Prepared for:
THE ESPLANADE CO LTD
Singapore

Prepared by:
LOU GARCIA
Electronics & Engineering Singapore

Contents

LOUDSPEAKER CONFIGURATION:

MAIN LEFT: 9 Units JBL A8 with Subcardioid 4 Units B18

MAIN RIGHT9 Units JBL A8 with Subcardioid 4 Units B18

Note:

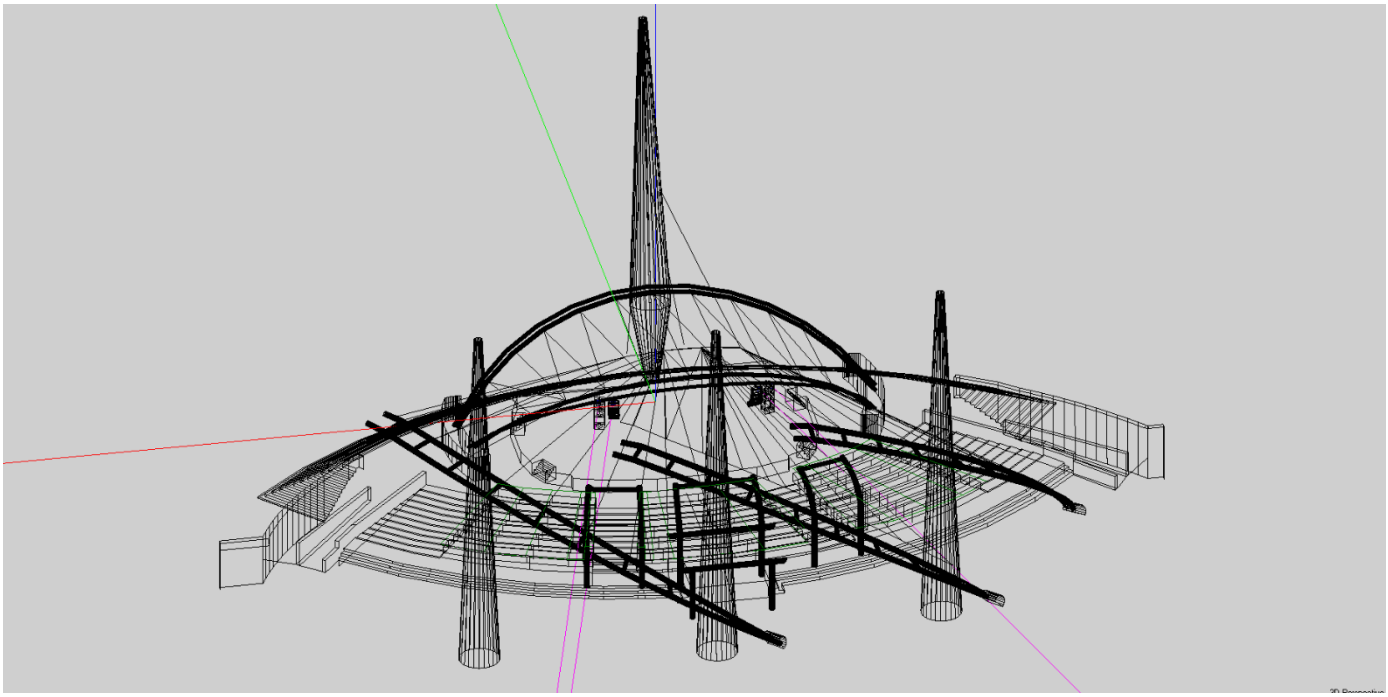
All simulations are for reference purposes only and are based on the given data information at the time of plotting. All simulations are based on direct SPL A-weighted and total SPL, predicted room RT and simulated STIPA based on the given data and are subjected to change on later revisions.

EASE PLOTS AND SIMULATION CREATED BY:

