

SSA5000A Firmware Revision History

Version	Revision
V1.9.0.2.2R3 2025/5/27	<p>New Functionality:</p> <ul style="list-style-type: none"> Add user calibration for reference clock <p>Improvements :</p> <ul style="list-style-type: none"> SA mode: optimize refresh efficiency AMA mode: optimize AF smoothing effect NF mode: exporting table results as .csv files Add FTP switch function <p>Solved Issues:</p> <ul style="list-style-type: none"> SA mode: align estimated scan time and regular scan time BT mode: solve issues including Preset, EDR signal demodulation, and no response to quick operations PN mode: solve issues including signal averaging failure and incorrect sweep width NF mode: solve issues including calculation errors RTSA mode: solve issues including no waveform in screenshots, peak failure, failure to save and load files, and missing reference offset Add and modify SCPI commands: <ol style="list-style-type: none"> Period cursor reading error (:CALCulate:MARKer:FCOut:X?) Query cursor function returns off (CALCulate:MARKer:FUNCTION?) Setting external trigger command is inconsistent with programming manual (:TRIGger[:SEQuence]:SOURce) Harmonic analysis command is missing to obtain each order harmonic frequency and power and obtain total harmonic distortion (:READ:HARMonics:AMPLitude:ALL? :READ:HARMonics:DISToRtion?) SA command reads back cent, low, high.Q results when obtaining NDB results(:CALCulate:MARKer:BANDwidth:RESult?)
V1.1.2.2.0 2024/1/17	<p>New Functionality:</p> <ul style="list-style-type: none"> Add Phase Noise Measurement Mode Add Noise Figure Measurement Mode Add Pulse Measurement Mode Add Blue Tooth Analysis Mode Add AF spectrogram, SNR,Dist/Total,THD parameter analysis results in AMA Mode Add image browsing in SYSTEM <p>Solved Issues:</p> <ul style="list-style-type: none"> EMI mode Scan Only rescan with one less count issue EMI mode sending command unable to rescan meter and Meas issues

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V1.1.2.1.9 2023/11/4	<p>Improvements :</p> <ul style="list-style-type: none"> • AMA support demodulation time setting • SYS add Open Source Software declaration • SYS upgrade display progress bar and upgrade failure prompt, split display of version number <p>Solved Issues :</p> <ul style="list-style-type: none"> • GPSA error in waveform after automatic calibration • GPSA unable to send command to set fixed marker • GPSA rbw10hz zero sweep width waveform error • GPSA harmonic selection value mismatch, set to 1, SCPI query to 2 • AMA SINAD correction of calculation errors • AMA peak command missing completion • CCDF error in saving STA file • CCDF the default number of counts is incorrect • CCDF mark detaches from the trace after modifying the scale • CCDF frequency offset should not be added to the marker
V1.1.2.1.8R6 2023/9/23	<p>Improvements :</p> <ul style="list-style-type: none"> • Increased front protection • AMA measurement Y-axis scale adjustable • AMA measurement demodulation time is adjustable • AMA measurement supports peak • Optimization of ascending and descending order icons in peak table in SA mode • SA marker cursor added prompt outside waveform area • Restore the previous MEAS when SYS is powered on to last or user VNC interface optimization <p>Solved Issues:</p> <ul style="list-style-type: none"> • SA rbw10Hz and RBW 1Hz noise floor difference is 20db processing • SA zero span priority is greater than RBW manual • SA small RBW does not scan problem fixed • SA noise cursor modification RBW change problem handling • SA automatic calibration amplitude compensation error in Trace View state • Bug fix for DMA SCPI query demodulation type error • Solving the problem of one less average number of times in IQ mode single • There is no chance of response issues with HDMI connections
V1.1.2.1.7R3 2023/4/1	<p>Improvements:</p> <ul style="list-style-type: none"> • Support EMI mode • VNC interface optimization

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	<p>Solved Issues:</p> <ul style="list-style-type: none"> The default detection type of the third-order intermodulation in SA mode is changed to Pos Fixed cursor readout update error when the readout type is not auto 10db higher signal amplitude under harmonic analysis Harmonic analysis cannot modify the number of harmonics MA mode time domain graph marker display unit corrected to dBV Solved the problem that FTP cannot be used
V1.1.2.1.5R1 2022/7/18	<p>Improvements :</p> <ul style="list-style-type: none"> SA mode optimizes the problem of large 3db bandwidth error under 1M RBW filter setting SA mode adds the function of integrating bandwidth linkage span change in ACPR, CNR, Channel power SA mode optimizes the marker display in the upper right corner, and displays all markers when the marker table is not opened SA mode optimizes the abnormal detection waveform with black vertical lines inserted MA mode adds PM demodulation mode MA adds a command to switch between AMA and DMA LXI support <p>Solved Issues:</p> <ul style="list-style-type: none"> In SA mode, the problem of not scanning when triggering zero span and negative delay is corrected SA mode fixed the problem that FFT cannot be selected in Gate method In SA mode, the problem of loading scan points through the user configuration file is not loaded correctly In SA mode, the problem of spurious signals near 13G is corrected System fixed crash problem when loading through configuration file without a certain mode option System fixes the problem of white borders in reversed screenshots in ma mode UI fixes the afterimage problem when dragging controls
V1.1.2.1.3R2 2022/6/10	<p>Improvements:</p> <ul style="list-style-type: none"> SA mode optimization ref automatically adjusts the strategy modification of the Attenuator, and the Attenuator automatically steps down to 1 dB When optimizing Meas in SA mode, it also supports opening the Freq counter. <p>Solved Issues:</p> <ul style="list-style-type: none"> Fix the zero Span type when FFT in SA mode Fix the OPC response in EMI mode

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V1.1.2.1.0 2021/4/7	This version is the first time introduced.