



# SvanPC

**Short User Guide**

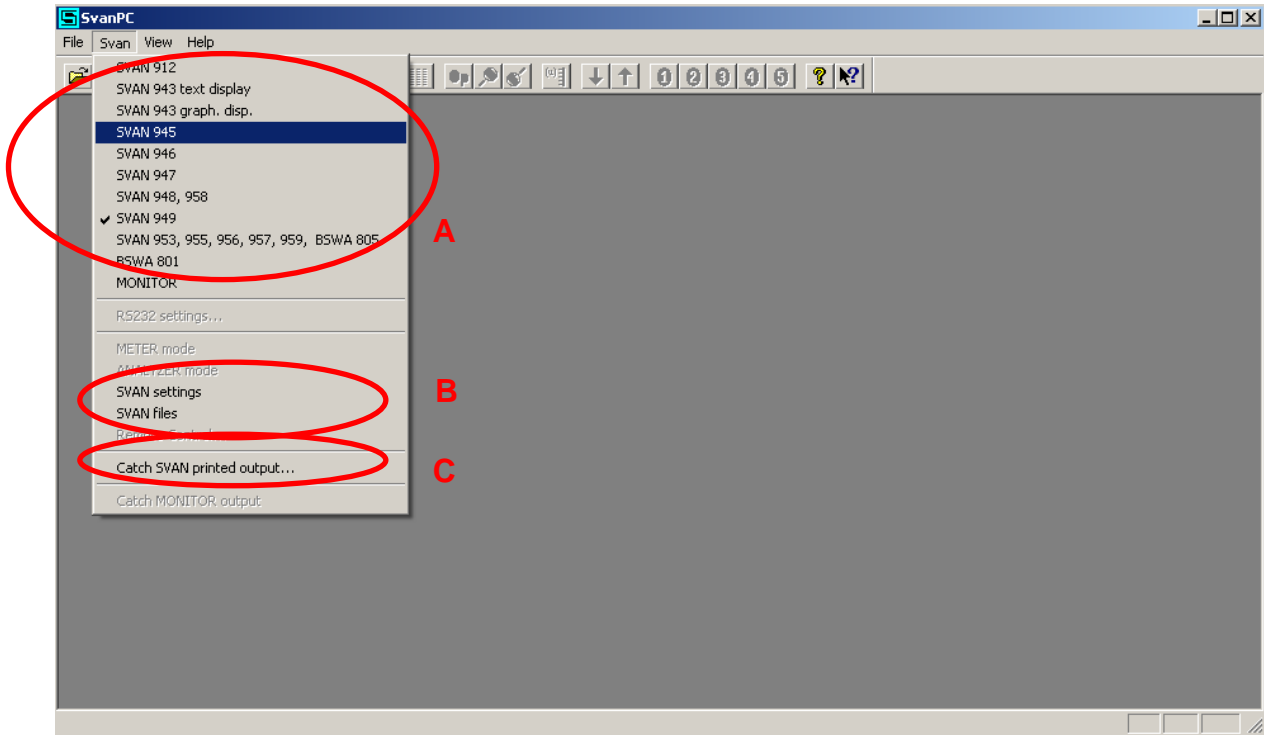


*Warsaw, March 2007*

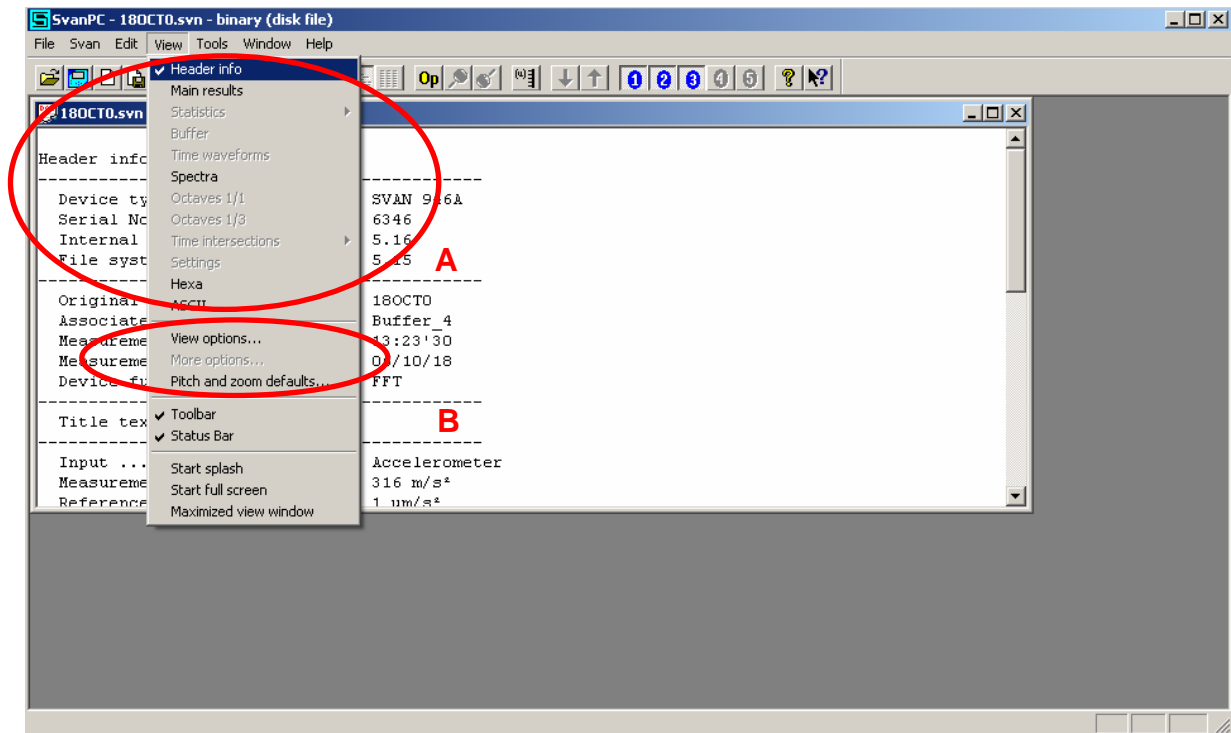
## Table of Contents:

1.	Introduction .....	3
2.	Downloading the files.....	5
3.	Merging downloaded files .....	6
4.	Main results and Excel spread sheet .....	7
5.	Decimal point type .....	10
6.	Statistical levels data and Excel spread sheet .....	11
7.	1/3 octave analysis (multi element data) and Excel spread sheet .....	13
8.	1/3 octave analysis statistics (multi element data) and Excel spread sheet .....	19
9.	Buffer/Logger time history and Excel spread sheet.....	19
10.	Spectra Buffer/Logger time history and Excel spread sheet .....	22

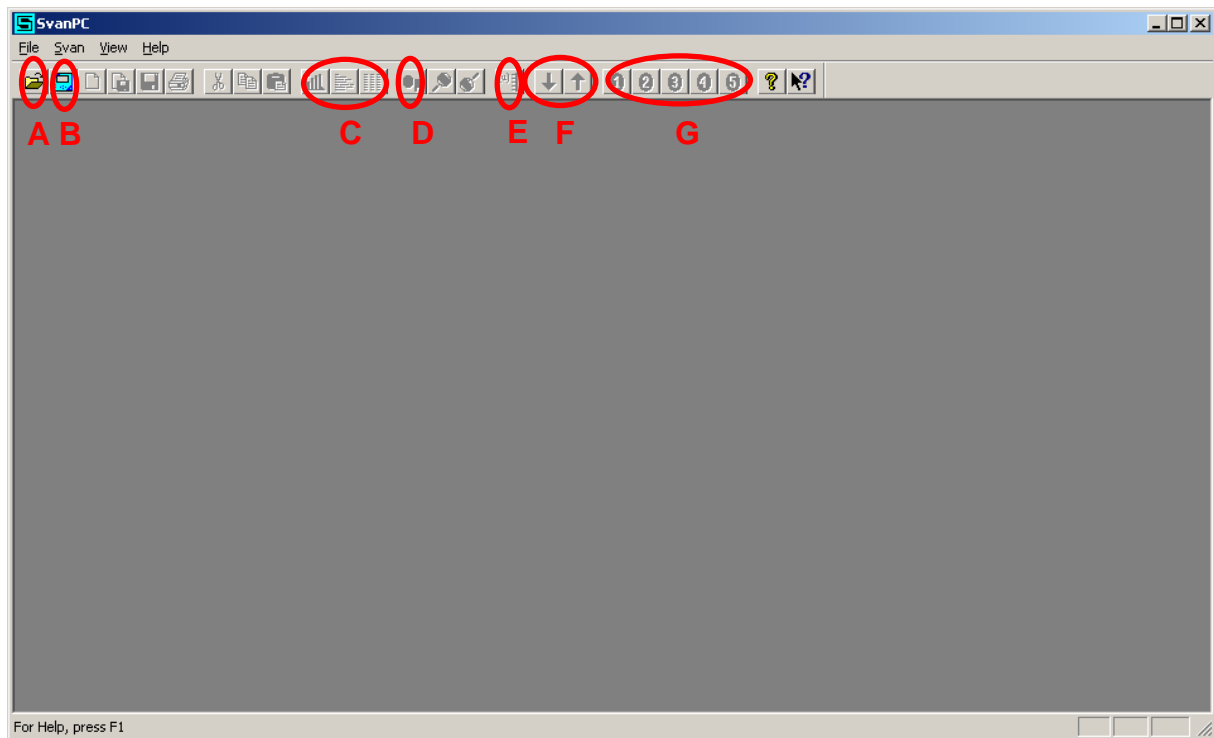
# 1. Introduction



- menu/SVAN - select appropriate instrument type (A)
- menu/SVAN/SVAN settings - download file with instrument settings (B)
- menu/SVAN/SVAN files – open file downloading window (B)
- menu/SVAN/Catch SVAN printed output... – capture text files reports printed by the instrument even by USB interface (C)

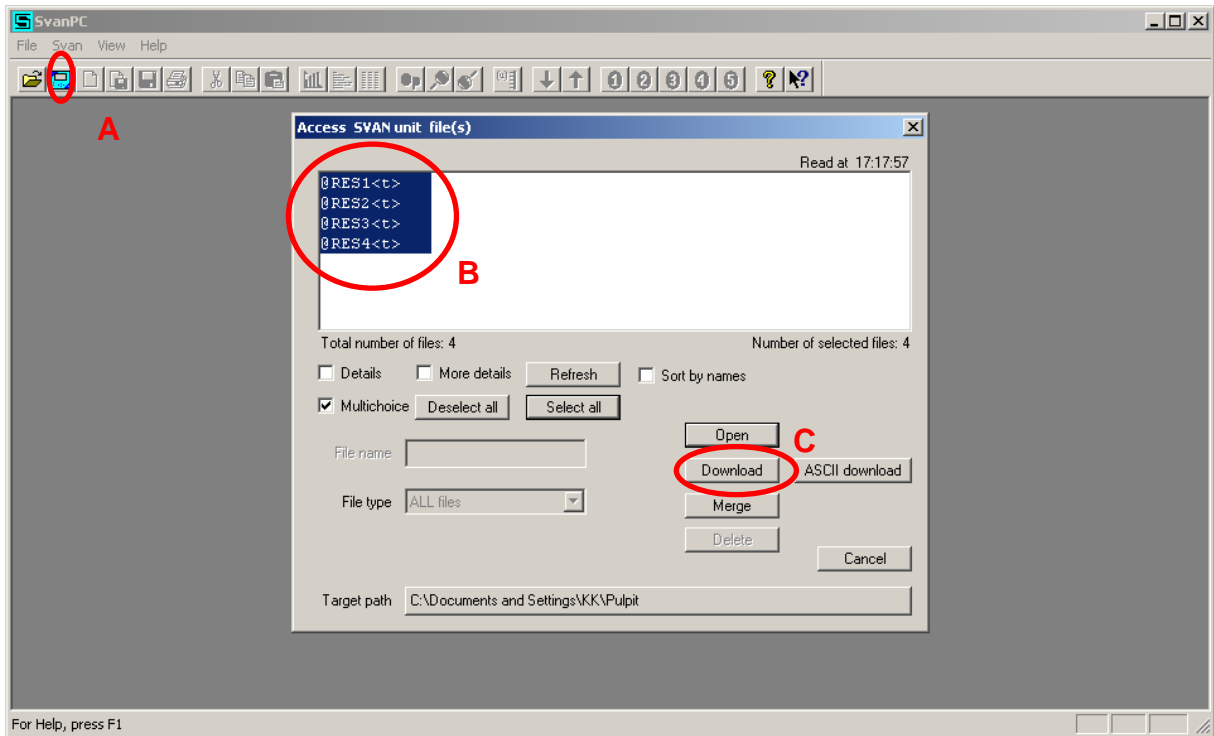


- menu/VIEW/Header info – shows information about instrument setting and measurement conditions(A)
- menu/VIEW/Main results – shows main results (A)
- menu/VIEW/Statistics – shows statistics (Histograms, Levels, Densities in main results, 1/1 and 1/3 octave modes) (A)
- menu/VIEW/Buffer – shows time history data in Plot, Text and Table format (main results, 1/1, 1/3 octave, FFT modes) (A)
- menu/VIEW/Spectra – shows FFT spectra in Plot, Text and Table format (A)
- menu/VIEW/Octaves 1/1 – shows 1/1 octave spectra in Plot, Text and Table format (A)
- menu/VIEW/Octaves 1/3 – shows 1/3 octave spectra in Plot, Text and Table format; in case of buffer files waterfall graph is also available in multi element view (A)
- menu/VIEW/Time intersection – shows 1/1, 1/3 octave and FFT spectra in Plot, Text and Table format (A)
- menu/VIEW/View options – shows file content in hex format (A)
- menu/VIEW/ASCII – shows file content in ASCII format (A)
- menu/VIEW/View options – more information in section 7 and 10 (B)
- menu/VIEW/More options – more information in section 9 (B)