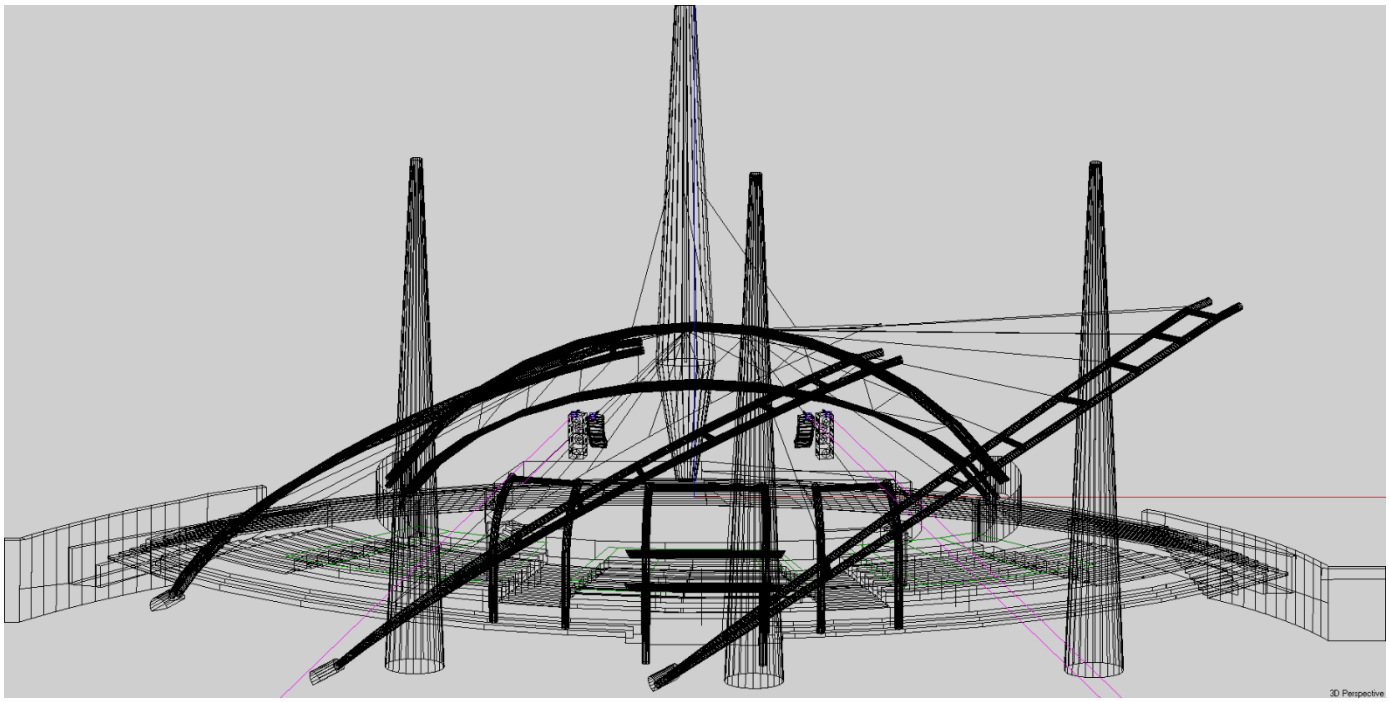
LOU GARCIA | Senior Systems Application Engineer
Electronics & Engineering Singapore

