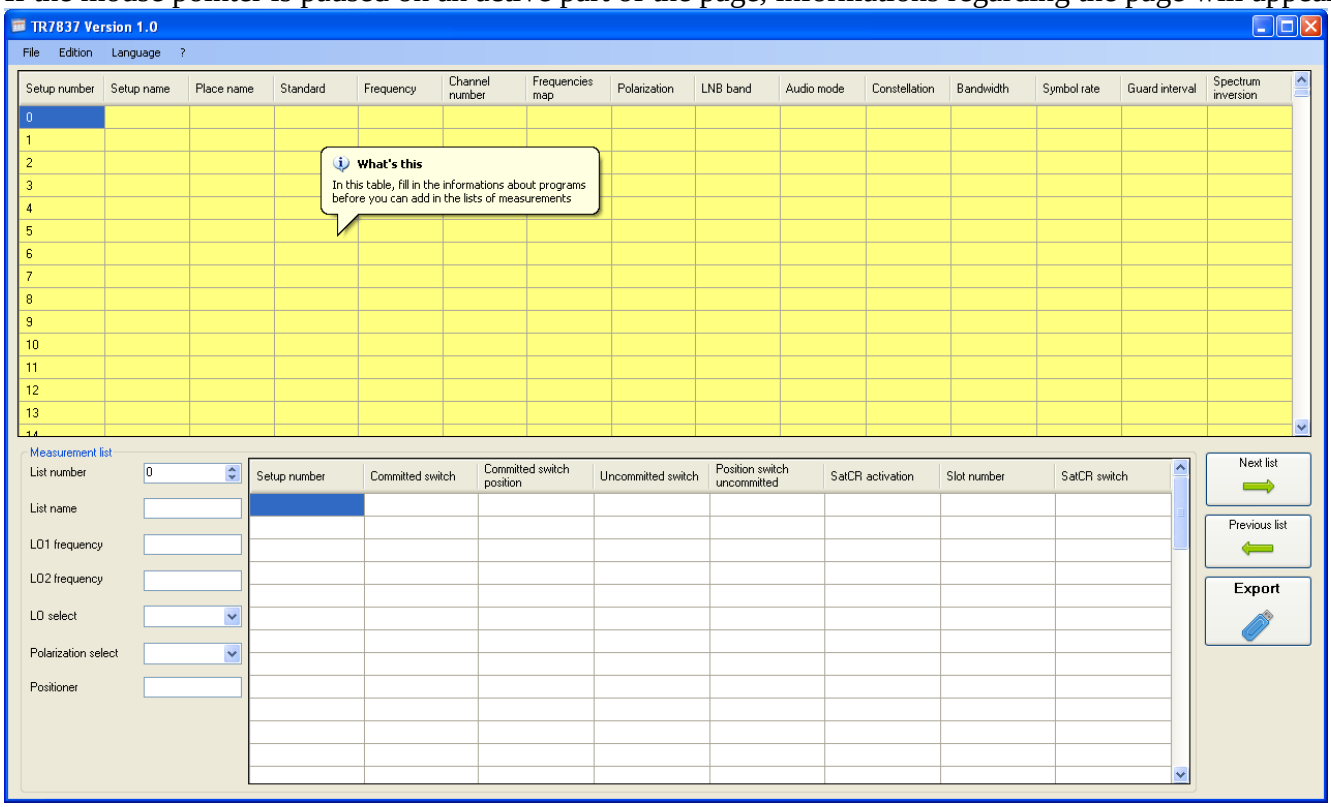
A menu wich allows you to access the different functions ,

A first table, with a yellow background, has a list of setups

A second table, with a white background, has a list of measurements among the twenty possible measurements, on the left there's the parameters of each list, on the right 2 buttons allows you to browse among the lists and finally a third buttons allows you to export the values entered to the TV meter.



If the mouse pointer is paused on an active part of the page, informations regarding the page will appear.



2 LIBRARY, LIST OF MEASUREMENTS

In order to make easier the recall of data in the field, the instrument uses a library of 1000 setups and 20 lists of measurements with 50 lines.

A setup corresponds to a terrestrial, cable or satellite broadcast, the parameters of a setup depend only on the broadcaster.
Example : in order to free a frequency band for the 4G (LTE) telephony the terrestrial frequencies had to be modified, the library has to be updated.

A list of measurements corresponds to a terrestrial, cable or satellite or mixed reception.
The parameters of a list depends on how the reception is performed and obviously on the setups which have to be received.
To create a list, you have to choose several setups previously entered in the library and then define the reception parameters.
Example : in the case of a two satellites ASTRA HOTBIRD reception you have to choose some ASTRA setups, some HOTBIRD setups, define the high and low frequencies of LNB, indicate the type of switch used and then assign in the table the ASTRA setups to a switch position and the HOT BIRD setups to another.

The same setup can be used in several lists of measurements.
A setup can use 2 satellite dishes : ASTRA 19.2 in DiSEqC position A and HOT BIRD 13 in DiSEqC position B.
Another can use 3 satellite dishes : ATLANTIC BIRD 3 in DiSEqC position A, ASTRA 1 in DiSEqC position B and HOT BIRD in DiSEqC position C.
The same setup can be used several times in the same list of measurements : ZDF SatCR slot 0, ZDF SatCR slot 1, ZDF SatCR slot 2, ZDF SatCR slot 3 the aim is to check quickly all the slots of a SatCR equipment.

If a parameter of a setup changes, for example a modification of rate or change from DVB-S to DVB-S2, only the setup inside the library should be updated, the lists of measurements which include this setup will be operational again.

3 LIBRARY OF SETUPS

A setup is made of :
a setup name in 8 characters
a place name in 10 characters
a standard
a frequency
a channel number in terrestrial or cable mode

a frequency map in terrestrial or cable mode

a vertical or horizontal polarization in satellite mode

a low or high LNB band in satellite mode

an analogical mono stereo or NICAM audio mode in terrestrial or cable mode

a constellation type 64QAM 256QAM under DVB-C and MCNS

a 5, 6, 7 or 8 MHz bandwidth under DVB-T and DVB-T2

a symbol rate under DVB-C, MCNS, DVB-S, DVB-S2 or DSS

a value for the guard interval under DVB-T and DVB-T2

the inversion or not of the spectrum under DVB-T

According to the terrestrial, cable or satellite band mode and to the standard, some parameters have no influence, they appear in grey in the table.
The place name may distinguish two distinct emitters, example TF1 Paris and TF1 Versailles.
The frequency map parameter associated with the setup allows inhabitants of neighboring countries to keep on using channel numbers.

4 LISTS OF MEASUREMENTS

A list of measurement is made of :
a list name in 10 characters
the low band frequency mixer of the LNB (LO1)
the high band frequency mixer of the LNB (LO2)
the selection mode low band / high band of the LNB
the selection mode of the polarization
the presence of the position number of the positioner (motorized satellite dish)
50 lines including each:
a setup number corresponding to the setup list
the presence and the functioning mode of the switch, committed type
the position of the switch, committed type
the presence and the functioning mode of the switch, uncommitted type
the position of the switch, uncommitted type
the presence of SatCR equipment
the SatCR slot number
the position of the SatCR switch

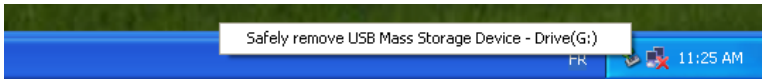
A few of these parameters are specific to the satellite band and have no influence in terrestrial and cable bands

5 EXPORT KEY

This key generates, on an USB memory stick, a setup file compatible with the TV meter.

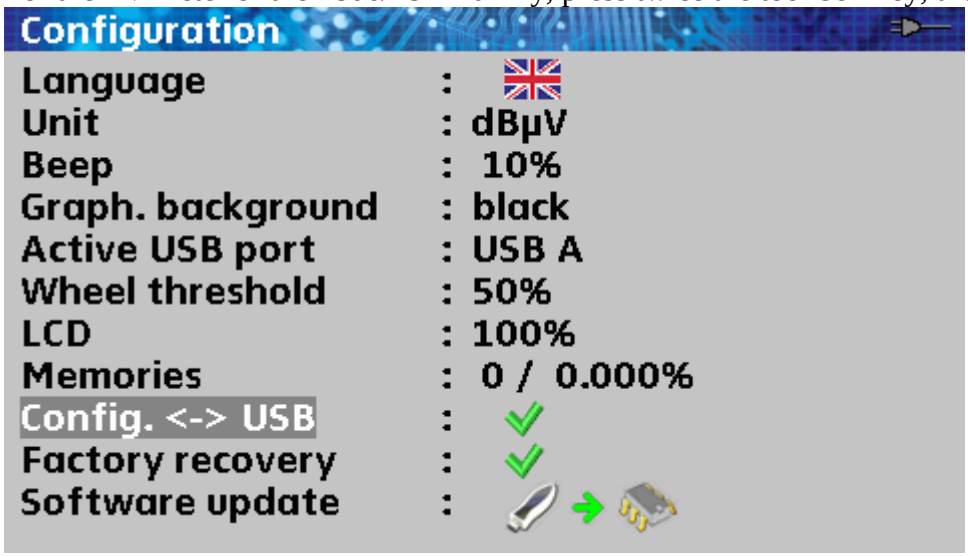
After entering all the data, click on this button 

Finally eject the USB memory stick from the computer.



5.1 TV meter from the 7806 – 7847 family

For the TV meter of the 7806/7847 family, press twice the tool box key, the following page will appear :



Turn the wheel until the line « Config. <-> USB » is selected

Insert the USB memory stick and confirm.

	Check that the USB port enabled is the USB port A.

5.2 7817 and 7849 TV meters

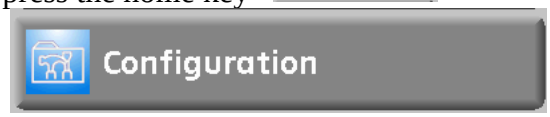
Press the home key 

The Home page will appear:

Finally press the “Configuration import” key 

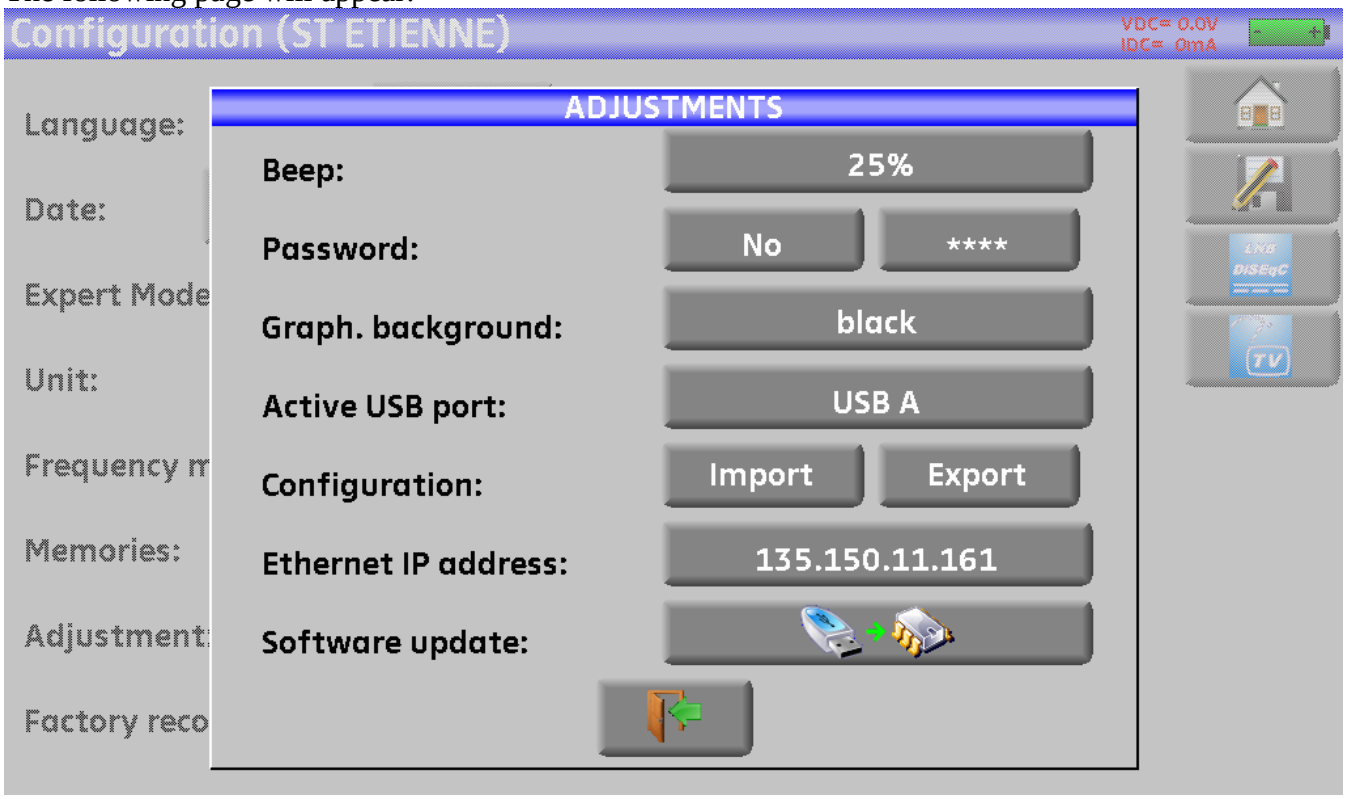
5.3 TV meter from the 7870 family

For TV meters from the 7870 family, press the home key 

Then press the Configuration key 

And then press the adjustments key 

The following page will appear:



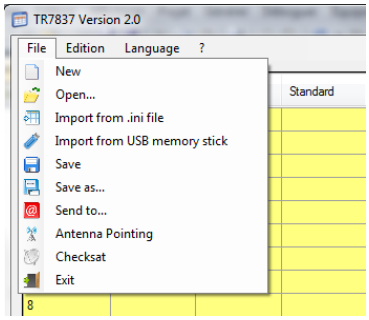
Insert the USB memory stick

Finally press the “Import” key 

☝	Check that the USB port enabled is the USB port A

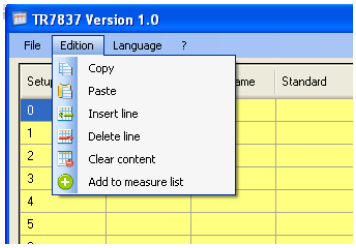
6 MENUS

6.1 File Menu



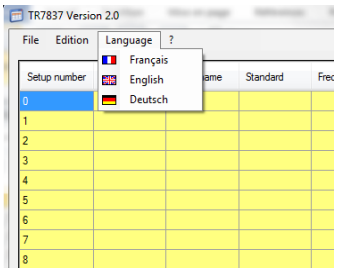
New allows you to initialize all the parameters.
Open allows you to open a configuration file.
Import from .ini file allows you to import in the library the data from an .ini. file.
Import from USB memory stick allows you to import in the library, the lists and the Checksat, the data from the export of the TV meter configuration.
Save allows you to save the data previously entered in the curent file.
Save as allows you to save the date previously entered in the desired file.
Send to allows you to attach the file to an email and to send it as attached document.
Antenna Pointing opens the table of the antenna pointing parameters.
Checksat opens the table of the checksat parameters.
Exit allows you to close the application.

6.2 Edition Menu



Copy allows you to copy in the clipboard the data selected with the mouse.
Paste allows you to paste the content of the clipboard to the location of the mouse cursor.
Insert line allows you to insert a line in the table above the cursor.
Delete line allows you to remove the line pointed by the cursor in the table.
Clear content allows you to erase the data selected with the mouse.
Add to measure list allows you to add the selected setup(s) from the library, to the place of the selected line of the list of measurements.

6.3 Language Menu



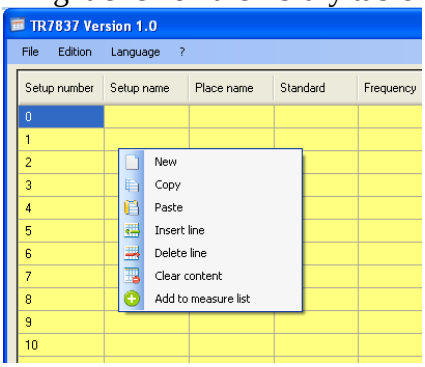
Français allows you to choose the French language for the software interface.
English allows you to choose then English language.
Deutch allows you to choose then German language.

6.4 Help Menu ?

Allows you to display, like the F1 key, this help file.

6.5 Library popup menu

A right click on the library table will display the following menu :

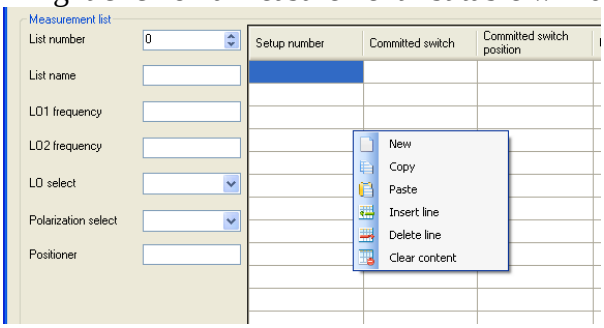


New allows you to initialize the library setups only
Copy allows you to copy in the clipboard the selected data with the mouse.
Paste allows you to paste the content of the clipboard in the location of the cursor.
Insert line allows you to insert an empty line in the library above the cursor.
Delete line allows you to delete the line pointed by the cursor in the library.
Clear content allows you to clear the selected date with the mouse.
Add to measure list allows you to add the setup(s) selected from the library, to the place of the selected line of the list of measure.

	When a line is inserted or deleted in the library, measure lists are updated automatically.