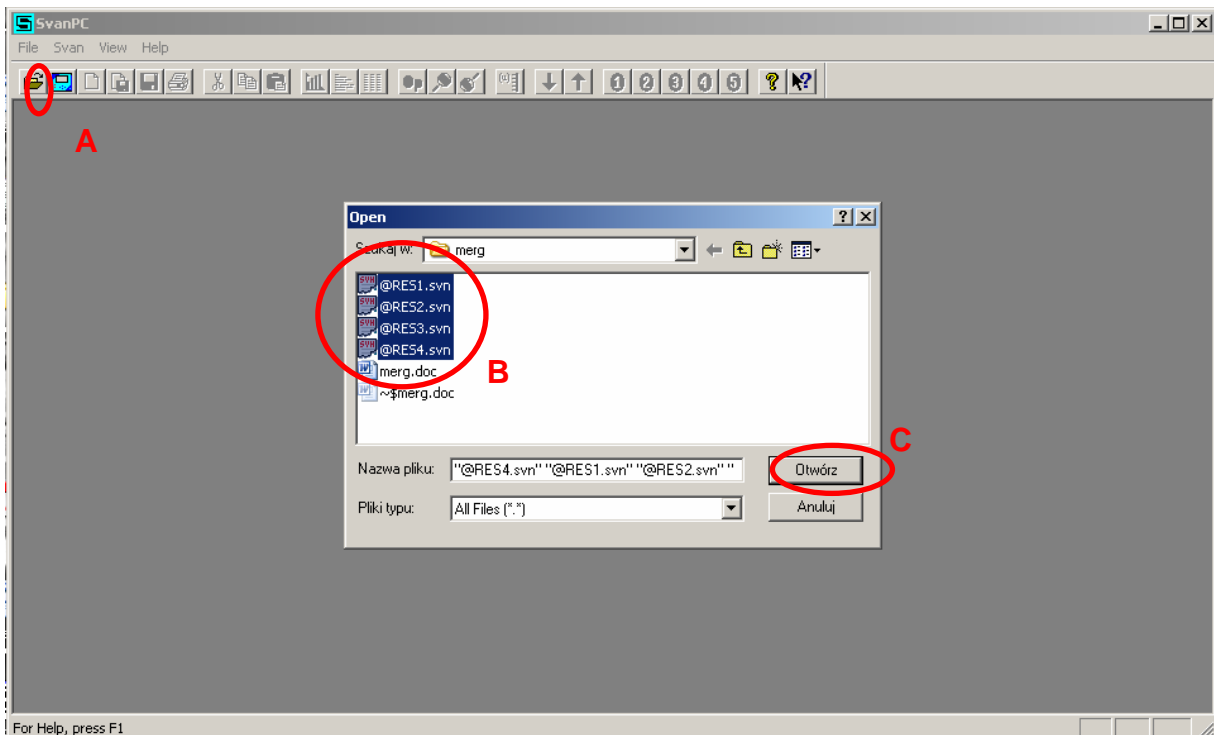
- icon open (MENU/FILE/OPEN) – runs dialog box for files opening (A)
- icon SVAN (MENU/FILE/SVAN files or MENU/SVAN/SVAN files) – runs dialog box for files downloading (B)
- icons Plot, Text and Table – switch between graphical, text and table format view (C)
- icon View options – allows adjusting view format (D)
- icon Change units (MENU/UNITS CHANGE) – switches between units dB, Pa, m/s<sup>2</sup>, m/s etc. (E)
- icons next and previous – switch between frequency bands, selected file, spectra etc (F), with <CTRL> push button change its function (available only for some particular views)
- icons profiles/channels – make active and not active profile, channel, vector or RPM results/time history; with <CTR> push-button it switch between time history results for particular profile/channel

## 2. Downloading the files



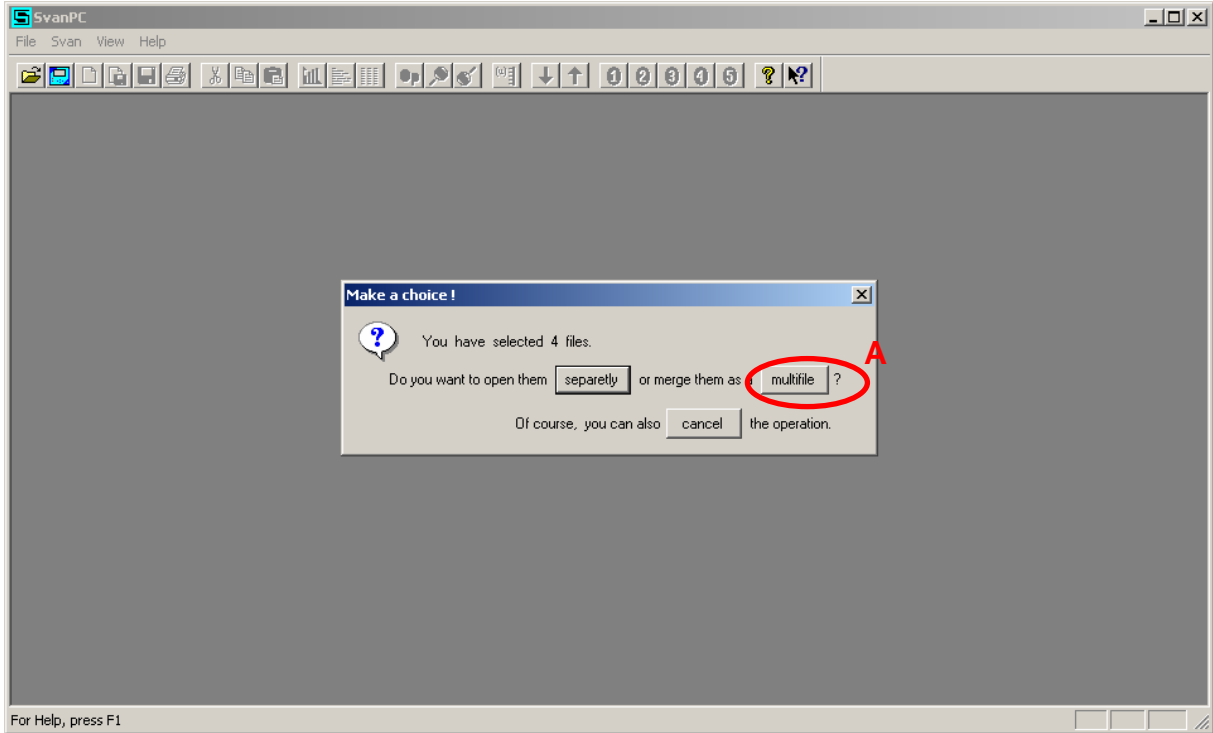
- Open dialog menu (A)
- select files (B)
- download then using <DOWNLOAD> button (C)

### 3. Merging downloaded files

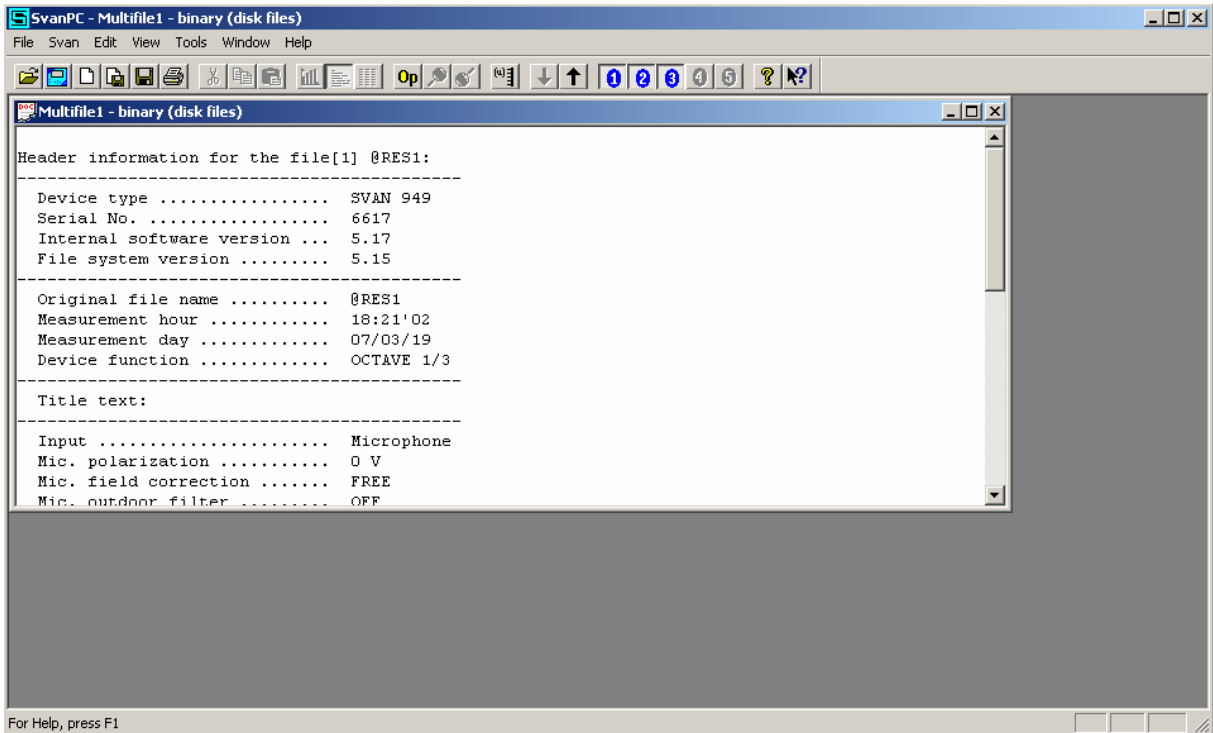


- Open dialog menu (A)
- select files (B)

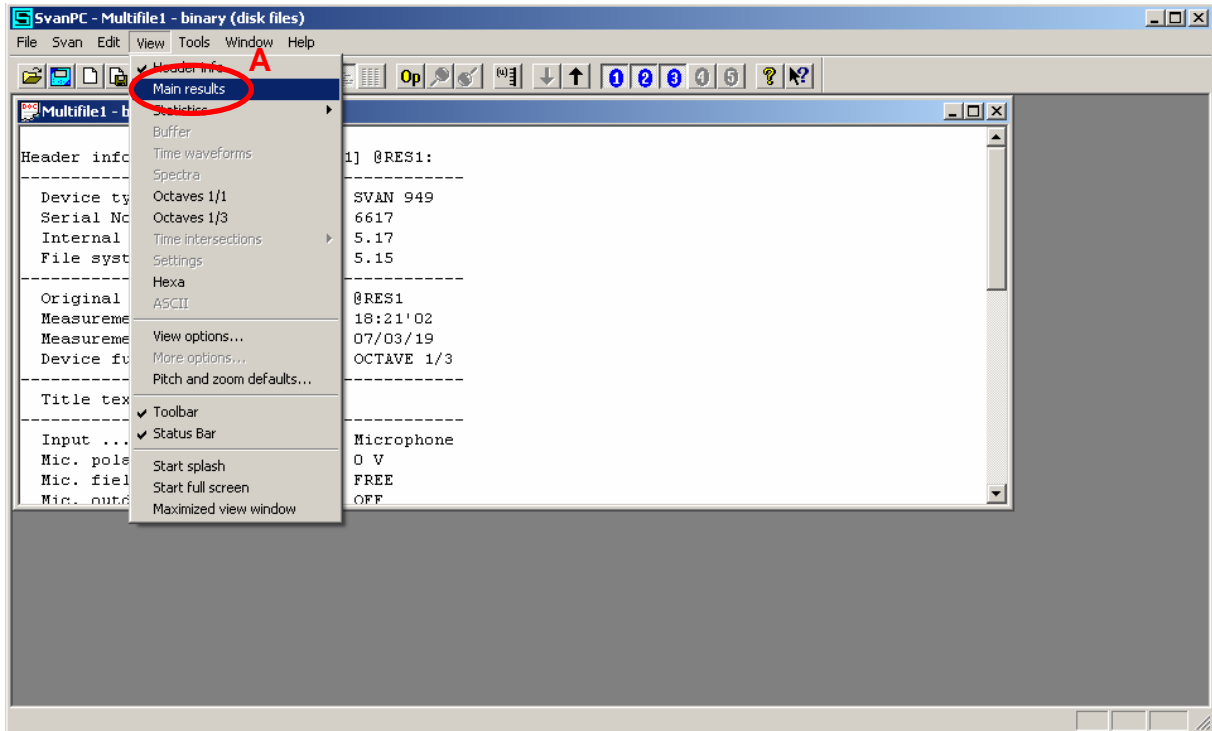
- open files using <OPEN> button (C)
- below screen will appear



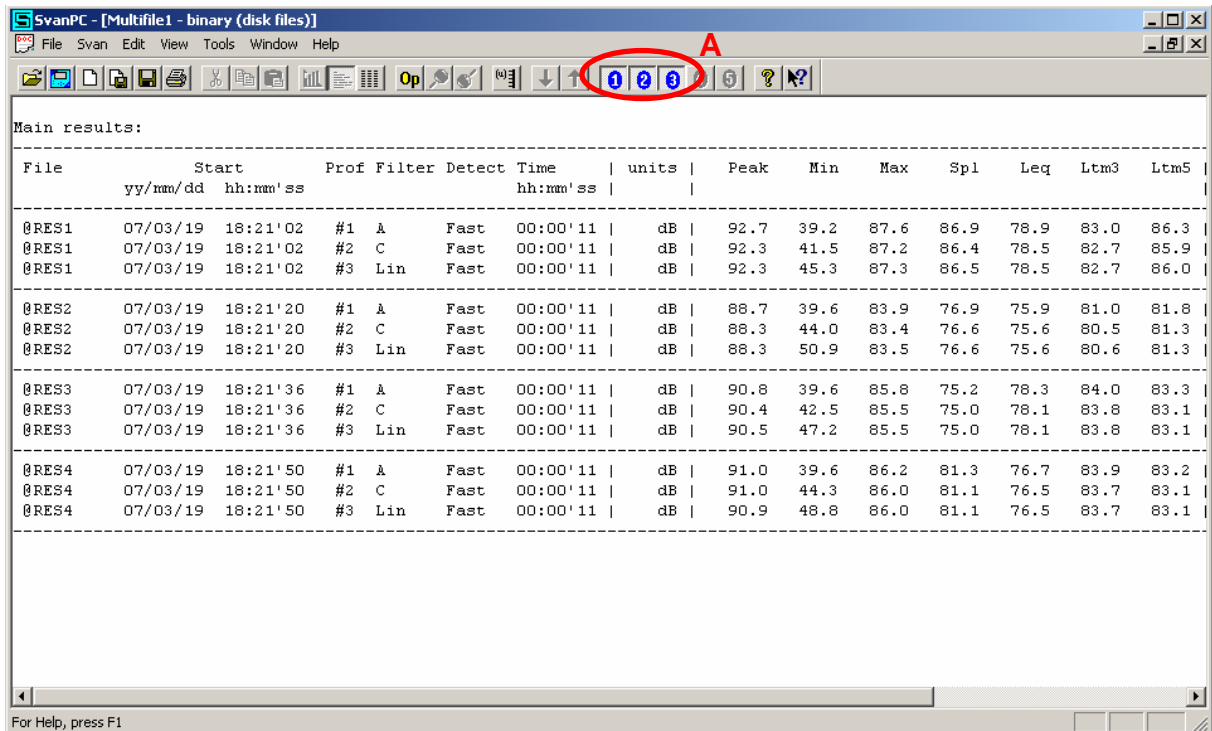
- press <multifile> button (A)
- below screen will appear