3D Venue Views Frame

Frame View REF 001

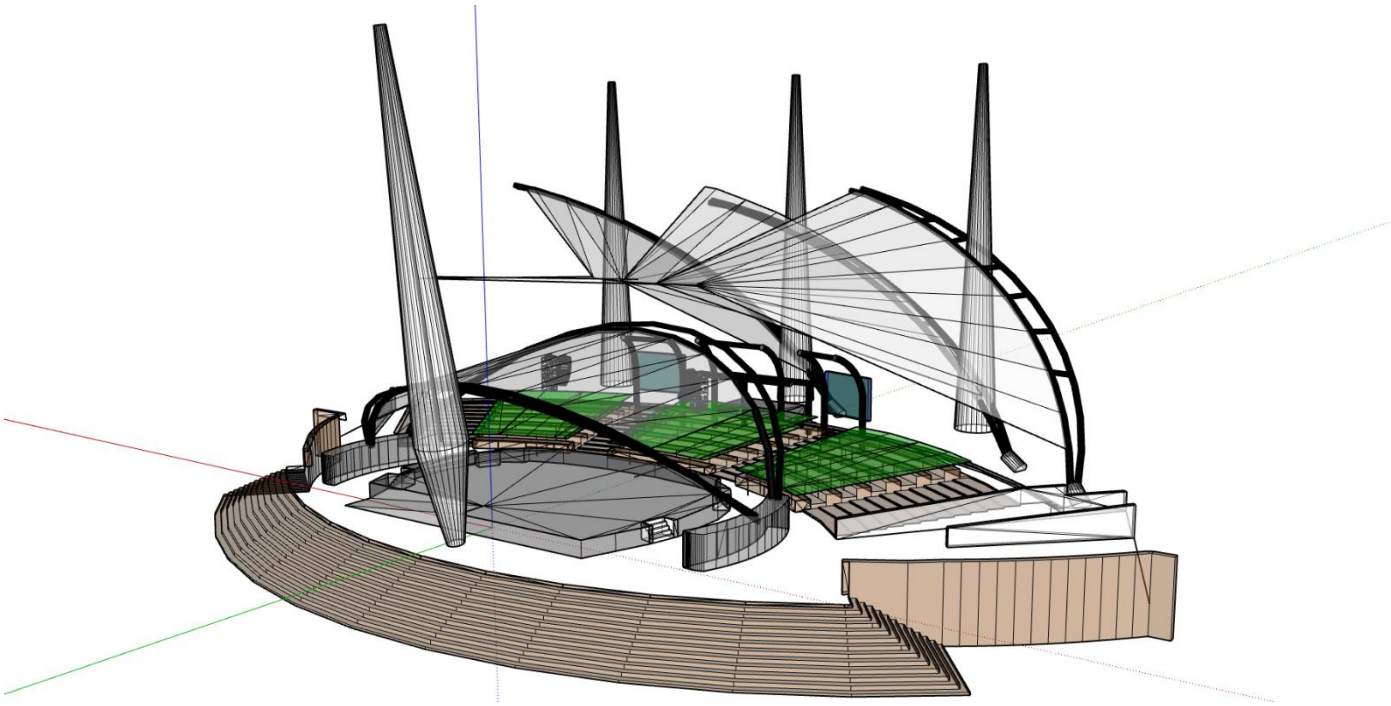


3D Frame View REF 002

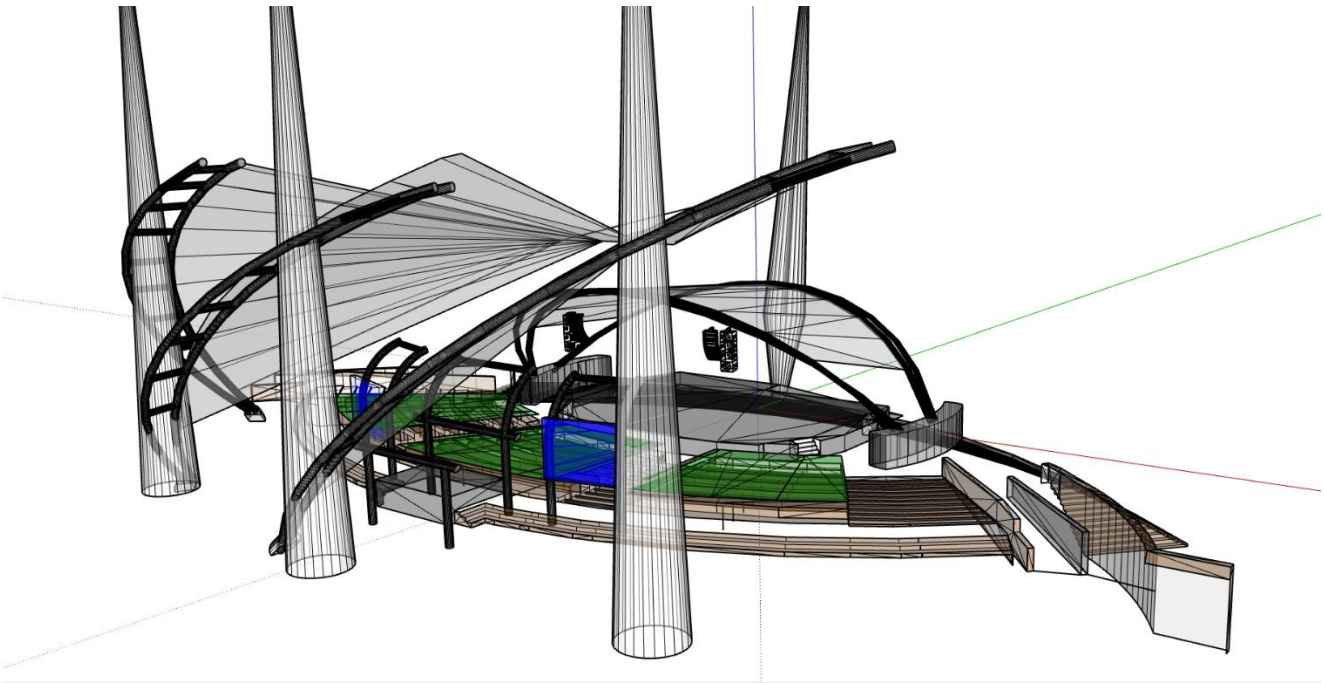


3D Venue Views

3D View REF 003 – Loudspeaker Placement / Position



3D View REF 004
Loudspeaker Placement / Position



SPL Simulations

