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# Guide de fonctionnement de l'analyseur CNS VARIO EL Cube ELEMENTAR

Eric Lecloux

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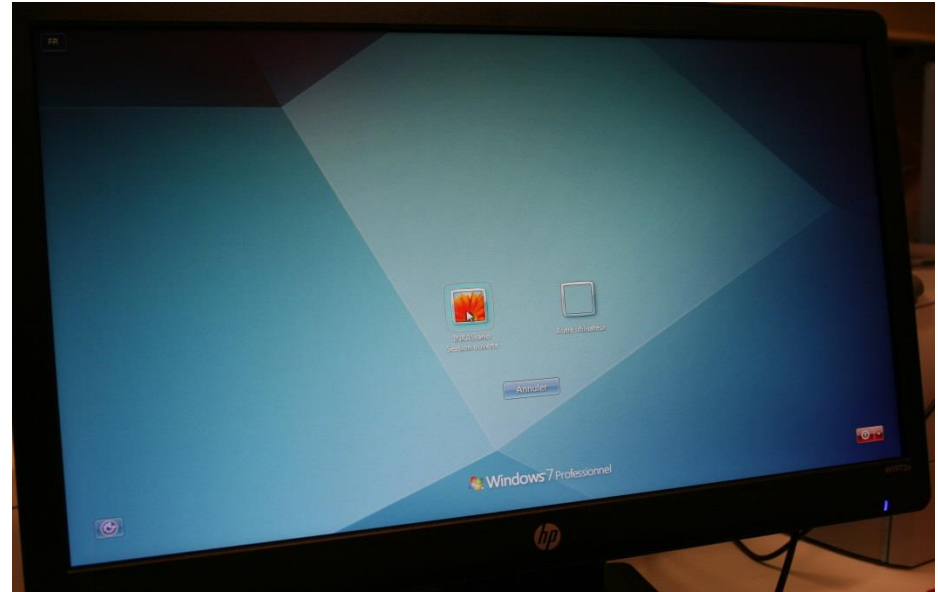
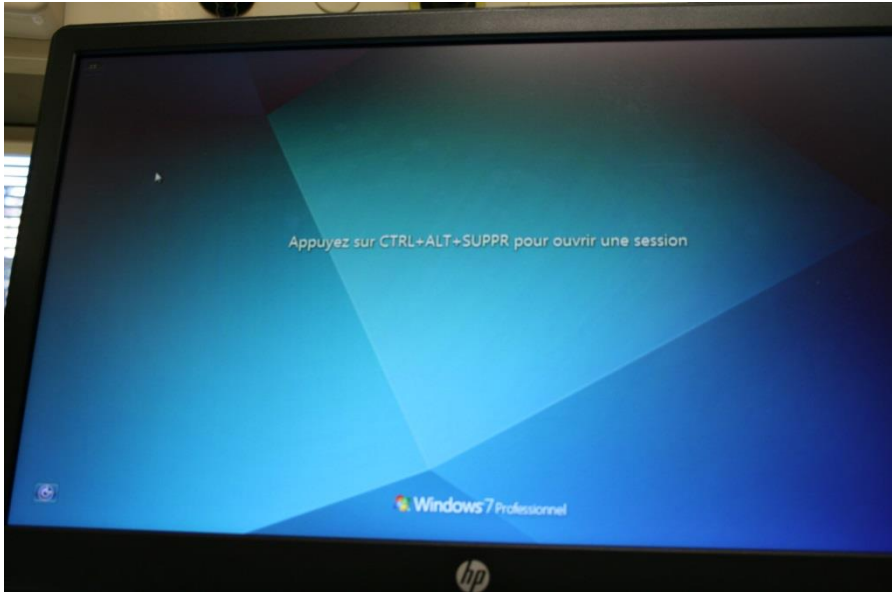
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**GUIDE DE  
FONCTIONNEMENT  
VARIO EL Cube ELEMENTAR  
E.lecloux**

# Guide fonctionnement VarioEL-cube

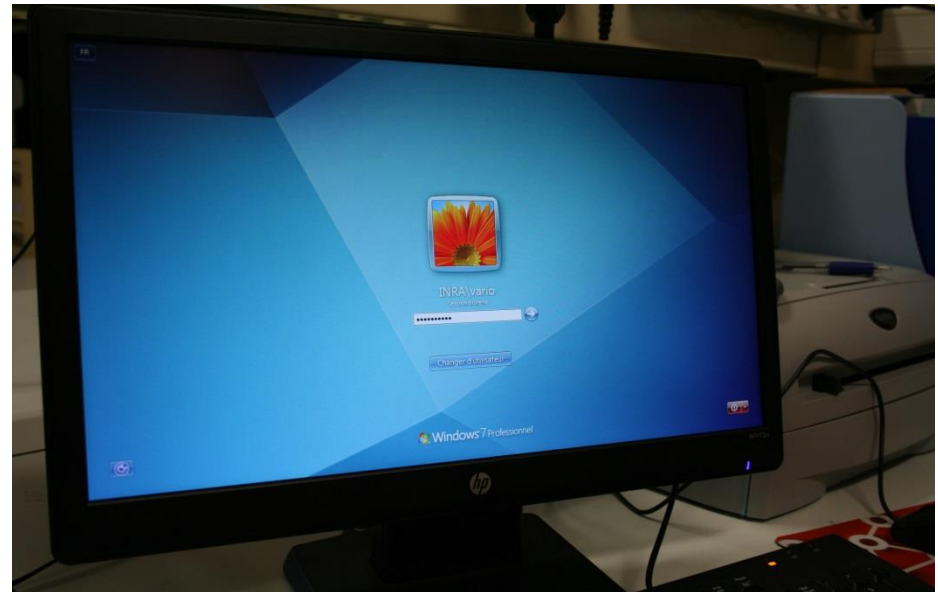
- Ne jamais arrêter l'appareil
- Ne jamais arrêter l'ordinateur
- Ne jamais fermer le programme
- Sauvegarder le fichier en fin d'analyse

# Ouverture de la session machine



Identification

Analyse12\*

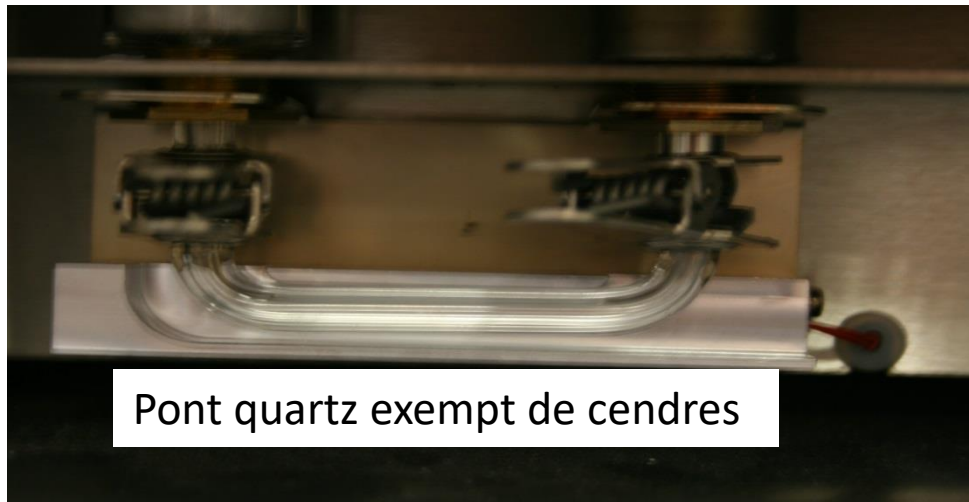
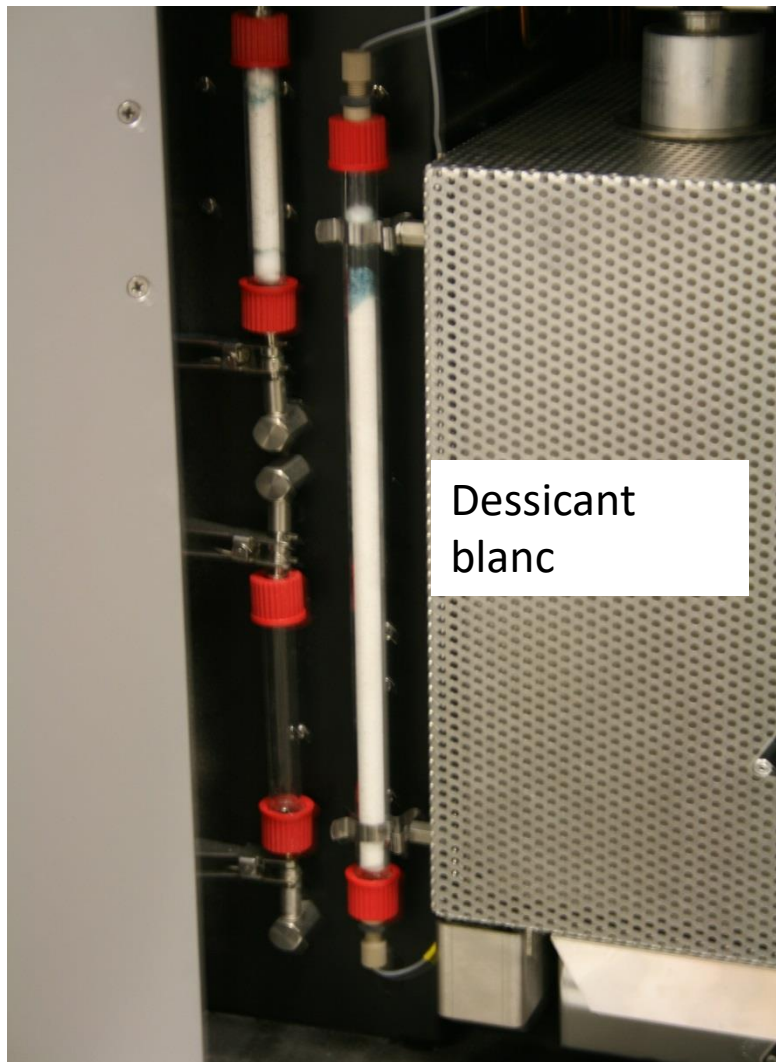