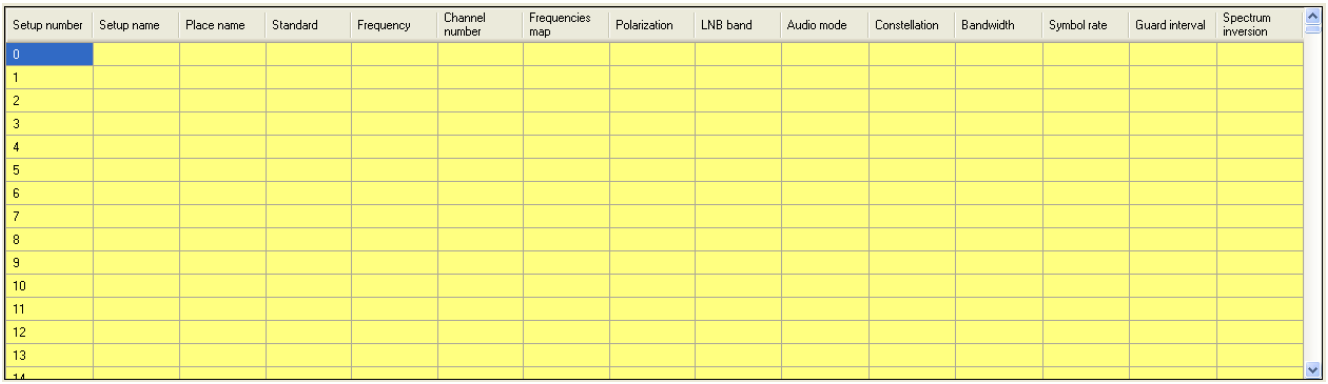
6.6 Measurement list popup menu

A right click on a measurement list table will display the following menu :



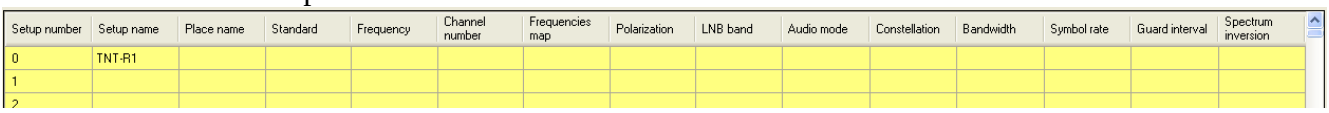
New allows you to initialize the setups of the measurement list only.
Copy allows you to copy in the clipboard the data selected with the mouse.
Paste allows you to paste the content of the clipboard to the place of the cursor.
Insert line allows you to insert an empty line in the list above the cursor.
Delete line allows you to delete the line pointed by the cursor in the library.
Clear content allows you to clear the data selected with the mouse.

7 SETUP LIBRARY TABLE



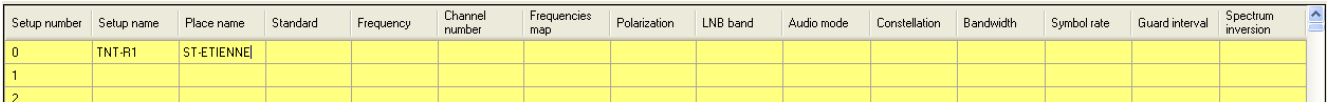
Setup number	Setup name	Place name	Standard	Frequency	Channel number	Frequencies map	Polarization	LNB band	Audio mode	Constellation	Bandwidth	Symbol rate	Guard interval	Spectrum inversion
0														
1														
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														

This table allows you to indicate the parameters of each setup
Give a name to the setup



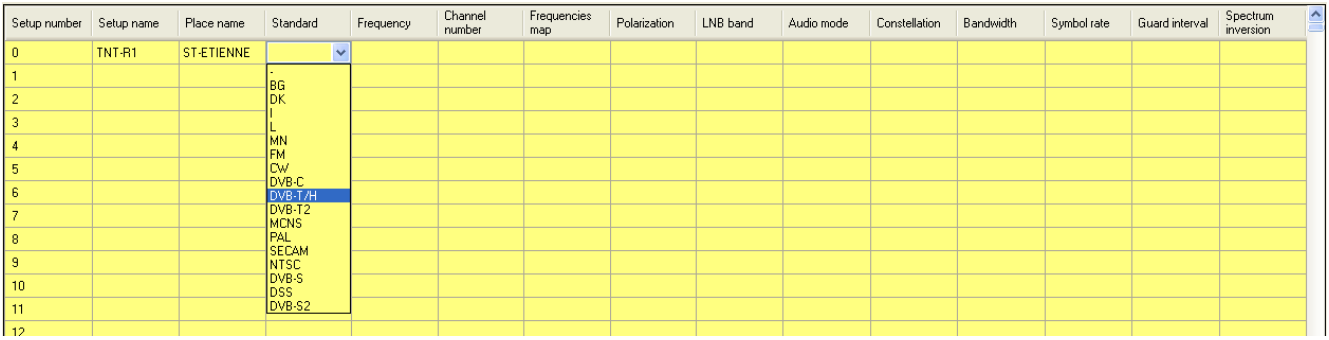
Setup number	Setup name	Place name	Standard	Frequency	Channel number	Frequencies map	Polarization	LNB band	Audio mode	Constellation	Bandwidth	Symbol rate	Guard interval	Spectrum inversion
0	TNT-R1													
1														
2														

And a name to the place

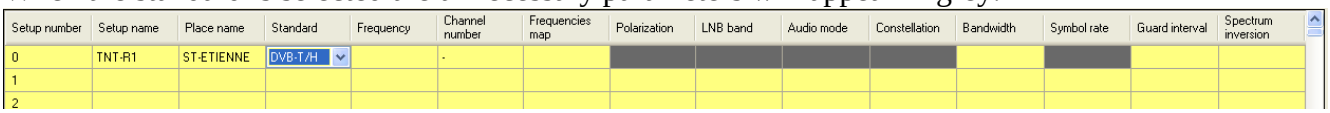


Setup number	Setup name	Place name	Standard	Frequency	Channel number	Frequencies map	Polarization	LNB band	Audio mode	Constellation	Bandwidth	Symbol rate	Guard interval	Spectrum inversion
0	TNT-R1	ST-ETIENNE												
1														
2														

Choose a standard from the list

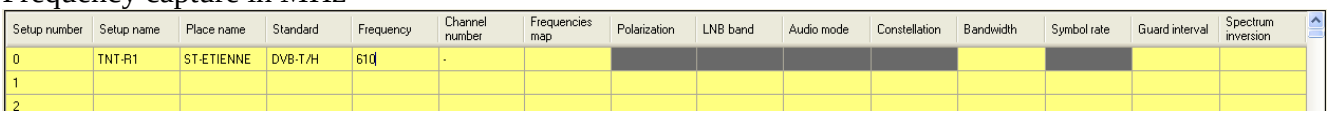


When the standard is selected the unnecessary parameters will appear in grey:



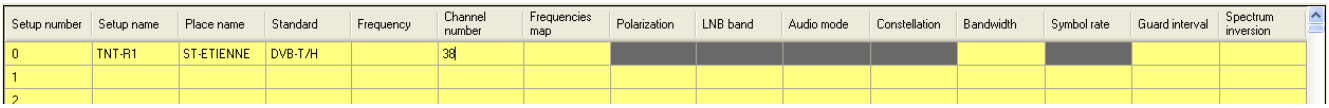
Setup number	Setup name	Place name	Standard	Frequency	Channel number	Frequencies map	Polarization	LNB band	Audio mode	Constellation	Bandwidth	Symbol rate	Guard interval	Spectrum inversion
0	TNT-R1	ST-ETIENNE	DVB-T/H		-									
1														
2														

Now two choices are possible : frequencies map or channel number capture
Frequency capture in MHz



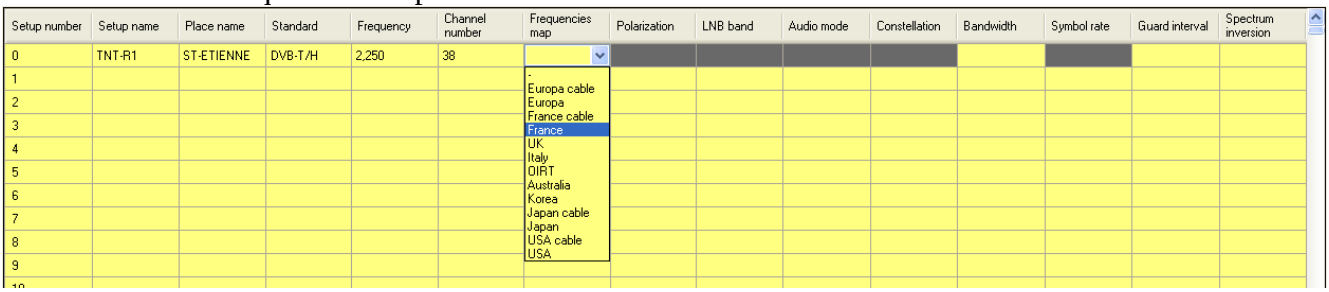
Setup number	Setup name	Place name	Standard	Frequency	Channel number	Frequencies map	Polarization	LNB band	Audio mode	Constellation	Bandwidth	Symbol rate	Guard interval	Spectrum inversion
0	TNT-R1	ST-ETIENNE	DVB-T/H	610	-									
1														
2														

Or channel number capture



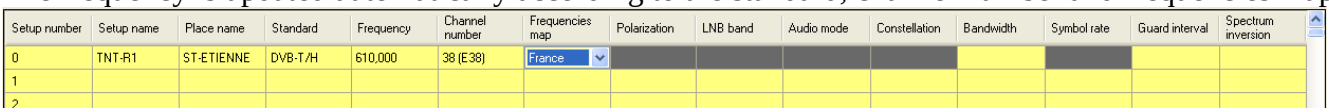
Setup number	Setup name	Place name	Standard	Frequency	Channel number	Frequencies map	Polarization	LNB band	Audio mode	Constellation	Bandwidth	Symbol rate	Guard interval	Spectrum inversion
0	TNT-R1	ST-ETIENNE	DVB-T/H		38									
1														
2														

Then choose the frequencies map from the list



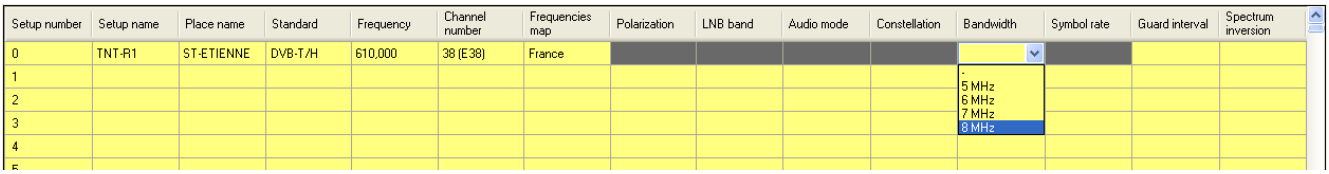
Setup number	Setup name	Place name	Standard	Frequency	Channel number	Frequencies map	Polarization	LNB band	Audio mode	Constellation	Bandwidth	Symbol rate	Guard interval	Spectrum inversion
0	TNT-R1	ST-ETIENNE	DVB-T/H	2,250	38									
1						-								
2						Europa cable								
3						Europa								
4						France cable								
5						France								
6						UK								
7						Italy								
8						OIRT								
9						Australia								
						Korea								
						Japan cable								
						Japan								
						USA cable								
						USA								

The frequency is updated automatically according to the standard, channel number and frequencies map.



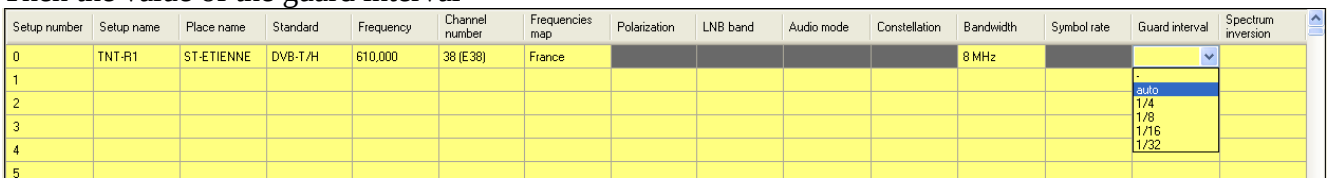
Setup number	Setup name	Place name	Standard	Frequency	Channel number	Frequencies map	Polarization	LNB band	Audio mode	Constellation	Bandwidth	Symbol rate	Guard interval	Spectrum inversion
0	TNT-R1	ST-ETIENNE	DVB-T/H	610,000	38 (E38)	France								
1														
2														

Choose the bandwidth from the list

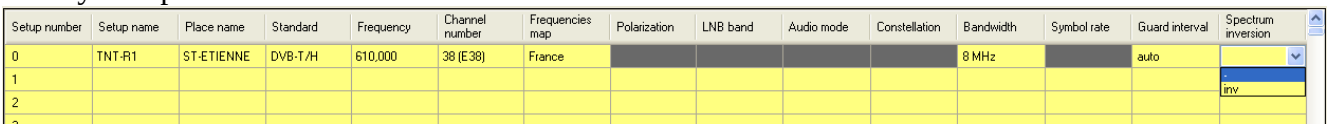


Setup number	Setup name	Place name	Standard	Frequency	Channel number	Frequencies map	Polarization	LNB band	Audio mode	Constellation	Bandwidth	Symbol rate	Guard interval	Spectrum inversion
0	TNT-R1	ST-ETIENNE	DVB-T/H	610,000	38 (E38)	France								
1											-			
2											5 MHz			
3											6 MHz			
4											7 MHz			
5											8 MHz			

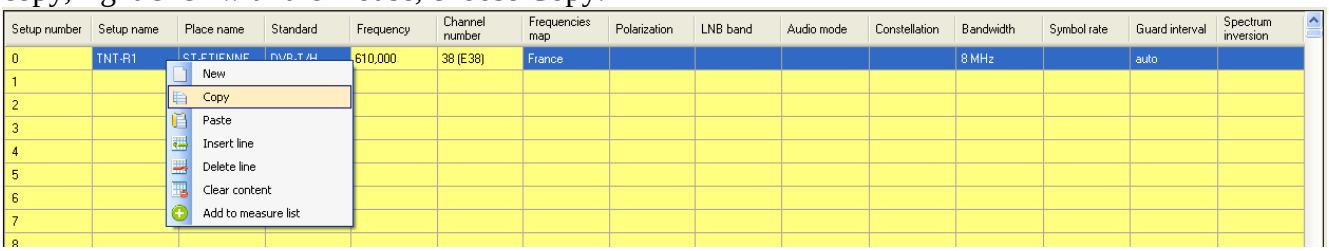
Then the value of the guard interval



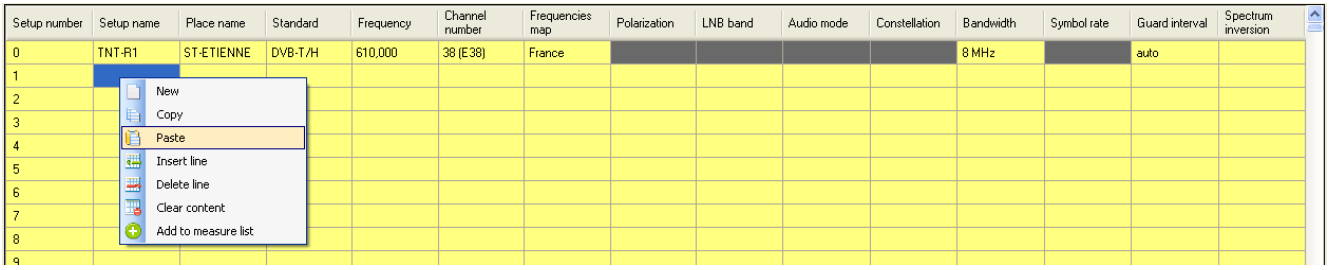
Finally the spectrum inversion or not



If several setups have common features the copy/paste function can be interesting, select the cells to copy, right click with the mouse, choose Copy.