AVERAGE DIRECT SPL: 110.35 dBA

EASE 3D Simulation with Area Mapping

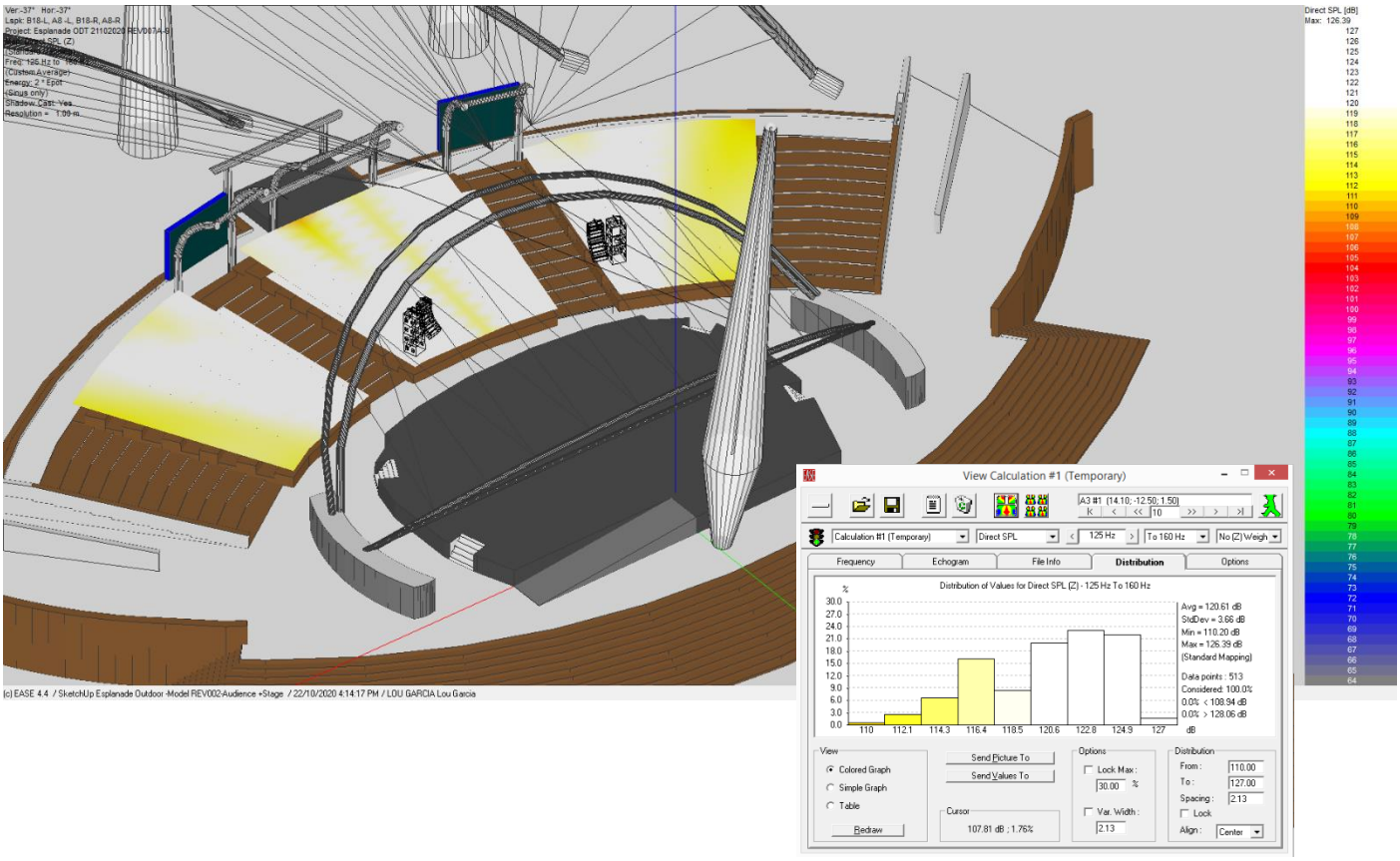
SPL simulation shows the coverage across the audience area within around +/- 3 dB of deviation and a maximum achieved data dBA SPL in about 90 percent of the coverage area.