# Sauvegarde de la session précédente

The screenshot shows a software window titled "2014\_10\_22 AGIR enreg1160 (varioELcube) - EAS varioEL cube CN". The "File" menu is open, with "Save" highlighted. The background displays a table with the following data:

Method	N Area	C Area	N [%]	C [%]	C/N ratio	N Factor	C Factor
ank with O	16 040	54 446	0.00	0.00	0.0000	1.0000	1.0000
ank with O	16 874	1 358	0.00	0.00	0.0000	1.0000	1.0000
ank with O	345	83	0.00	0.00	0.0000	1.0000	1.0000
ank with O	324	84	0.00	0.00	0.0000	1.0000	1.0000
ank with O	19 323	313 865	1.77	41.31	23.3975	1.0000	1.0000
ank with O	125 705	373 309	9.60	40.53	4.2208	1.0000	1.0000
ank with O	15	221	0.00	0.00	0.0000	1.0000	1.0000
mg150s	245 489	748 844	9.48	40.65	4.2880	1.0013	1.0070
mg150s	245 164	749 356	9.48	40.65	4.2880	0.9962	0.9999
mg150s	246 780	750 626	9.48	40.65	4.2880	0.9909	0.9995
antes 90 mg 180s O2	34 709	724 074	1.42	43.35	30.4599	0.9961	1.0021
antes 90 mg 180s O2	226 466	959 718	7.51	44.72	5.9568	0.9961	1.0021
antes 90 mg 180s O2	36 756	840 704	1.31	43.75	33.3664	0.9961	1.0021
antes 90 mg 180s O2	35 999	817 457	1.30	43.19	33.1349	0.9961	1.0021
antes 90 mg 180s O2	50 125	762 605	2.01	44.57	22.1726	0.9961	1.0021
✓ 16 156516 71.8000 plantes 90 mg 180s O2	36 184	732 884	1.45	42.96	29.5720	0.9961	1.0021

# Vérification de l'état de l'appareil



# Vérification de l'état de l'appareil

cliquer sur **maintenance** (cf. guide de maintenance)

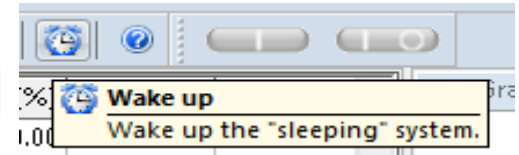
The screenshot displays a chromatography software interface. At the top, a menu bar includes File, Edit, View, System, Math, Statistics, Calibration, Windows, Options, and Help. Below the menu is a toolbar with various icons. The main window is divided into several sections:

- Data Table:** A table with columns: No., Name, Weight [...], Method, N Area, C Area, N [%], C [%], C/N ratio, N Factor, and C Factor. It lists 23 samples, including blanks and plant samples.
- Graphic field:** A plot area with tabs for 'Graphic field', 'Statistic field', and 'Calibration field'. The y-axis is labeled 'TC detect unit' and 'O2 ml/min', ranging from 0 to 300,000. The x-axis ranges from 400 to 600.
- Maintenance intervals dialog box:** A modal window titled 'Maintenance intervals' with a list of components on the left (e.g., combustion tube, cendrier, ball valve) and configuration options on the right. The 'ball valve' is selected, with an interval of 5000 and a standing time of 2518. Mode assignments include CHNS, CNS, CHN, CN, N, O, S, and Cl/IR. The 'If becoming due' options are 'Indication only' (selected) and 'Indication and abort the auto run'. Buttons for 'New', 'Delete', 'Save', and 'Close' are at the bottom.
- Status Bar:** A green bar at the bottom left shows 'Standby'. The bottom right contains various parameters: Process (Standby), Detector (TC detect: 59, TCD temp: 59.7 °C), Temperatures [°C] (948 CO2 column, 606 Valve), Flow [ml/min] (TCD: 229, He: 230, O2: 13), and Press. [mbar] (1762). A 'Maintenance' indicator is highlighted with a red box, showing '50%'.

114. Name: 156610 N [%]: 2.56 C [%]: 44.28

For help, press F1. easadmin/easadmin varioELcube administrator

# Mise sous pression Feeding ou



2014\_10\_22 AGIR enreg1160 (varioELcube) - EAS varioEL cube CN

File Edit View System Math. Statistics Calibration Windows Options Help

Auto run  
Single run  
Stop  
Auto zero  
Wake up  
**Feeding...**  
Carousel position  
Mode...

No.	Name	V		N Area	C Area	N [%]	C [%]	C/N ratio	N Factor	C Factor
✓ 1	BLANC			16 040	54 446	0.00	0.00	0.0000	1.0000	1.0000
✓ 2	BLANC			16 874	1 358	0.00	0.00	0.0000	1.0000	1.0000
✓ 3	BLANC			345	83	0.00	0.00	0.0000	1.0000	1.0000
✓ 4	BLANC			324	84	0.00	0.00	0.0000	1.0000	1.0000
✓ 5	Maïs			19 323	313 865	1.77	41.31	23.3975	1.0000	1.0000
✓ 6	e			125 705	373 309	9.60	40.53	4.2208	1.0000	1.0000
✓ 7	BLANC			15	221	0.00	0.00	0.0000	1.0000	1.0000
✓ 8	glu			245 489	748 844	9.48	40.65	4.2880	1.0013	1.0070
✓ 9	glu		77.4000 20mg150s	245 164	749 356	9.48	40.65	4.2880	0.9962	0.9999
✓ 10	glu		77.5000 20mg150s	246 780	750 626	9.48	40.65	4.2880	0.9909	0.9995
✓ 11	156511		70.3000 plantes 90 mg 180s O2	34 709	724 074	1.42	43.35	30.4599	0.9961	1.0021
Ⓡ 12	156512		90.1000 plantes 90 mg 180s O2	226 466	959 718	7.51	44.72	5.9568	0.9961	1.0021
Ⓡ 13	156513		80.8000 plantes 90 mg 180s O2	36 756	840 704	1.31	43.75	33.3664	0.9961	1.0021
Ⓡ 14	156514		79.6000 plantes 90 mg 180s O2	35 999	817 457	1.30	43.19	33.1349	0.9961	1.0021
✓ 15	156515		72.0000 plantes 90 mg 180s O2	50 125	762 605	2.01	44.57	22.1726	0.9961	1.0021
✓ 16	156516		71.8000 plantes 90 mg 180s O2	36 184	732 884	1.45	42.96	29.5720	0.9961	1.0021