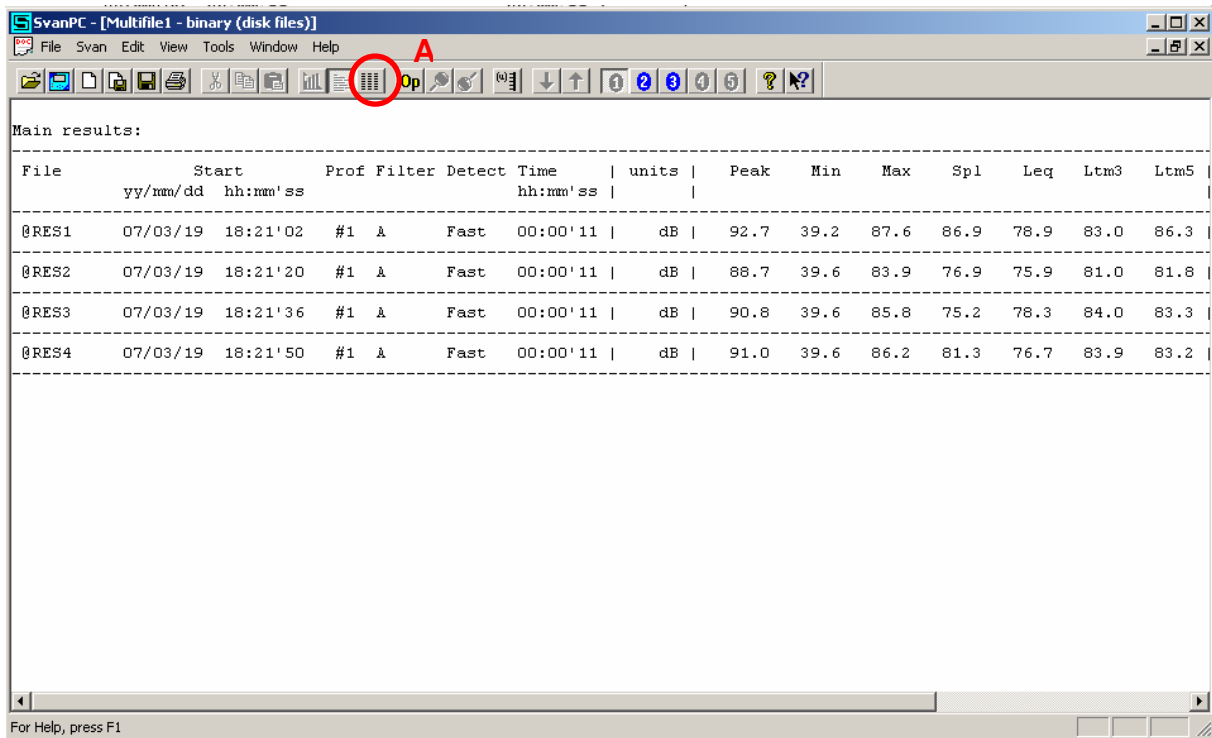
#### 4. Main results and Excel spread sheet



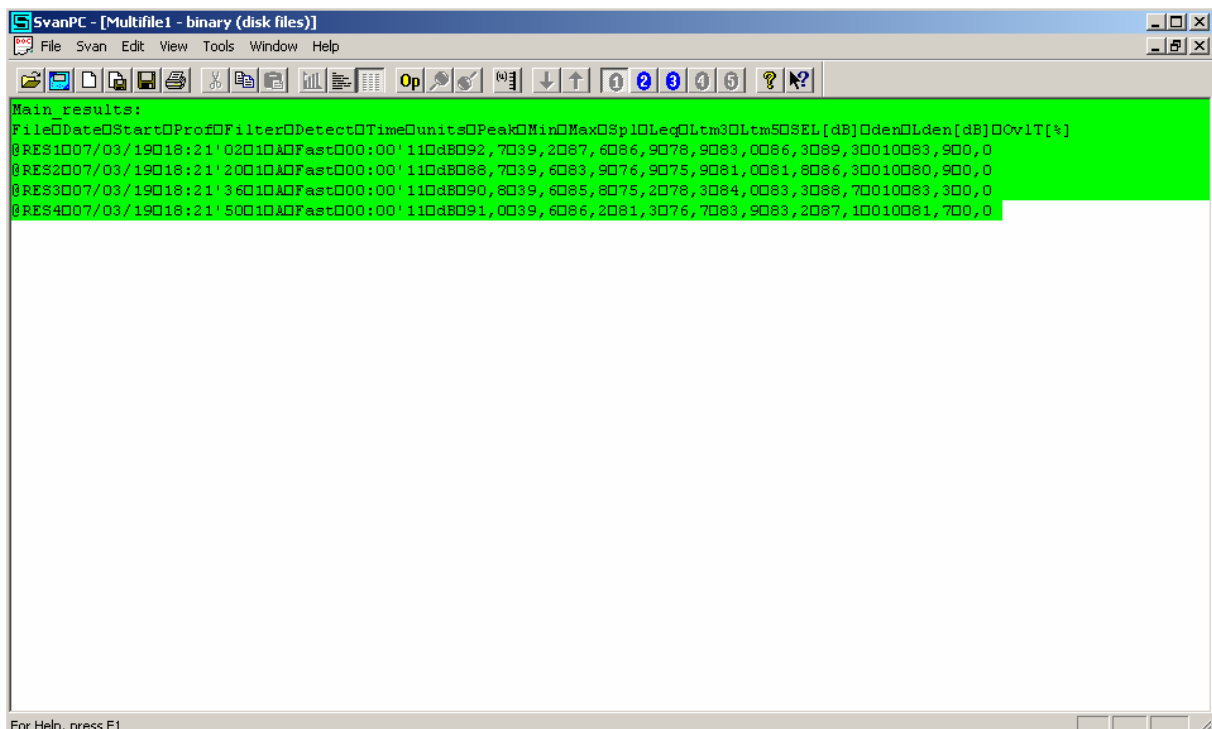
- select <main results> (A)
- below screen will appear



- using <profiles/channels> icons (A) select data which should be copied into excel spread sheet; for example profile 1 only
- below screen will appear



- select table view by pressing <table> icon (A)
- select all using combination <CTRL>+<A>
- below screen will appear



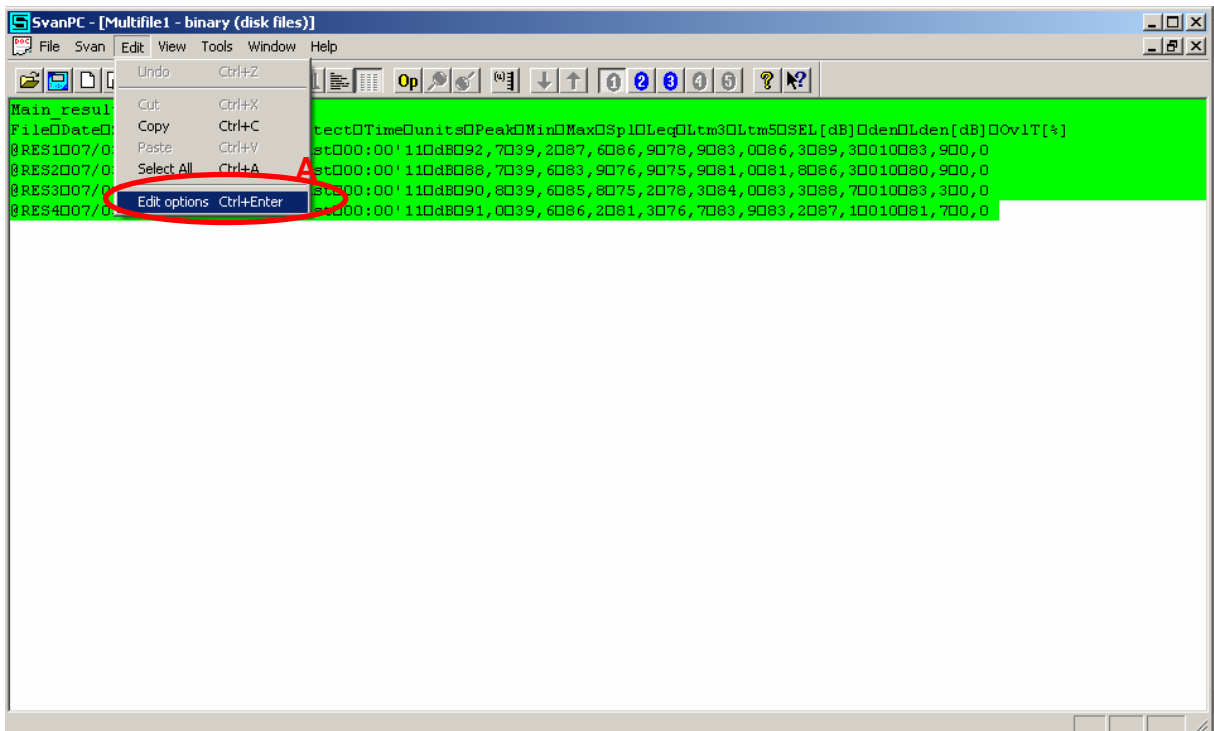
- copy the data using combination <CTRL>+<C>
- open excel spread sheet
- past the data into excel spread sheet using combination <CTRL>+<V>
- below screen will appear

Microsoft Excel - Zeszyt1

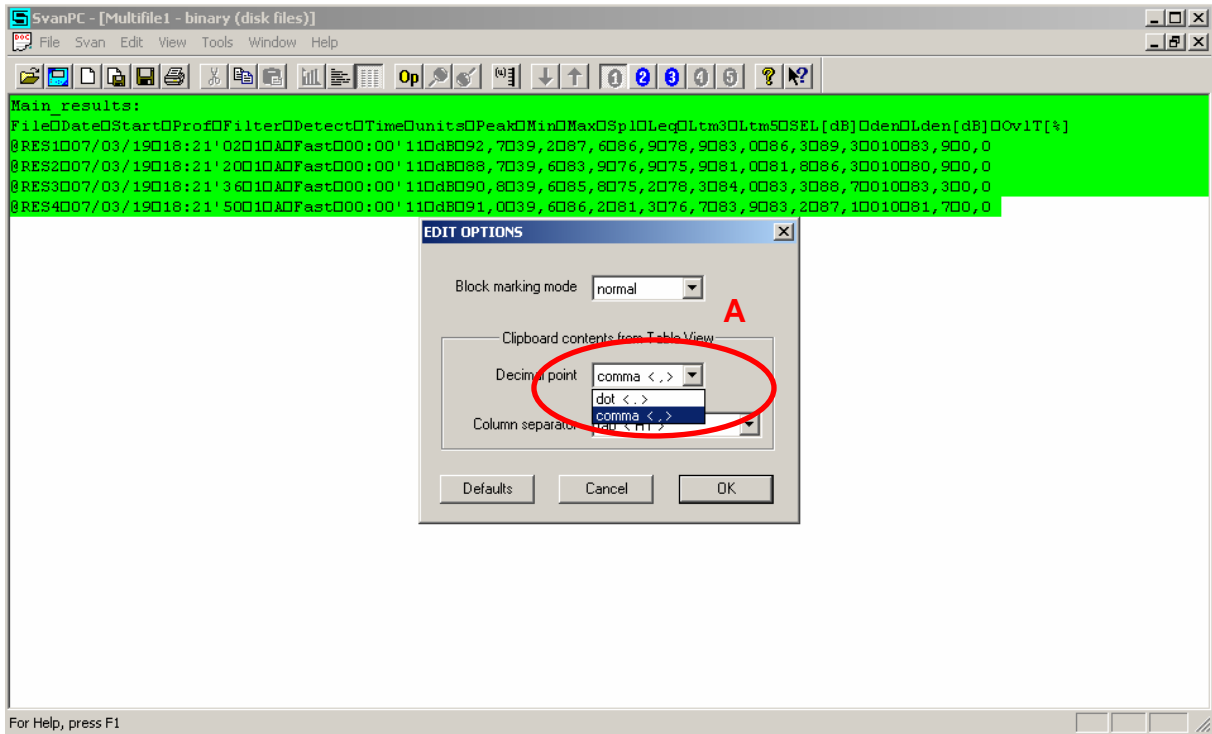
1	Main_results:															
2	File	Date	Start	Prof	Filter	Detect	Time	units	Peak	Min	Max	Spl	Leq	Ltm3	Ltm5	St
3	@RES1	2007-03-19	18:21:02		1 A	Fast	00:00:11	dB	92,7	39,2	87,6	86,9	78,9	83	86,3	
4	@RES2	2007-03-19	18:21:20		1 A	Fast	00:00:11	dB	88,7	39,6	83,9	76,9	75,9	81	81,8	
5	@RES3	2007-03-19	18:21:36		1 A	Fast	00:00:11	dB	90,8	39,6	85,8	75,2	78,3	84	83,3	
6	@RES4	2007-03-19	18:21:50		1 A	Fast	00:00:11	dB	91	39,6	86,2	81,3	76,7	83,9	83,2	

Suma=159526,5

## 5. Decimal point type

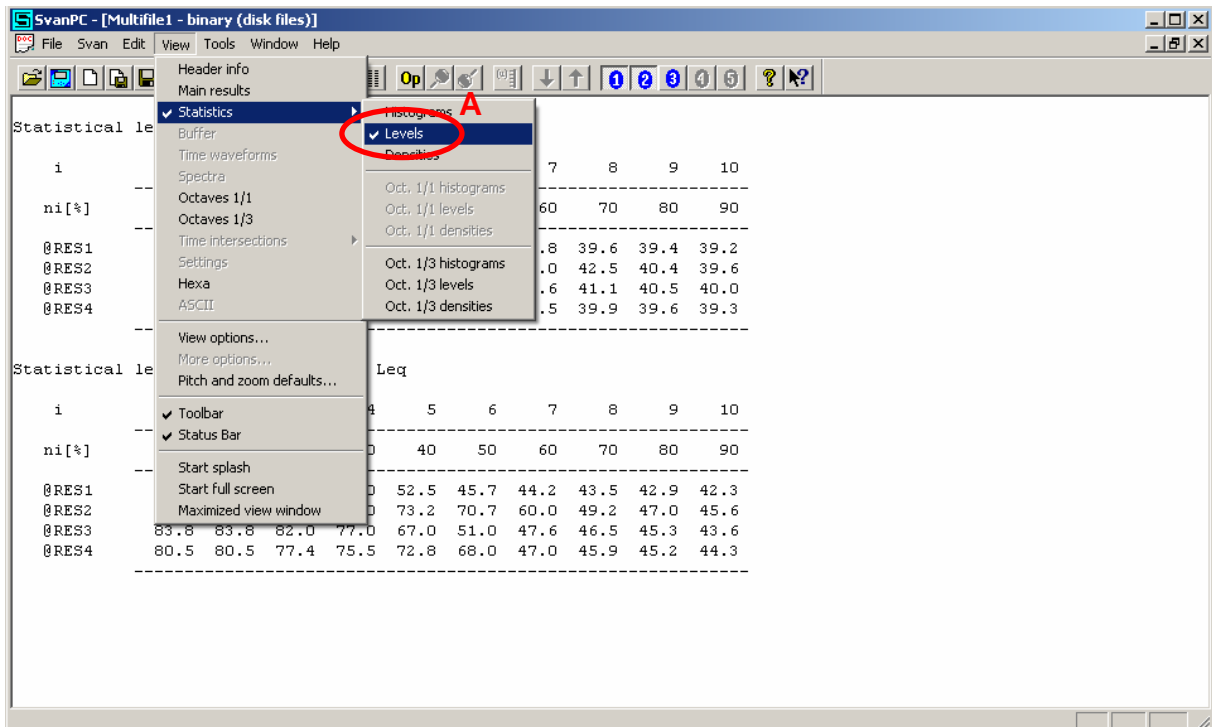


- depending on local decimal point is “.” Or “,”
- to adjust decimal point type select <edit options> (A)
- below screen will appear