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

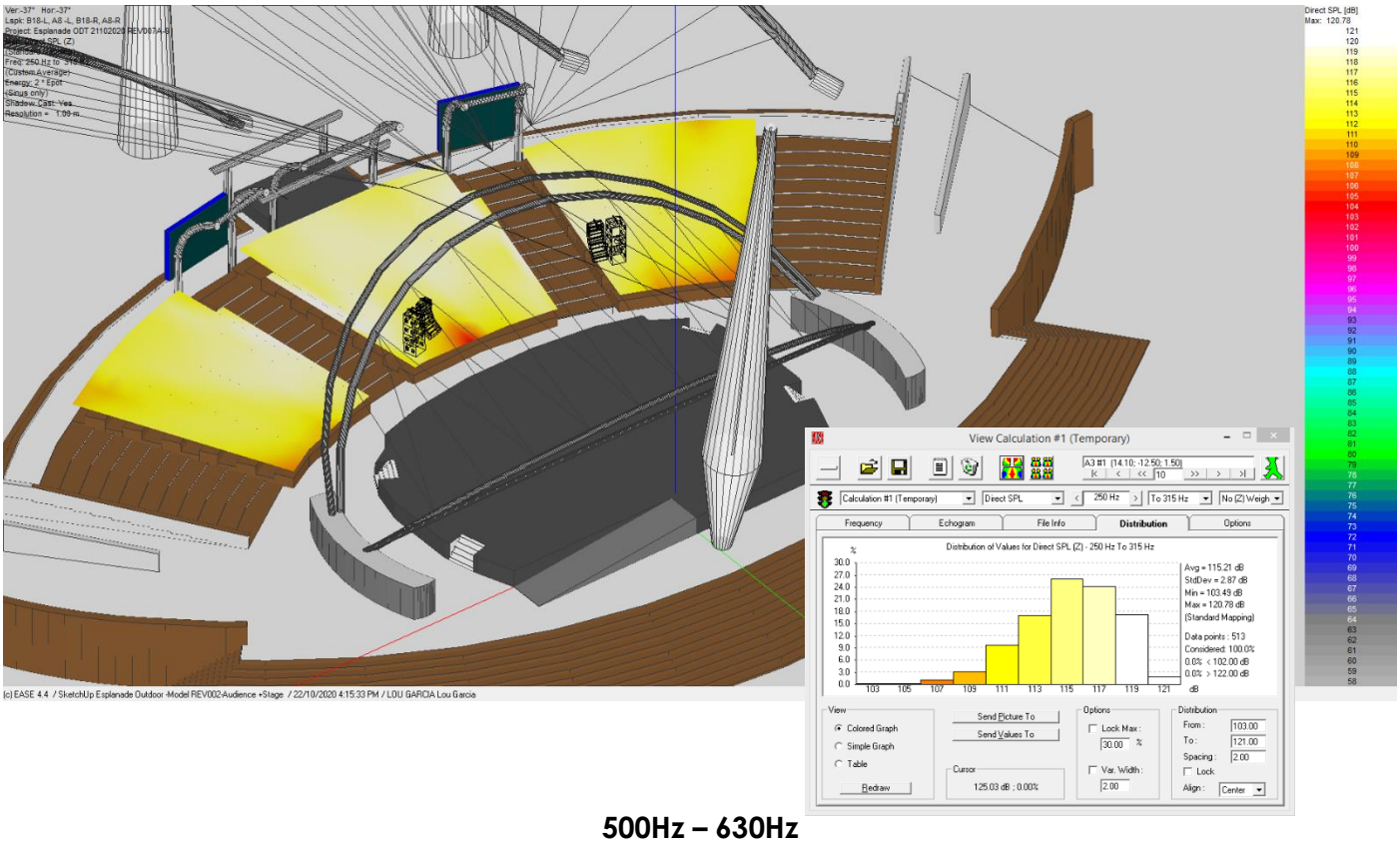
(Un-weighted; REF 005)



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.