Move the cursor of the mouse on the desired cell, choose Paste



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TVA Intracommunautaire: FR 19790833404

Result

Setup number	Setup name	Place name	Standard	Frequency	Channel number	Frequencies map	Polarization	LNB band	Audio mode	Constellation	Bandwidth	Symbol rate	Guard interval	Spectrum inversion
0	TNT-R1	ST-ETIENNE	DVB-T/H	610,000	38 (E38)	France					8 MHz		auto	
1	TNT-R1	ST-ETIENNE	DVB-T/H			France					8 MHz		auto	
2														
3														

Modify and add the missing values

Setup number	Setup name	Place name	Standard	Frequency	Channel number	Frequencies map	Polarization	LNB band	Audio mode	Constellation	Bandwidth	Symbol rate	Guard interval	Spectrum inversion
0	TNT-R1	ST-ETIENNE	DVB-T/H	610,000	38 (E38)	France					8 MHz		auto	-
1	TNT-R2	ST-ETIENNE	DVB-T/H	658,000	44 (E44)	France					8 MHz		auto	-
2														
3														

Repeat the operation as many time as you want

Setup number	Setup name	Place name	Standard	Frequency	Channel number	Frequencies map	Polarization	LNB band	Audio mode	Constellation	Bandwidth	Symbol rate	Guard interval	Spectrum inversion
0	TNT-R1	ST-ETIENNE	DVB-T/H	610,000	38 (E38)	France					8 MHz		auto	-
1	TNT-R2	ST-ETIENNE	DVB-T/H	658,000	44 (E44)	France					8 MHz		auto	-
2	TNT-R3	ST-ETIENNE	DVB-T/H	778,000	59 (E59)	France					8 MHz		auto	-
3	TNT-R4	ST-ETIENNE	DVB-T/H	626,000	40 (E40)	France					8 MHz		auto	-
4	TNT-HD	ST-ETIENNE	DVB-T/H	698,000	49 (E49)	France					8 MHz		auto	-
5	TNT-R6	ST-ETIENNE	DVB-T/H	674,000	46 (E46)	France					8 MHz		auto	-
6														
7														

Now it is possible to create anoter place using the previous one using copy/paste/modify.
Copy

Setup number	Setup name	Place name	Standard	Frequency	Channel number	Frequencies map	Polarization	LNB band	Audio mode	Constellation	Bandwidth	Symbol rate	Guard interval	Spectrum inversion
0	TNT-R1	ST-ETIENNE	DVB-T/H	610,000	38 (E38)	France					8 MHz		auto	-
1	TNT-R2	ST-ETIENNE	DVB-T/H	658,000	44 (E44)	France					8 MHz		auto	-
2	TNT-R3	ST-ETIENNE	DVB-T/H	778,000	59 (E59)	France					8 MHz		auto	-
3	TNT-R4	ST-ETIENNE	DVB-T/H	626,000	40 (E40)	France					8 MHz		auto	-
4	TNT-HD	ST-ETIENNE	DVB-T/H	698,000	49 (E49)	France					8 MHz		auto	-
5	TNT-R6	ST-ETIE			46 (E46)	France					8 MHz		auto	-
6														
7														
8														
9														
10														
11														
12														
13														

Paste

Setup number	Setup name	Place name	Standard	Frequency	Channel number	Frequencies map	Polarization	LNB band	Audio mode	Constellation	Bandwidth	Symbol rate	Guard interval	Spectrum inversion
0	TNT-R1	ST-ETIENNE	DVB-T/H	610,000	38 (E38)	France					8 MHz		auto	-
1	TNT-R2	ST-ETIENNE	DVB-T/H	658,000	44 (E44)	France					8 MHz		auto	-
2	TNT-R3	ST-ETIENNE	DVB-T/H	778,000	59 (E59)	France					8 MHz		auto	-
3	TNT-R4	ST-ETIENNE	DVB-T/H	626,000	40 (E40)	France					8 MHz		auto	-
4	TNT-HD	ST-ETIENNE	DVB-T/H	698,000	49 (E49)	France					8 MHz		auto	-
5	TNT-R6	ST-ETIENNE	DVB-T/H	674,000	46 (E46)	France					8 MHz		auto	-
6														
7	TNT-R1	ST-ETIENNE	DVB-T/H	610,000	38 (E38)	France					8 MHz		auto	-
8	TNT-R2	ST-ETIENNE	DVB-T/H	658,000	44 (E44)	France					8 MHz		auto	-
9	TNT-R3	ST-ETIENNE	DVB-T/H	778,000	59 (E59)	France					8 MHz		auto	-
10	TNT-R4	ST-ETIENNE	DVB-T/H	626,000	40 (E40)	France					8 MHz		auto	-
11	TNT-HD	ST-ETIENNE	DVB-T/H	698,000	49 (E49)	France					8 MHz		auto	-
12	TNT-R6	ST-ETIENNE	DVB-T/H	674,000	46 (E46)	France					8 MHz		auto	-
13														

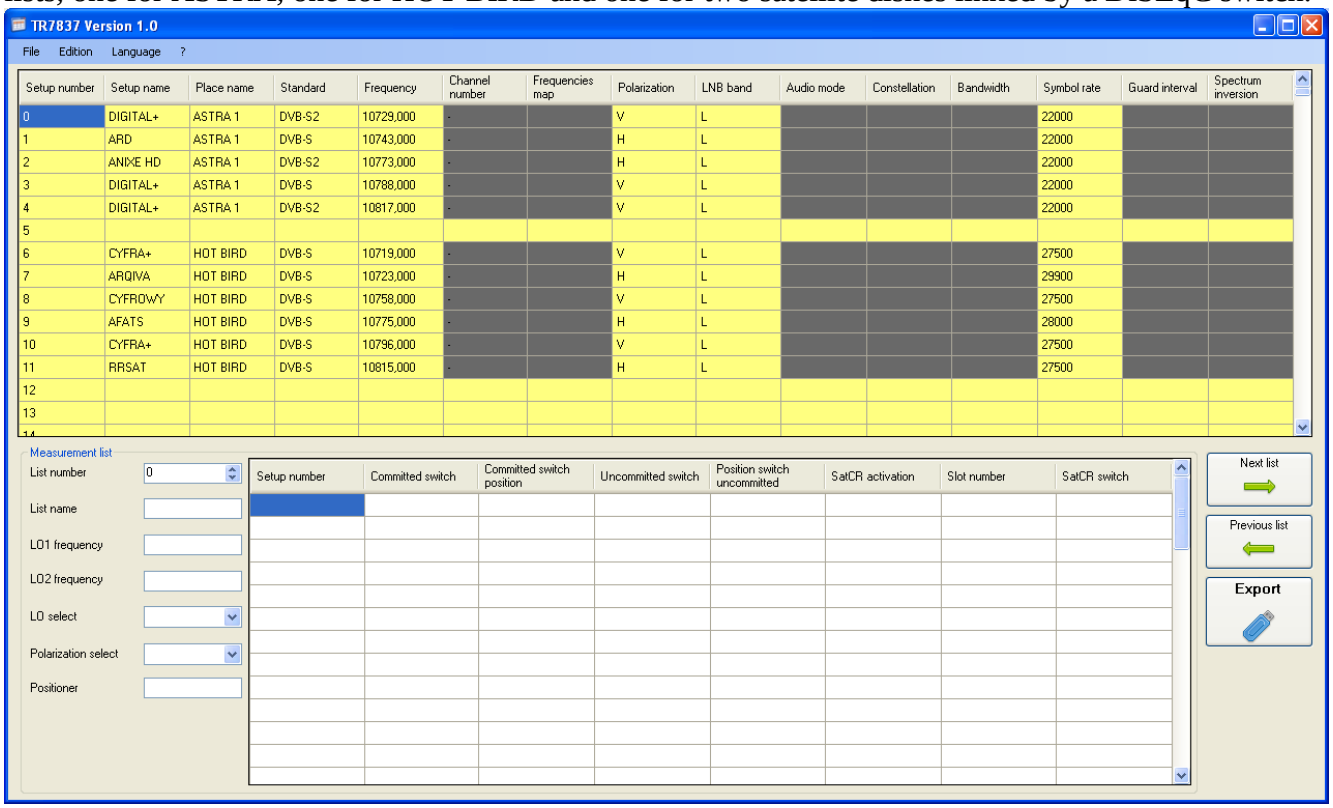
Modify

Setup number	Setup name	Place name	Standard	Frequency	Channel number	Frequencies map	Polarization	LNB band	Audio mode	Constellation	Bandwidth	Symbol rate	Guard interval	Spectrum inversion
0	TNT-R1	ST-ETIENNE	DVB-T/H	610,000	38 (E38)	France					8 MHz		auto	-
1	TNT-R2	ST-ETIENNE	DVB-T/H	658,000	44 (E44)	France					8 MHz		auto	-
2	TNT-R3	ST-ETIENNE	DVB-T/H	778,000	59 (E59)	France					8 MHz		auto	-
3	TNT-R4	ST-ETIENNE	DVB-T/H	626,000	40 (E40)	France					8 MHz		auto	-
4	TNT-HD	ST-ETIENNE	DVB-T/H	698,000	49 (E49)	France					8 MHz		auto	-
5	TNT-R6	ST-ETIENNE	DVB-T/H	674,000	46 (E46)	France					8 MHz		auto	-
6														
7	TNT-R1	PILAT	DVB-T/H	650,000	43 (E43)	France					8 MHz		auto	-
8	TNT-R2	PILAT	DVB-T/H	658,000	44 (E44)	France					8 MHz		auto	-
9	TNT-R3	PILAT	DVB-T/H	778,000	59 (E59)	France					8 MHz		auto	-
10	TNT-R4	PILAT	DVB-T/H	626,000	40 (E40)	France					8 MHz		auto	-
11	TNT-HD	PILAT	DVB-T/H	698,000	49 (E49)	France					8 MHz		auto	-
12	TNT-R6	PILAT	DVB-T/H	674,000	46 (E46)	France					8 MHz		auto	-
13														

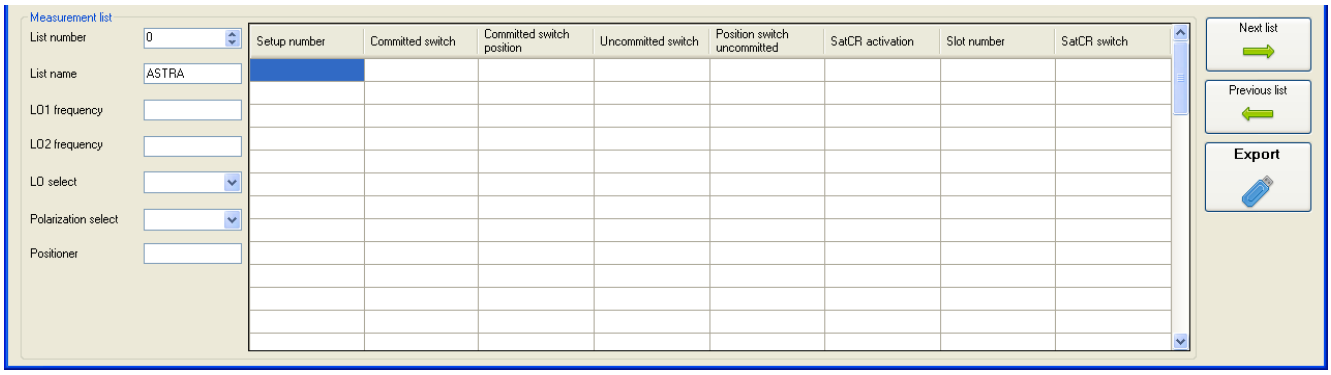
Only the place name and the R1 multiplex had to be modified for this example.
For the cable setup follow the same method.
For the satellite setups it is easier to modify from Import from an .ini. file but this method is also possible.

8 MEASUREMENT LIST TABLE

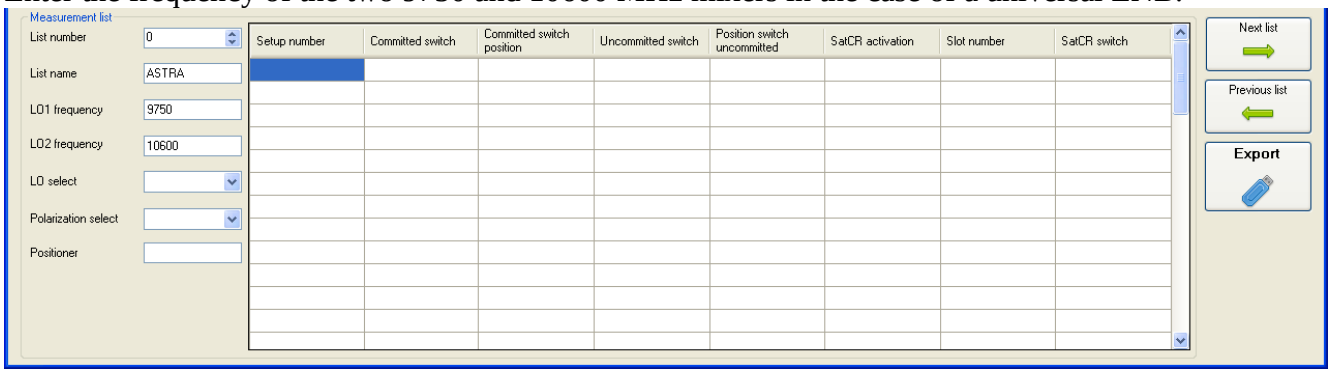
From a setup library which contains ASTRA and HOT BIRD setups : creation of three measurement lists, one for ASTRA, one for HOT BIRD and one for two satellite dishes linked by a DiSEqC switch.



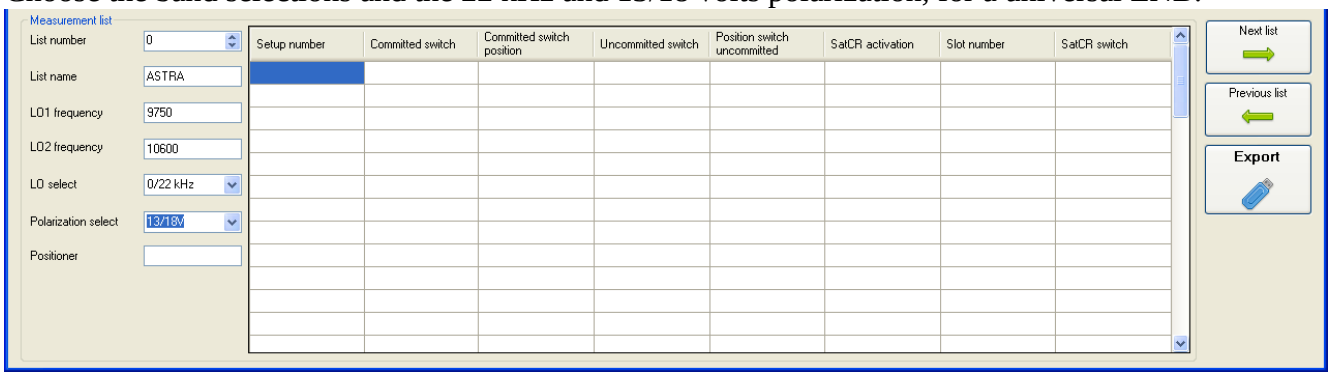
Enter the name of the first list : ASTRA.



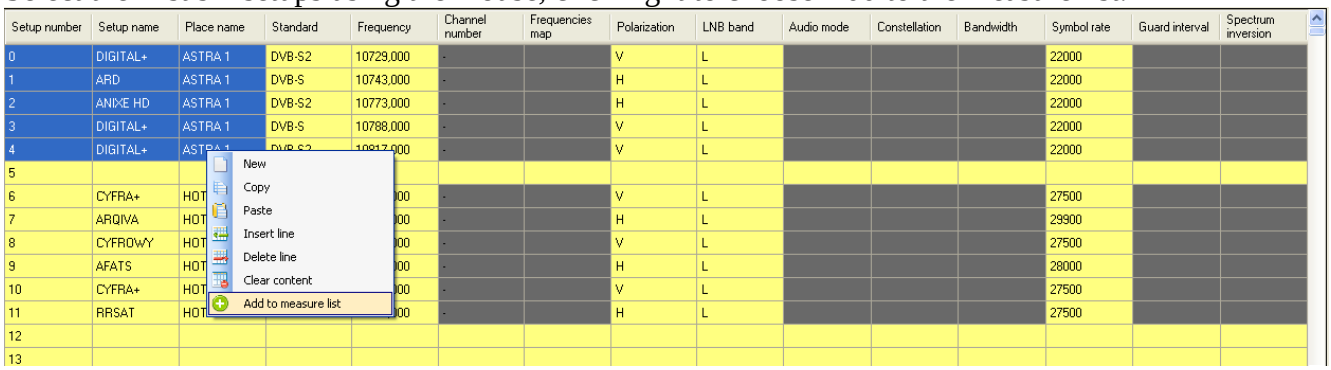
Enter the frequency of the two 9750 and 10600 MHz mixers in the case of a universal LNB.



Choose the band selections and the 22 kHz and 13/18 volts polarization, for a universal LNB.



You just have to add setups in the measurement list from the library
Select the first six setups using the mouse, click right to choose Add to the measure list.



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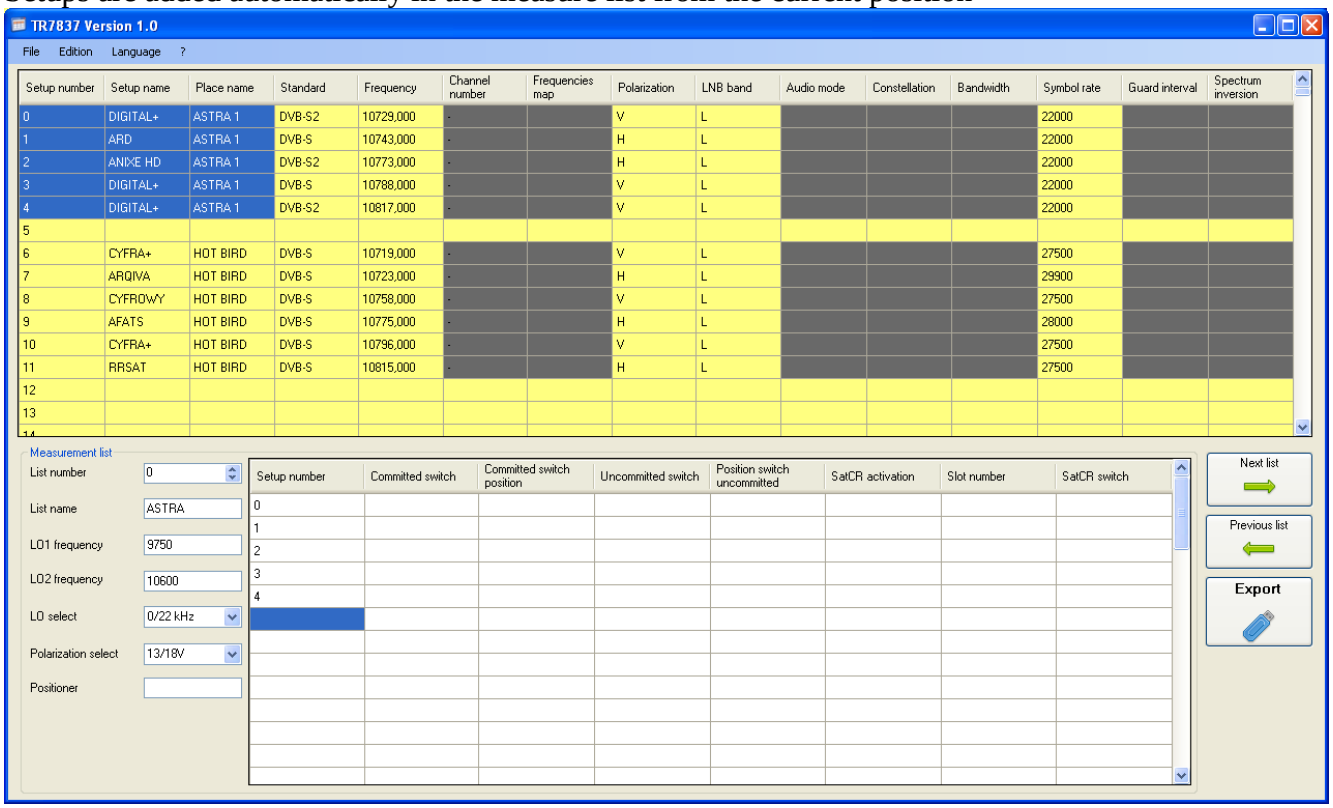
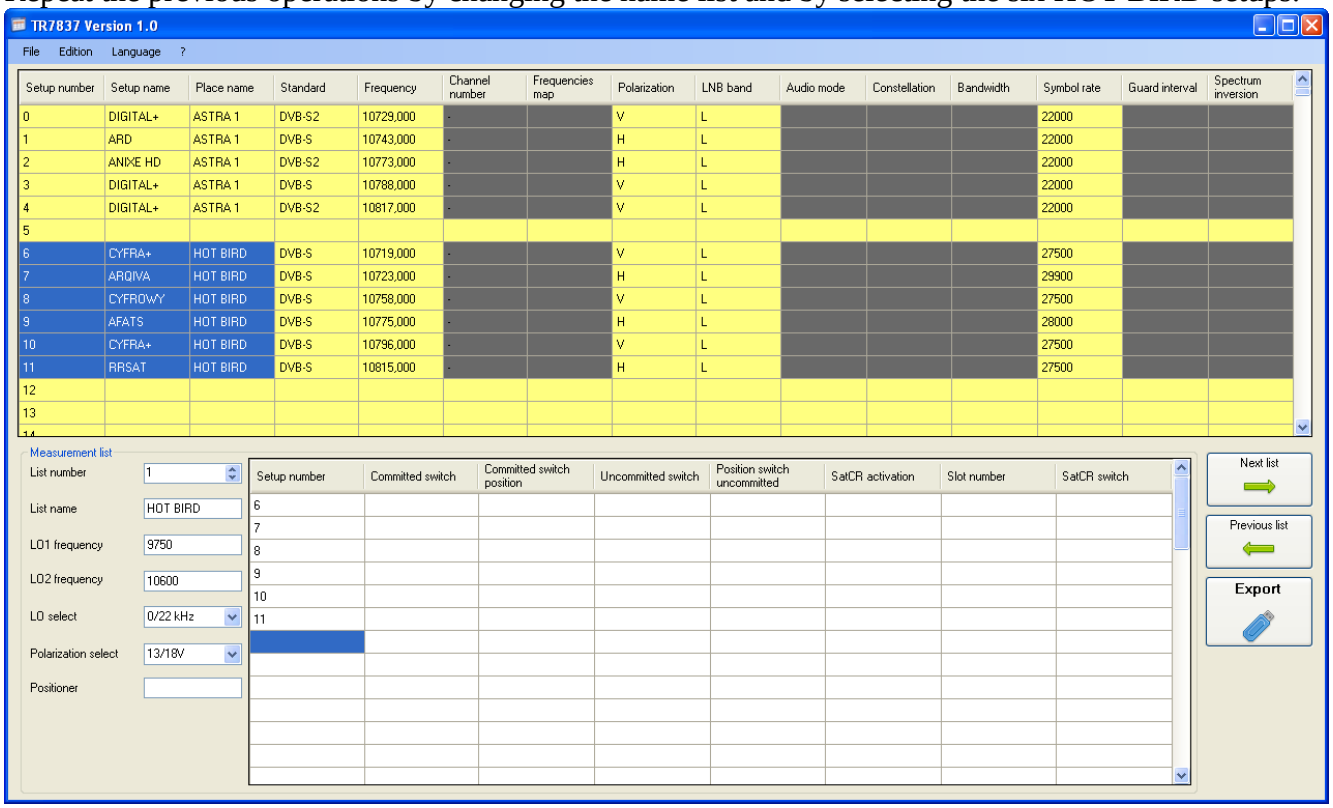
Setups are added automatically in the measure list from the current position