# Check List appareil avant le début des analyses

## Check list appareil

	Date	Valeurs																										
	Opérateur																											
	Nature/echantillon																											
	Méthode utilisée																											
Mano	Pression He	1,8 bar	Manomètres mural au dessus de l'analyseur																									
	Pression O <sub>2</sub>	2,1 bar																										
Température	TDC temp	59,7 +- 0,2	<div style="background-color: #90EE90; text-align: center; padding: 5px;">Valeurs analyseur</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Detector</th> <th>Temper.</th> </tr> </thead> <tbody> <tr> <td>TC detect.</td> <td>253481</td> <td>951</td> </tr> <tr> <td>TCD temp.</td> <td>59.8 °C</td> <td>606</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Flow [ml/min]</th> <th>Press. [mbar]</th> </tr> </thead> <tbody> <tr> <td>TCD</td> <td><input type="text" value="0"/></td> <td>Press. <input type="text" value="16"/></td> </tr> <tr> <td>He</td> <td><input type="text" value="1"/></td> <td>Maintenance</td> </tr> <tr> <td>O<sub>2</sub></td> <td><input type="text" value="13"/></td> <td><input type="text" value="88%"/></td> </tr> </tbody> </table>					Detector		Temper.	TC detect.	253481	951	TCD temp.	59.8 °C	606	Flow [ml/min]		Press. [mbar]	TCD	<input type="text" value="0"/>	Press. <input type="text" value="16"/>	He	<input type="text" value="1"/>	Maintenance	O <sub>2</sub>	<input type="text" value="13"/>	<input type="text" value="88%"/>
	Detector							Temper.																				
	TC detect.	253481						951																				
TCD temp.	59.8 °C	606																										
Flow [ml/min]		Press. [mbar]																										
TCD	<input type="text" value="0"/>	Press. <input type="text" value="16"/>																										
He	<input type="text" value="1"/>	Maintenance																										
O <sub>2</sub>	<input type="text" value="13"/>	<input type="text" value="88%"/>																										
Comb ture	950 +- 6																											
Reduct tube	600 +- 10																											
Flow [ml/min]	TDC	229 +- 10	<div style="background-color: #90EE90; text-align: center; padding: 5px;">Cliquer sur Maintenance </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Event: 2</th> <th>Interval</th> <th>Standing</th> </tr> </thead> <tbody> <tr> <td><input type="text" value="reduction tube"/></td> <td><input type="text" value="300"/></td> <td><input type="text" value="266"/></td> </tr> </tbody> </table>					Event: 2	Interval	Standing	<input type="text" value="reduction tube"/>	<input type="text" value="300"/>	<input type="text" value="266"/>															
	Event: 2	Interval						Standing																				
	<input type="text" value="reduction tube"/>	<input type="text" value="300"/>						<input type="text" value="266"/>																				
	He	231 +- 15																										
O <sub>2</sub>	14 +- 2																											
Press [mbar]	1250 +- 50																											
Maintenance au départ	Tube dessechant G	200																										
	Tube de réduction	250-300																										
	Cendrier	250																										
	Tube dessechant P	600																										
	Tube de combustion	1000																										
	Valve	5000																										

# Positionnement du carrousel

2014\_10\_22 AGIR enreg1160 (varioELcube) - EAS varioEL cube CN

File Edit View System Math. Statistics Calibration Windows Options Help

Auto run  
Single run  
Stop  
Auto zero  
Wake up  
Feeding...  
**Carousel position**  
Mode...

No.	Name	V	N Area	C Area	N [%]	C [%]	C/N ratio	N Factor	C Factor		
✓	1	BLANC	16 040	54 446	0.00	0.00	0.0000	1.0000	1.0000		
✓	2	BLANC	16 874	1 358	0.00	0.00	0.0000	1.0000	1.0000		
✓	3	BLANC	345	83	0.00	0.00	0.0000	1.0000	1.0000		
✓	4	BLANC	324	84	0.00	0.00	0.0000	1.0000	1.0000		
✓	5	Mais	19 323	313 865	1.77	41.31	23.3975	1.0000	1.0000		
✓	6	e	125 705	373 309	9.60	40.53	4.2208	1.0000	1.0000		
✓	7	BLANC	15	221	0.00	0.00	0.0000	1.0000	1.0000		
✓	8	glu	245 489	748 844	9.48	40.65	4.2880	1.0013	1.0070		
✓	9	glu	77.4000	20mg150s	245 164	749 356	9.48	40.65	4.2880	0.9962	0.9999
✓	10	glu	77.5000	20mg150s	246 780	750 626	9.48	40.65	4.2880	0.9909	0.9995
✓	11	156511	70.3000	plantes 90 mg 180s O2	34 709	724 074	1.42	43.35	30.4599	0.9961	1.0021
Ⓢ✓	12	156512	90.1000	plantes 90 mg 180s O2	226 466	959 718	7.51	44.72	5.9568	0.9961	1.0021
Ⓢ✓	13	156513	80.8000	plantes 90 mg 180s O2	36 756	840 704	1.31	43.75	33.3664	0.9961	1.0021
Ⓢ✓	14	156514	79.6000	plantes 90 mg 180s O2	35 999	817 457	1.30	43.19	33.1349	0.9961	1.0021
✓	15	156515	72.0000	plantes 90 mg 180s O2	50 125	762 605	2.01	44.57	22.1726	0.9961	1.0021
✓	16	156516	71.8000	plantes 90 mg 180s O2	36 184	732 884	1.45	42.96	29.5720	0.9961	1.0021

# Positionnement du carousel

File Edit View System Math. Statistics Calibration Windows Options Help

No.	Name	Weight [...]	Method	N Area	C Area	N [%]	C [%]	C/N ratio	N Factor	C Factor
✓ 1	BLANC	100.0000	Blank with O	16 040	54 446	0.00	0.00	0.0000	1.0000	1.0000
✓ 2	BLANC	100.0000	Blank with O	16 874	1 358	0.00	0.00	0.0000	1.0000	1.0000
✓ 3	BLANC	100.0000	Blank with O	345	83	0.00	0.00	0.0000	1.0000	1.0000
✓ 4	BLANC	100.0000	Blank with O	324	84	0.00	0.00	0.0000	1.0000	1.0000
✓ 5	Mais	31.8000	Blank with O	19 323	313 865	1.77	41.31	23.3975	1.0000	1.0000
✓ 6	e	38.6000	Blank with O	125 705	373 309	9.60	40.53	4.2208	1.0000	1.0000
✓ 7	BLANC	100.0000	Blank with O	15	221	0.00	0.00	0.0000	1.0000	1.0000
✓ 8	glu	77.9000	20mg150s	245 489	748 844	9.48	40.53	4.2208	1.0000	1.0000
✓ 9	glu	77.4000	20mg150s	245 164	749 356	9.48	40.53	4.2208	1.0000	1.0000
✓ 10	glu	77.5000	20mg150s	246 780	750 626	9.48	40.53	4.2208	1.0000	1.0000
✓ 11	156511	70.3000	plantes 90 mg 180s O2	34 709	724 074	1.42	43.24	30.4571	0.9901	1.0021
✓ 12	156512	90.1000	plantes 90 mg 180s O2	226 466	959 718	7.51	44.21	13.0818	0.9961	1.0021
✓ 13	156513	80.8000	plantes 90 mg 180s O2	36 756	840 704	1.31	43.24	32.4382	0.9961	1.0021
✓ 14	156514	79.6000	plantes 90 mg 180s O2	35 999	817 457	1.30	43.24	32.4382	0.9961	1.0021
✓ 15	156515	72.0000	plantes 90 mg 180s O2	50 125	762 605	2.01	44.21	13.0818	0.9961	1.0021
✓ 16	156516	71.8000	plantes 90 mg 180s O2	36 184	732 884	1.45	42.33	32.4382	0.9961	1.0021
✓ 17	156517	75.5000	plantes 90 mg 180s O2	75 315	810 705	2.90	45.20	15.6170	0.9961	1.0021
✓ 18	156518	70.1000	plantes 90 mg 180s O2	22 451	742 327	0.93	44.21	32.4382	0.9961	1.0021
✓ 19	156519	69.3000	plantes 90 mg 180s O2	77 805	742 473	3.26	45.20	13.0818	0.9961	1.0021
✓ 20	156520	69.2000	plantes 90 mg 180s O2	36 837	728 545	1.53	44.21	32.4382	0.9961	1.0021
✓ 21	156521	71.4000	plantes 90 mg 180s O2	34 326	750 920	1.39	44.20	31.9574	0.9901	1.0021
✓ 22	156522	72.0000	plantes 90 mg 180s O2	80 168	724 208	3.24	42.33	13.0818	0.9961	1.0021
✓ 23	156523	72.2000	plantes 90 mg 180s O2	34 141	758 609	1.36	44.21	32.4382	0.9961	1.0021

Graphic field    Statistic field    Calibration field

TC detect unit    O2 ml/min

No.: 3 BLANC

[sec.]