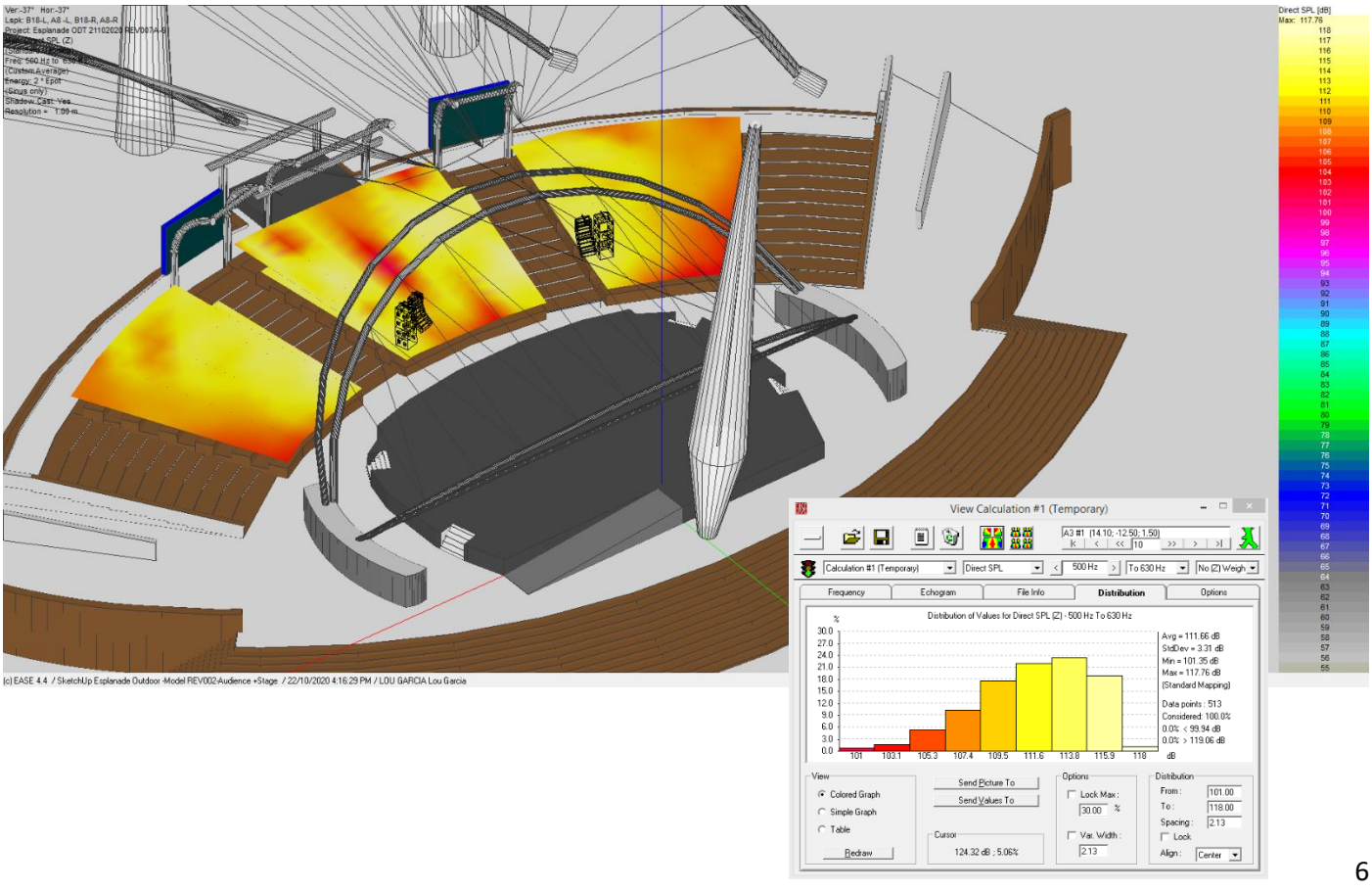
250Hz -315Hz

(Un-weighted; REF 006)