In the case of a simple installation with a single satellite dish, there is no other parameter to enter.
Click on the Next list button to create a HOT BIRD measurement list

Repeat the previous operations by changing the name list and by selecting the six HOT BIRD setups.

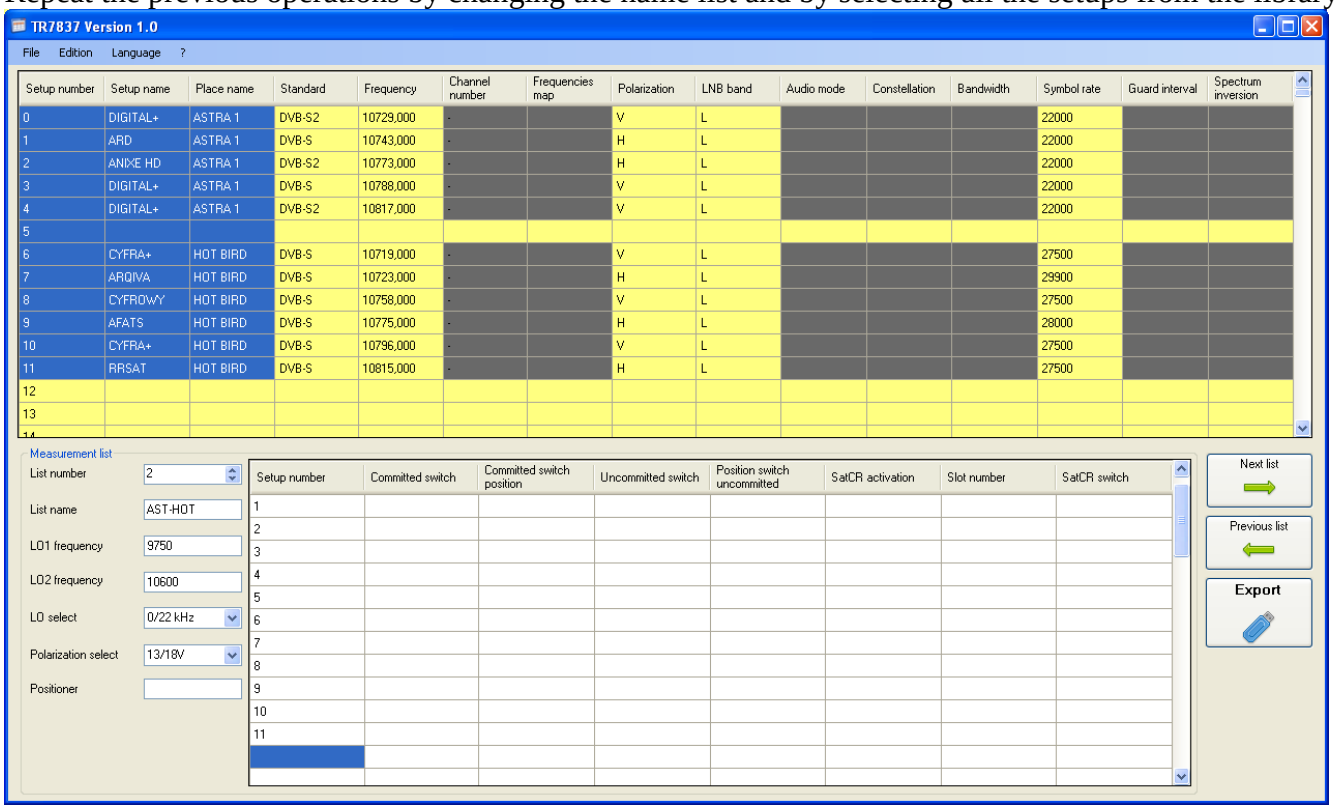


Setup number	Setup name	Place name	Standard	Frequency	Channel number	Frequencies map	Polarization	LNB band	Audio mode	Constellation	Bandwidth	Symbol rate	Guard interval	Spectrum inversion
0	DIGITAL+	ASTRA 1	DVB-S2	10729,000	-		V	L				22000		
1	ARD	ASTRA 1	DVB-S	10743,000	-		H	L				22000		
2	ANIXE HD	ASTRA 1	DVB-S2	10773,000	-		H	L				22000		
3	DIGITAL+	ASTRA 1	DVB-S	10788,000	-		V	L				22000		
4	DIGITAL+	ASTRA 1	DVB-S2	10817,000	-		V	L				22000		
5														
6	CYFRA+	HOT BIRD	DVB-S	10719,000	-		V	L				27500		
7	ARQIVA	HOT BIRD	DVB-S	10723,000	-		H	L				29900		
8	CYFROWY	HOT BIRD	DVB-S	10758,000	-		V	L				27500		
9	AFATS	HOT BIRD	DVB-S	10775,000	-		H	L				28000		
10	CYFRA+	HOT BIRD	DVB-S	10796,000	-		V	L				27500		
11	RRSAT	HOT BIRD	DVB-S	10815,000	-		H	L				27500		
12														
13														

Setup number	Committed switch	Committed switch position	Uncommitted switch	Position switch uncommitted	SatCR activation	Slot number	SatCR switch
6							
7							
8							
9							
10							
11							

Click on the Next list button to create the last ASTRA and HOT BIRD list.

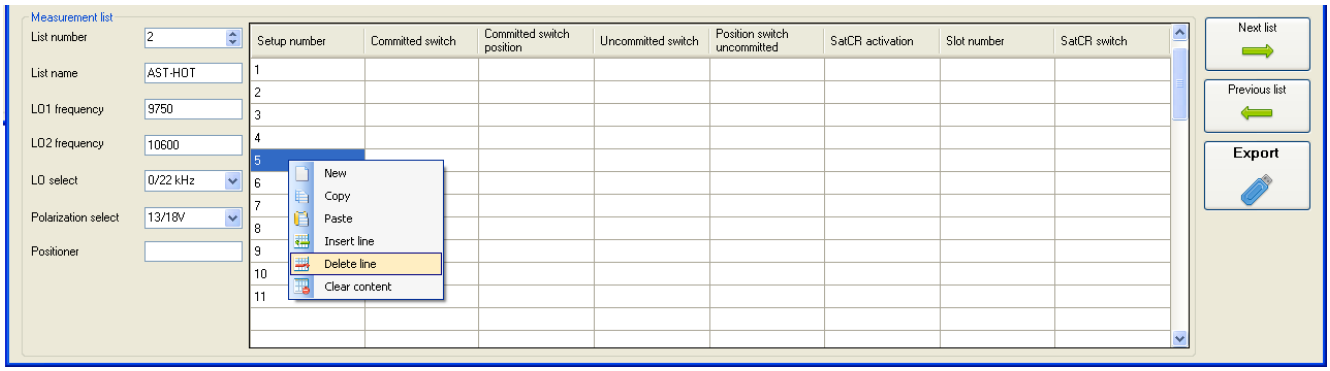
Repeat the previous operations by changing the name list and by selecting all the setups from the library.



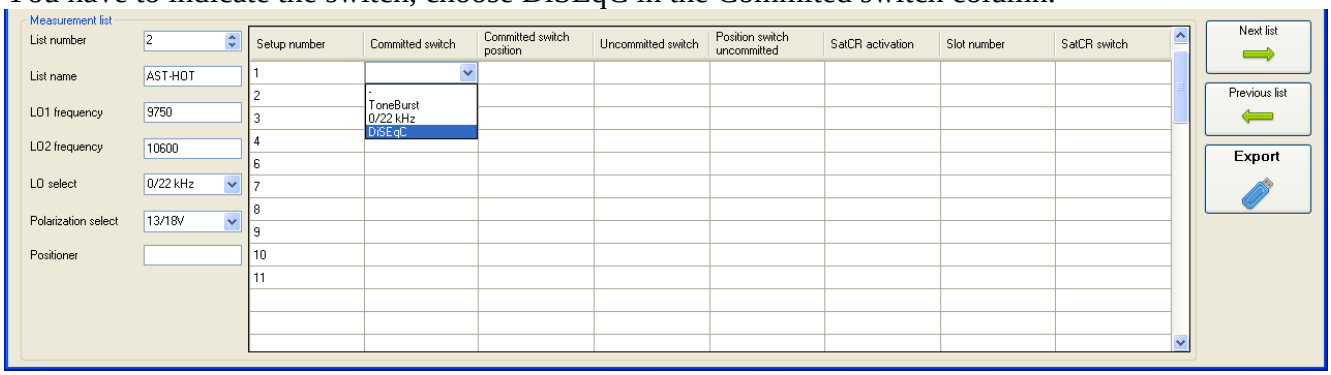
Setup number	Setup name	Place name	Standard	Frequency	Channel number	Frequencies map	Polarization	LNB band	Audio mode	Constellation	Bandwidth	Symbol rate	Guard interval	Spectrum inversion
0	DIGITAL+	ASTRA 1	DVB-S2	10729,000	-		V	L				22000		
1	ARD	ASTRA 1	DVB-S	10743,000	-		H	L				22000		
2	ANIXE HD	ASTRA 1	DVB-S2	10773,000	-		H	L				22000		
3	DIGITAL+	ASTRA 1	DVB-S	10788,000	-		V	L				22000		
4	DIGITAL+	ASTRA 1	DVB-S2	10817,000	-		V	L				22000		
5														
6	CYFRA+	HOT BIRD	DVB-S	10719,000	-		V	L				27500		
7	ARQIVA	HOT BIRD	DVB-S	10723,000	-		H	L				29900		
8	CYFROWY	HOT BIRD	DVB-S	10758,000	-		V	L				27500		
9	AFATS	HOT BIRD	DVB-S	10775,000	-		H	L				28000		
10	CYFRA+	HOT BIRD	DVB-S	10796,000	-		V	L				27500		
11	RRSAT	HOT BIRD	DVB-S	10815,000	-		H	L				27500		
12														
13														

Setup number	Committed switch	Committed switch position	Uncommitted switch	Position switch uncommitted	SatCR activation	Slot number	SatCR switch
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							

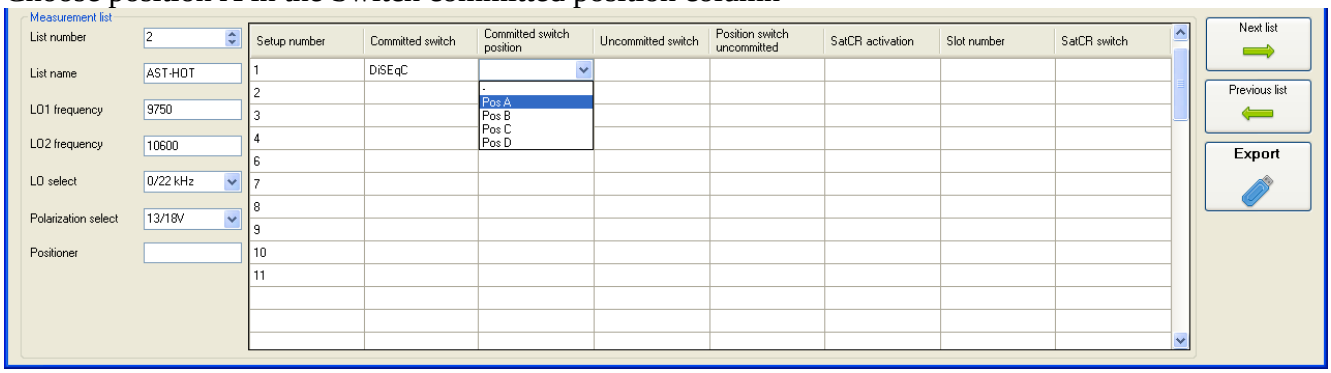
Click on the line 5, right click to choose Clear content or Delete line



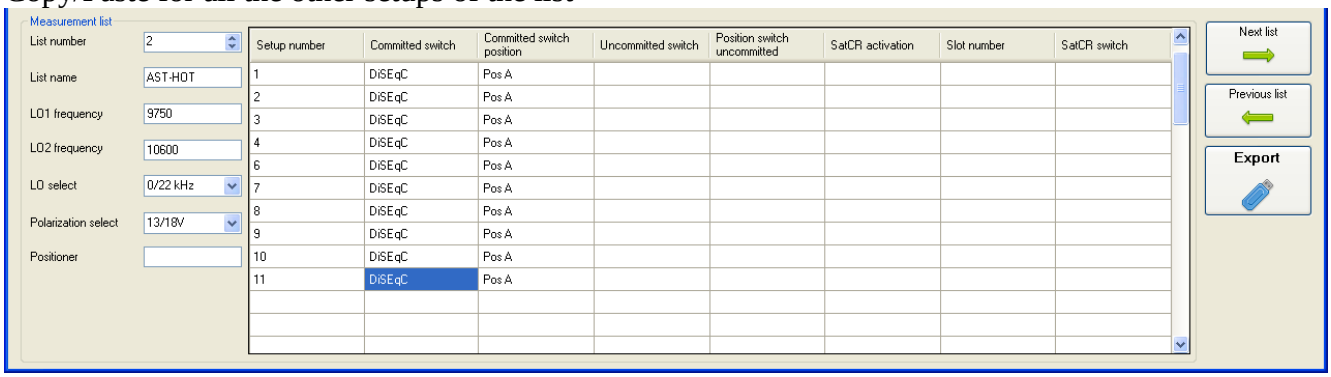
You have to indicate the switch, choose DiSEqC in the Commited switch column.



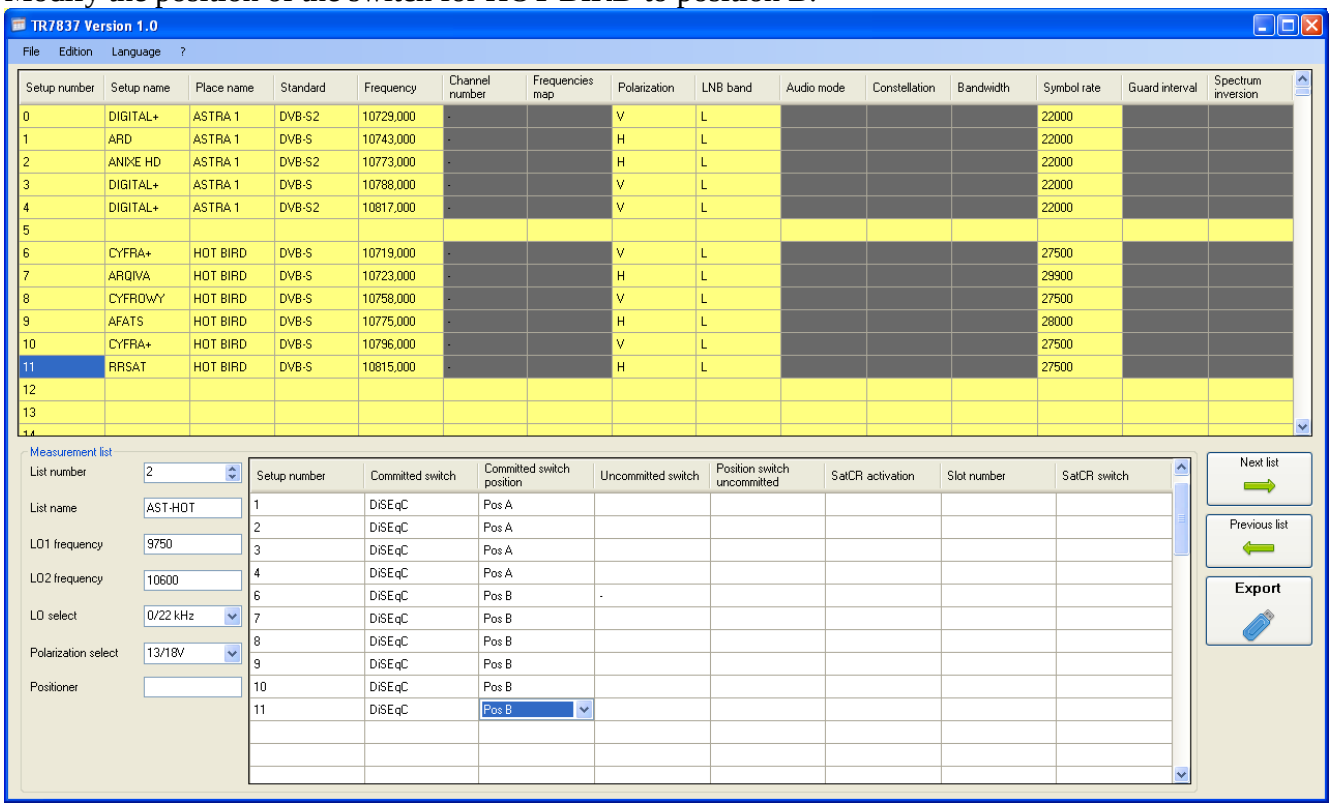
Choose position A in the Switch committed position column



Copy/Paste for all the other setups of the list



Modify the position of the switch for HOT BIRD to position B.