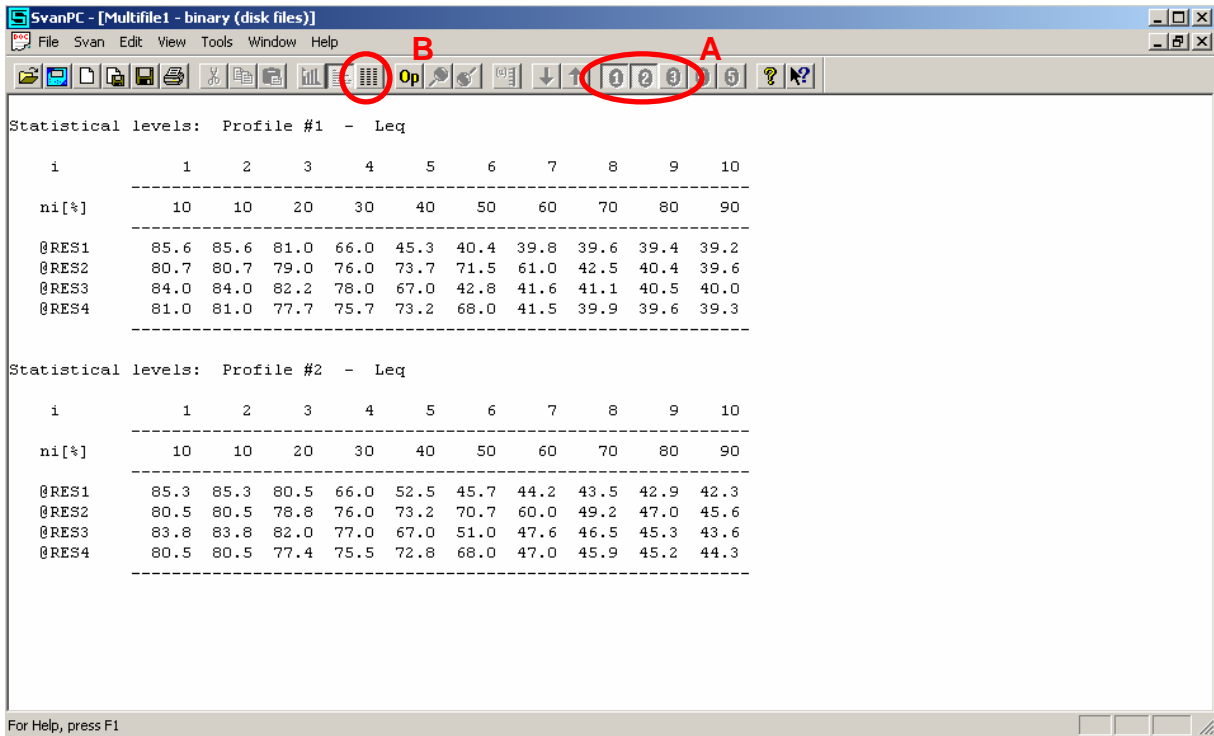


- select appropriate decimal point type (A) and press <OK>

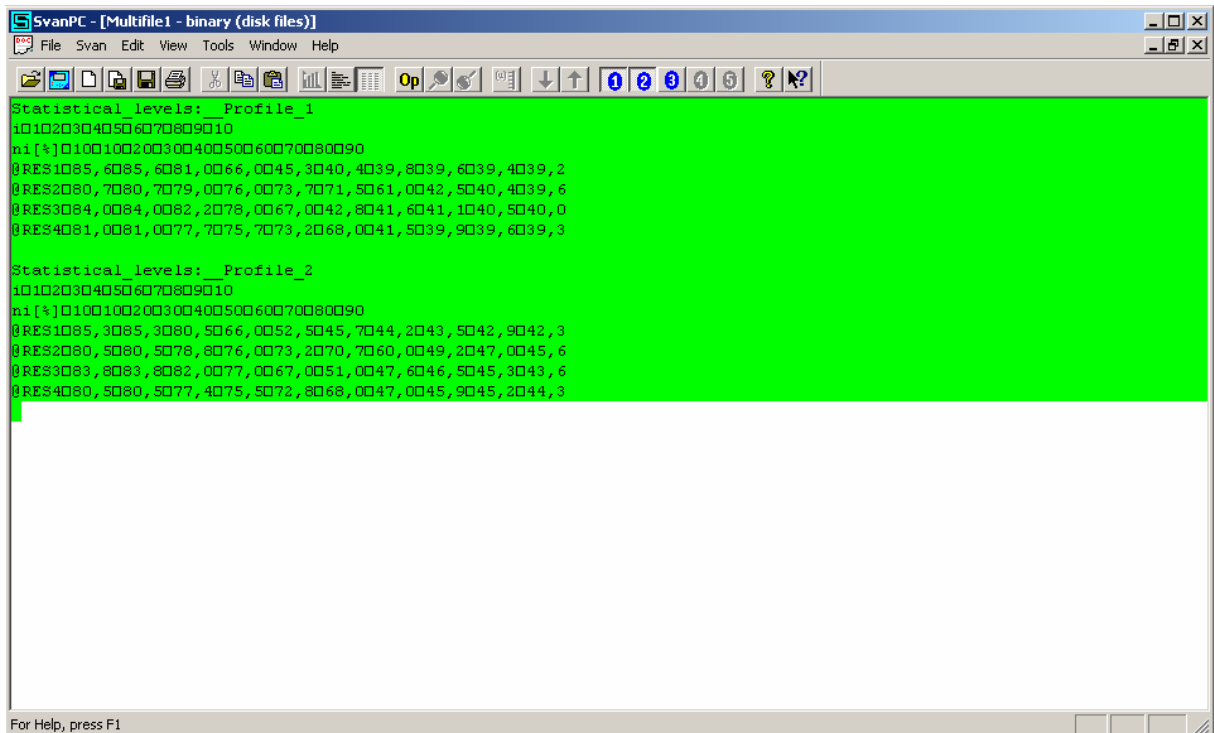
## 6. Statistical levels data and Excel spread sheet



- select <statistical levels> (A)
- below screen will appear

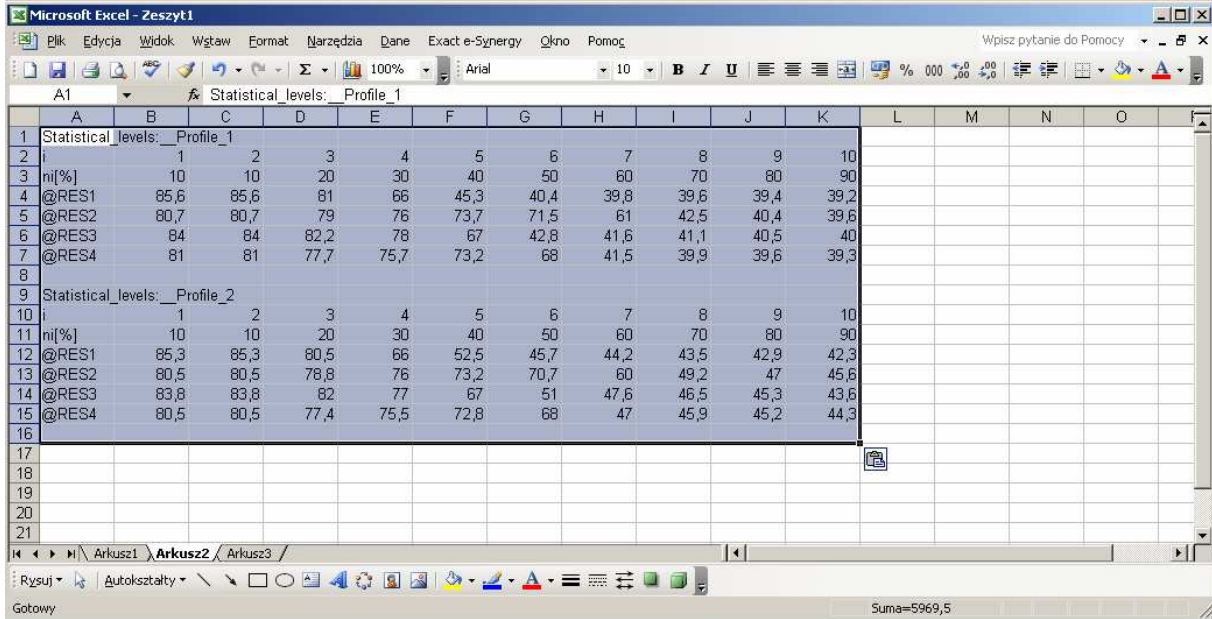


- using <profiles/channels> icons (A) select data which should be copied into excel spread sheet; for example profile 1&2
- select table view by pressing <table> icon (B)
- select all using combination <CTRL>+<A>
- below screen will appear

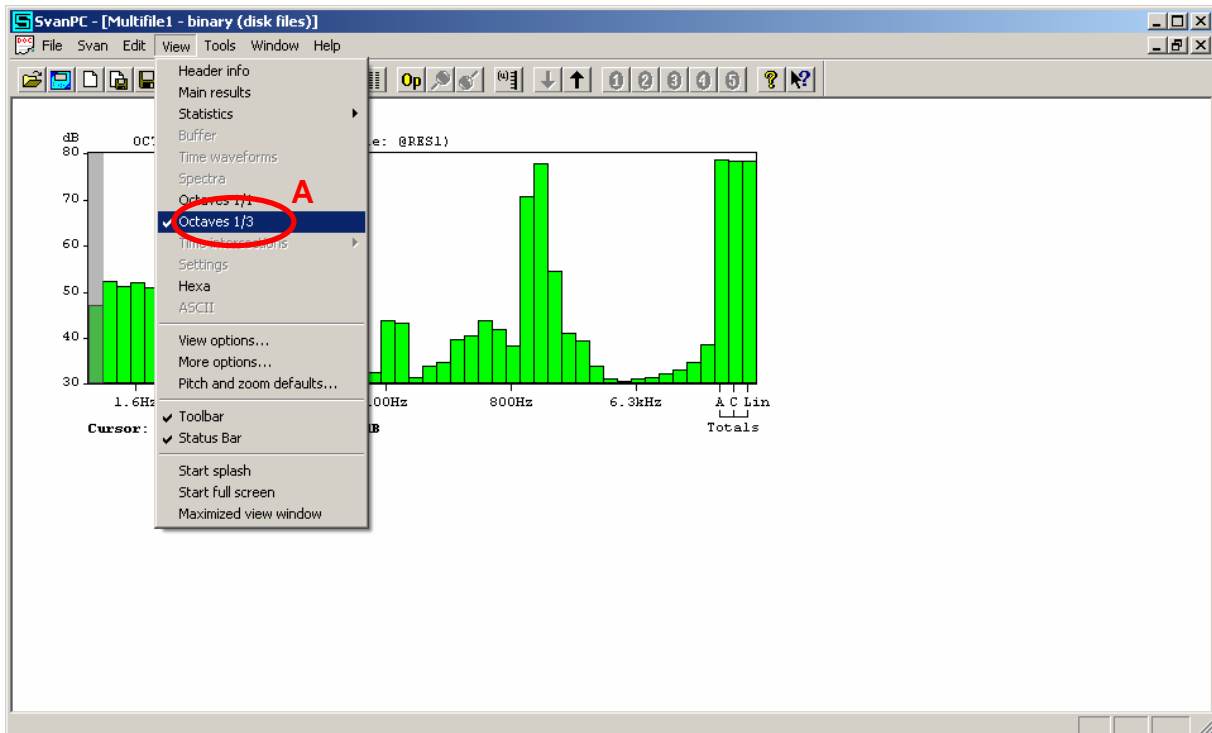


- copy the data using combination <CTRL>+<C>

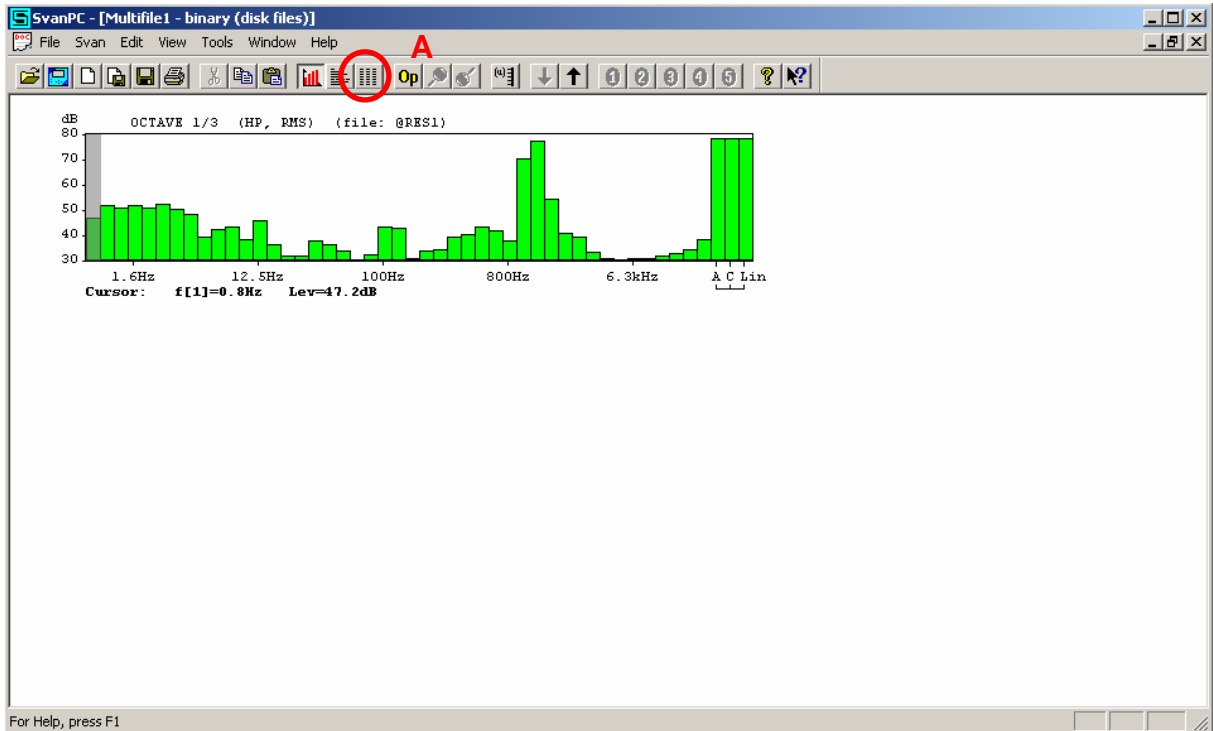
- open excel spread sheet
- past the data into excel spread sheet using combination <CTRL>+<V>
- below screen will appear