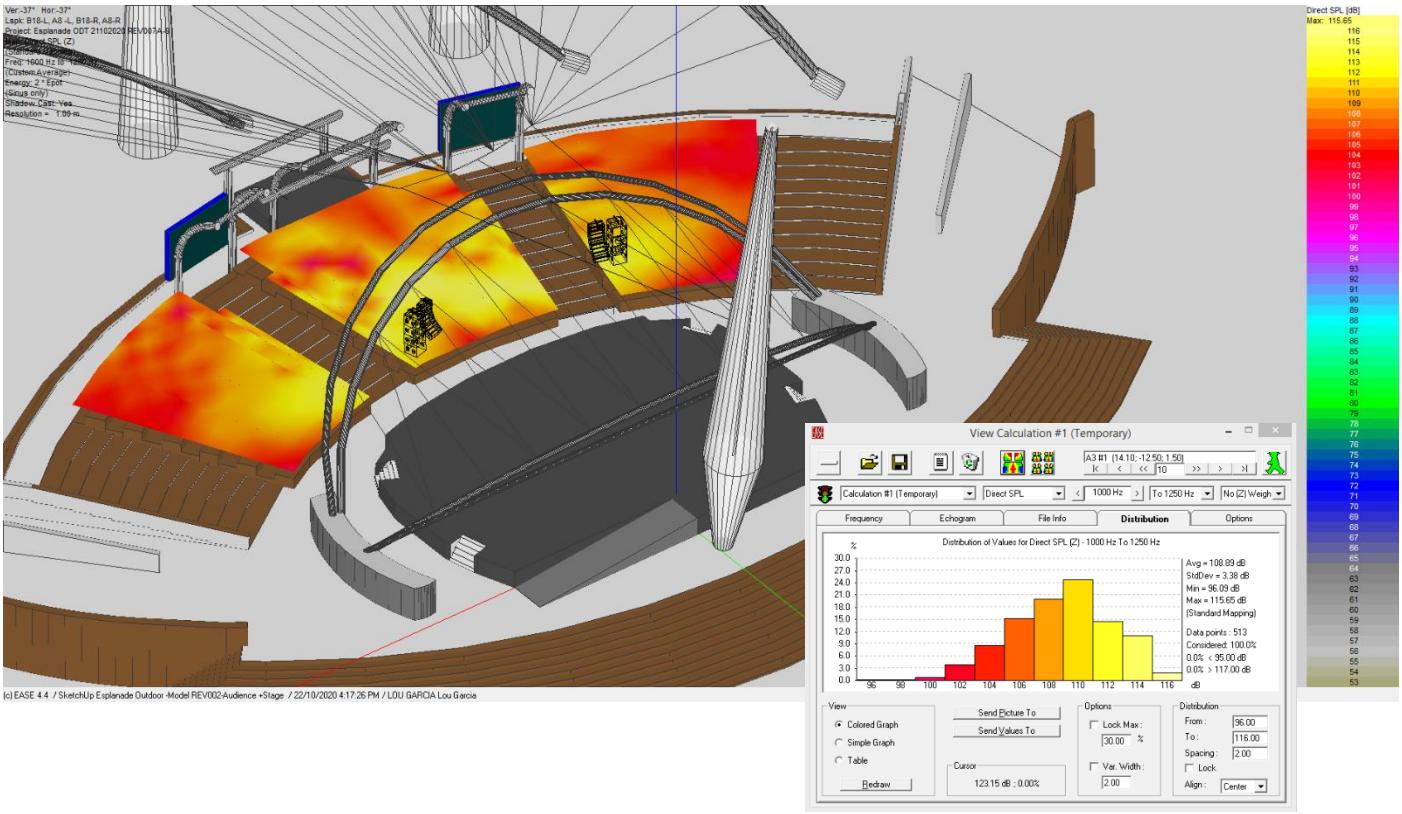
500Hz – 630Hz

(Un-weighted; REF 007)



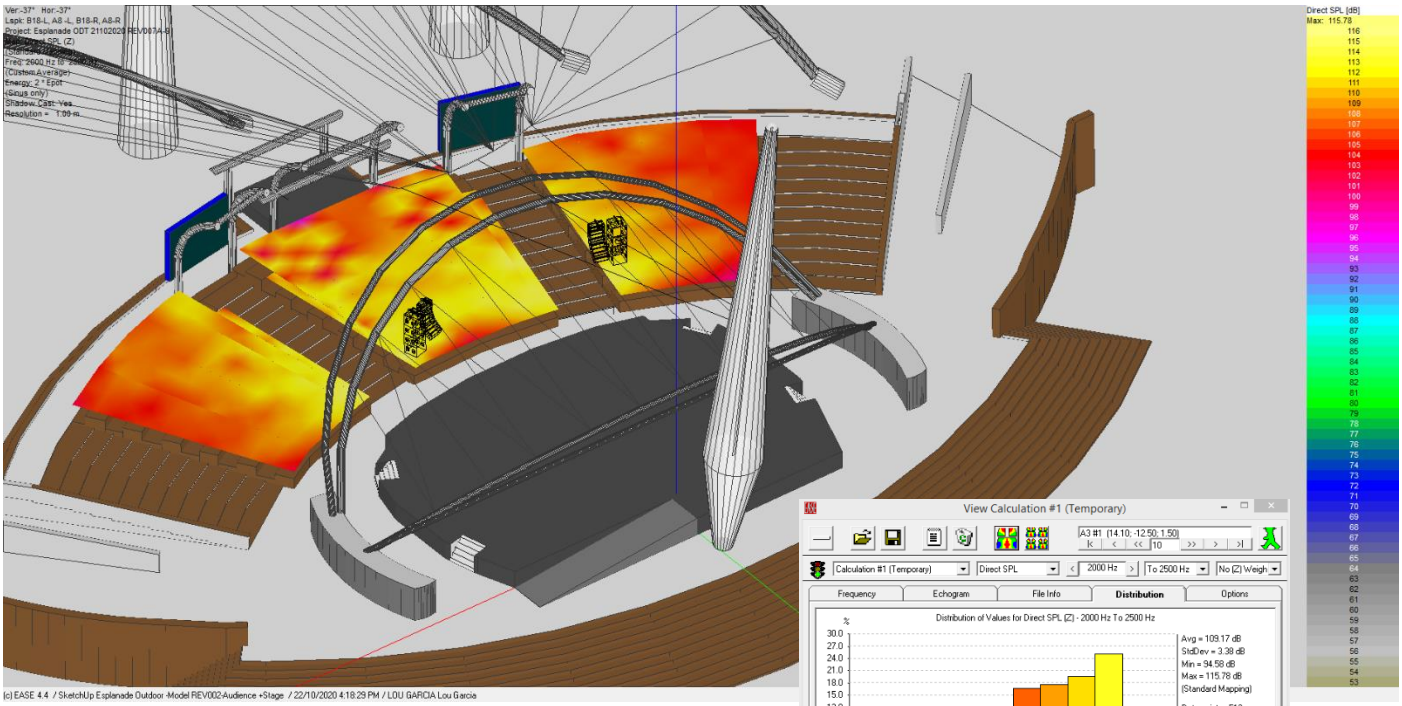
1000Hz – 1250Hz

(Un-weighted; REF 008)