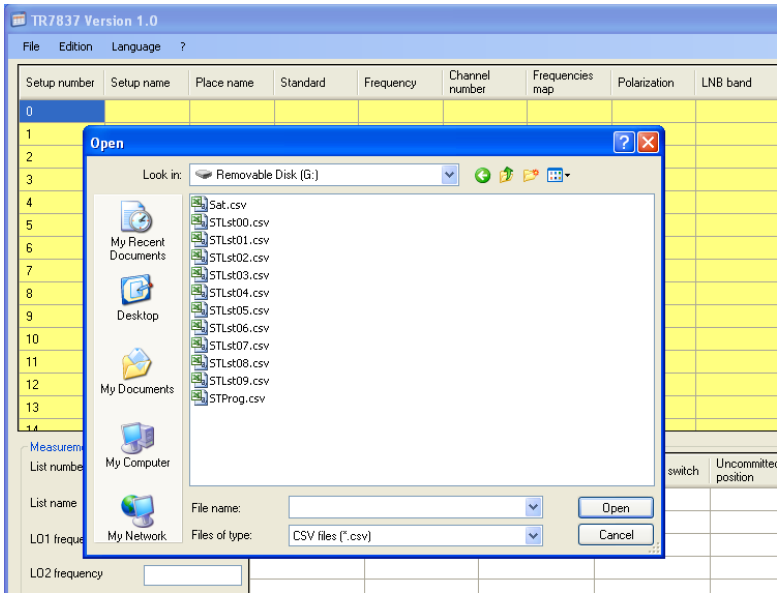


	When a line is selected in the measurement list, the corresponding setup is pointed automatically

9 OPEN A FILE

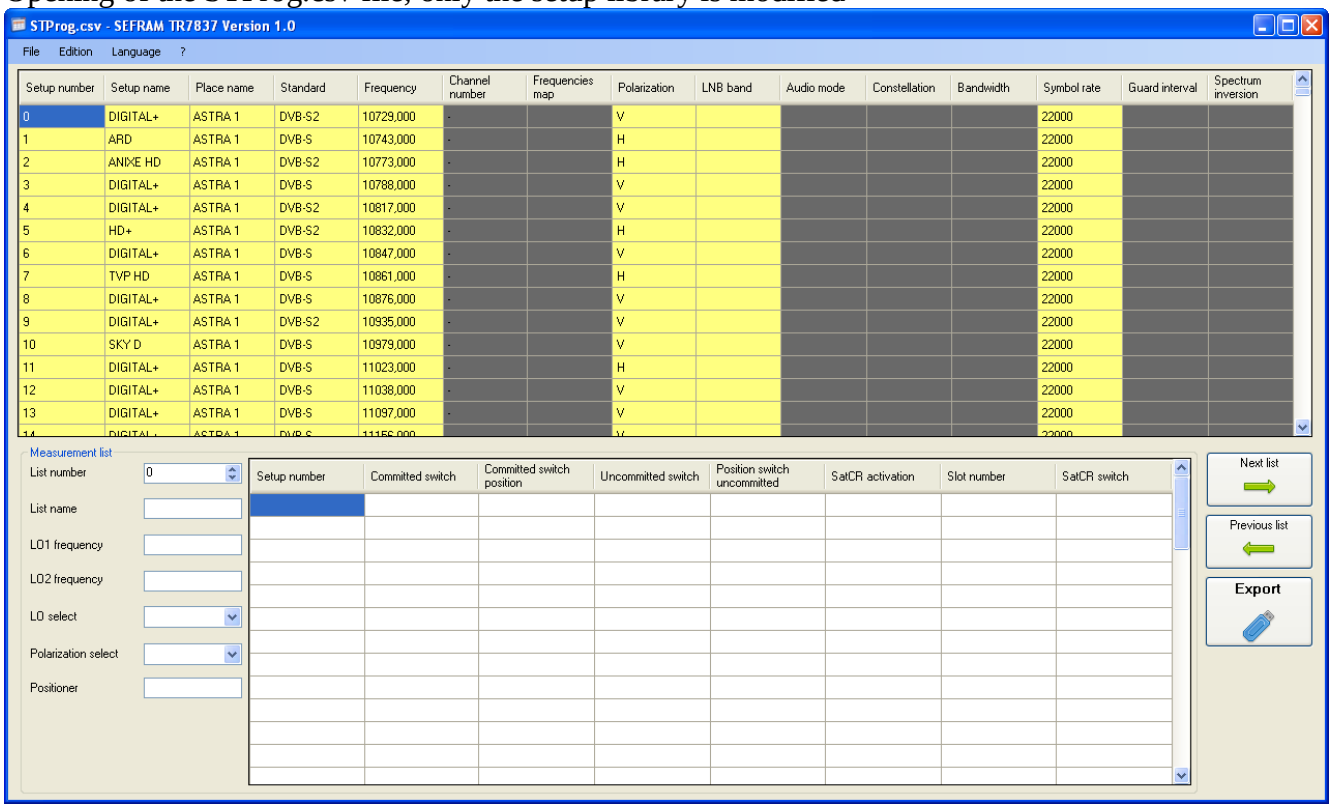
The software works from CSV files, those files are tabulated text files, the different values are separated by semi-colon.
Depending on the software version of the TV meter the setup export will generate on the USB flash drive a setup file and a checksat file or 22 separated files : a checksat file, a library file and 20 files corresponding to the 20 measurements lists.
The software allows you to open and modify each of these files.

Files resulting of the setup export of a device covering the satellite and terrestrial bands : library files and measurement lists start with ST.

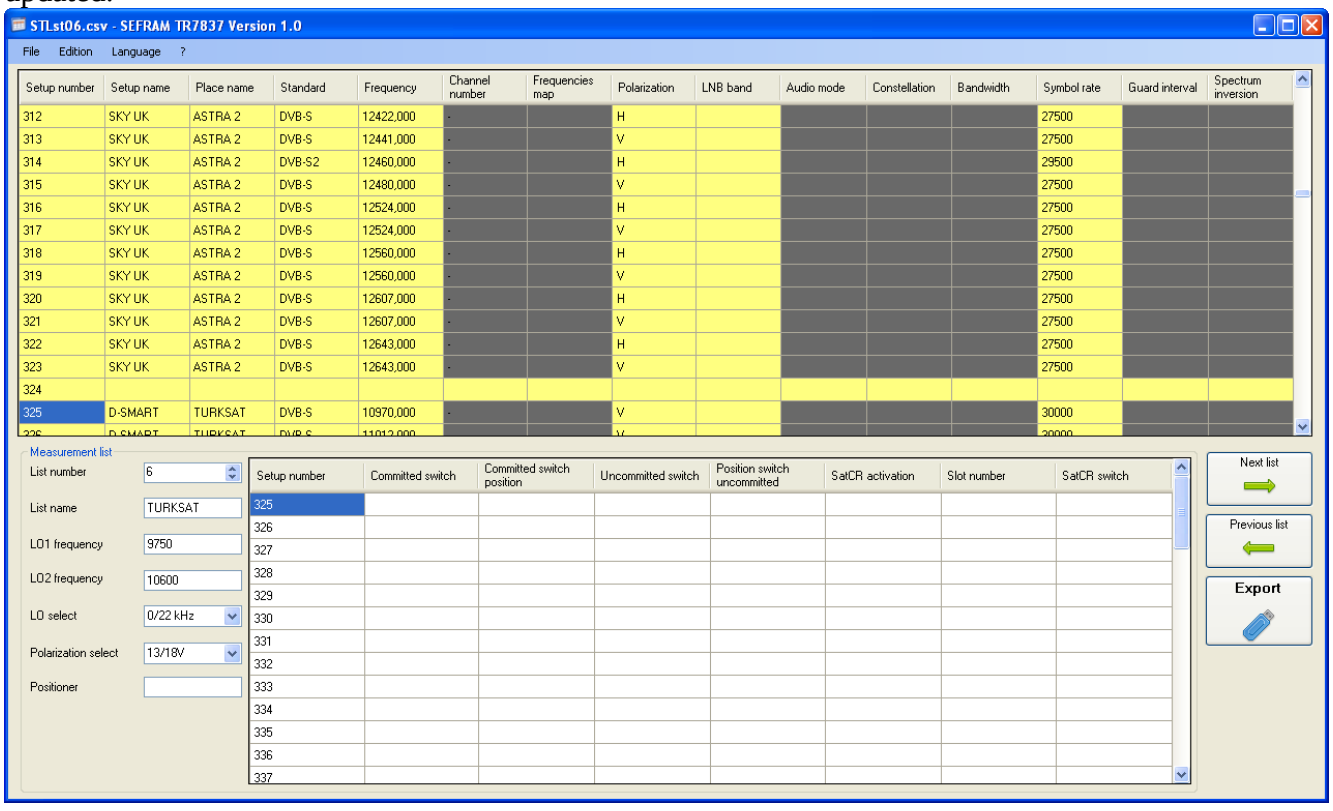


The Sat.csv file is for the checksat function
The STLst00.csv, STLst01.csv, STLst02.csv files… is for the measurement lists 0, 1, 2…
The STProg.csv file is for the setups library

Opening of the STProg.csv file, only the setup library is modified



Then opening of the STLst06.csv file, the list of measures #6 regarding the TURKSAT satellite is updated.



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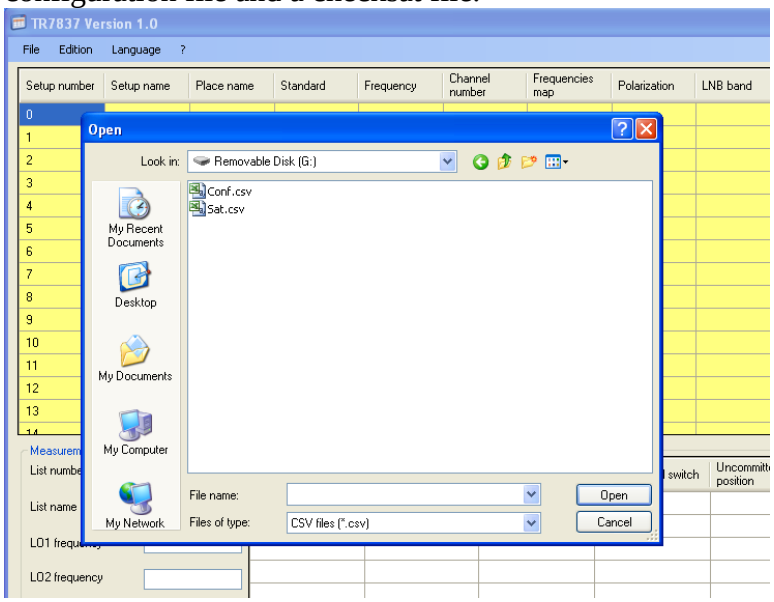
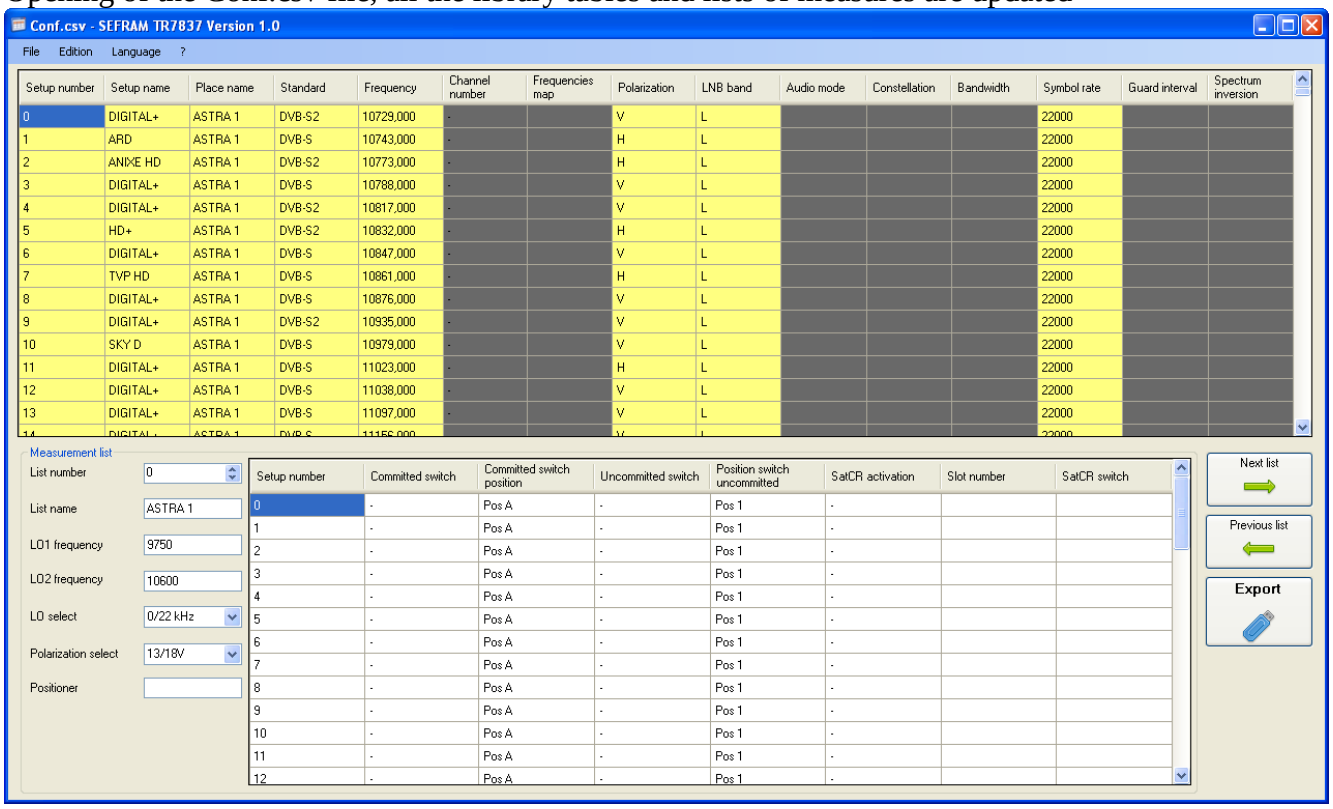
Files resulting of the setup export of a device which has a new software version which produces a configuration file and a checksat file.

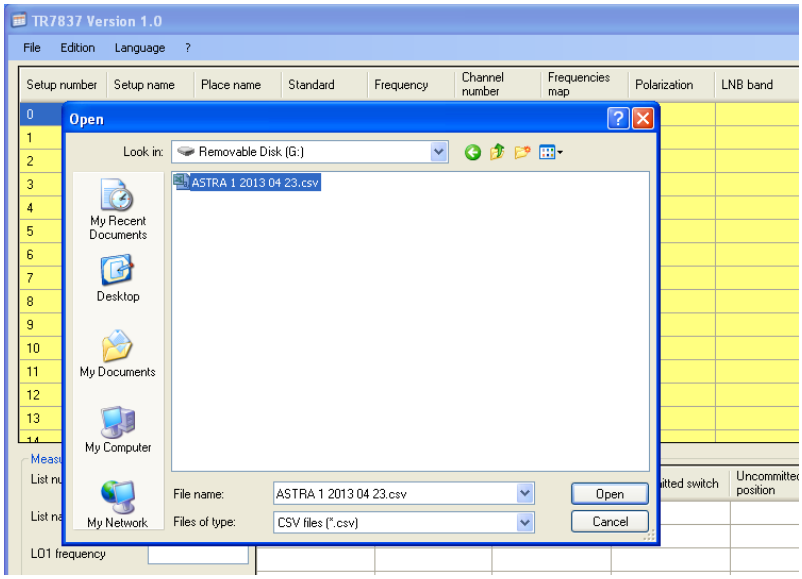


The Conf.csv file is made of the global configuration of the device, the library of setups and the 20 lists of measures.

Opening of the Conf.csv file, all the library tables and lists of measures are updated



Opening of a file previously saved from this software
The name file is the one choosen during the saving process, it is a unique file made of the device configuration, all the tables will be updated.



	The name of the last file opened appears in the caption

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10 IMPORT INI FILES

What is an « .INI. » file ?

