SET_LIST

Switches the currently selected Detector from PHA mode to LIST mode.

SET_NAME_STRIP "file.chn"

This can be used before STRIP to select a disk filename to be used subsequently by the STRIP command. (It is not necessary to use this command, because the filename can be supplied as part of the STRIP command itself; however, the command is included for backward compatibility.) No other action is taken by this command. The filename can include any of the variables defined in Section 10.2.

SET_OPTIONS "OptionsFile", "SdfFile"

This command creates "SdfFile" based on the options specified in "OptionsFile". The OptionsFile is a text file composed of single settings as defined in the SET_SETTINGS JOB command. An example file is shown in Fig. 313.

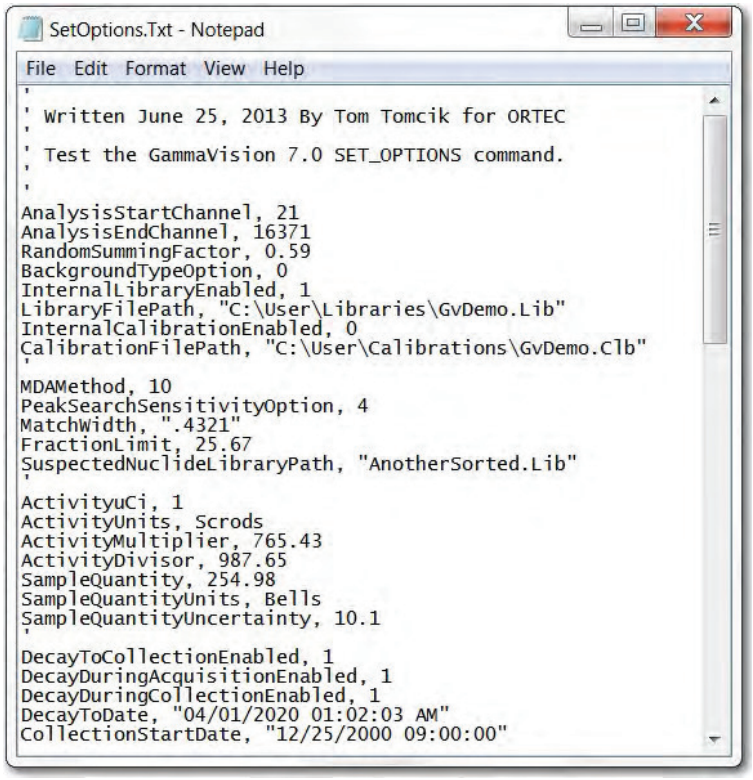

Figure 313. SET_OPTIONS Options file.

NOTES

- An invalid parameter name, data type, or file structure will generate an error and terminate the job.

- A single quote character at the start of a line indicates that the line is a comment, and the line is not parsed for Parameter/Data pairs.

- A blank line will terminate the parsing process, so the single quote character should be used if white space is desired to improve readability of the file content.

- The .SDF file does not store the following SET_SETTINGS parameters, so they cannot be included in the Options File.

Keyword	Storage Location
Operator	Stored in the Registry
Laboratory	Stored in the Registry
GammaTotalGammaTotalSequence	Stored in the Context File
GammaTotalGermaniumSequence	Stored in the Context File
GammaTotalReportDirectory	Stored in the Registry
GammaTotalGermaniumReportDirectory	Stored in the Registry

The following additional parameters can be used to set the Presets in the .SDF file, and they will be applied to the hardware when the .SDF file is loaded into GammaVision.

RealTimePreset	Float in seconds
LiveTimePreset	Float in seconds
ROIPeakPreset	Integer
ROIIntegralPreset	Integer
UncertaintyPresetPercent	Float in percent
UncertaintyPresetStartChannel	Integer
UncertaintyPresetWidth	Integer

Note that presets can also be modified when the Job is running by using the following GammaVision Job commands in lieu of saving presets to an .SDF file.

SET_PRESET_CLEAR
SET_PRESET_REAL
SET_PRESET_LIVE
SET_PRESET_COUNT
SET_PRESET_INTEGRAL
SET_PRESET_UNCERTAINTY

SET_PHA

Switches the currently selected Detector from LIST mode to PHA mode.

SET_PRESET_CLEAR

This clears the presets for the active Detector. The clearing should be done to ensure that unwanted presets are not used by the Detector when the Detector is started.

NOTE For the Models 916/17/18 Detectors, the new presets (including CLEAR) can be loaded at any time, but are not put into effect until the Detector goes from STOP to START. For most other MCBs, the presets can only be changed when the unit is not counting.

