

Prepared for:

SG Auditorium Singapore

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Electronics & Engineering Singapore

CONFIGURATION

A simulation plot for EAW QX 326, 396

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EASE 3D Simulation with Area Mapping
Direct SPL 125Hz, 250Hz, 500Hz, 1000Hz, 2000Hz, 4000Hz, 8000Hz
Direct dBA SPL 125Hz to 10kHz / 250Hz to 4kHz /8kHz as required.

Note:

All simulations are for reference purposes only and are based on the given data information at the time of plotting. All simulations are based on direct SPL A-weighted and total SPL, predicted room RT and simulated STIPA based on the given data and are subjected to change on later revisions.

EASE PLOTS AND SIMULATION CREATED BY:

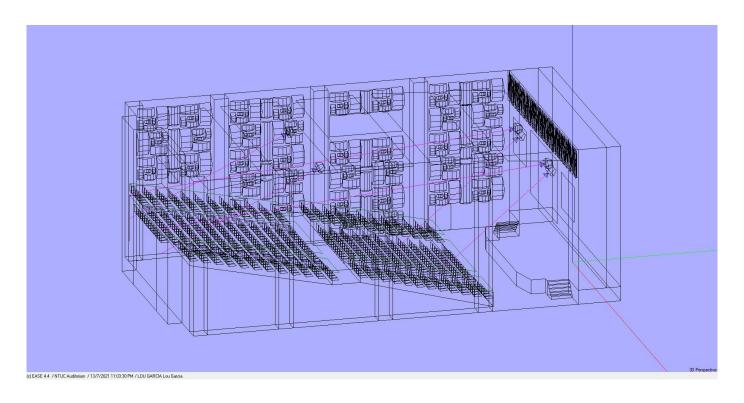
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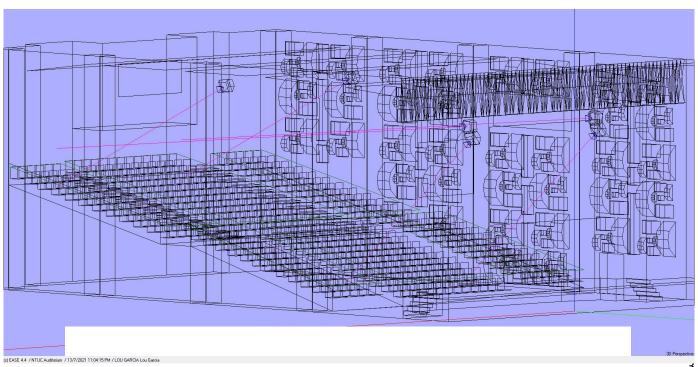
3D Venue Views Frame