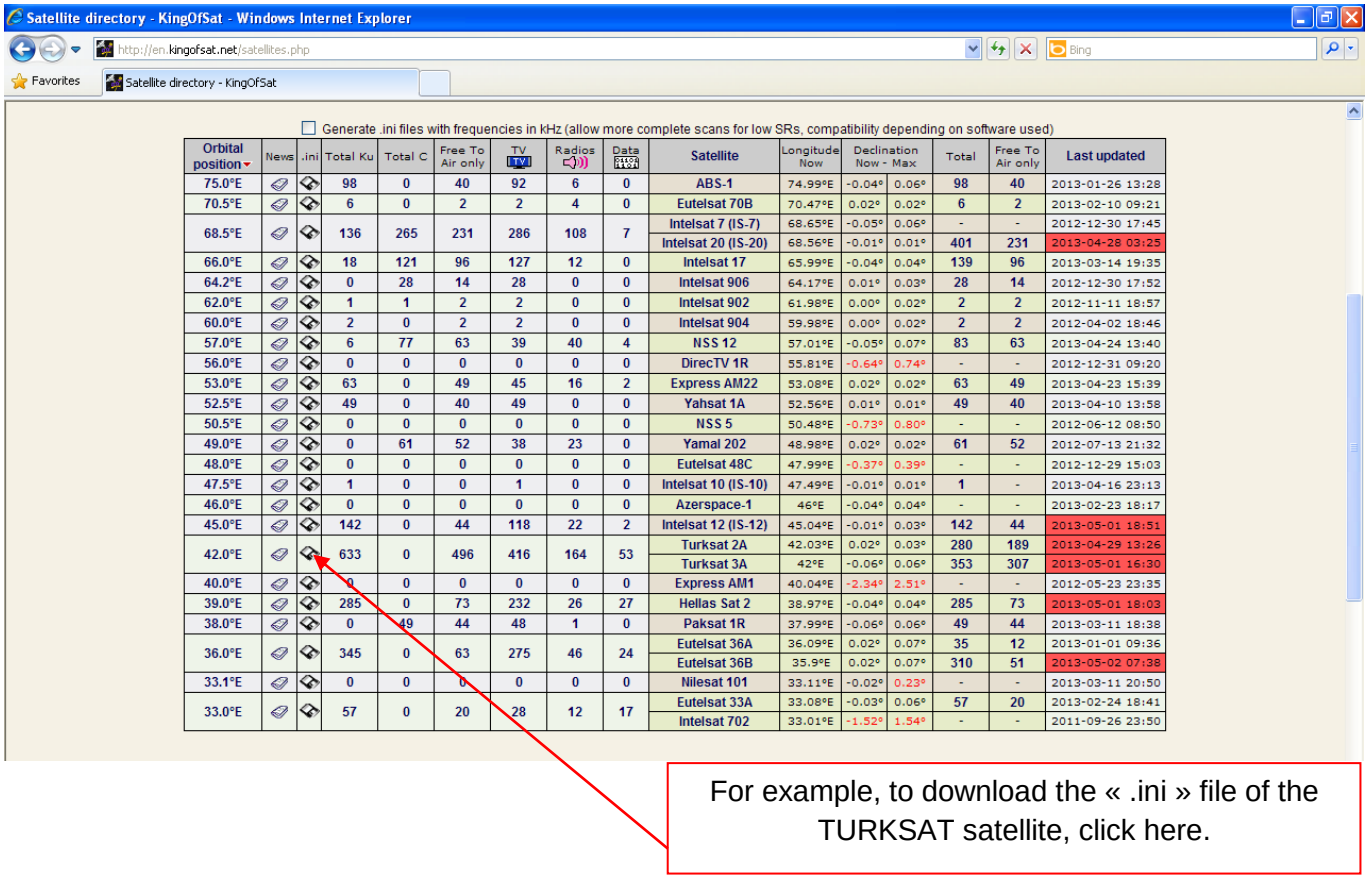
An ".ini." file is made of the parameters of a place (satellite). The data of this file are importable directly to the setup library.

The import files of the satellite setups receivable in Europe (Ku band) can be dowloaded on the website http://en.kingofsat.net/, in the file «Satellite directory ». These files are updated regularly : we recommend you to check regularly this website for the latest details.

How to do?

Click on the following link http://en.kingofsat.net/satellites.php to access to the website.

The following page will display, do not check « Generate .ini files with frequencies in kHz ».



Orbital position	News	.ini	Total Ku	Total C	Free To Air only	TV	Radios	Data	Satellite	Longitude Now	Declination Now - Max		Total	Free To Air only	Last updated
75.0°E			98	0	40	92	6	0	ABS-1	74.99°E	-0.04°	0.06°	98	40	2013-01-26 13:28
70.5°E			6	0	2	2	4	0	Eutelsat 70B	70.47°E	0.02°	0.02°	6	2	2013-02-10 09:21
68.5°E			136	265	231	286	108	7	Intelsat 7 (IS-7)	68.65°E	-0.05°	0.06°	-	-	2012-12-30 17:45
									Intelsat 20 (IS-20)	68.56°E	-0.01°	0.01°	401	231	2013-04-28 03:25
66.0°E			18	121	96	127	12	0	Intelsat 17	65.99°E	-0.04°	0.04°	139	96	2013-03-14 19:35
64.2°E			0	28	14	28	0	0	Intelsat 906	64.17°E	0.01°	0.03°	28	14	2012-12-30 17:52
62.0°E			1	1	2	2	0	0	Intelsat 902	61.98°E	0.00°	0.02°	2	2	2012-11-11 18:57
60.0°E			2	0	2	2	0	0	Intelsat 904	59.98°E	0.00°	0.02°	2	2	2012-04-02 18:46
57.0°E			6	77	63	39	40	4	NSS 12	57.01°E	-0.05°	0.07°	83	63	2013-04-24 13:40
56.0°E			0	0	0	0	0	0	DirecTV 1R	55.81°E	-0.64°	0.74°	-	-	2012-12-31 09:20
53.0°E			63	0	49	45	16	2	Express AM22	53.08°E	0.02°	0.02°	63	49	2013-04-23 15:39
52.5°E			49	0	40	49	0	0	Yahsat 1A	52.56°E	0.01°	0.01°	49	40	2013-04-10 13:58
50.5°E			0	0	0	0	0	0	NSS 5	50.48°E	-0.73°	0.80°	-	-	2012-06-12 08:50
49.0°E			0	61	52	38	23	0	Yamal 202	48.98°E	0.02°	0.02°	61	52	2012-07-13 21:32
48.0°E			0	0	0	0	0	0	Eutelsat 48C	47.99°E	-0.37°	0.39°	-	-	2012-12-29 15:03
47.5°E			1	0	0	1	0	0	Intelsat 10 (IS-10)	47.49°E	-0.01°	0.01°	1	-	2013-04-16 23:13
46.0°E			0	0	0	0	0	0	Azerspace-1	46°E	-0.04°	0.04°	-	-	2013-02-23 18:17
45.0°E			142	0	44	118	22	2	Intelsat 12 (IS-12)	45.04°E	-0.01°	0.03°	142	44	2013-05-01 18:51
42.0°E			633	0	496	416	164	53	Turksat 2A	42.03°E	0.02°	0.03°	280	189	2013-04-29 13:26
									Turksat 3A	42°E	-0.06°	0.06°	353	307	2013-05-01 16:30
40.0°E			0	0	0	0	0	0	Express AM1	40.04°E	-2.34°	2.51°	-	-	2012-05-23 23:35
39.0°E			285	0	73	232	26	27	Hellas Sat 2	38.97°E	-0.04°	0.04°	285	73	2013-05-01 18:03
38.0°E			0	49	44	48	1	0	Paksat 1R	37.99°E	-0.06°	0.06°	49	44	2013-03-11 18:38
36.0°E			345	0	63	275	46	24	Eutelsat 36A	36.09°E	0.02°	0.07°	35	12	2013-01-01 09:36
									Eutelsat 36B	35.9°E	0.02°	0.07°	310	51	2013-05-02 07:38
33.1°E			0	0	0	0	0	0	Nilesat 101	33.11°E	-0.02°	0.23°	-	-	2013-03-11 20:50
33.0°E			57	0	20	28	12	17	Eutelsat 33A	33.08°E	-0.03°	0.06°	57	20	2013-02-24 18:41
									Intelsat 702	33.01°E	-1.52°	1.54°	-	-	2011-09-26 23:50

For example, to download the « .ini » file of the TURKSAT satellite, click here.

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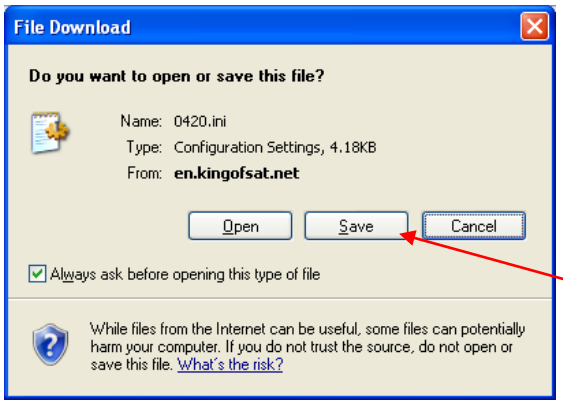
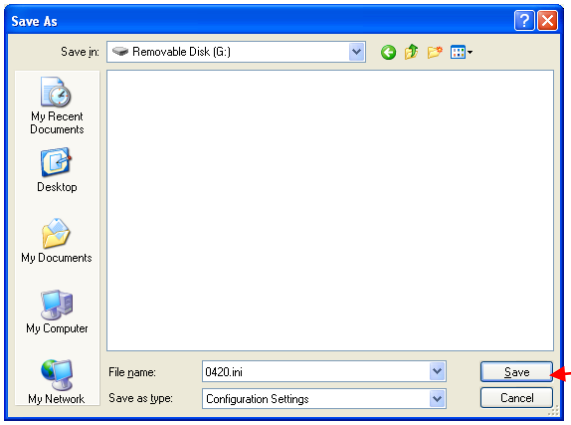
TVA Intracommunautaire: FR 19790833404

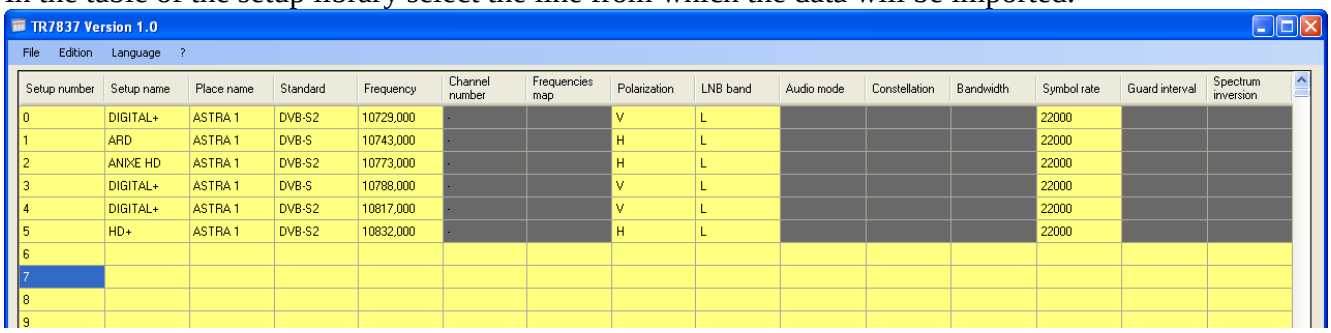


Click then on "Save"



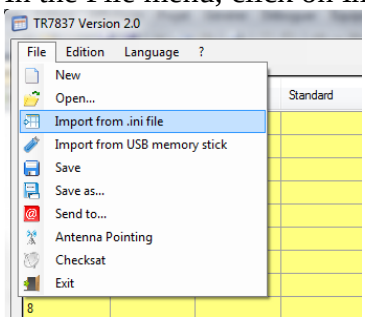
Select the file desired then click on Save

In the table of the setup library select the line from which the data will be imported.

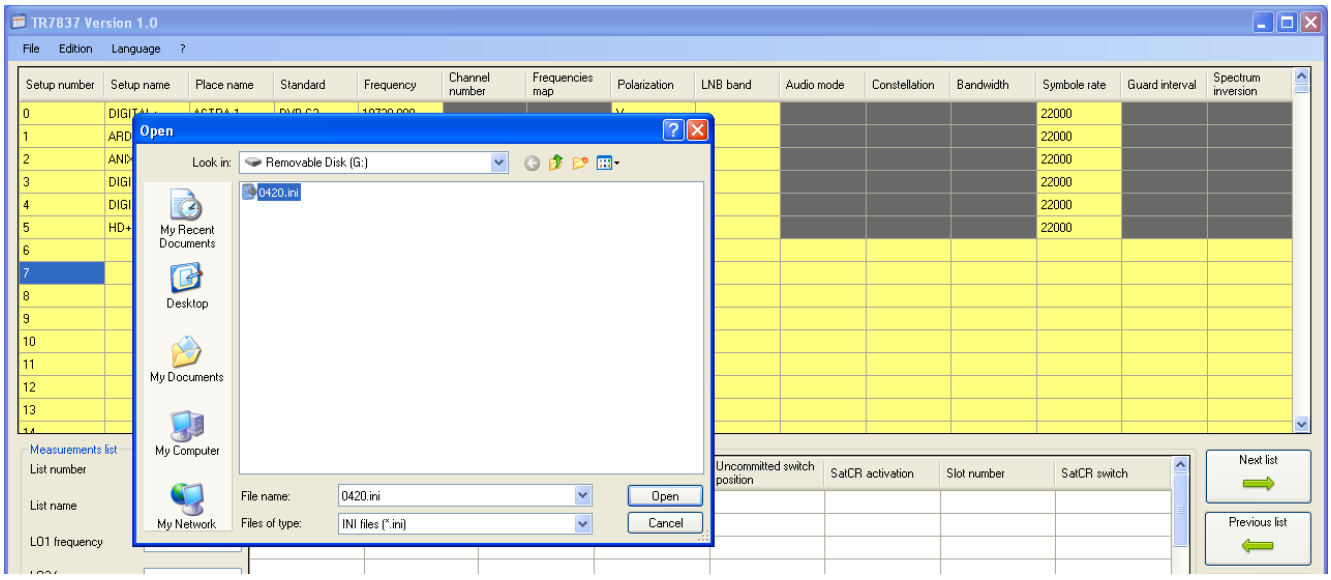


Setup number	Setup name	Place name	Standard	Frequency	Channel number	Frequencies map	Polarization	LNB band	Audio mode	Constellation	Bandwidth	Symbol rate	Guard interval	Spectrum inversion
0	DIGITAL+	ASTRA 1	DVB-S2	10729,000	-		V	L				22000		
1	ARD	ASTRA 1	DVB-S	10743,000	-		H	L				22000		
2	ANIXE HD	ASTRA 1	DVB-S2	10773,000	-		H	L				22000		
3	DIGITAL+	ASTRA 1	DVB-S	10788,000	-		V	L				22000		
4	DIGITAL+	ASTRA 1	DVB-S2	10817,000	-		V	L				22000		
5	HD+	ASTRA 1	DVB-S2	10832,000	-		H	L				22000		
6														
7														
8														
9														

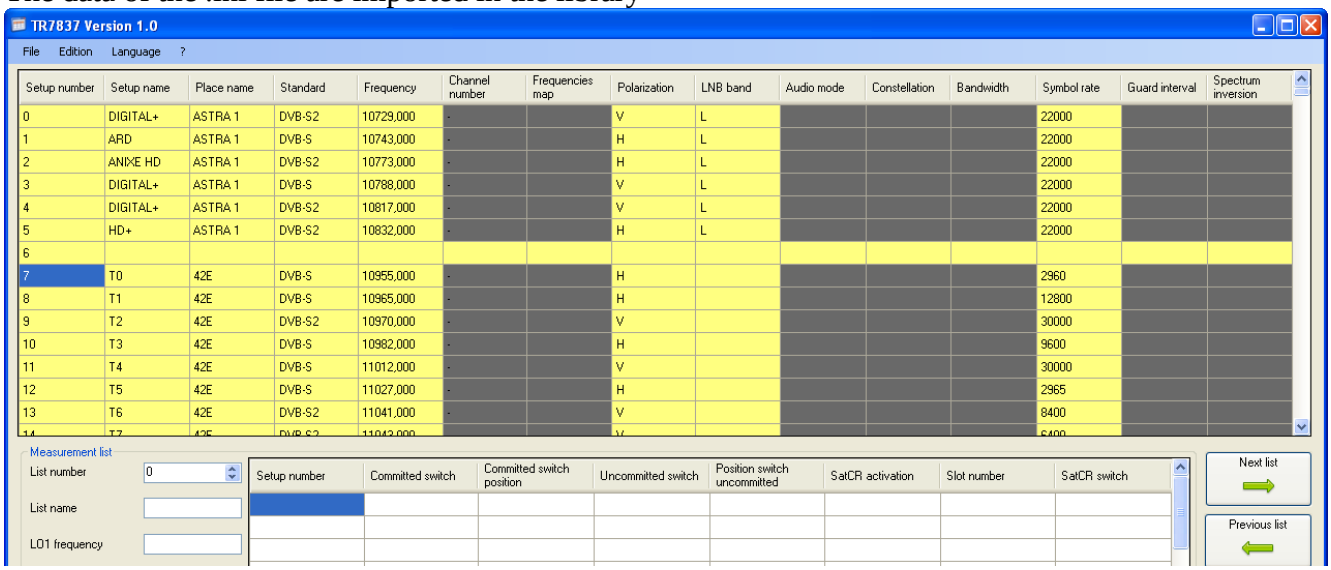
In the File menu, click on Import from .ini file