Select Carousel Position

!!! CAUTION !!!  
This function should only be carried out after ALL samples have been removed from the carousel!

Please confirm:  
All samples removed from the carousel

Position    0

Reference run

OK    Cancel

Process    Detector    Temperatures [°C]:    Flow [ml/min]    Press. [mbar]

Standby    TC detect.    62    Comb. tube    943 CO2 column    25    TCD    229    Press.    1256

TC detect temp.    59.7 °C    Reduct. tube    595 Valve    122    He    230    Maintenance

O2    13    50%

114. Name: 156610 N [%]: 2.56 C [%]: 44.28

For help, press F1.    easadmin/easadmin    varioElcube administrator

# Création d'une nouvelle session

The screenshot shows a software window titled "2014\_10\_22 AGIR enreg1160 (varioELcube) - EAS varioEL cube CN". The "File" menu is open, with "New" selected. The menu items are: New (Ctrl+N), Open... (Ctrl+O), Save (Ctrl+S), Save as..., Delete, Report configuration..., Print... (Ctrl+P), Print preview..., Printer setup..., Export/Import, Backup/Restore, User logon, Logoff, and Exit.

The background shows a data table with the following columns: Method, N Area, C Area, N [%], C [%], C/N ratio, N Factor, and C Factor. The table contains 16 rows of data, with the second row highlighted in blue.

Method	N Area	C Area	N [%]	C [%]	C/N ratio	N Factor	C Factor
ank with O	16 040	54 446	0.00	0.00	0.0000	1.0000	1.0000
ank with O	16 874	1 358	0.00	0.00	0.0000	1.0000	1.0000
ank with O	345	83	0.00	0.00	0.0000	1.0000	1.0000
ank with O	324	84	0.00	0.00	0.0000	1.0000	1.0000
ank with O	19 323	313 865	1.77	41.31	23.3975	1.0000	1.0000
ank with O	125 705	373 309	9.60	40.53	4.2208	1.0000	1.0000
ank with O	15	221	0.00	0.00	0.0000	1.0000	1.0000
mg150s	245 489	748 844	9.48	40.65	4.2880	1.0013	1.0070
mg150s	245 164	749 356	9.48	40.65	4.2880	0.9962	0.9999
mg150s	246 780	750 626	9.48	40.65	4.2880	0.9909	0.9995
antes 90 mg 180s O2	34 709	724 074	1.42	43.35	30.4599	0.9961	1.0021
antes 90 mg 180s O2	226 466	959 718	7.51	44.72	5.9568	0.9961	1.0021
antes 90 mg 180s O2	36 756	840 704	1.31	43.75	33.3664	0.9961	1.0021
antes 90 mg 180s O2	35 999	817 457	1.30	43.19	33.1349	0.9961	1.0021
antes 90 mg 180s O2	50 125	762 605	2.01	44.57	22.1726	0.9961	1.0021
antes 90 mg 180s O2	36 184	732 884	1.45	42.96	29.5720	0.9961	1.0021

# Fichier vierge pour importation Excel

Préparation préalable des standards et des contrôles

File Edit View System Math. Statistics Calibration Windows Options Help

No.	Name	Weight [...]	Method	N Area	C Area	N [%]	C [%]	C/N ratio	N Factor	C Factor
1		0.0000		0	0	0.00	0.00	0.0000	1.0000	1.0000
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										

Graphic field    Statistic field    Calibration field

No.: 1

Process: Sleeping    Detector: TC detect. 0, TCD temp. 59.7 °C    Comb. tube 944 CO2 column 25, Reduct. tube 606 Valve 121    Temperatures [°C]: 25, 121    Flow [ml/min]: TCD 0, He 1, O2 13    Press. [mbar]: 1.77, Maintenance 50%

1. Name: N [%]: 0.00 C [%]: 0.00



# Mise en place du fichier

les points rouge indiquent des cellules non renseignées ( ex: colonne Method )

The screenshot displays a chromatography software interface. On the left, a table lists 23 samples with columns for No., Name, Weight, Method, N Area, C Area, N [%], C [%], C/N ratio, N Factor, and C Factor. The 'Method' column is highlighted in green, and red squares are present in the 'No.' column for all rows. On the right, a 'Graphic field' shows a blank chromatogram with a y-axis labeled 'TC detect unit' (0 to 300,000) and an x-axis labeled '[sec.]' (0 to 600). Below the table, a status bar shows process parameters: Process (Sleeping), Detector (TC detect, 242279, TCD temp. 59.7 °C), Temperatures (950 °C, 595 °C), Flow (0 ml/min He, 13 ml/min O2), and Press. (61 mbar, Maintenance 50%).

No.	Name	Weight [...]	Method	N Area	C Area	N [%]	C [%]	C/N ratio	N Factor	C Factor
1	bla	100.0000		0	0	0.00	0.00	0.0000	1.0000	1.0000
2	bla	100.0000		0	0	0.00	0.00	0.0000	1.0000	1.0000
3	bla	100.0000		0	0	0.00	0.00	0.0000	1.0000	1.0000
4	mais	19.0700		0	0	0.00	0.00	0.0000	1.0000	1.0000
5	edta	19.7400		0	0	0.00	0.00	0.0000	1.0000	1.0000
6	bla	100.0000		0	0	0.00	0.00	0.0000	1.0000	1.0000
7	glu	56.0100		0	0	0.00	0.00	0.0000	1.0000	1.0000
8	glu	54.6400		0	0	0.00	0.00	0.0000	1.0000	1.0000
9	glu	53.3300		0	0	0.00	0.00	0.0000	1.0000	1.0000
10	bla	100.0000		0	0	0.00	0.00	0.0000	1.0000	1.0000
11	acid glu	0.6600		0	0	0.00	0.00	0.0000	1.0000	1.0000
12	acid glu	1.4100		0	0	0.00	0.00	0.0000	1.0000	1.0000
13	acid glu	2.3500		0	0	0.00	0.00	0.0000	1.0000	1.0000
14	acid glu	3.3100		0	0	0.00	0.00	0.0000	1.0000	1.0000
15	acid glu	4.3900		0	0	0.00	0.00	0.0000	1.0000	1.0000
16	acid glu	7.0300		0	0	0.00	0.00	0.0000	1.0000	1.0000
17	acid glu	10.8700		0	0	0.00	0.00	0.0000	1.0000	1.0000
18	acid glu	14.9600		0	0	0.00	0.00	0.0000	1.0000	1.0000
19	acid glu	19.3400		0	0	0.00	0.00	0.0000	1.0000	1.0000
20	acid glu	27.4600		0	0	0.00	0.00	0.0000	1.0000	1.0000
21	acid glu	32.1700		0	0	0.00	0.00	0.0000	1.0000	1.0000
22	acid glu	38.2500		0	0	0.00	0.00	0.0000	1.0000	1.0000
23	acid glu	43.2200		0	0	0.00	0.00	0.0000	1.0000	1.0000

Process: Sleeping  
 Detector: TC detect, 242279, TCD temp. 59.7 °C  
 Temperatures [°C]: Comb. tube 950, CO2 column 23, Reduct. tube 595, Valve 123  
 Flow [ml/min]: TCD 0, He 1, O2 13  
 Press. [mbar]: 61, Maintenance 50%