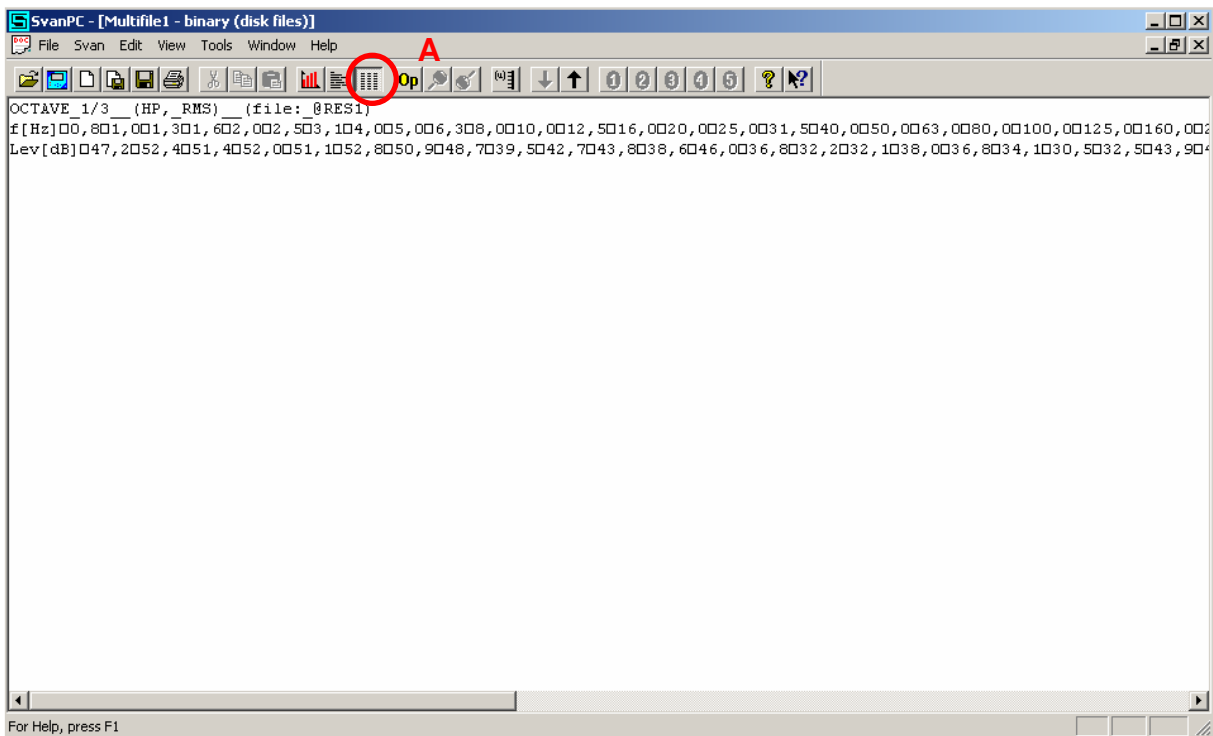
### 7. 1/3 octave analysis (multi element data) and Excel spread sheet



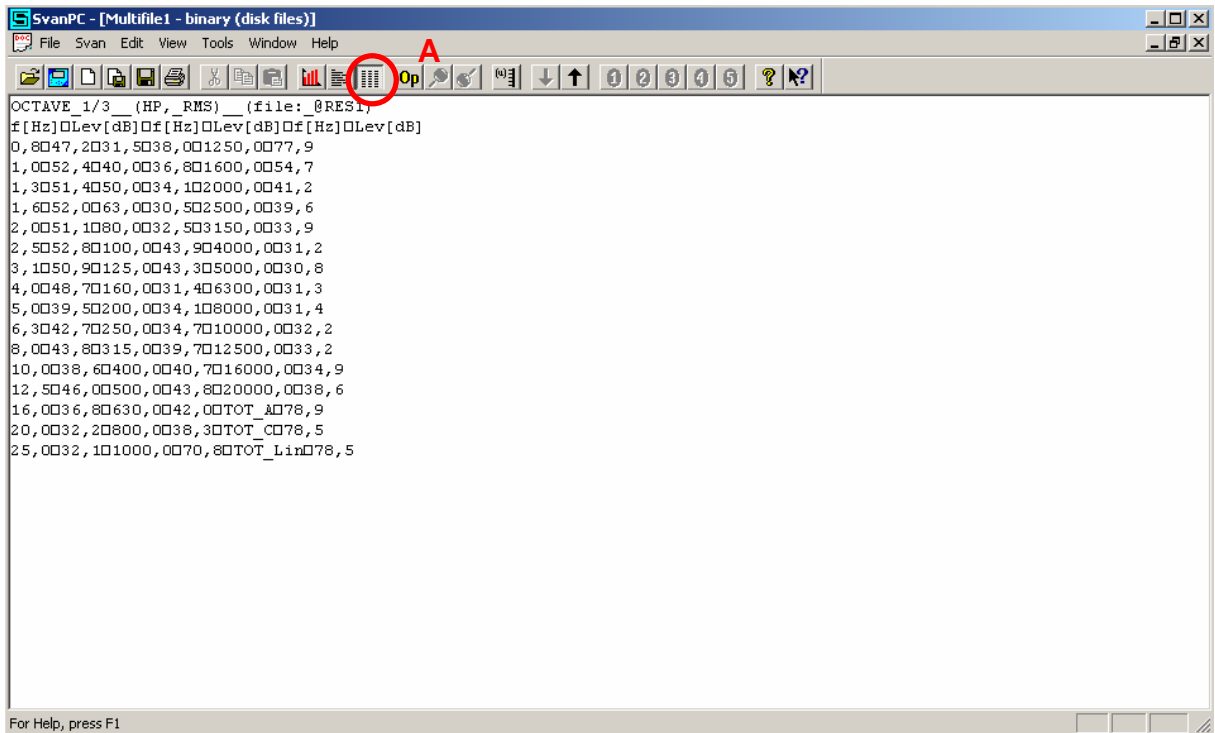
- select <1/3 octave analysis> (A)
- below screen will appear



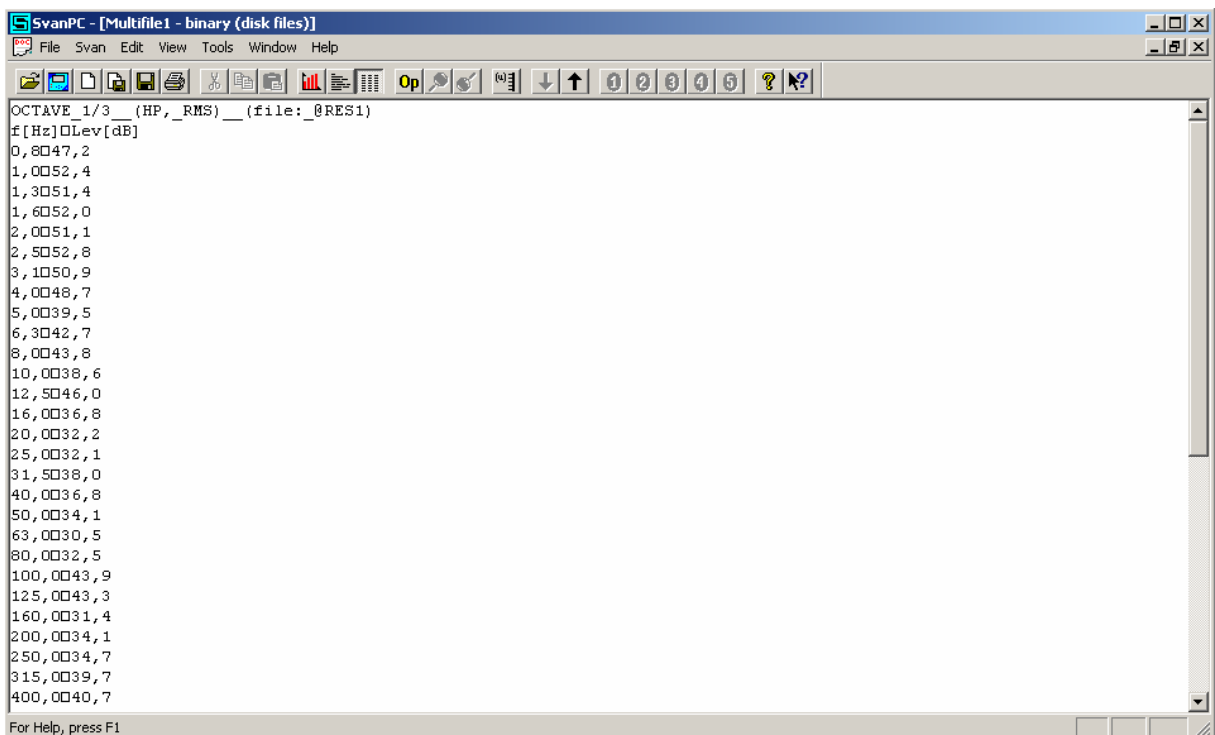
- select table view by pressing <table> icon (A)
- below screen will appear

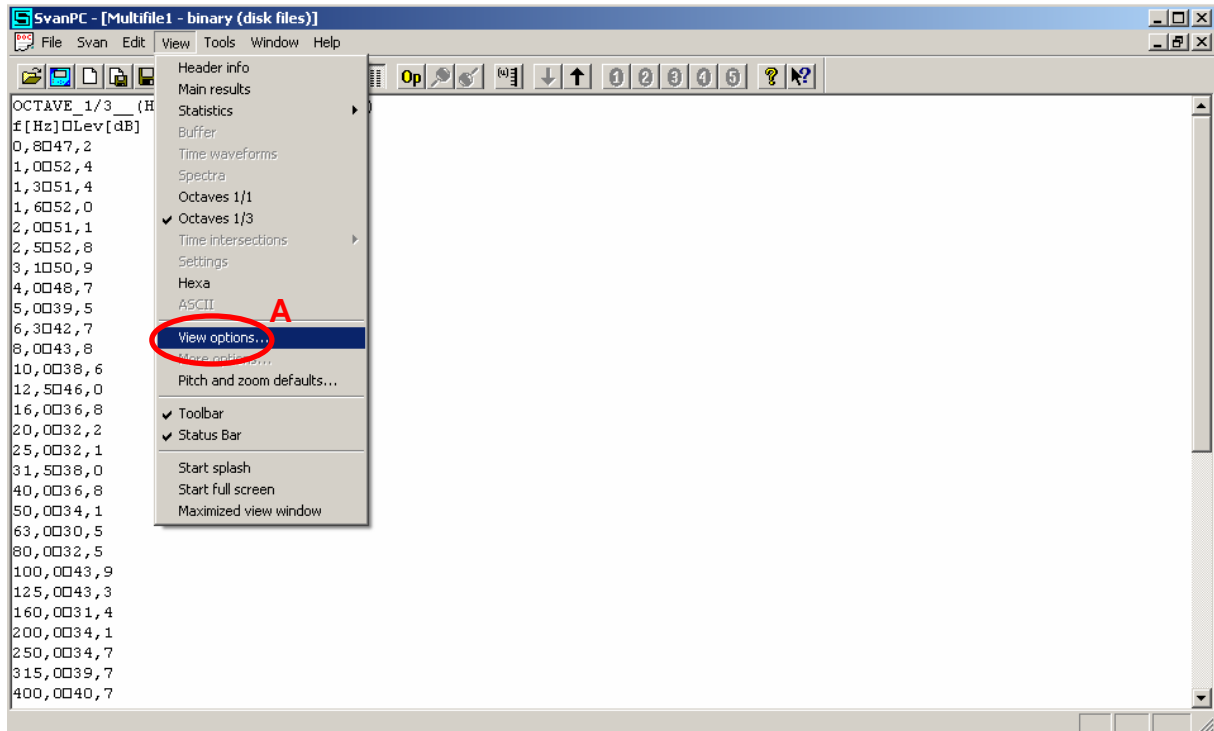


- to change table format, one more time press <table> icon (A)
- below screen will appear

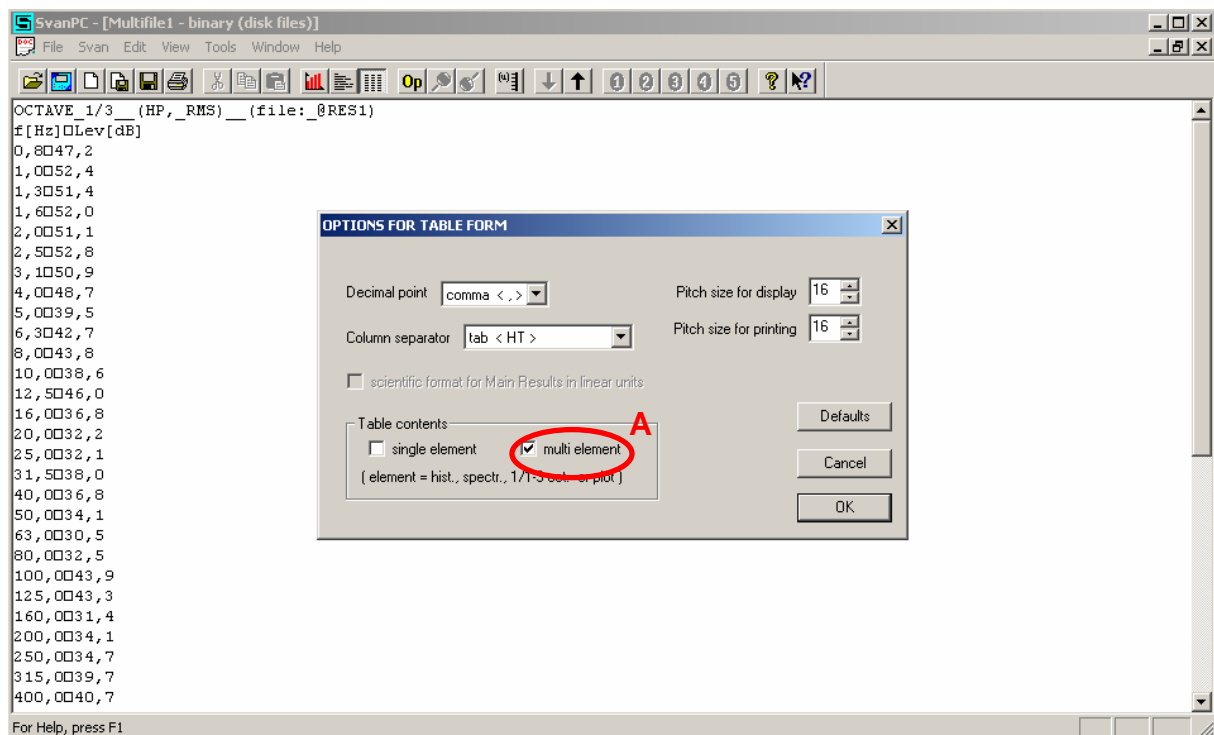


- to change table format, one more time press <table> icon (A)
- below screen will appear