Click on open



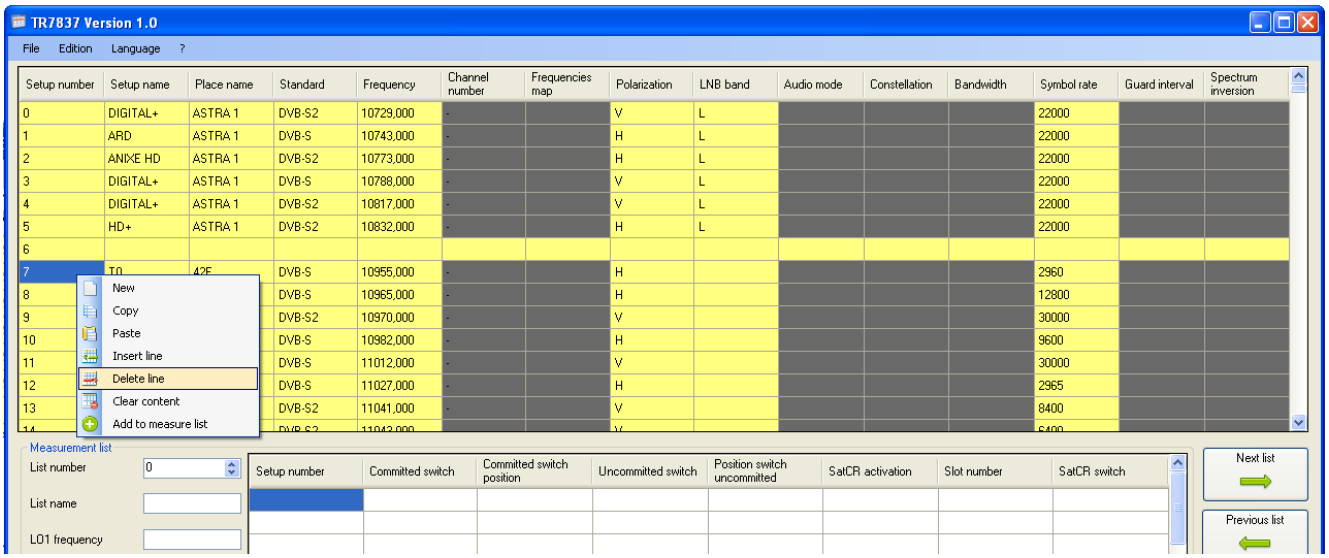
The data of the .ini file are imported in the library



Setup number	Setup name	Place name	Standard	Frequency	Channel number	Frequencies map	Polarization	LNB band	Audio mode	Constellation	Bandwidth	Symbol rate	Guard interval	Spectrum inversion
0	DIGITAL+	ASTRA 1	DVB-S2	10729,000			V	L				22000		
1	ARD	ASTRA 1	DVB-S	10743,000			H	L				22000		
2	ANIXE HD	ASTRA 1	DVB-S2	10773,000			H	L				22000		
3	DIGITAL+	ASTRA 1	DVB-S	10788,000			V	L				22000		
4	DIGITAL+	ASTRA 1	DVB-S2	10817,000			V	L				22000		
5	HD+	ASTRA 1	DVB-S2	10832,000			H	L				22000		
6														
7	T0	42E	DVB-S	10955,000			H					2960		
8	T1	42E	DVB-S	10965,000			H					12800		
9	T2	42E	DVB-S2	10970,000			V					30000		
10	T3	42E	DVB-S	10982,000			H					9600		
11	T4	42E	DVB-S	11012,000			V					30000		
12	T5	42E	DVB-S	11027,000			H					2965		
13	T6	42E	DVB-S2	11041,000			V					8400		

Setup number	Committed switch	Committed switch position	Uncommitted switch	Position switch uncommitted	SatCR activation	Slot number	SatCR switch

The TURKSAT satellite is made of 4 beams, only one of them is pointed at Europe.
With the Delete line function it is possible to clear the transponders which cannot be received.
The first transponder diffuse on Central Asia, it can be deleted.



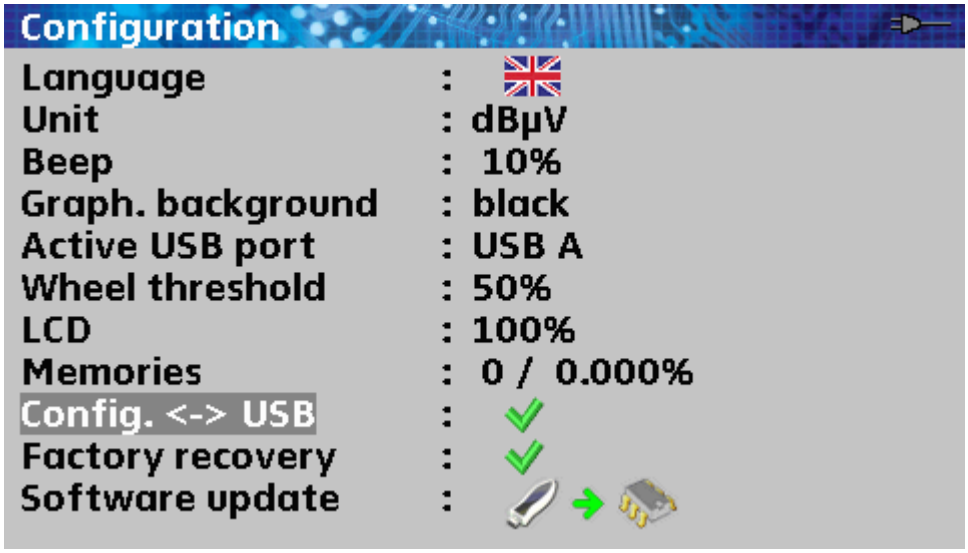
Repeat the operation as many time as necessary.
Moreover it is not necessary to keep all the transponders otherwise the library will be quickly saturated.
Keep 2 or 3 transponders for each band and polarization, preferably with high L frequencies to confirm the losses in the dish cable or, why not, those transporting the most popular emissions.

11 IMPORT FROM A USB MEMORY STICK

It is necessary to export the TV meter configuration in a USB memory stick.

11.1 TV meter from the 7806 – 7847 family

For TV meters from the 7806 / 7847 family, press twice the tool box key  , the following page will appear :



Turn the wheel until Config.<-> USB is selected

Insert a USB memory stick and confirm 

	Check that the USB port enabled is the USB port A

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11.2 7817 and 7849 TV meters

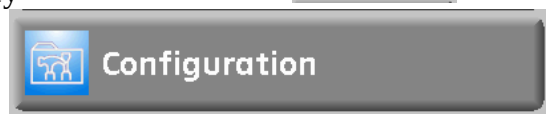
Press the home key 

The Home page will appear:

Finally press the “Configuration export” key 

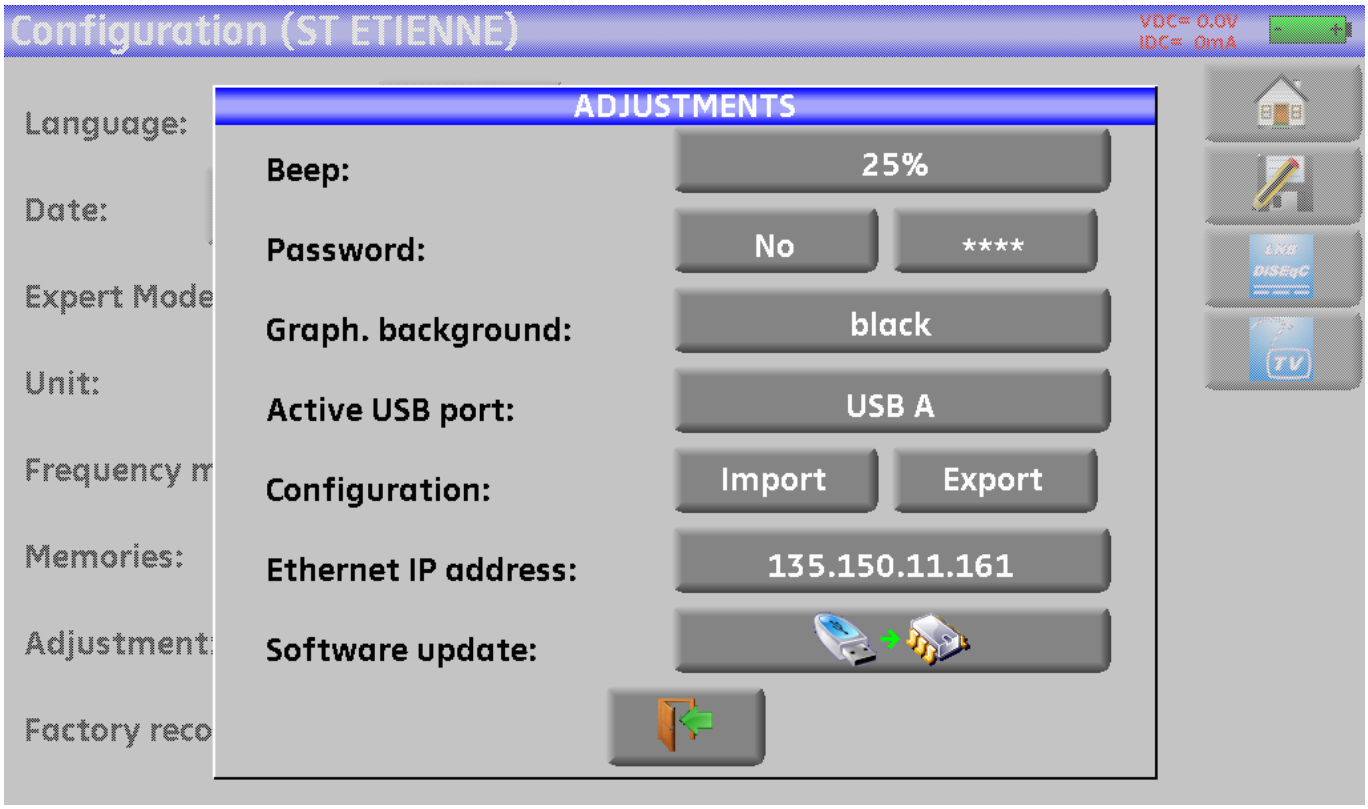
11.3 TV meter from the 7870 family

For the TV meter from the 7870 family press the Home key 

Press then the Configuration key 

And then press the adjustment key 

The following page will appear

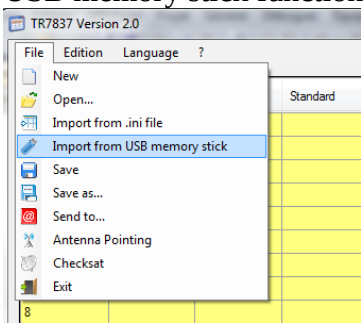


Insert a USB memory stick

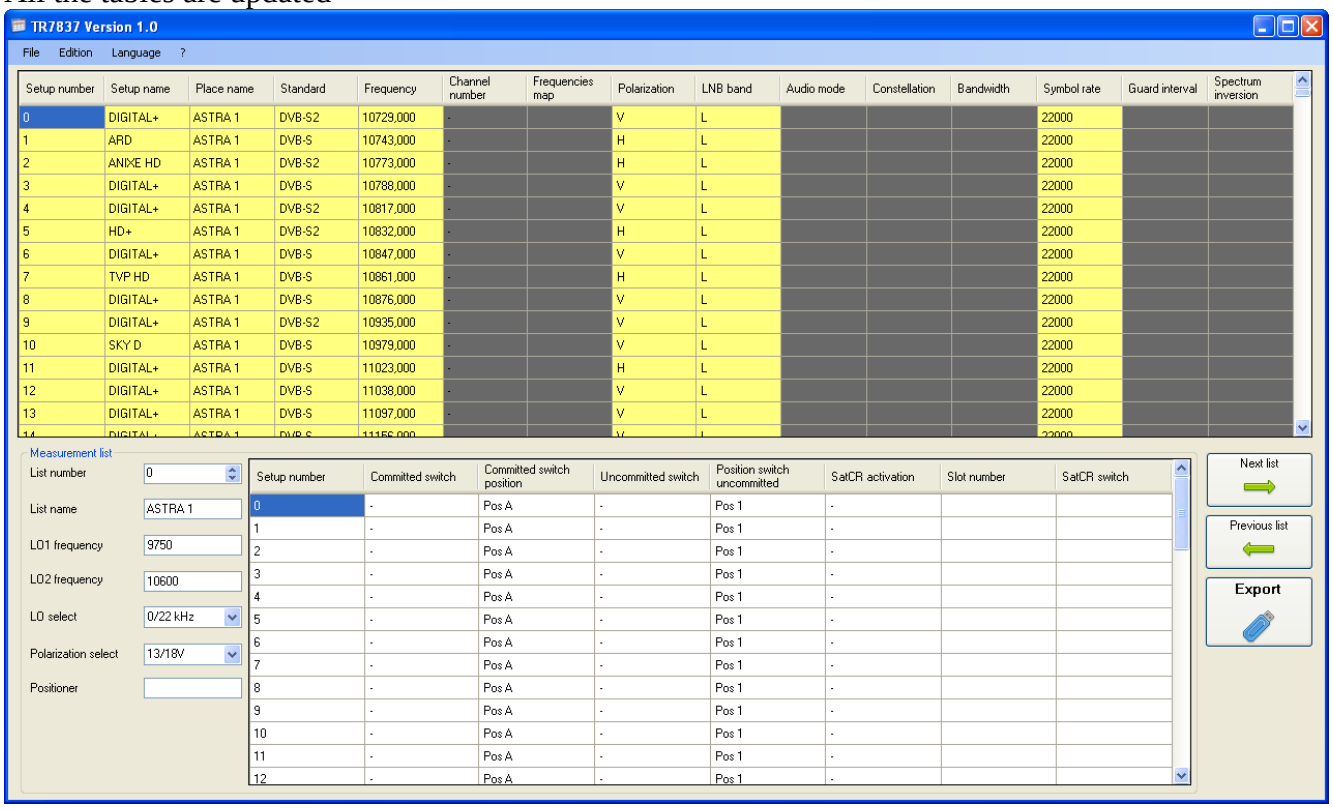
Finally, press the Export key 

	Check that the USB port enabled is the USB port A.

Disconnect the memory stick from the TV meter et connect it to the computer, launch the Import from USB memory stick function.

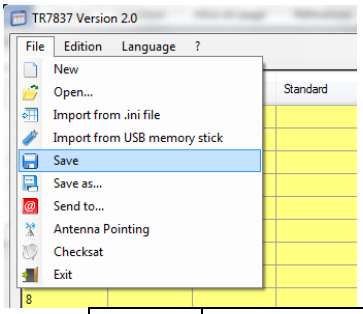


All the tables are updated



12 SAVE

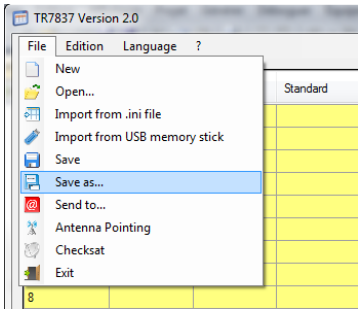
The Save function allows you to save all the table data in the current file.



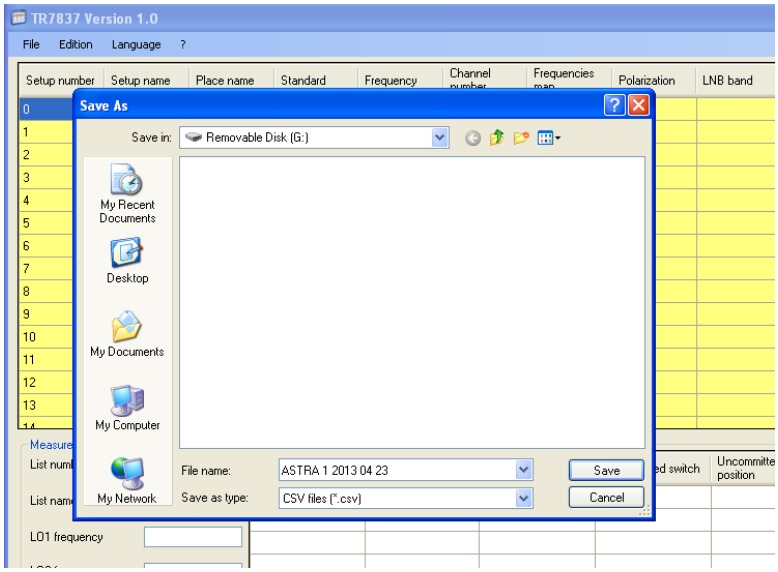
	If the current file does not exist, Save as will be launched

13 SAVE AS

The Save as function allows you to save all the data of the tables in a new file or a file of your choice.

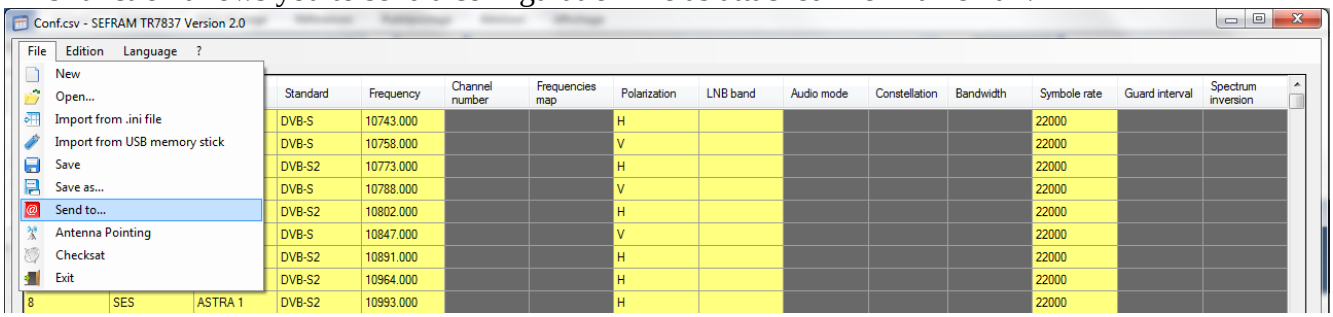


The dialog box Save as allows you to choose an existing file or to enter a new file name.

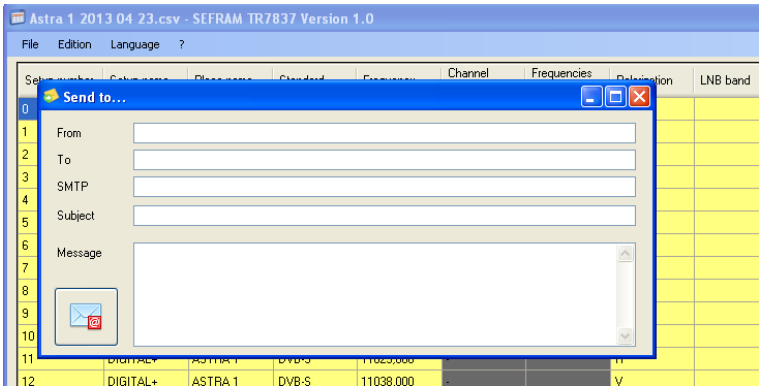


14 SEND TO

This function allows you to send a configuration file as attached file in an email.