1. Name: bla N [%]: 0.00 C [%]: 0.00

For help, press F1. easadmin/easadmin varioELcube administrator



# Convention

Création Fichier Excel machine format  
(AAAA\_MM\_JJ UNITE)

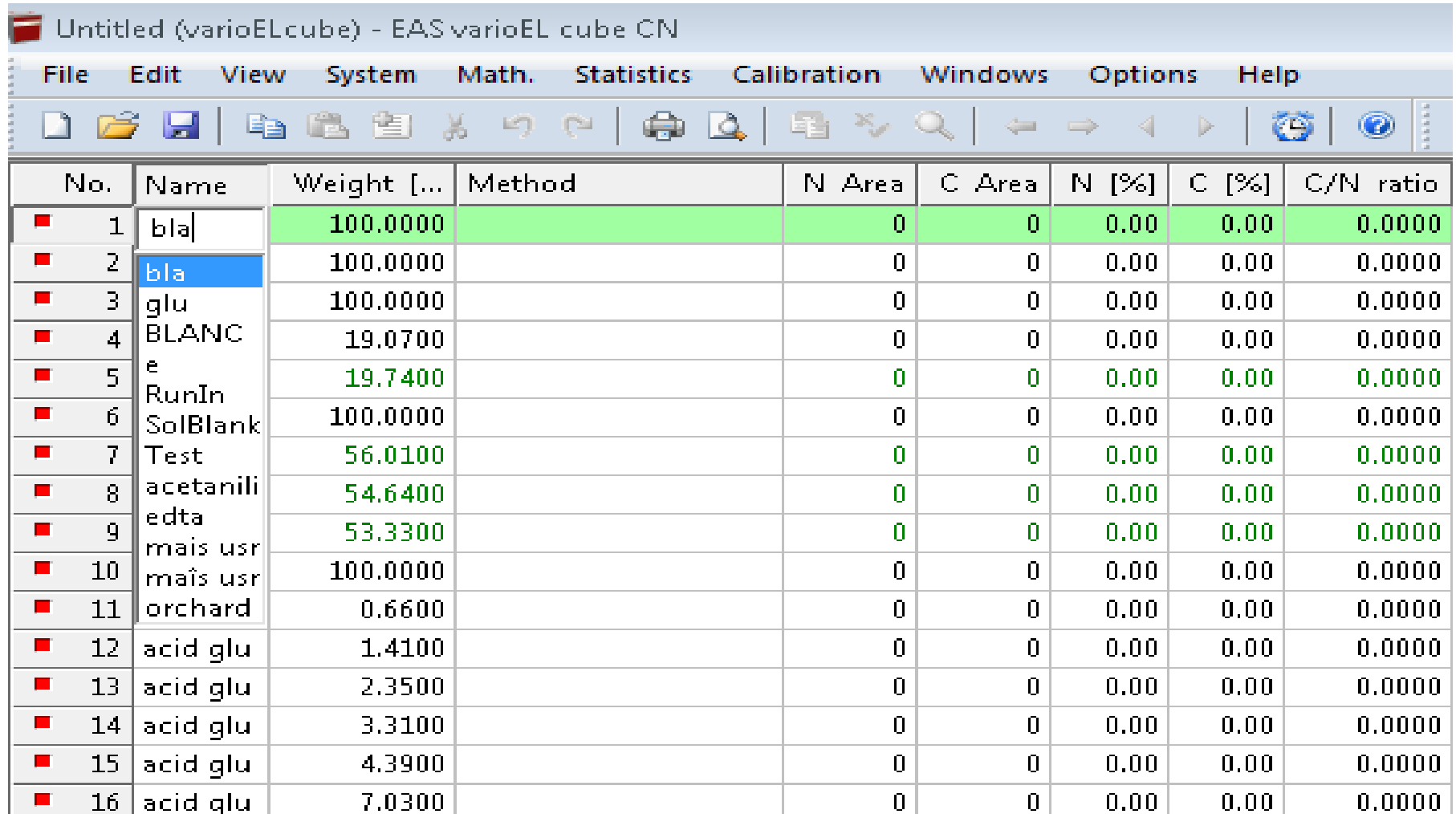
Dénomination Usuelle	Code machine	Masse préconisée	Méthodes
Blancs	BLC	100mg	Blank withO
Standard bas	maïs	20mg	20mg 150s
Standard haut	EDTA A	20 mg	20mg 150s
Etalon 1/2/3	glu	50mg	90mg 180s
Contrôles	control N°	60mg	90mg 180s
Tous les 20 échantillons plus 1 en fin de série			
Echantillons Poudre végétale ou autres	N° labo	50 à 70mg	90mg 180s

# Utilisation du menu déroulant: Name

blancs->Blc, standards->maïs et EDTA A, acide glutamique->glu

Untitled (varioELcube) - EAS varioEL cube CN

File Edit View System Math. Statistics Calibration Windows Options Help



No.	Name	Weight [...]	Method	N Area	C Area	N [%]	C [%]	C/N ratio
1	bla	100.0000		0	0	0.00	0.00	0.0000
2	bla	100.0000		0	0	0.00	0.00	0.0000
3	glu	100.0000		0	0	0.00	0.00	0.0000
4	BLANC	19.0700		0	0	0.00	0.00	0.0000
5	e	19.7400		0	0	0.00	0.00	0.0000
6	RunIn	100.0000		0	0	0.00	0.00	0.0000
7	SolBlank	56.0100		0	0	0.00	0.00	0.0000
8	Test	54.6400		0	0	0.00	0.00	0.0000
9	acetanili	53.3300		0	0	0.00	0.00	0.0000
10	edta	100.0000		0	0	0.00	0.00	0.0000
11	mais usr	0.6600		0	0	0.00	0.00	0.0000
12	maïs usr	1.4100		0	0	0.00	0.00	0.0000
13	orchard	2.3500		0	0	0.00	0.00	0.0000
14	acid glu	3.3100		0	0	0.00	0.00	0.0000
15	acid glu	4.3900		0	0	0.00	0.00	0.0000
16	acid glu	7.0300		0	0	0.00	0.00	0.0000

# Utilisation du menu déroulant: Method

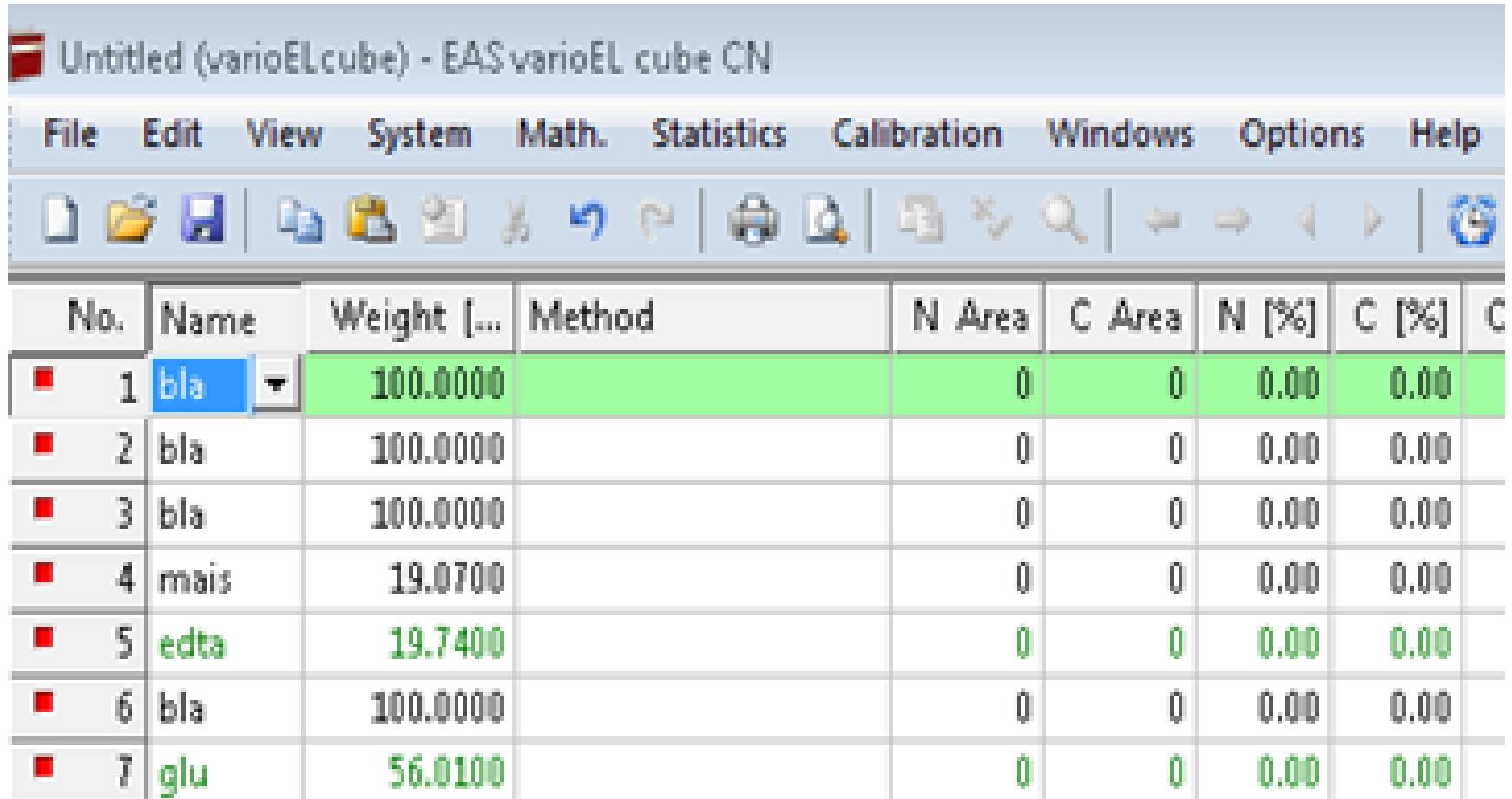
- BLC (masse fictive 100mg) → Blank with O
- standards (masse environ 20mg) → 20mg 150s
- contrôles (masse entre 50 et 60mg) → 90mg 180s
- échantillons végétaux (masse environ 60mg) → 90mg 180s