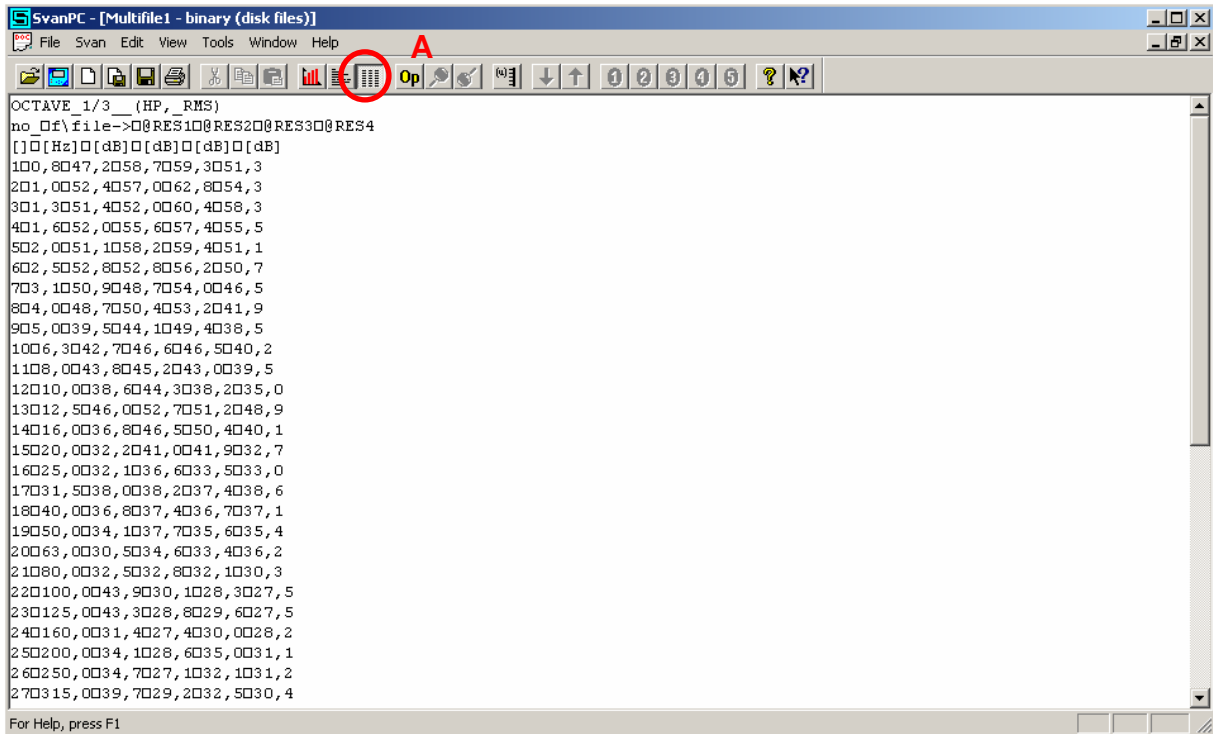




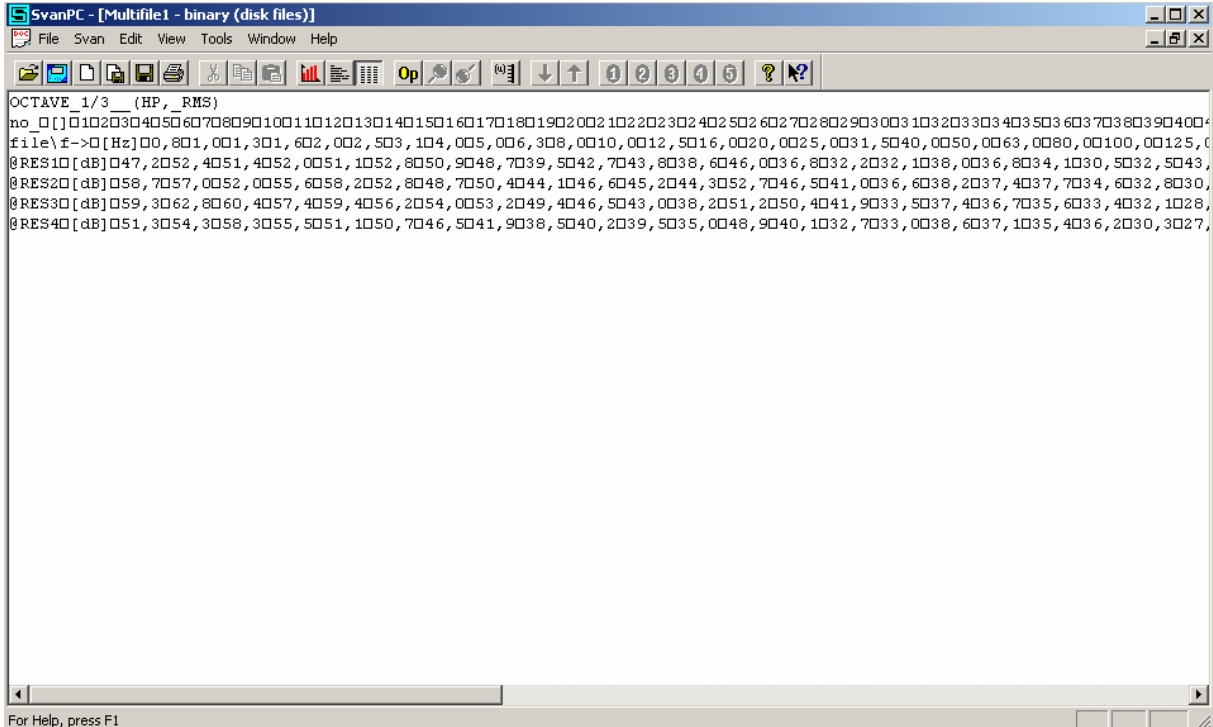
- select <view options> (A)
- below screen will appear



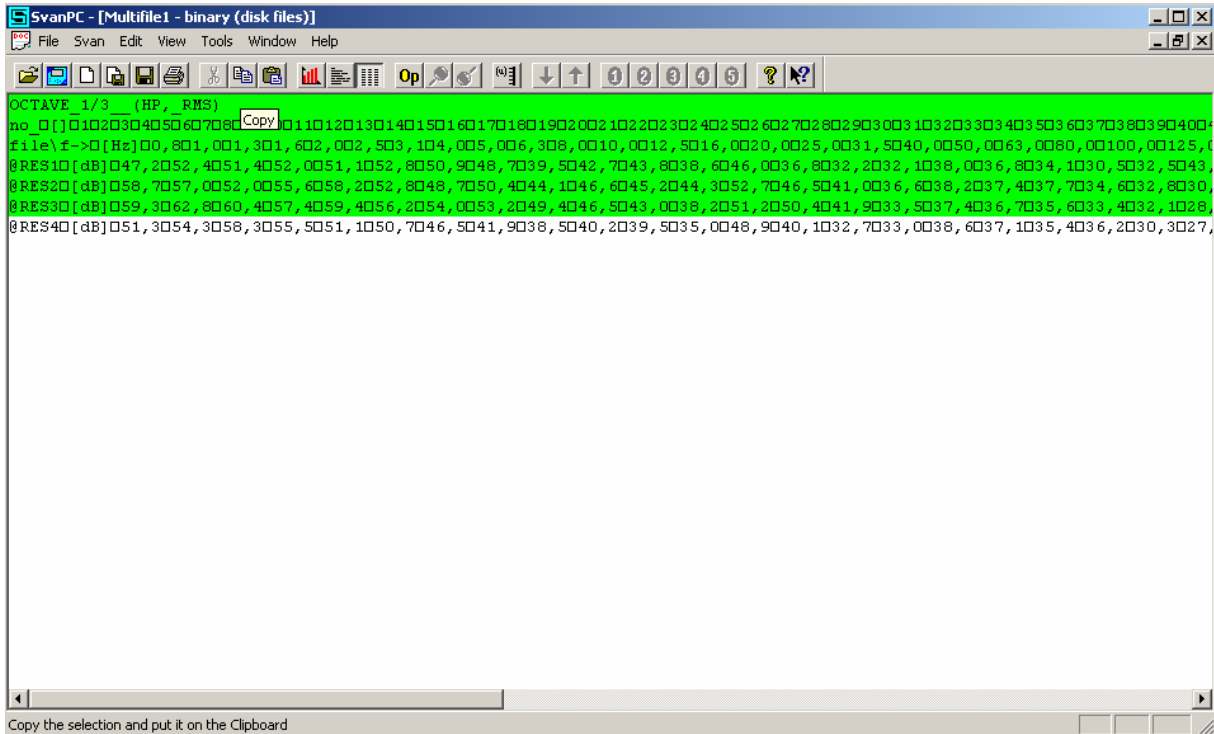
- select <multi element> (A) and press <OK>
- below screen will appear



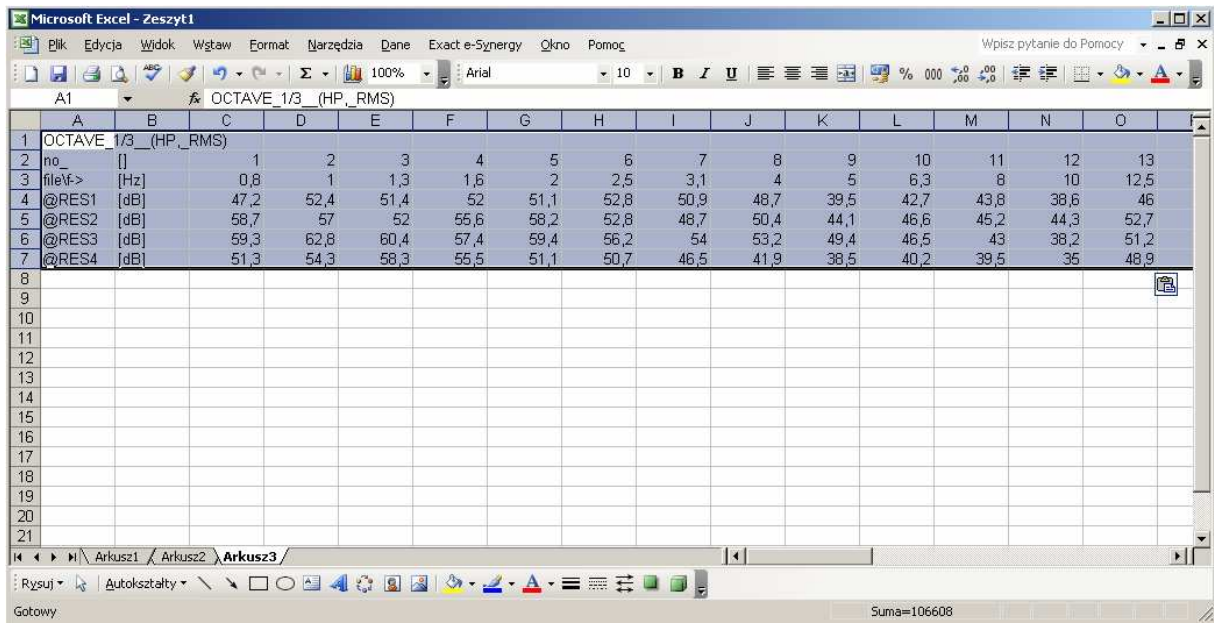
- to switch table format, press <table> icon (A)
- below or upper screen will appear alternatively



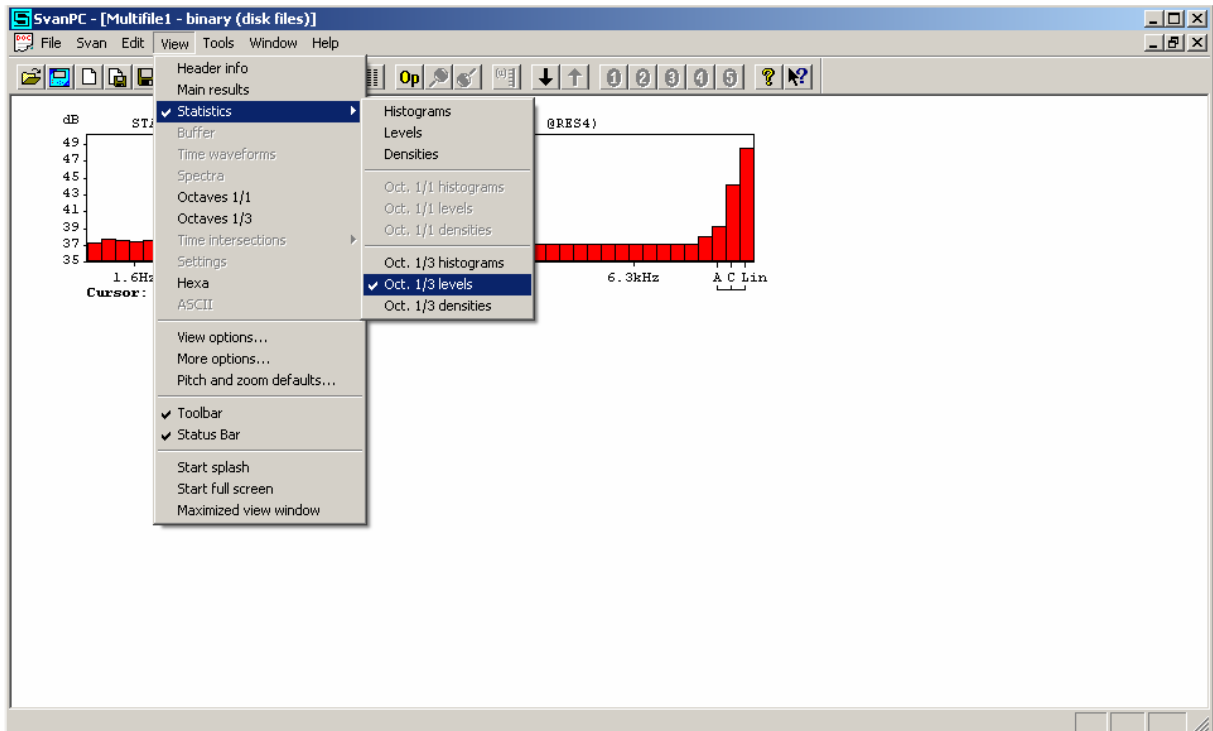
- select all using combination <CTRL>+<A>
- below screen will appear



- copy the data using combination <CTRL>+<C>
- open excel spread sheet
- past the data into excel spread sheet using combination <CTRL>+<V>
- below screen will appear