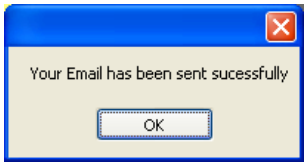
The following dialog box appears:



Enter the recipient's addressee and the name of your mailbox SMTP server, the other fileds are optional : sender addressee, message subject and message text.
The current file is automatically attached to the email.

Click on the mail key

A message warns you that the email has been sent successfully, click on OK.



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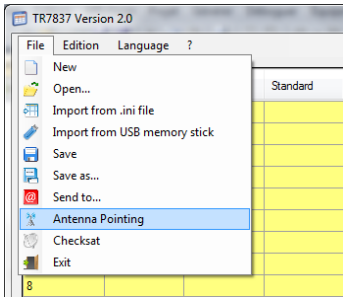
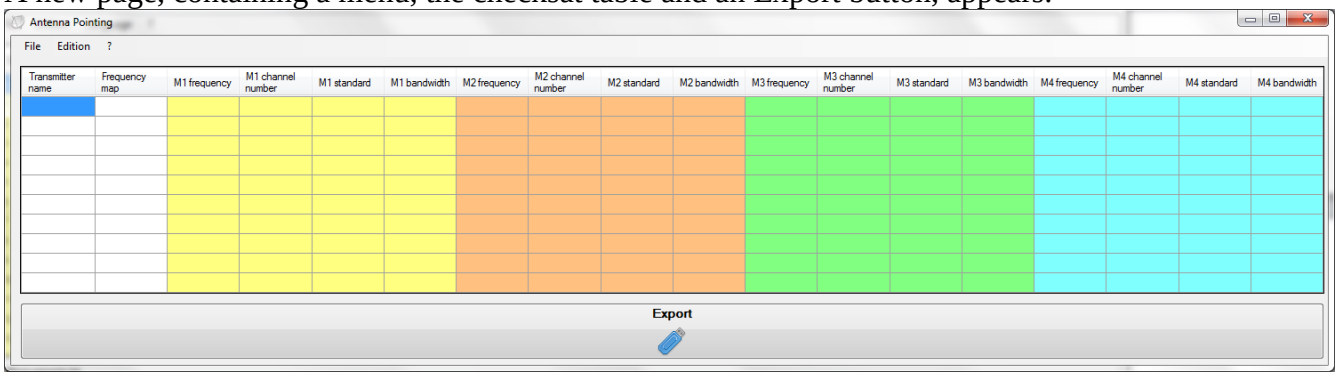
	If the current file does not exist the function Save as is launched before sending.

15 ANTENNA POINTING (7817 7849 ONLY)

The access at the antenna pointing table is performed from the Antenna Pointing menu or by opening a Ter.csv file.



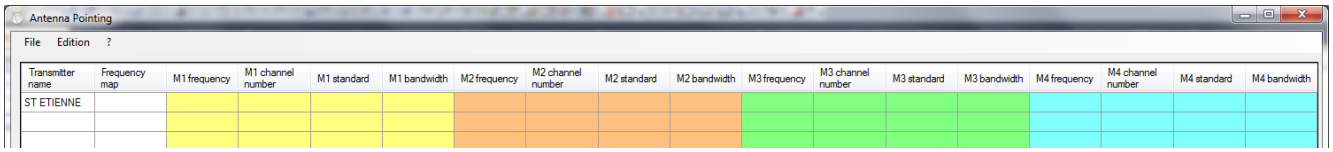
A new page, containing a menu, the checksat table and an Export button, appears.



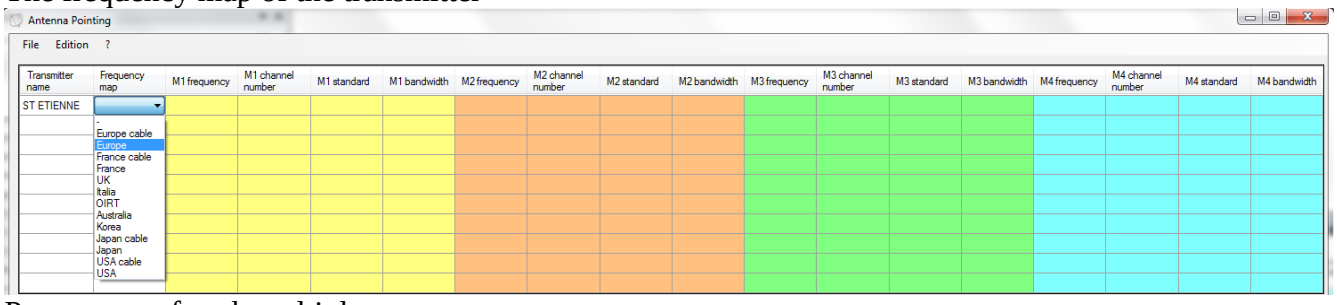
10 different transmitters are possible; each transmitter is made of 4 multiplexes.

The menu of this page and the popup menu (right click) are similar to [those from the main page].

Enter the transmitter name

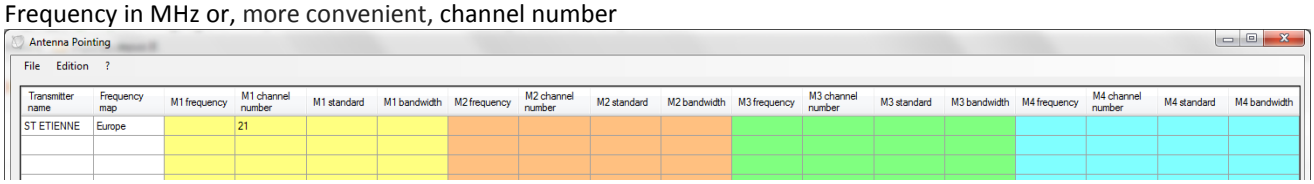


The frequency map of the transmitter

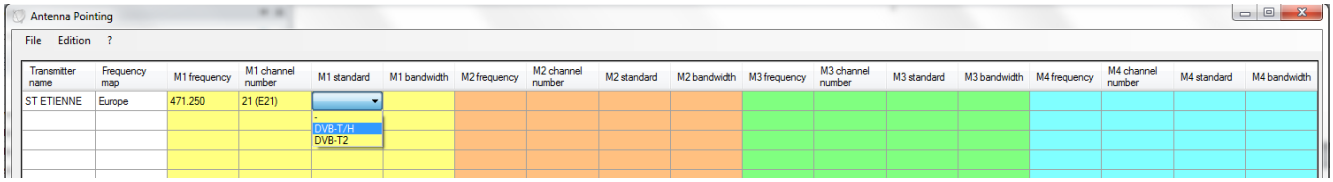


Parameters of each multiplex

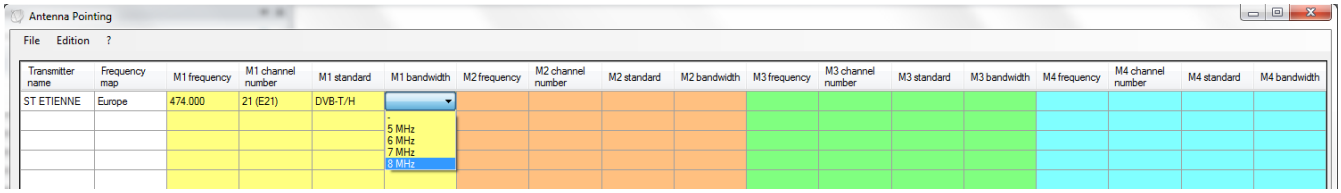
Frequency in MHz or, more convenient, channel number



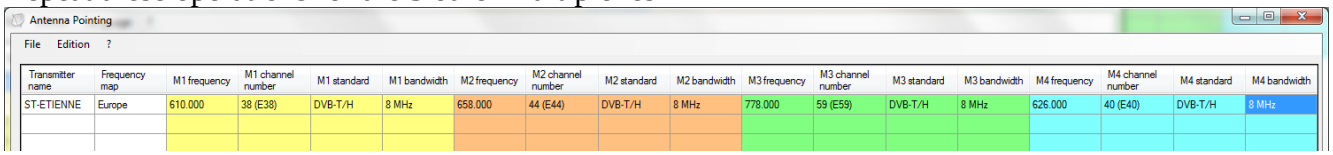
Standard



The bandwidth



Repeat these operations for the 3 other multiplexes



Repeat these operations for other transmitters

This table can be saved with the device configuration; it can also be exported to a USB memory stick to be imported in the TV meter.

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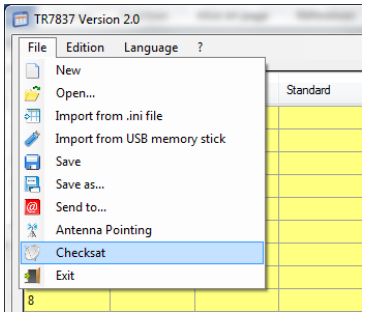
16 CHECKSAT

The access at the checksat table is performed from the Checksat menu or by opening a Sat.csv file.

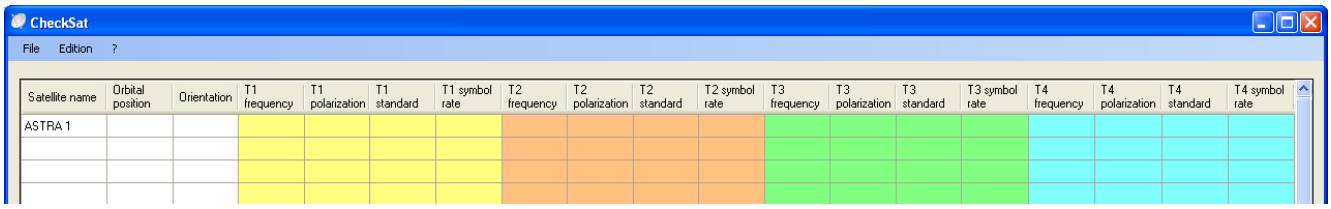


A new page, containing a menu, the checksat table and an Export button, appears.

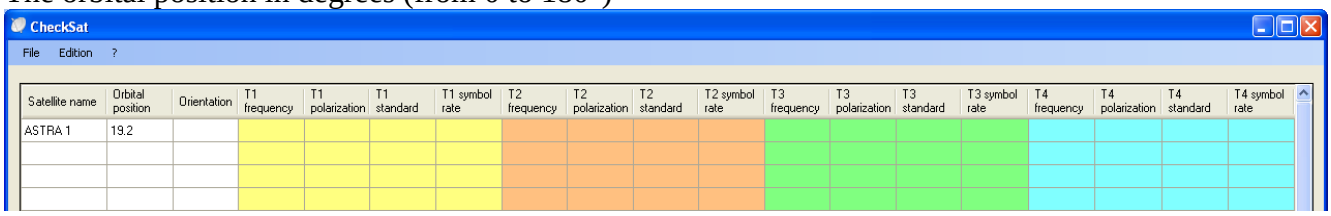
32 different satellites are possible; each satellite is made of 4 transponders.

The menu of this page and the popup menu (right click) are similar to those from the main page.

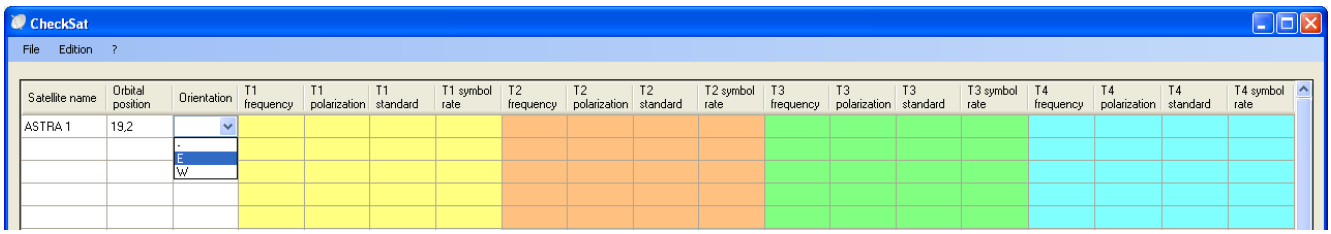
Enter the satellite name



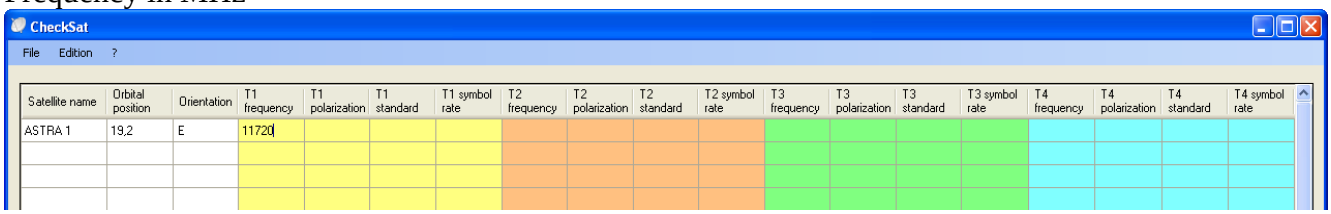
The orbital position in degrees (from 0 to 180°)



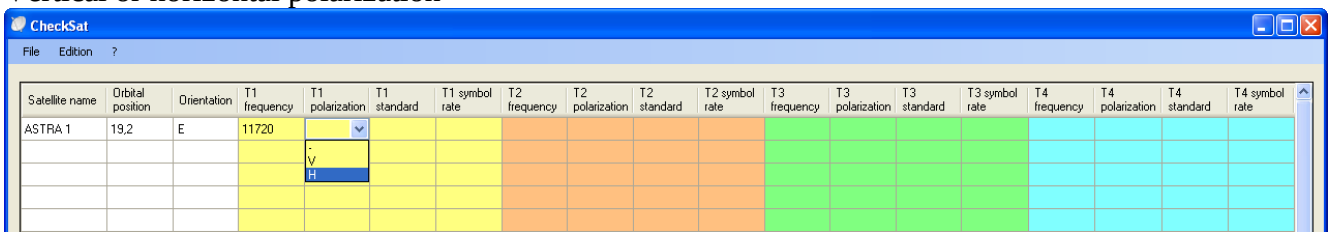
The orientation in relation to the Greenwich meridian: East or West.



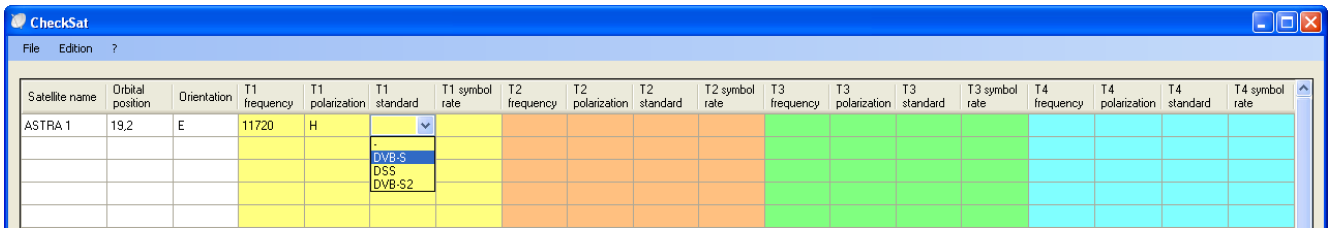
Parameters of each transponder
Frequency in MHz



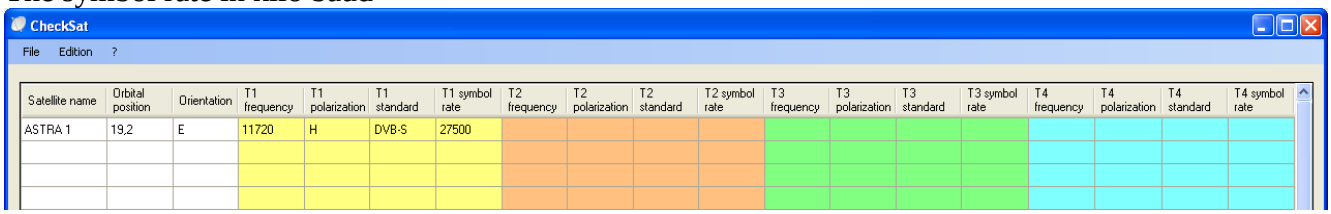
Vertical or horizontal polarization



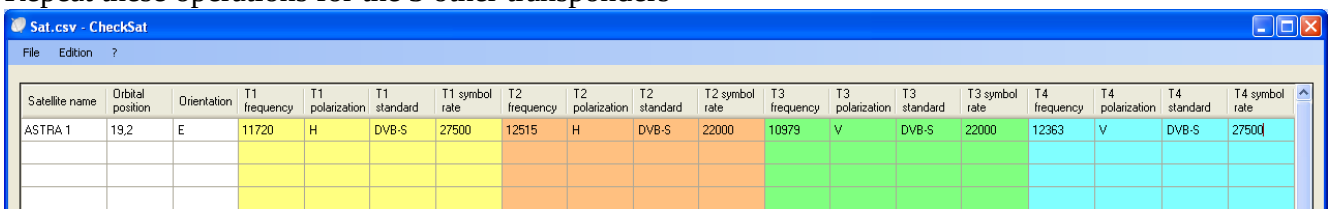
Standard



The symbol rate in kilo baud



Repeat these operations for the 3 other transponders



Repeat these operations for other satellites

This table can be saved with the device configuration; it can also be exported to a USB memory stick to be imported in the TV meter.

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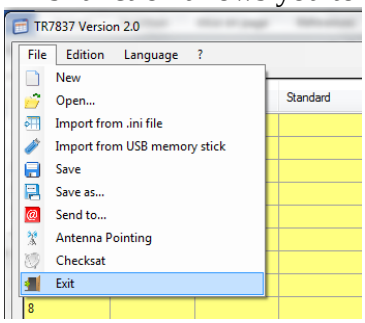
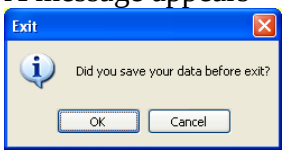
17 EXIT

This function allows you to exit the software



A message appears



If the data have not been saved, click on Cancel otherwise confirm the exit.