Simulated and plotted by Lou Garcia

Frame View REF 001



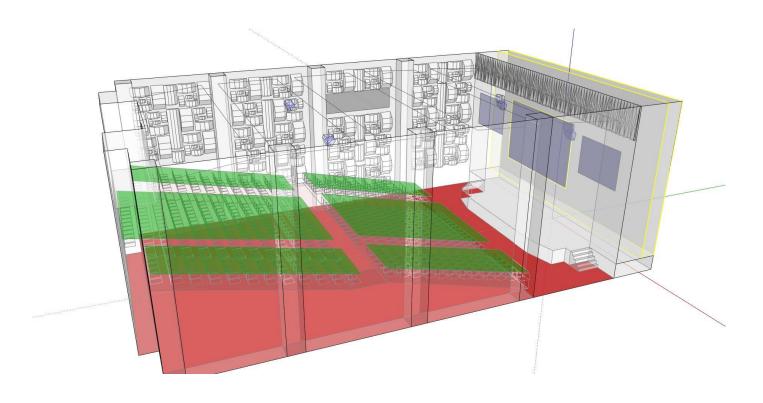
3D Frame View REF 002



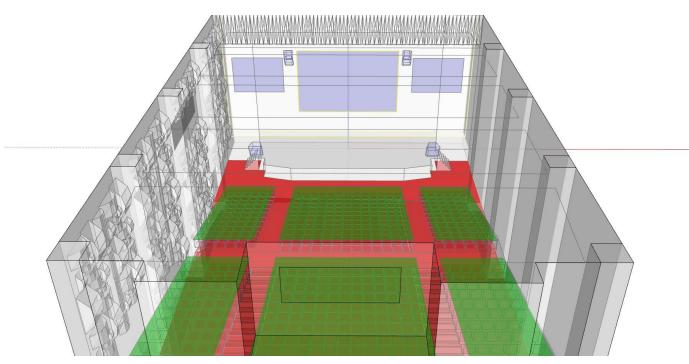
3D Views Frame

Simulated and plotted by Lou Garcia

3D View REF 003 – Loudspeaker Placement / Position



3D View REF 004 Loudspeaker Placement / Position



SPL Simulations

AVERAGE DIRECT SPL: 108.21 dBA max: 110.33 dBA

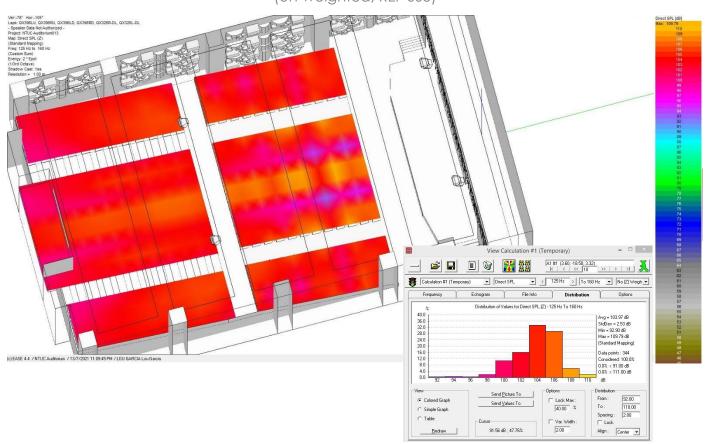
EASE 3D Simulation with Area Mapping

SPL simulation shows the coverage across the audience area within around +/- 3 dB of deviation and a maximum achieved data dBA SPL in about 90 percent of the coverage area.

The A-weighted (dBA) is used in this simulation. It has a frequency curve that reflects the loudness perceived by the human ear.

Below are the extracted frequencies on un-weighted proportions.

125Hz – 160Hz (Un-weighted; REF 005)

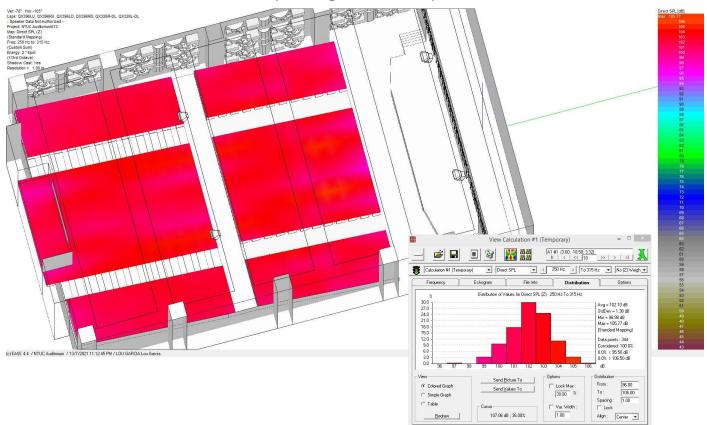


The Distribution tab above and below references view calculation window displays a bar graph representation of the selected parameter; Direct SPL focused on a group of frequencies. This is to quickly determine what percentage of the mapped areas fall within certain criteria. In this

illustration 90 % call for coverage "flat within 3+/- dB". This window gives you information to the specifications achieved SPL as required at the venue.

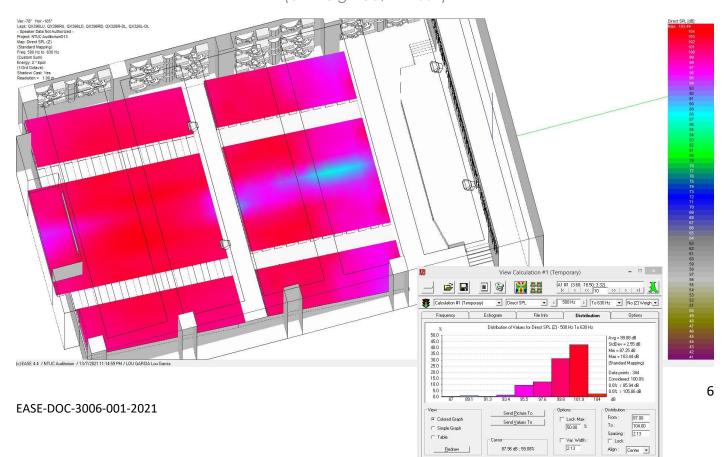
250Hz -315Hz

(Un-weighted; REF 006)



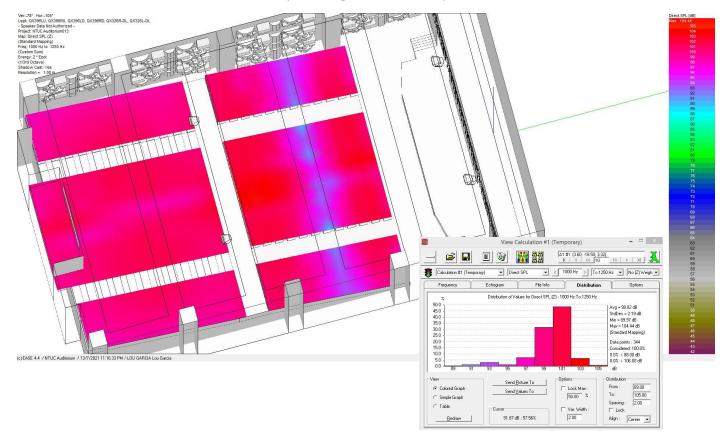
500Hz - 630Hz

(Un-weighted; REF 007)