## 8. 1/3 octave analysis statistics (multi element data) and Excel spread sheet

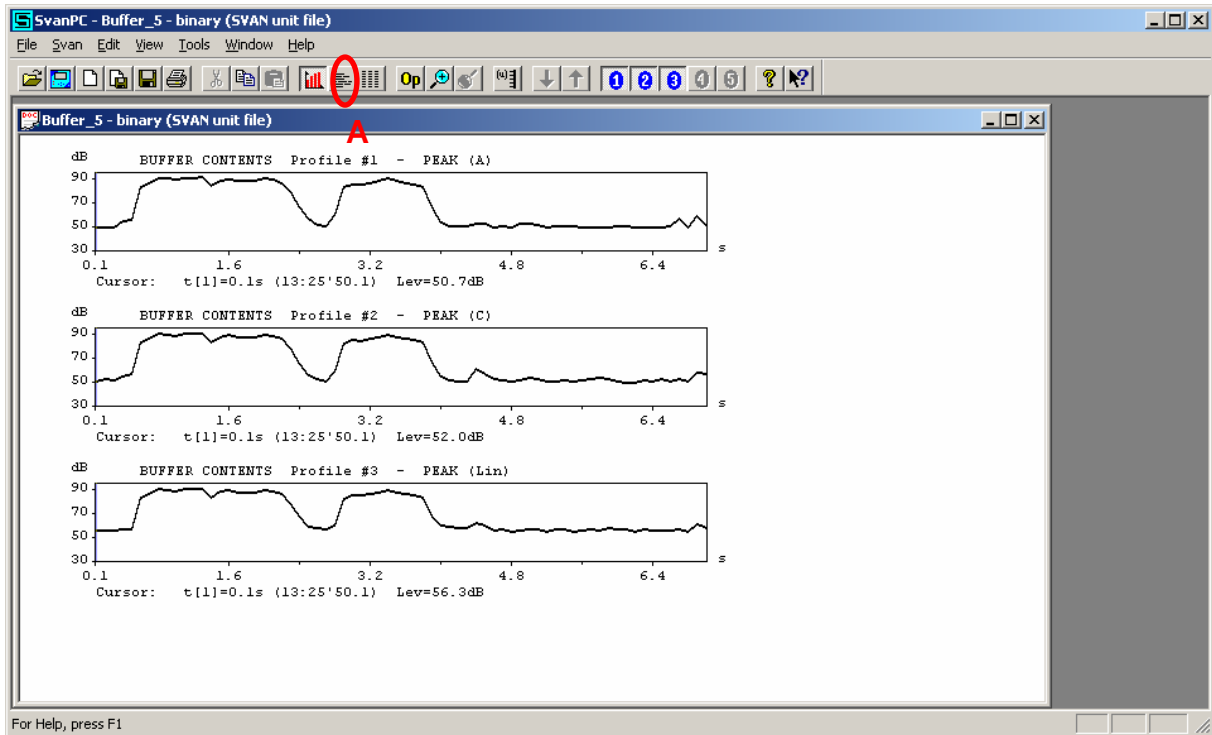


- use the sequence from point 6 to copy statistical levels in 1/3 octave bands into excel spread sheet (multi element format)

1	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
2	date	hour	no_	[ ]	1	2	3	4	5	6	7	8	9	10	11
3	yy/mm/dd	hh:mm:ss	fileV->	[Hz]	0,8	1	1,3	1,6	2	2,5	3,1	4	5	6,3	8
4	#####	18:21:02	@RES1	[dB]	37,3	37,3	37,6	37,3	37,2	37,1	37,1	37,2	37,1	37,2	37,2
5	#####	18:21:20	@RES2	[dB]	46,7	41,6	42	39	38,5	37,5	37,2	37,2	37,1	37,3	37,3
6	#####	18:21:36	@RES3	[dB]	37,7	49,5	39	37,6	37,4	37,3	37,3	37,1	37,1	37,2	37,1
7	#####	18:21:50	@RES4	[dB]	37,3	37,8	37,6	37,5	37,6	37,5	37,3	37,1	37,1	37,2	37,2
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															

## 9. Buffer/Logger time history and Excel spread sheet

- select menu/VIEW/Buffer
- below screen will appear



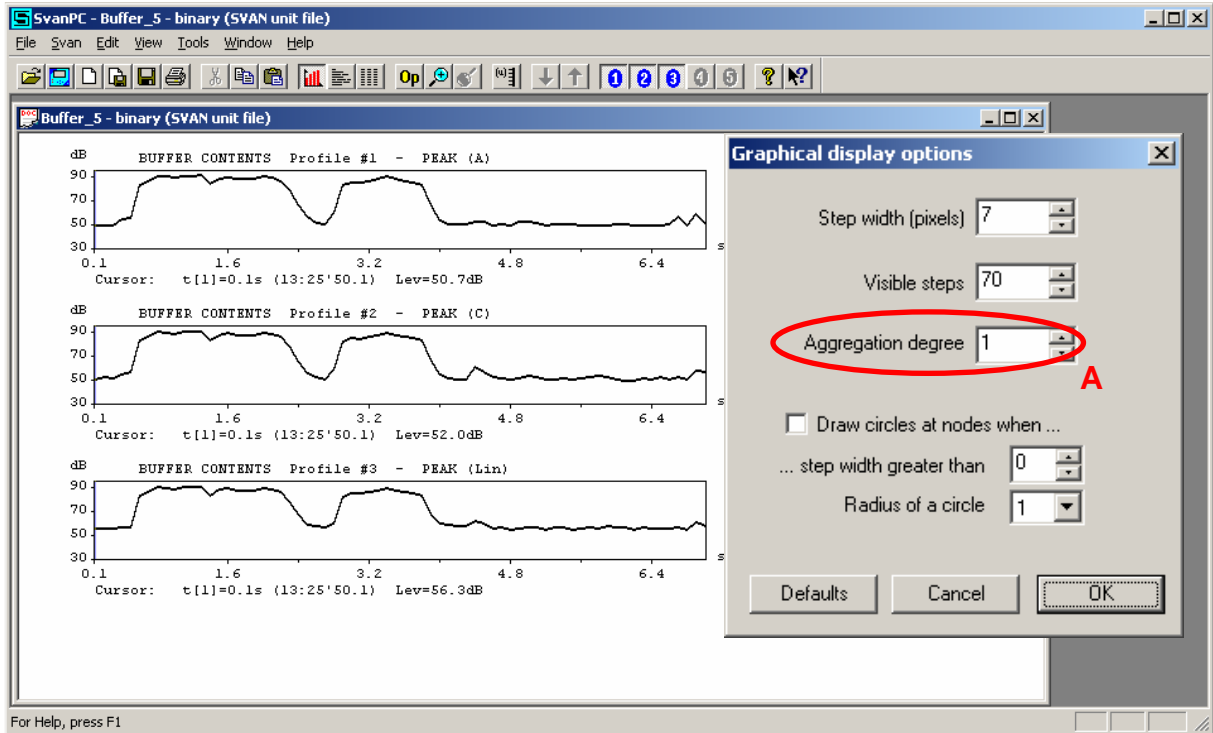
- aggregation degree on presented plots is equal 1
- select text format view (A)
- below screen will appear

The screenshot shows the SvanPC interface with a table of results. The table has two columns for 'Res.No.' and 'Lev[dB]'. The 'VIEW' menu icon in the toolbar is circled in red, and a red arrow points to the 'More' option in the dropdown menu.

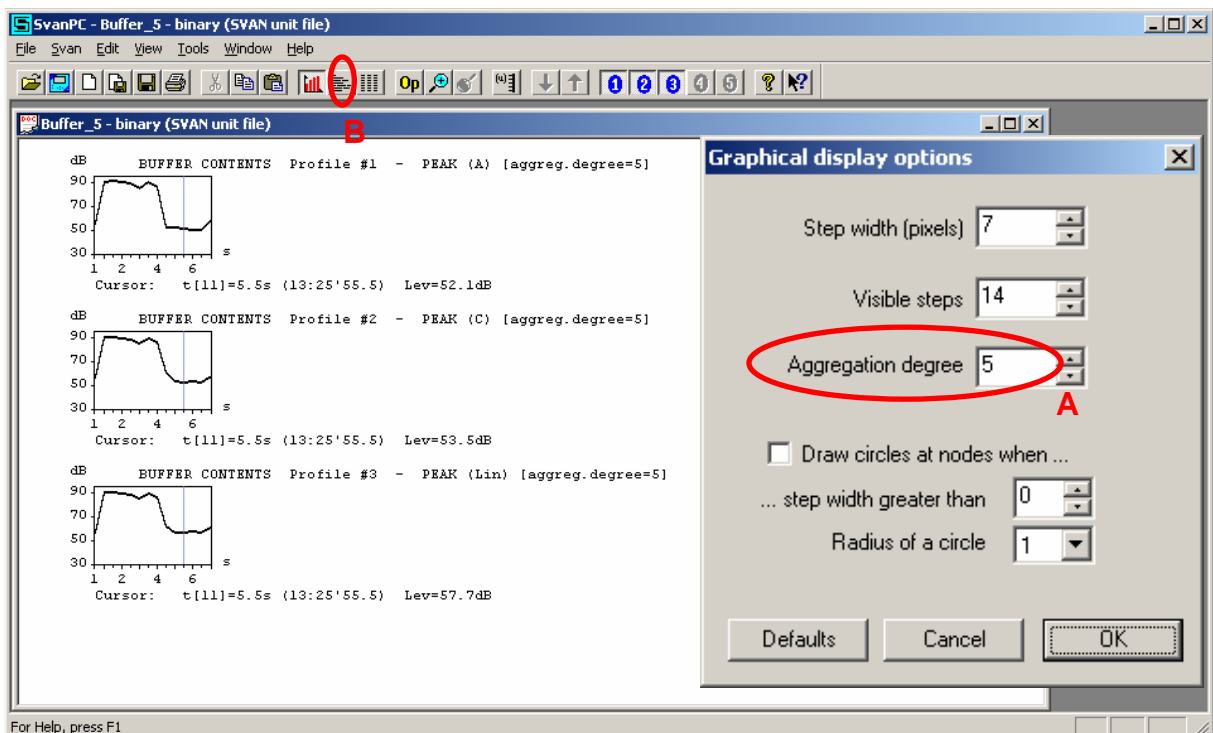
Res.No.	Lev[dB]	Res.No.	Lev[dB]	Res.No.	Lev[dB]
1	50.7	25	57.9	49	53.5
2	50.2	26	53.0	50	53.6
3	50.3	27	51.1	51	52.1
4	55.4	28	60.7	52	50.7
5	57.0	29	83.6	53	51.7
6	84.1	30	86.0	54	51.5
7	87.4	31	86.1	55	51.2
8	91.7	32	87.5	56	50.9
9	91.3	33	89.3	57	50.1
10	90.1	34	91.0	58	50.9
11	91.8	35	89.3	59	50.6
12	91.5	36	87.5	60	51.9
13	91.9	37	86.6	61	51.5
14	84.9	38	84.4	62	50.7
15	89.6	39	67.5	63	50.6
16	90.5	40	54.4	64	50.7
17	88.8	41	51.1	65	50.2
18	89.2	42	51.7	66	51.5
19	89.0	43	51.3	67	57.3
20	91.2	44	53.5	68	50.9
21	90.0	45	53.4	69	59.7
22	87.5	46	50.6	70	51.9
23	79.9	47	51.2		
24	67.0	48	50.5		

- select plot format view (A)
- press right mouse push-button on a plot or select MENU/More options

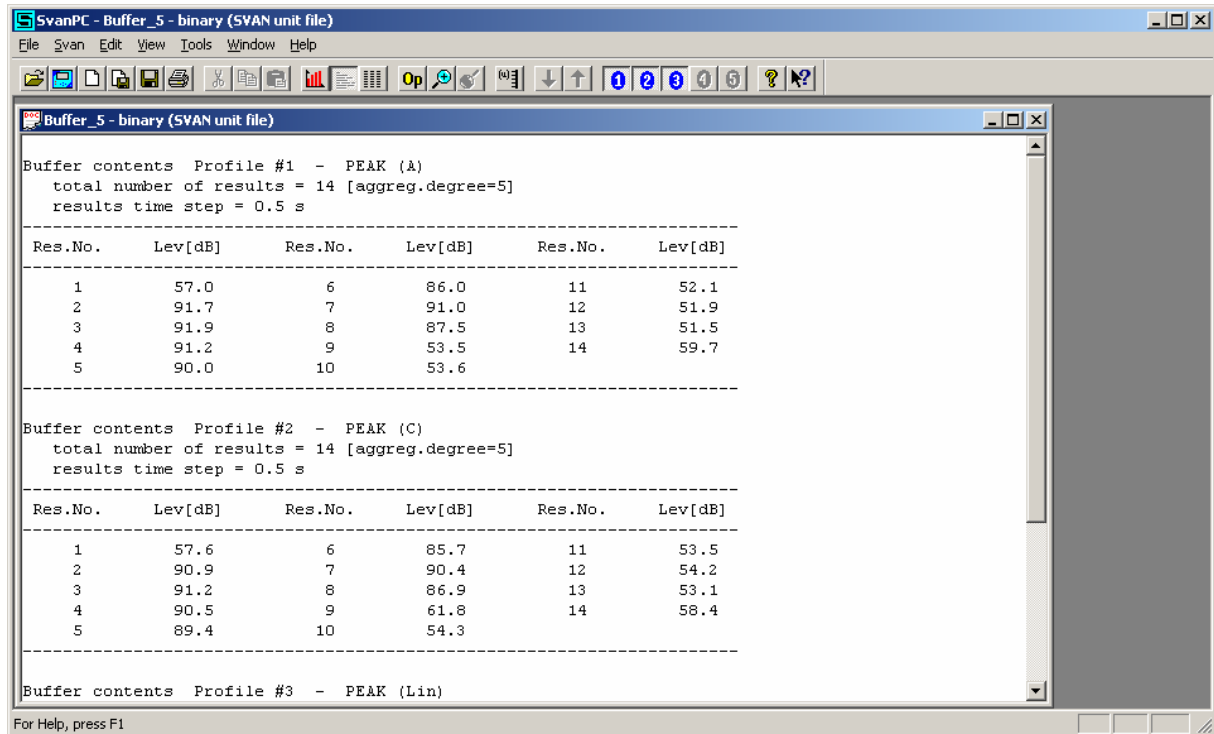
- below screen will appear



- change aggregation degree in the way to obtain logging step which the best suit your needs (A); aggregation degree function allows to recalculate RMS, Min, Max, MTVV Peak and Vector results
- below screen will appear