The Detector should be selected by the SET_DETECTOR commands before the SET_PRESET_CLEAR command is given, as in the following:

```
.
.
SET_DETECTOR 1
STOP
SET_PRESET_CLEAR
START
.
.
```

SET_PRESET_COUNT <counts>

This sets the ROI peak count preset for the active Detector. The preset is set to the entered value. With this preset condition, the Detector stops counting when any ROI channel's content reaches this value. If no ROIs are marked in the Detector, then that Detector never meets this condition. This command has the same function as the **ROI Peak Count** field on the Presets tab under **Acquire/MCB Properties...** (Section 5.2.11); refer to the discussion describing that dialog for additional information.

The JOB processor expects one or more numerals as the argument to this command, entered with or without quotation marks (e.g., you can enter the numerals 1000 or the string "1000"). The JOB processor will also accept the loop counter as an argument to the function *as long as it is set in quotation marks*. For example, you could use the loop counter to collect a series of spectra with increasing ROI peak counts by appending zeroes to the loop counter to obtain 1000 counts, then 2000, and so on.

SET_PRESET_INTEGRAL <counts>

This sets the ROI Integral Count preset value for the active Detector. The preset is set to the entered value. With this preset condition, the Detector stops counting when the sum of all counts in all channels marked with an ROI reaches this limit. If no ROIs are marked in the Detector, then that Detector never meets this condition. This command has the same function as the **ROI Integral** field on the Presets tab under **Acquire/MCB Properties...** (Section 5.2.11); refer to the discussion describing that dialog for additional information.

The JOB processor expects one or more numerals as the argument to this command, entered with or without quotation marks (e.g., you can enter the numerals 1000 or the string “1000"). The JOB processor will also accept the loop counter as an argument to the function *as long as it is set in quotation marks*. For example, you could use the loop counter to collect a series of spectra with increasing ROI integral counts by appending zeroes to the loop counter to obtain 1000 counts, then 2000, and so on.

SET_PRESET_LIVE <seconds>

This sets the live-time preset for the active Detector. The preset is set to the entered value. With this condition, the Detector stops counting when the live time reaches this limit. The live time is the real time minus the dead time. This command has the same function as the **Live Time** field on the Presets tab under **Acquire/MCB Properties...** (Section 5.2.11); refer to the discussion describing that dialog for additional information.

The JOB processor expects one or more numerals as the argument to this command, entered with or without quotation marks (e.g., you can enter the numerals 1000 or the string “1000"). The JOB processor will also accept the loop counter as an argument to the function *as long as it is set in quotation marks*. For example, you could use the loop counter to collect a series of spectra with increasing live times by appending zeroes to the loop counter to obtain 1000 seconds, then 2000, and so on.

SET_PRESET_REAL <seconds>

This sets the real-time preset for the active Detector. The preset is set to the entered value. With this preset condition, the Detector stops counting when the real time reaches this limit. This command has the same function as the **Real Time** field on the Presets tab under **Acquire/MCB Properties...** (Section 5.2.11); refer to the discussion describing that dialog for additional information.

The JOB processor expects one or more numerals as the argument to this command, entered with or without quotation marks (e.g., you can enter the numerals 1000 or the string “1000"). The JOB processor will also accept the loop counter as an argument to the function *as long as it is set in quotation marks*. For example, you could use the loop counter to collect a series of spectra with increasing real times by appending zeroes to the loop counter to obtain 1000 seconds, then 2000, and so on.

SET_PRESET_UNCERTAINTY <limit>,<low chan>,<high chan>

This sets the statistical preset to the uncertainty based on the counts in the region between the low and high channels. Not supported by all MCBs. See Section 4.2.1.1 for details on the calculation. The low channel must be greater than 1 and the high channel must be greater than the low channel plus 7.

SET_RANGE “M/dd/yyyy”, “hh:mm:ss”, <t>
SET_RANGE “r”, “t”
Displays a time slice of data from a .LIS file that has been recalled into a buffer.

SET_SETTING “Setting”, “Value”
This command updates the analysis setting described by “Setting” to the value specified by “Value”. Formatting for the Setting / Value combinations are shown below:

NOTE: A valid file path must be specified for the Correction options (i.e., PBC, Geometry, or Attenuation) prior to setting the “InternalEnabled” parameter to NO or the “Enabled” parameter to YES. If the file path is not valid then the associated correction will be automatically disabled.

