

SSA3000X-R Firmware Revision History

Version	Revision
V3.2.2.6.0R7	Notice:
2023/4/10	This firmware must be upgraded from V3.2.2.4.0 or later. If your analyzer has an earlier version,
	please update to V3.2.2.4.0 first and then proceed to update to the latest version.
	New Functionality:
	Add ECal in VNA mode
	Add three new formats in VNA mode: Unwrap Phase/Real/Imaginary
	Add Z Reflection in VNA mode
	Add PM demodulation in MA mode
	The time of analog demodulation in MA mode is adjustable
	Improvements:
	SCPI command for setting/obtaining the format Unwrap Phase/Real/Imaginary: CALCULATE #1/SCFI act of the Section of the American Programme for ALVARIA (IMAGE).
	CALCulate#[:SELected]:FORMat adds three new parameters for UWPH/REAL/IMAG
	SCPI command for setting/obtaining Z Reflection:
	:CALCulate#:TRACe#:CONVersion:FUNCtion OFF/ZREFlection
	In VNA mode, when the format is Phase, the scpi command to read the marker y value: CALCULATE SCALMARIA THE COMMAND AND AND AND AND AND AND AND AND AND
	CALCulate#:FSCan:MARKer#:Y? returns the unwrap phase value in addition to the
	phase value
	SCPI commands for Calibration: Scloat Open Calibration (ISENSa#1:CORPostion:COLL cat:METHod/: PESPancel: OPEN.)
	Select Open Calibration [:SENSe#]:CORRection:COLLect:METHod[:RESPonse]:OPEN Select Short Calibration [:SENSe#]:CORRection:COLLect:METHod[:RESPonse]:SHORt
	Select Short Galibration [:SENSe#]:CORRection:COLLect:METHod;RESF01Se]:SHORT
	Select Through Calibration [:SENSe#]:CORRection:COLLect:METHod::RESPonse]:
	THRU
	Select 1 Port Calibration[:SENSe#]:CORRection:COLLect:METHod:SOLT1
	SCPI command for setting/obtaining the demodulation type:
	ADEMod:STYLe, new parameter is PM
	SCPI command for setting the scan time in MA mode
	[:SENSe]:SWEep:TIME
	Add SCPI commands in MA mode:
	Get AM parameters: FETCh:AM#?
	Get FM parameters: FETCh:FM#?
	Get PM parameters: FETCh:PM#?
	Add SCPI command:
	Exit remote status: SYSTem: LOCal
	Solved Issues:
	Fix the problem that the bandwidth of the emi filter in SA mode The standard s
	Fix the problem that setting the TG Level in SA mode may cause TG to have no output
	Fix the problem that the n dB Marker measurement results in SA mode are inconsistent



Version	Revision
	with the OBW measurement results
	 Fix the problem that there is an invalid frequency menu in Harmonic in SA mode Fix the problem that the SCPI command: READ:ADEMod? would return an invalid value when reading the analog demodulation measurement results in MA mode Fix the abnormality of the first scan in EMI mode Fix the problem that setting rbw may crash when qpd is not enabled in EMI mode Fix the problem of wrong reset when switching continue/single in RTSA mode Fix the problem that the 3D Spectrogram in RTSA mode will be abnormally full when pressing pause under continuous scanning Fix an issue where 'micro' relative units represented by 'u' were not recognized when reading files
V3.2.2.5.1R1	Notice:
2022/5/10	This firmware must be upgraded from V3.2.2.4.0 or later. If your analyzer has an earlier version, please update to V3.2.2.4.0 first and then proceed to update to the latest version.
	Improvements:
	Optimize the Ref level and Att couple
	Add SCPI commands in MA Mode
	•READ:ADEMod:AVG?
	•[:SENSe]:ADEMod:FM:DEVI?
	•[:SENSe]:ADEMod:FM:DRIFt?
	•[:SENSe]:BWIDth[:RESolution]
	•[:SENSe]:BWIDth[:RESolution]?
	•[:SENSe]:BWIDth:EQLPf
	•[:SENSe]:BWIDth:EQLPf?
	•CALCulate:MARKer#:PTPeak
	Add Cable Atten to correct cable loss in DTF Mode
	Add .trc file in EMI Mode
	Add .lic file auto scan
	Solved Issues:
	Fix the false signals in density view in RTSA mode
	Fix pi/4 DPSK 和 pi/8 DPSK decode errors in MA mode
	Fix calibration error when port extension on in VNA mode
	Fix fft frequency error in narrow span in SA mode
	Fix trace avg calculation error in SA mode
	Fix the zero sweep type when fft in SA mode
V3.2.2.5.0	Notice:
2021/9/30	This firmware must be upgraded from V3.2.2.4.0 or later. If your analyzer has an earlier version,
	please update to V3.2.2.4.0 first and then proceed to update to the latest version.