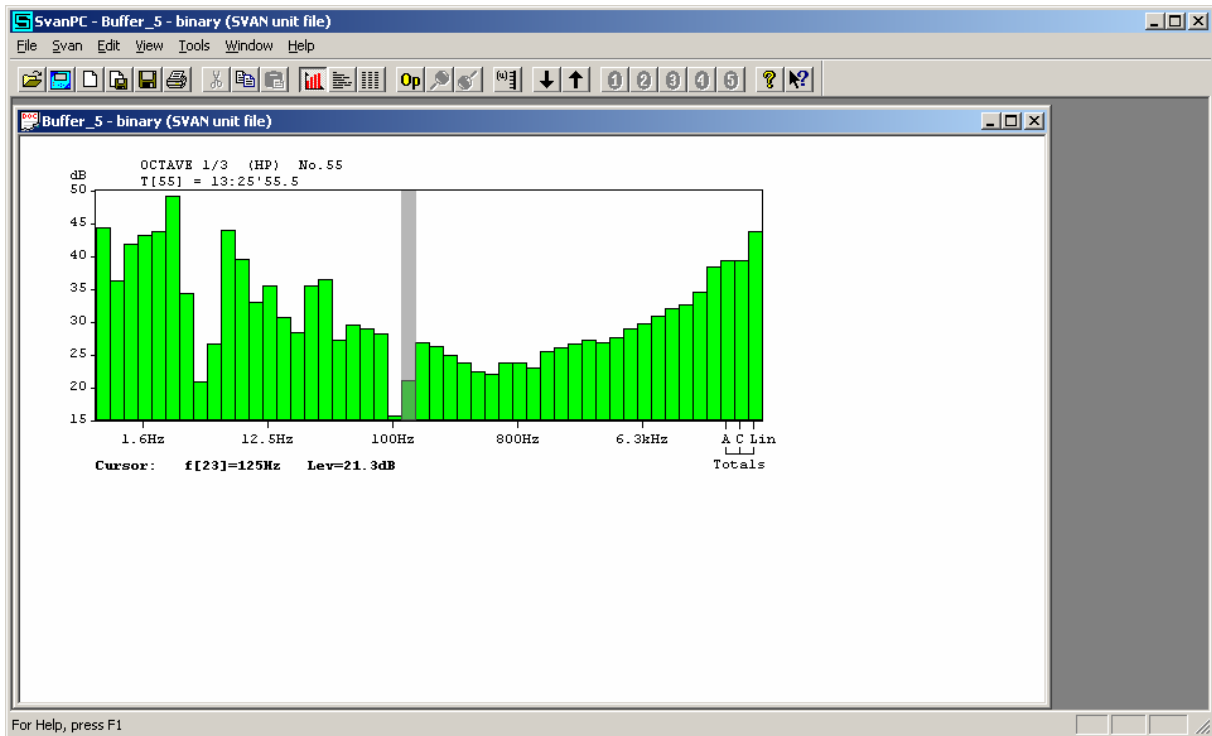
- aggregation degree on presented plots is equal 5
- select text format view (B)
- below screen will appear



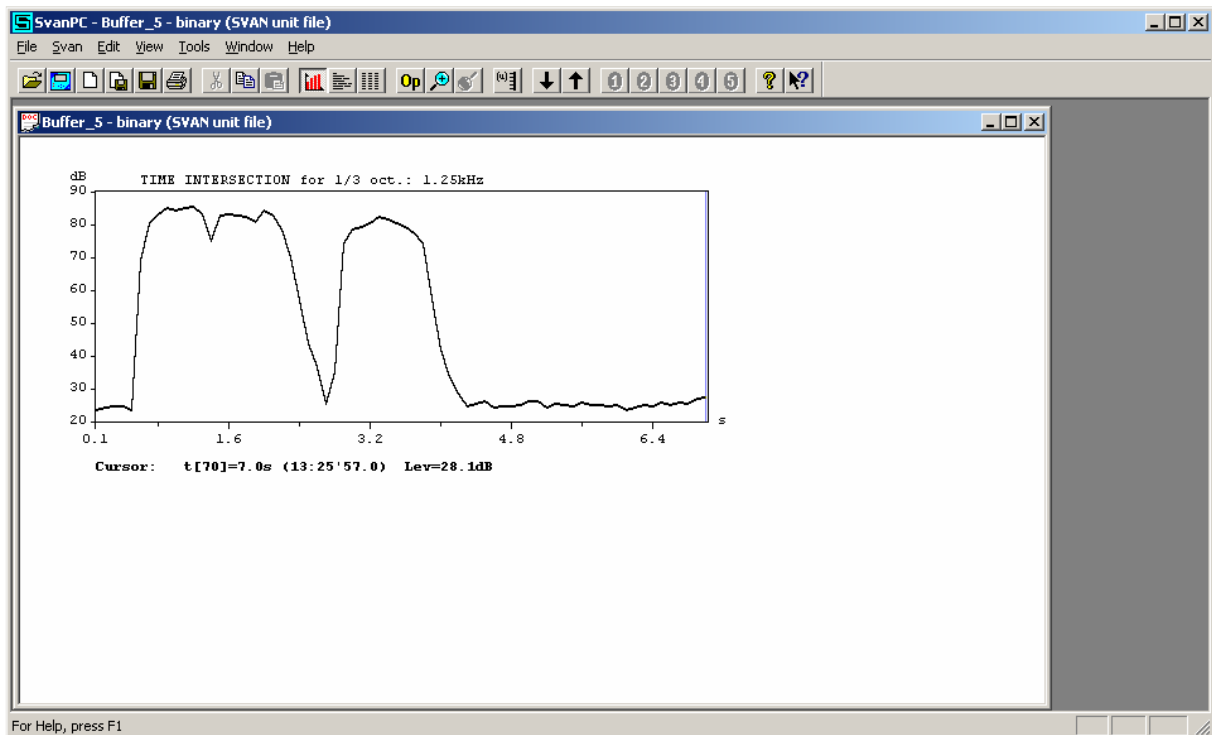
- to copy these data to Excel spread sheet please follow steps from section 4

## 10. Spectra Buffer/Logger time history and Excel spread sheet

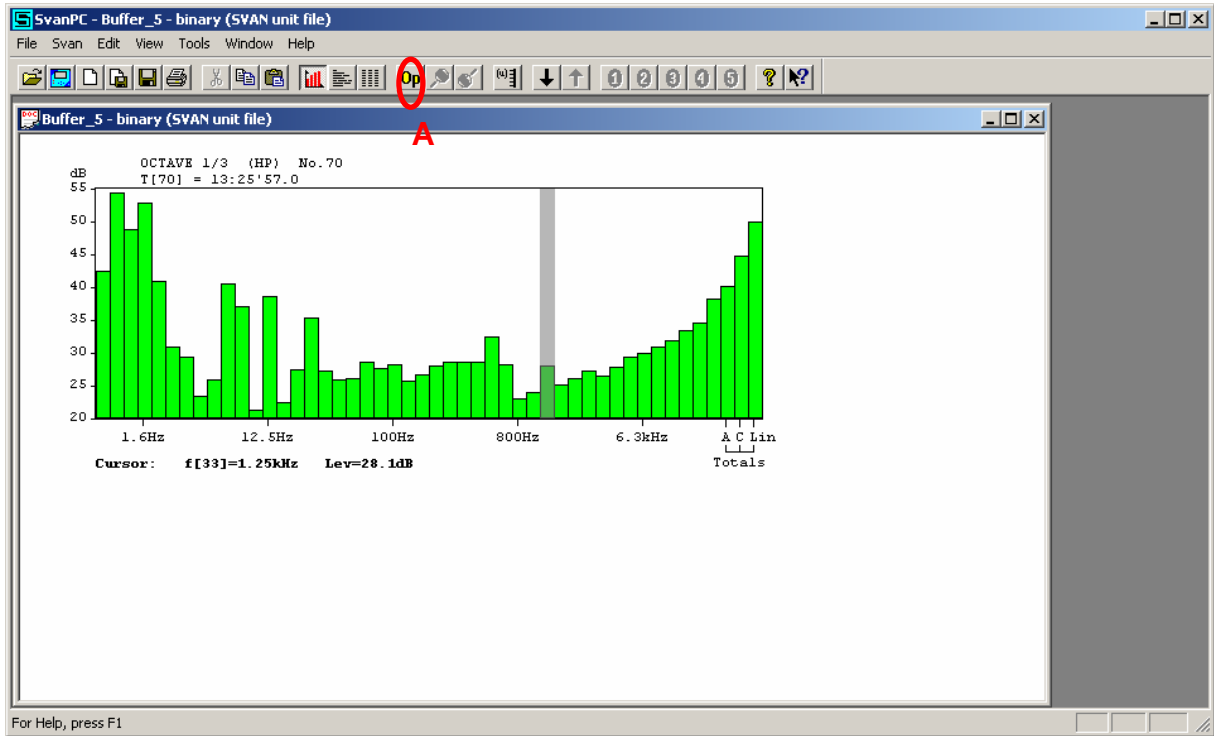
- select menu/VIEW/Octave 1/3
- below screen will appear



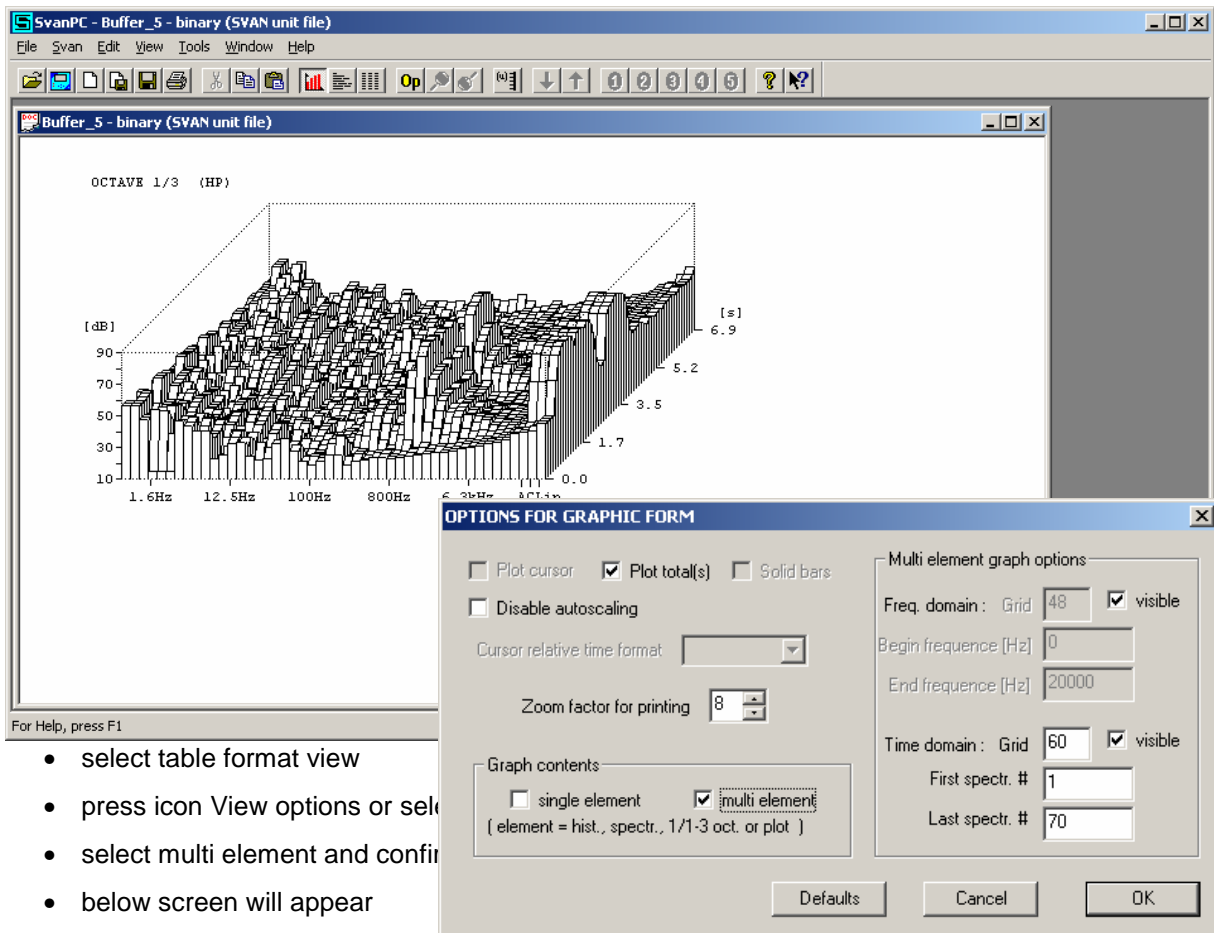
- select menu/VIEW/Octave 1/3
- below screen will appear



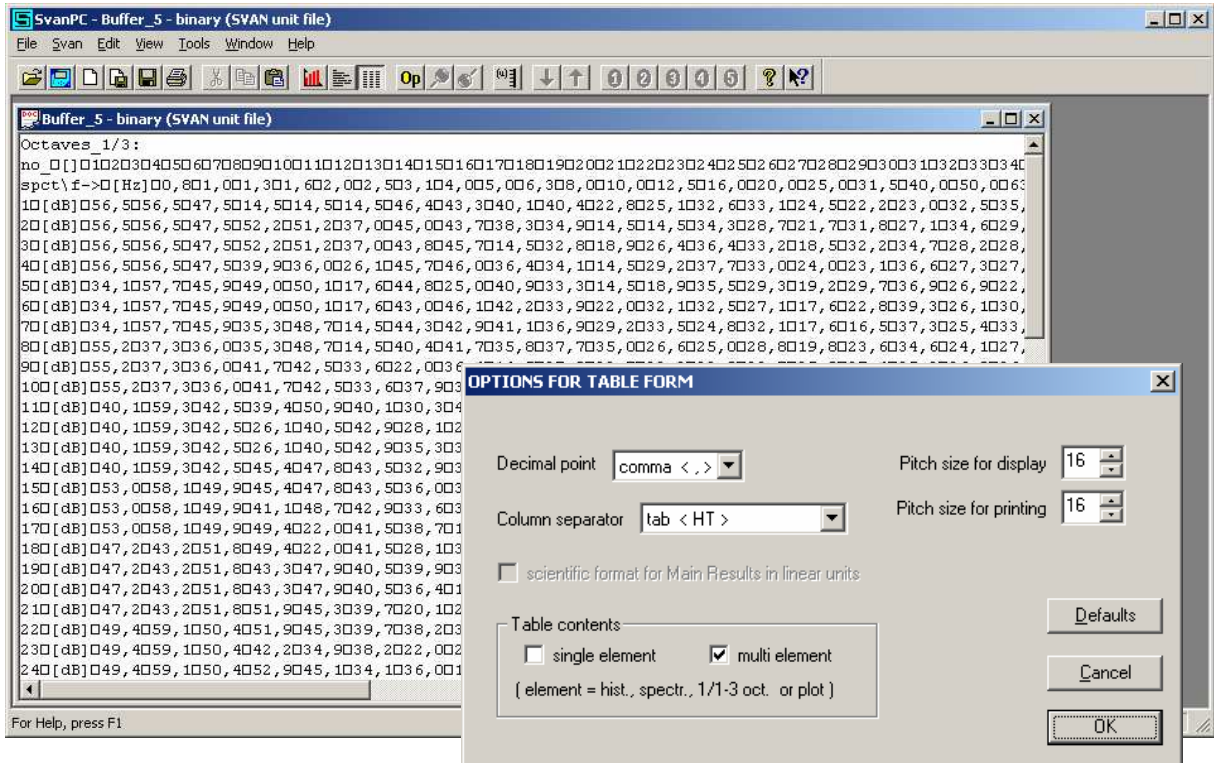
- section 9 presents how to adjust aggregation
- select menu/VIEW/Octave 1/3
- select plot format view (A)
- below screen will appear



- press icon View options or select MENU/View options (A)
- select multi element and confirm with OK
- below screen will appear



- select table format view
- press icon View options or select MENU/View options
- select multi element and confirm with OK
- below screen will appear



- to copy these data to Excel spread sheet please follow steps from section 4

