# *Standard Operating Procedure*

## \<UsingLibrary\>

include;

superapi::supercore;
superapi::superfftw;
superapi::superfiledialog;
superapi::superfilemanager;
superapi::supergroupbox;
superapi::superhook;
superapi::superlogger;
superapi::supermultimedia;
superapi::supernotedialog;
superapi::superplot;
superapi::superprogressbardialog;
superapi::supertab;
superapi::superwindow;

public;

wavdatabox public superapi::supertab;
wavdatabox::datadialog public superapi::superwindow;

## \<WavDataBox\>

sliderReleased;

set wav files' position;

clicked;

change play mode;
include single,random,listloop;

clicked;

change wavfile to last;

clicked;

play wav file at treewidget highlighted;
set play mode as playing;

clicked;

suspend wav file that playing;
set play mode as suspended;

clicked;

resume wav file that suspended;
set play mode as playing;

clicked;

change wavfile to next;

clicked;

stop play wav file;
disable widget;
reset Play widget;

162.6/342.0(s)

nousercontrol;

display current time played;

## \<WavDataBox::DataDialog\>

Source

clicked;

change to Source tab;

FFT

clicked;

change to FFT tab;
not develop;

**Play**

<span style="color:magenta">clicked;</span>
  if widget text is Play,
  play wav file;
  set wav file pointer as file position;
  set widget text as Playing...;
  else
  suspend play wav file;
  set widget text as Suspended;

**50 fps**

<span style="color:magenta">nousercontrol;</span>
  display play fps;

**44100(hz), 16(bits), 2(channels), 342.002(seconds)**

<span style="color:magenta">nousercontrol;</span>
  display wav files' info;

<span style="color:magenta">clicked;</span>
  change mouse operate mode as select;
  adapt to source tab and FFT tab;

<span style="color:magenta">clicked;</span>
  change mouse operate mode as move;
  adapt to source tab and FFT tab;

<span style="color:magenta">clicked;</span>
  replot data;
  adapt to source tab and FFT tab;

<span style="color:magenta">clicked;</span>
  change refresh rate;
  include 1 fps,10 fps,computer high performance;

<span style="color:magenta">clicked;</span>
  change slider play mode;
  include track(default),range;

<span style="color:magenta">nousercontrol;</span>
  display current play mode;
  full is play all file;
  half is play selected part;

**Refresh**

<span style="color:magenta">clicked;</span>
  get selection's data on source tab;
  cal fft and display on fftcanvas;
  cal dbv;
  cal frequency;
  cal thd;

<span style="color:magenta">clicked;</span>
  change dbv mode;
  include peak and rms;

# Version Logs

<span style="color:magenta"><20220319 Version 1.27></span>

  fix open wavdatabox::datadialog bugs;

<span style="color:magenta"><20220228 Version 1.26></span>

  fix wavdatabox opened wavdatabox::datadialog play button disabled bug;

<span style="color:magenta"><20220224 Version 1.25></span>

  fix wavdatabox::datadialog change dbv mode bugs;

<20220219 Version 1.24>

        fix datadialog opened clicked treewidget function bugs;

<20220214 Version 1.23>

        fix filepos perscion bugs;

<20220209 Version 1.22>

        use supertab,supergroupbox api;

<20220207 Version 1.21>

        fix open playing wavfiles,play button can not disabled bugs;

<20220206 Version 1.20>

        add select slider track mode or range mode function;

<20220205 Version 1.19>

        set time refresh rate as 200ms;

<20220202 Version 1.18>

        when datadialog opened,disable wavdatabox play button for key play bugs;

<20220130 Version 1.17>

        use supermultimedia playwav class timer for refresh plot;

<20220126 Version 1.16>

        add keyplay function depend on superhook api;
        change default play mode as random;

<20220121 Version 1.15>

        fix bugs daily;
        replace button text with button icon;

<20220113 Version 1.14>

        fix bugs daily;
        add load and record function;

<20220104 Version 1.13>

        fix bugs;
        add played time and fps function;

        ----rongsheng;

<20211130 Version 1.12>

        fix delete wav file bugs;
        only stop play when delete current wavfile;

<20211126 Version 1.11>

        add slidingline between with beginline and endline;
        add check function before open file;

<20211125 Version 1.10>

        fix wav file selection play bug;

<20211108 Version 1.09>

        add itemrightclick function;
        include open datadialog and delete;
        optization user experience;

<20211029 Version 1.08>

        fix play bug,though no item selected;

<20211021 Version 1.07>

        replace qmessagebox with supernotedialog;

<20211019 Version 1.06>

        fix load source to fft bug;
        fix as background;

<20211013 Version 1.05>

        add cal fft function;
        add fftreset plot function;
        add fftdrag plot function;

add fftselect plot function;
add fftdbvmode change function;

<20211011 Version 1.04>

fix multi channel pen set bug;

<20211009 Version 1.03>

add last wavfile,next wavfile function;

<20211008 Version 1.02>

add explain for every function;
not include init function;

<20211003 Version 1.00>

first release;