Setting	Description
AnalysisStartChannel	Starting channel number
AnalysisEndChannel	Ending channel number
RandomSummingFactor	Floating point value allowed
BackgroundTypeOption	0 = Auto, 1 = 1Pt, 3 = 3Pt, 5 = 5pt, xP, x.xF x = # of points with the “P” suffix x.x = FWHM Factor with the “F” suffix
InternalLibraryEnabled	1 = Yes, Anything else = No
LibraryFilePath	Library pathname
InternalCalibrationEnabled	1 = Yes, Anything else = No
CalibrationFilePath	Calibration override pathname
Laboratory	Laboratory name
Operator	Operator name
MDAMethod	1 = Traditional ORTEC 2 = Critical Level ORTEC 3 = Suppress Output 4 = KTA Rule 5 = Japan 2-Sigma Limit 6 = Japan 3-Sigma Limit 7 = Currie Limit 8 = RISO MDA 9 = LLD ORTEC 10 = Peak Area 11 = Air Monitor – GIMRAD 12 = Reg. Guide 4.16 Method 13 = Counting Lab USA

	14 = DIN 25 482.5 Erkennungsgrenze 15 = DIN 25 482.5 Nachweisgrenze 16 = EDF – France 17 = Nureg 0472 18 = ISO Decision Threshold (CL) 19 = ISO Detection Limit (MDA)
PeakSearchSensitivityOption	1, 2, 3, 4, or 5
MatchWidth	Floating point (0.4 to 1.0)
FractionLimit	Floating point in percent
SuspectedNuclideLibraryPath	Full pathname to suspected nuclide library
ActivityuCi	1 = uCi, Anything else = Bq
ActivityUnits	Sample Activity Units descriptor
ActivityMultiplier	Sample amount multiplier
ActivityDivisor	Sample amount divisor
SampleQuantity	Sample amount
SampleQuantityUnits	Sample amount units
SampleQuantityUncertainty	Sample amount uncertainty in percent
DecayToCollectionEnabled	1 = Yes, Anything else = No
DecayDDuringAcquisitionEnabled	1 = Yes, Anything else = No
DecayDuringCollectionEnabled	1 = Yes, Anything else = No
DecayToDate	Date Time “YYYY-MM-DD HH:MM:SS”
CollectionStartDate	Date Time “YYYY-MM-DD HH:MM:SS”
CollectionEndDate	Date Time “YYYY-MM-DD HH:MM:SS”
ReportUnknownPeaksEnabled	1 = Yes, Anything else = No
ReportLibraryPeakListEnabled	1 = Yes, Anything else = No
ReportLibraryPeakMatrixEnabled	1 = Yes, Anything else = No
ReportNuclideAbundanceEnabled	1 = Yes, Anything else = No
ReportIsoNormEnabled	1 = Yes, Anything else = No
UncertaintyPercentOption	1 = Percent, Anything else = Activity
UncertaintyCountingOption	1 = Counting, Anything else = Total
UncertaintyConfidenceLevelOption	1 = 1-Sigma, 2 = 2-Sigma, 3 = 3-Sigma
DisplayAnalysisResultsEnabled	1 = Yes, Anything else = No

ReportOutputOption	1 = Printer, 2 = File, 3 = Program, 4 = Report Writer
ReportFilePath	File pathname
ReportProgramPath	Program pathname
ReportWriterTemplatePath	Template pathname
AnalysisEngine	‘WAN32', ‘GAM32', ‘NPP32', ‘ENV32', ‘ROI32', ‘NAI32', or user-defined name

NOTES

For GAM32 and ROI32, **Directed Fit**, **Library Based** peak stripping, and **Manual Based** peak stripping are disabled.

For NPP32, ENV32 and NAI32, **Library Based** peak stripping is enabled and **Manual Based** peak stripping is disabled.

AdditionalRandomError	Random error in percent
AdditionalSystemicError	Systemic error in percent
LibraryPeakStrippingEnabled	1 = Yes, Anything else = No
ManualPeakStrippingEnabled	1 = Yes, Anything else = No
SecondLibraryPath	Pathname to second library
ThirdLibraryPath	Pathname to third library
PeakCutoff	Peak cutoff in percent
TCCEnabled	1 = Yes, Anything else = No
DirectedFitEnabled	1 = Yes, Anything else = No
PBCEnabled	1 = Yes, Anything else = No
PBCInternalEnabled	1 = Yes, Anything else = No
PBCByEnergyEnabled	1 = Yes, Anything else = No
PBCFilePath	Full pathname to the PBC file
PBCMatchWidth	Positive floating point number
GEOEnabled	1 = Yes, Anything else = No
GEOInternalEnabled	1 = Yes, Anything else = No
GEOFilePath	Full pathname to the Geometry file
ATTEnabled	1 = Yes, Anything else = No
ATTInternalEnabled	1 = Yes, Anything else = No
ATTFromFilePath	Full pathname to ATT file
ATTFromDatabaseEnabled	1 = Yes, Anything else = No
ATTMaterial	Material name

NOTE: The ATTConfigurationOption must be set prior to setting the Material name.