New Functionality: • Add Ext Trigger Delay from 0-10 seconds in SA Mode • Add Limit in Log mag and Lin mag format; add calibration average; add s1p toucle file save in VNA mode Improvements: • VNA sweep points up to 10001; Scale down to 0.001 in Smith chart; • MA Filter type Nyquist change to Raised Cosine to align SCPI command; improve performance in low frequency • EMI RBW/Step from 1 to 3 Solved Issues:	
 Add Limit in Log mag and Lin mag format; add calibration average; add s1p toucle file save in VNA mode Improvements: VNA sweep points up to 10001; Scale down to 0.001 in Smith chart; MA Filter type Nyquist change to Raised Cosine to align SCPI command; improve performance in low frequency EMI RBW/Step from 1 to 3 Solved Issues: 	
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performance in low frequency • EMI RBW/Step from 1 to 3 Solved Issues:	ve filter
EMI RBW/Step from 1 to 3 Solved Issues:	
Solved Issues:	
 SA: Fixed the difference between marker and peak and marker style; Center Fred 	a error.
Limit fail to stop error; Auto frequency error; In normalization, auto re-normalized af	-
setting changes	tor arry
VNA:Fixed Phase error; STA file saving error; CSA file loading error; S21 calil	bration
error; Enhanced calibration error	
RTSA: Fixed continue peak preset error; freq step error	
EMI: Fixed frequency offset error; saving std lim path error	
Web browser: Fixed change IP error, Login error after changing password	
V3.2.2.4.0 • Fix TG switch error at small RBW	
Fix Help and Limit file lost when Factory reset	
Fix Auto open delay unit error in VNA mode	
Fix CNR calc error when no peak found	
Fix OBW result overflow	
Fix Harmonic calc error at 100Hz RBW	
Fix Reflection Open+Short calibration action	
Fix spectrum amplitude error in DMA mode	
Optimize EMI .csv file content to all signal list	
Optimize EMI peak search	
Optimize Auto cal process	
Add Peak search to Spectrum in DMA mode	
This version con not be rolled back Vo. 0.0.0.0.0.4	
V3.2.2.3.3R1	
2020/12/01 New Functionality:	
Add EMI filter in SA for EMI option	
Solved Issues:	
Optimize the response in RTSA	
Optimize the TG flatness and control procedure	
Optimize Help	
Fix Correction, .csv file, add peak numbers to 20 in EMI mode	



Version	Revision
	 Fix ADC overload warning error, and time unit error in Calibration in VNA Mode Fix amplitude error in DMA Mode Fix the frequency band downgrade to 3.2GHz on some units Fix upgrade failure issue
V3.2.2.3.2	
2020/09/09	New Functionality: Add VNA and DTF mode Update EMI option to a new EMI measurement mode
	Solved Issues:
	Fix bug in Help File
	Fix some ADC overload warning
	Fix some PvT and Density marker bugs.
	Fix Ch Power calculation bug in small span in SA Mode
	Fix amplitude bug in AMA Mode
	Fix peak search bug in SCPI command