No.	Name	Weight [...]	Method	N Area	C Area	N [%]	C [%]
1		0.0000	plantes 90	0	0	0.00	0.00
2			30mg180s				
3			30mg180sIRMS				
4			30mg180sIRMS_cal				
5			40mg210s				
6			5mg90s				
7			5mg90sIRMS				
8			5mg90sIRMS_cal				
9			60mg250s				
10			Blank with O				
11			Blank without O				
12			plantes 60 mg 150s O2				
13			plantes 90 mg 180s O2				

Echantillons →

# Modifier un identifiant ou une pesée

après avoir sélectionné la cellule, saisir l'identifiant, idem pour le poids



The screenshot shows the EAS varioEL cube CN software interface. The title bar reads "Untitled (varioELcube) - EAS varioEL cube CN". The menu bar includes File, Edit, View, System, Math., Statistics, Calibration, Windows, Options, and Help. The toolbar contains icons for file operations (New, Open, Save, Print, Copy, Paste), editing (Undo, Redo), and navigation (Home, Previous, Next, End). Below the toolbar is a table with the following data:

No.	Name	Weight [...]	Method	N Area	C Area	N [%]	C [%]	C
1	bla	100.0000		0	0	0.00	0.00	
2	bla	100.0000		0	0	0.00	0.00	
3	bla	100.0000		0	0	0.00	0.00	
4	mais	19.0700		0	0	0.00	0.00	
5	edta	19.7400		0	0	0.00	0.00	
6	bla	100.0000		0	0	0.00	0.00	
7	glu	56.0100		0	0	0.00	0.00	

# Positionnement intermédiaire: Stop Tag

Clic droit sur le numéro de ligne choisi -> set stop tag  
dans l'exemple le panneau stop remontera en ligne 2

No.	Name	Weight [...]	Method	N Area	C Area	N [%]	C [%]	C/N ratio	N Factor	C Factor	Memo
1	blc	100.0000	10mg120s	0	0	0.00	0.00	0.0000	1.0000	1.0000	
2	165789	200.0000	Blank with O	0	0	0.00	0.00	0.0000	1.0000	1.0000	
3	toto	50.0000	Blank with O	0	0	0.00	0.00	0.0000	1.0000	1.0000	
4	blab	100.0000	Blank with O	0	0	0.00	0.00	0.0000	1.0000	1.0000	
5		0.0000		0	0	0.00	0.00	0.0000	1.0000	1.0000	

No.	Name	Weight [...]	Method	N Area	C Area	N [%]	C [%]	C/N ratio	N Factor	C Factor	Memo
1	blc	100.0000	10mg120s	0	0	0.00	0.00	0.0000	1.0000	1.0000	
2	165789	200.0000	Blank with O	0	0	0.00	0.00	0.0000	1.0000	1.0000	
3	toto	50.0000	Blank with O	0	0	0.00	0.00	0.0000	1.0000	1.0000	
4	blabla	100.0000	Blank with O	0	0	0.00	0.00	0.0000	1.0000	1.0000	
5		0.0000		0	0	0.00	0.00	0.0000	1.0000	1.0000	

No.	Name	Weight [...]	Method	N Area	C Area	N [%]	C [%]	C/N ratio	N Factor	C Factor	Memo
1	blc	100.0000	10mg120s	0	0	0.00	0.00	0.0000	1.0000	1.0000	
2	165789	200.0000	Blank with O	0	0	0.00	0.00	0.0000	1.0000	1.0000	
3	toto	50.0000	Blank with O	0	0	0.00	0.00	0.0000	1.0000	1.0000	
4	blabla	100.0000	Blank with O	0	0	0.00	0.00	0.0000	1.0000	1.0000	
5		0.0000		0	0	0.00	0.00	0.0000	1.0000	1.0000	

Set Stop Tag

Stop tag at: 2

OK Cancel

# Démarrer les analyses

bouton vert (Auto) ou analyse pas a pas (Single)

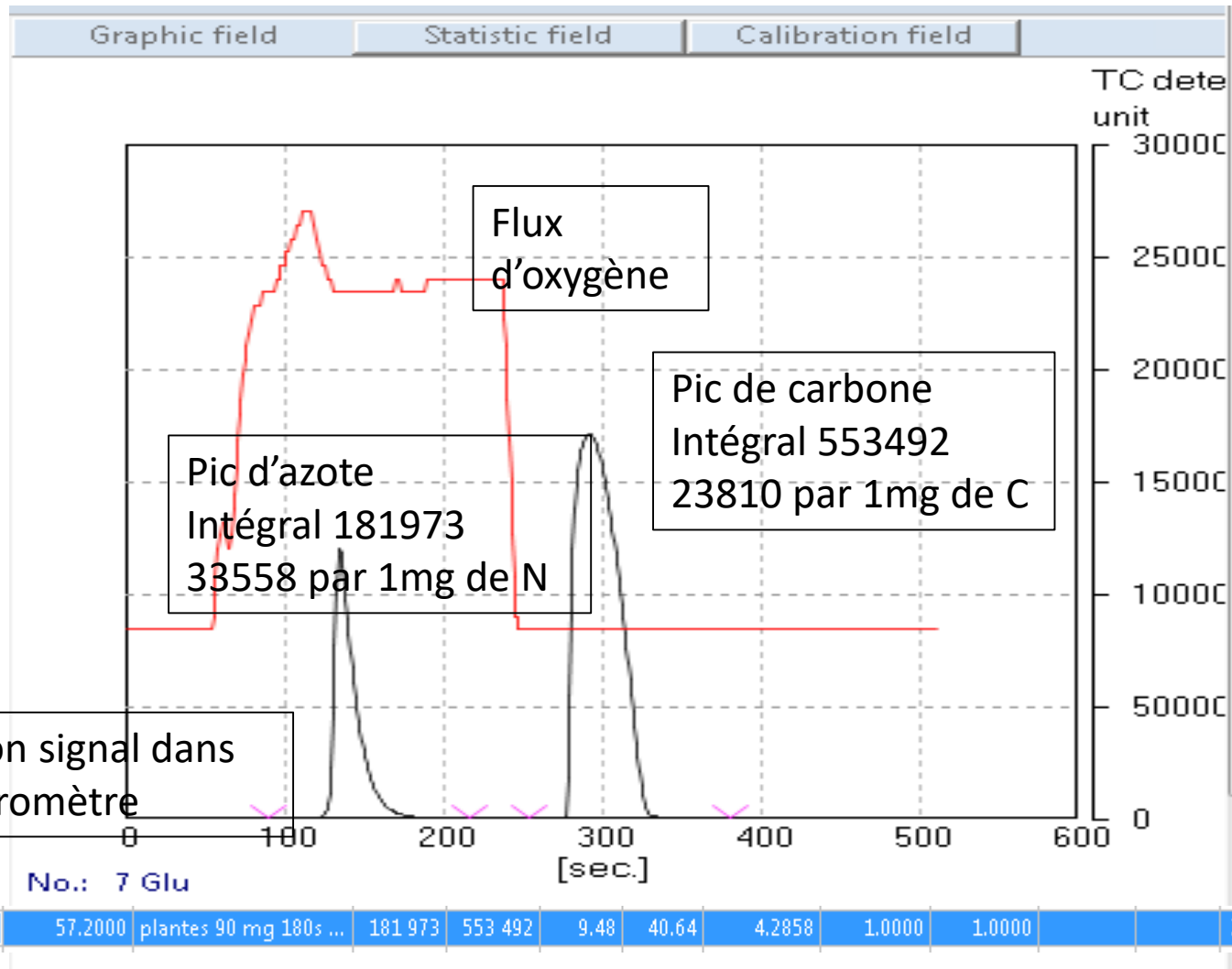
The screenshot shows a software window with a menu bar (File, Edit, View, System, Math, Statistics, Calibration, Windows, Options, Help) and a toolbar. Below the toolbar is a table with the following data:

No.	Name	Weight [...]	Method	N Area	C Area	N [%]	C [%]	C/N ratio	N Fac	C Fac
1	blc	100.0000	10mg120s	0	0	0.00	0.00	0.0000	1.0000	1.0000
2	165789	200.0000	Blank with O	0	0	0.00	0.00	0.0000	1.0000	1.0000
3	toto	50.0000	Blank with O	0	0	0.00	0.00	0.0000	1.0000	1.0000
4	blabla	100.0000	Blank with O	0	0	0.00	0.00	0.0000	1.0000	1.0000
5		0.0000		0	0	0.00	0.00	0.0000	1.0000	1.0000
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										

Two control buttons are visible on the right side of the interface:

- Auto**: Start an auto analysis. (Green button)
- Single**: Start a single analysis or terminate auto analysis. (Red button)

# Graphique type: 57,2mg acide glutamique







# N et C daily factor

## valeurs acceptées entre 0,98 et 1,02

No.	Name	Weight [...]	Method	N Area	C Area	N [%]	C [%]	C/N ratio	N Factor
1	blc	100.0000	Blank with O	22 882...	12 760	0.00	0.51	0.0000	1.0000
2	blc	100.0000	Blank with O	0	84	0.00	0.00	0.0000	1.0000
3	blc	100.0000	Blank with O	0	56	0.00	0.00	0.0000	1.0000
4	glu	23.9000	20mg150s	76 966	232 136	9.48	40.65	4.2880	1.0098
5	glu	22.7000	20mg150s	73 136	220 429	9.48	40.65	4.2880	1.0102
6	glu	26.4000	20mg150s	88 345	266 163	9.48	40.65	4.2880	0.9691
7	blc	100.0000	Blank with O	0	339	0.00	0.01	0.0000	0.9964

Valeurs non retenues

Affecter le coefficient 1 pour connaître les valeurs réelles du standard  
Utiliser la flèche de commande arrière pour revenir aux valeurs initiales

No.	Name	Weight [...]	Method	N Area	C Area	N [%]	C [%]	C/N ratio	N Factor
1	blc	100.0000	Blank with O	22 882...	12 760	0.00	0.51	0.0000	1.0000
2	blc	100.0000	Blank with O	0	84	0.00	0.00	0.0000	1.0000
3	blc	100.0000	Blank with O	0	56	0.00	0.00	0.0000	1.0000
4	glu	23.9000	20mg150s	76 966	232 136	9.39	40.65	4.3298	1.0000
5	glu	22.7000	20mg150s	73 136	220 429	9.38	40.65	4.3318	1.0000
6	glu	26.4000	20mg150s	88 345	266 163	9.78	40.65	4.1554	1.0000
7	blc	100.0000	Blank with O	0	339	0.00	0.01	0.0000	1.0000

# Positionnement du Stop Tag en fin d'analyse

The image illustrates the process of setting a stop tag at the end of an analysis in a software application. It consists of three sequential screenshots of the software interface, showing a table of samples and the steps to set a stop tag.

**Table 1 (Left):** Shows a list of samples. Row 10 is highlighted with a red 'STOP' tag. The 'Weight' column for row 15 is highlighted in yellow.

No.	Name	Weight [...]
1	Blc	100.0000
2	Blc	100.0000
3	Blc	100.0000
4	sol leco	20.0000
5	mais usr...	20.0000
6	EDTA.A	20.0000
7	Blc	1000.0000
8	glu	50.0000
9	glu	50.0000
STOP 10	glu	50.0000
11	toto1	60.0000
12	toto2	60.0000
13	toto3	60.0000
14	control1	60.0000
15		0.0000
16		
17		
18		

**Table 2 (Middle):** Shows the same table, but with a context menu open over row 10. The 'Set stop tag...' option is selected. The 'Weight' column for row 15 is highlighted in yellow.

No.	Name	Weight [...]	Method	N
1	Blc	100.0000	Blank with O	
2	Blc	100.0000	Blank with O	
3	Blc	100.0000	Blank with O	
4	sol leco	20.0000	20mg150s	
5	mais usr...	20.0000	20mg150s	
6	EDTA.A	20.0000	20mg150s	
7	Blc	1000.0000	Blank with O	
8	glu	50.0000	plantes 90 mg 180s ...	
9	glu	50.0000	plantes 90 mg 180s ...	
STOP 10	glu	50.0000	plantes 90 mg 180s ...	
11	toto1	60.0000	plantes 90 mg 180s ...	
12	toto2	60.0000	plantes 90 mg 180s ...	
13	toto3	60.0000	plantes 90 mg 180s ...	
14	contr...			
15				
16				
17				
18				

**Table 3 (Right):** Shows the same table, but with a 'Set Stop Tag' dialog box open. The 'Stop tag at' field is set to 14. The 'Weight' column for row 15 is highlighted in yellow.

No.	Name	Weight [...]	Method	N	Area
1	Blc	100.0000	Blank with O		0
2	Blc	100.0000	Blank with O		0
3	Blc	100.0000	Blank with O		0
4	sol leco	20.0000	20mg150s		0
5	mais usr...	20.0000	20mg150s		0
6	EDTA.A	20.0000	20mg150s		0
7	Blc	1000.0000	Blank with O		0
8	glu	50.0000	plantes 90 mg 180s ...		0
9	glu	50.0000	plantes 90 mg 180s ...		0
STOP 10	glu	50.0000	plantes 90 mg 180s ...		0
11	toto1				
12	toto2				
13	toto3				
14	contr...				
15					
16					
17					
18					

**Dialog Box (Right):** 'Set Stop Tag' dialog box. The 'Stop tag at' field is set to 14. The 'OK' and 'Cancel' buttons are visible.

# Positionnement début d'analyse après validation des standards

The screenshot displays a software interface with a menu bar (File, Edit, View, System, Math, Statistics, Calibration, Windows, Options, Help) and a toolbar. Below the toolbar is a table with the following columns: No., Name, Weight [...], Method, N Area, C Area, N [%], C [%], C/N ratio, N Factor, and C Factor. The table contains 23 rows of data. Row 14 is highlighted in red and has a 'STOP' icon in the 'No.' column. A context menu is open over row 14, showing options: 'Set current sample...', 'Set stop tag...', and 'Set current weight...'. A dialog box titled 'Select Current Sample' is also open, with a text input field containing '11' and 'Current sample at:' label. The dialog has 'OK' and 'Cancel' buttons.