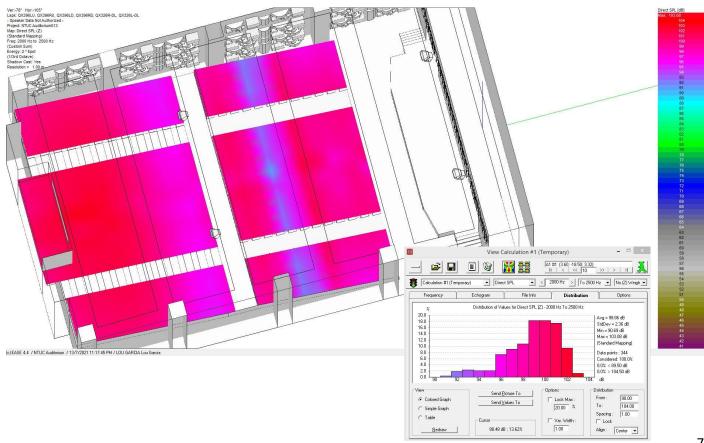
1000Hz - 1250Hz

(Un-weighted; REF 008)



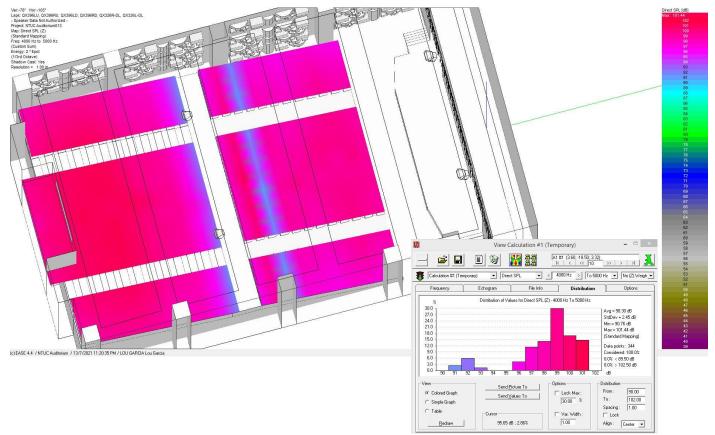
2000Hz - 2500Hz

(Un-weighted; REF 009)



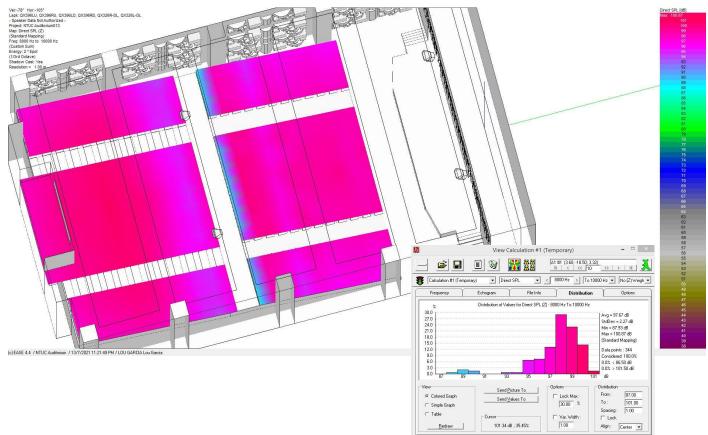
4000Hz - 5000Hz

(Un-weighted; REF 010)



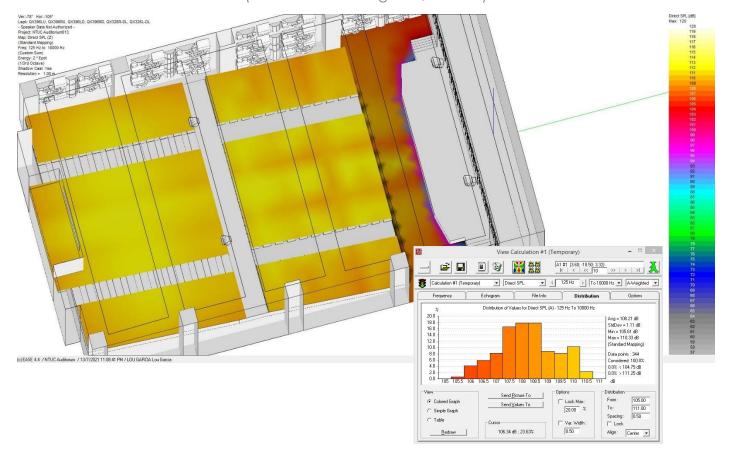
8000Hz - 10000Hz

(Un-weighted; REF 011)



DIRECT dBA SPL (125Hz - 10000Hz)

(Broadband A-Weighted; REF 012)



AREA MAPPING DIRECT SPL dBA

(Broadband A-Weighted; REF 013)



-END OF REPORT-