No.	Name	Weight [...]	Method	N Area	C Area	N [%]	C [%]	C/N ratio	N Factor	C Factor
1	Blc	100.0000	Blank with O	0	0	0.00	0.00	0.0000	1.0000	1.0000
2	Blc	100.0000	Blank with O	0	0	0.00	0.00	0.0000	1.0000	1.0000
3	Blc	100.0000	Blank with O	0	0	0.00	0.00	0.0000	1.0000	1.0000
4	sol leco	20.0000	20mg150s	0	0	0.00	0.00	0.0000	1.0000	1.0000
5	mais usr...	20.0000	20mg150s	0	0	0.00	0.00	0.0000	1.0000	1.0000
6	EDTA A	20.0000	20mg150s	0	0	0.00	0.00	0.0000	1.0000	1.0000
7	Blc	1000.0000	Blank with O	0	0	0.00	0.00	0.0000	1.0000	1.0000
8	glu	50.0000	plantes 90 mg 180s ...	0	0	0.00	0.00	0.0000	1.0000	1.0000
9	glu	50.0000	plantes 90 mg 180s ...	0	0	0.00	0.00	0.0000	1.0000	1.0000
10	glu	50.0000	plantes 90 mg 180s ...	0	0	0.00	0.00	0.0000	1.0000	1.0000
11	toto1	60	)s ...	0	0	0.00	0.00	0.0000	1.0000	1.0000
12	toto2	60	)s ...	0	0	0.00	0.00	0.0000	1.0000	1.0000
13	toto3	60	)s ...	0	0	0.00	0.00	0.0000	1.0000	1.0000
14	controll	60	)s ...	0	0	0.00	0.00	0.0000	1.0000	1.0000
15				0	0	0.00	0.00	0.0000	1.0000	1.0000
16										
17										
18										
19										
20										
21										
22										
23										









# Mise en veille de l'analyseur

The screenshot shows a software application window titled "2014\_11\_27 AGIR (varioELcube) - EAS varioEL cube CN". The interface includes a menu bar with "File", "Edit", "View", "System", "Math.", "Statistics", "Calibration", "Windows", "Options", and "Help". Below the menu bar is a toolbar with various icons. The main area contains a data table with columns: No., Name, Weight [...], Method, N Area, C Area, and several numerical columns. The table lists 23 rows of data, including samples like "Blc", "Mais", "EDTA A", and "Glu". The "Options" menu is open, showing sub-menus: "Maintenance", "Diagnostics", "Settings" (highlighted), "Configuration", and "Service". The "Settings" sub-menu is also open, listing options such as "Input...", "Standards...", "Keywords...", "Acoustic signals...", "Calculation...", "LIMS...", "Parameters...", "Methods...", "Error handling...", and "Sleep / Wake up..." (highlighted). A green bar is visible on the right side of the screen.

No.	Name	Weight [...]	Method	N Area	C Area								
1	Blc	100.0000	Blank with O	0	3 323								
2	Blc	100.0000	Blank with O	0	102								
3	Blc	100.0000	Blank with O	27	91								
4	Mais	20.3000	20mg150s	9 318	204 502								
5	EDTA A	19.3000	20mg150s	62 995	189 716	9.48	40.91	4.30					
6	Blc	100.0000	Blank with O	0	316	0.00	0.01	0.00					
7	Glu	57.2000	plantes 90 mg 180s ...	181 973	553 492	9.48	40.65	4.28					
8	Glu	56.8000	plantes 90 mg 180s ...	180 973	550 504	9.48	40.65	4.28					
9	Glu	56.9000	plantes 90 mg 180s ...	181 438	550 399	9.48	40.65	4.28					
10	165790	61.3000	plantes 90 mg 180s ...	12 696	615 548	0.60	42.17	69.70					
11	165791	63.4000	plantes 90 mg 180s ...	11 972	639 445	0.55	42.36	76.79					
12	165792	67.3000	plantes 90 mg 180s ...	13 110	682 126	0.57	42.57	74.80					
13	165793	63.2000	plantes 90 mg 180s ...	13 157	621 998	0.61	41.34	67.90					
14	165794	64.7000	plantes 90 mg 180s ...	12 653	638 551	0.57	41.45	72.56					
15	165795	63.0000	plantes 90 mg 180s ...	12 497	647 428	0.58	43.16	74.4879	0.9986	0.9999			
16	165797	60.5000	plantes 90 mg 180s ...	11 478	614 083	0.55	42.63	76.9230	0.9986	0.9999			
17	165798	64.7000	plantes 90 mg 180s ...	13 565	635 709	0.61	41.27	67.3823	0.9986	0.9999			
18	165799	65.1000	plantes 90 mg 180s ...	15 051	635 183	0.67	40.98	60.8199	0.9986	0.9999			
19	165800	61.8000	plantes 90 mg 180s ...	11 542	621 174	0.55	42.22	77.3817	0.9986	0.9999			
20	165829	62.9000	plantes 90 mg 180s ...	12 936	646 970	0.60	43.20	71.9122	0.9986	0.9999			
21	165831	63.8000	plantes 90 mg 180s ...	14 254	620 210	0.65	40.83	62.6265	0.9986	0.9999			
22	165837	61.6000	plantes 90 mg 180s ...	18 503	614 907	0.87	41.93	48.0788	0.9986	0.9999			
23	165838	60.7000	plantes 90 mg 180s ...	18 534	599 372	0.89	41.47	46.7876	0.9986	0.9999			



# Mise en veille de l'analyseur (sleep now)

INDA

File Edit View System Math. Statistics Calibration Windows Options Help

No.	Name	Weight [...]	Method	N Area	C Area	N [%]	C [%]	C/N ratio	N Factor	C Factor	Memo	In
1	Blc	100.0000	Blank with O	0	3 323	0.00	0.13	0.0000	1.0000	1.0000		Nr
2	Blc	100.0000	Blank with O	0	102	0.00	0.00	0.0000	1.0000	1.0000		Nr
3	Blc	100.0000	Blank with O	27	91	0.00	0.00	4.6583	1.0000	1.0000		Nu
4	Maïs	20.3000	20mg150s	9 318	204 502	1.24	41.07	21.2501	1.0000	1.0000		Nu
5	EDTA.A	19.3000	20mg150s	62 995	189 716							
6	Blc	100.0000	Blank with O	0	316							
7	Glu	57.2000	plantes 90 mg 180s ...	181 973	553 492							
8	Glu	56.8000	plantes 90 mg 180s ...	180 973	550 504							
9	Glu	56.9000	plantes 90 mg 180s ...	181 438	550 399							
10	165790	61.3000	plantes 90 mg 180s ...	12 696	615 548							
11	165791	63.4000	plantes 90 mg 180s ...	11 972	639 445							
12	165792	67.3000	plantes 90 mg 180s ...	13 110	682 126							
13	165793	63.2000	plantes 90 mg 180s ...	13 157	621 998							
14	165794	64.7000	plantes 90 mg 180s ...	12 653	638 551							
15	165795	63.0000	plantes 90 mg 180s ...	12 497	647 428							
16	165797	60.5000	plantes 90 mg 180s ...	11 478	614 083							
17	165798	64.7000	plantes 90 mg 180s ...	13 565	635 709							
18	165799	65.1000	plantes 90 mg 180s ...	15 051	635 183							
19	165800	61.8000	plantes 90 mg 180s ...	11 542	621 174							
20	165829	62.9000	plantes 90 mg 180s ...	12 936	646 970							
21	165831	63.8000	plantes 90 mg 180s ...	14 254	620 210							
22	165837	61.6000	plantes 90 mg 180s ...	18 503	614 907							
23	165838	60.7000	plantes 90 mg 180s ...	18 534	599 372							

Sleep / Wake Up Options

Sleeping

- Sleeping deactivated
- Sleeping at end of samples
- Sleeping at sample No.:

Reduce carrier gas to:  %

Reduce comb.tube temp.:  °C

Reduce reduct.tube temp.:  °C

Reduce oven 3 temp.:  °C

Wake up

Time (hh:mm):

Date (tt.mm.jjjj):

- One-time wake up at date/time mentioned above
- Daily wake up at time mentioned above except on:

Mo.  Tu.  We.  Th.  Fr.  Sa.  Su.

Continuous run after wake up if samples are available

OK Cancel

o.: 1