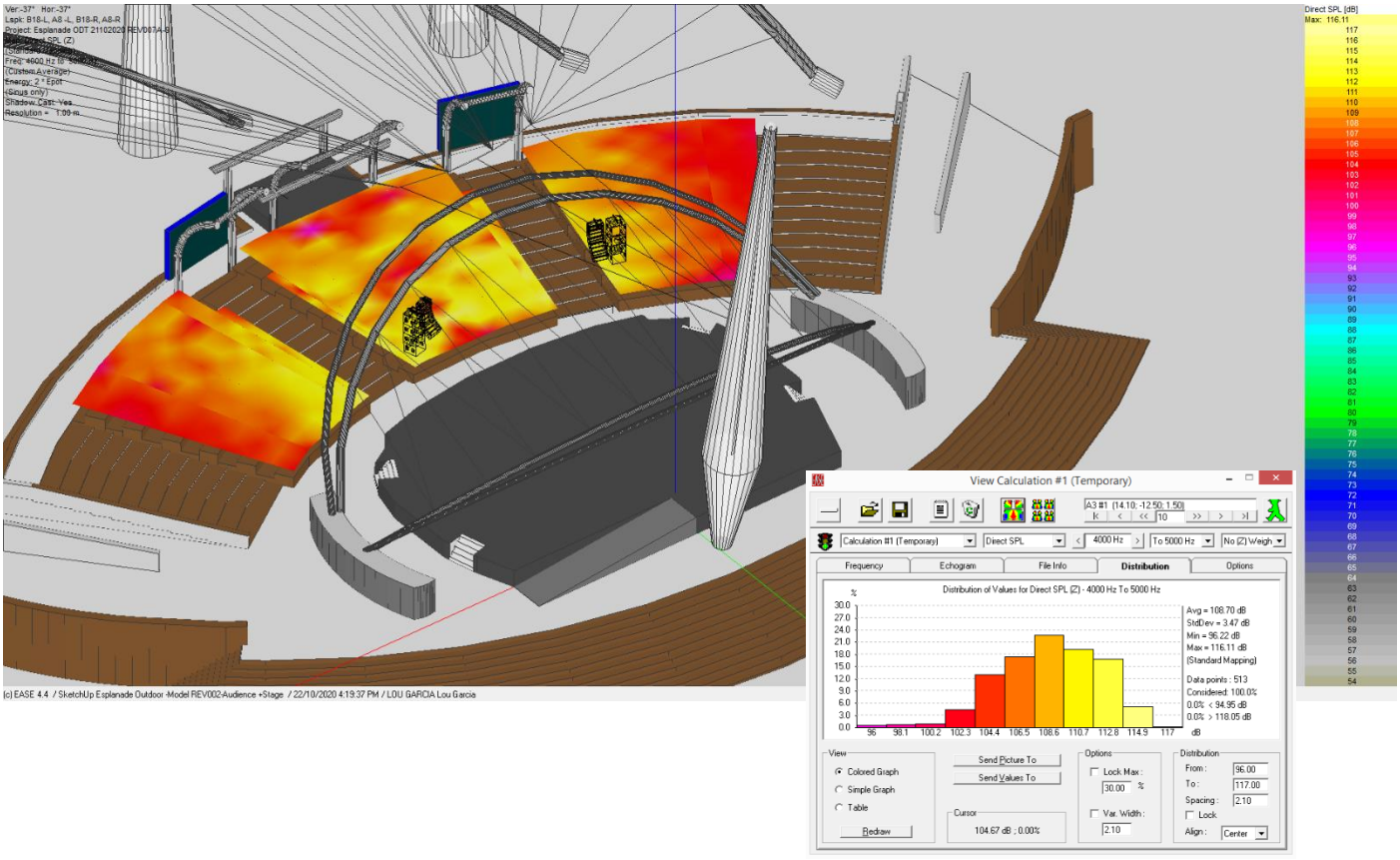
2000Hz – 2500Hz

(Un-weighted; REF 009)



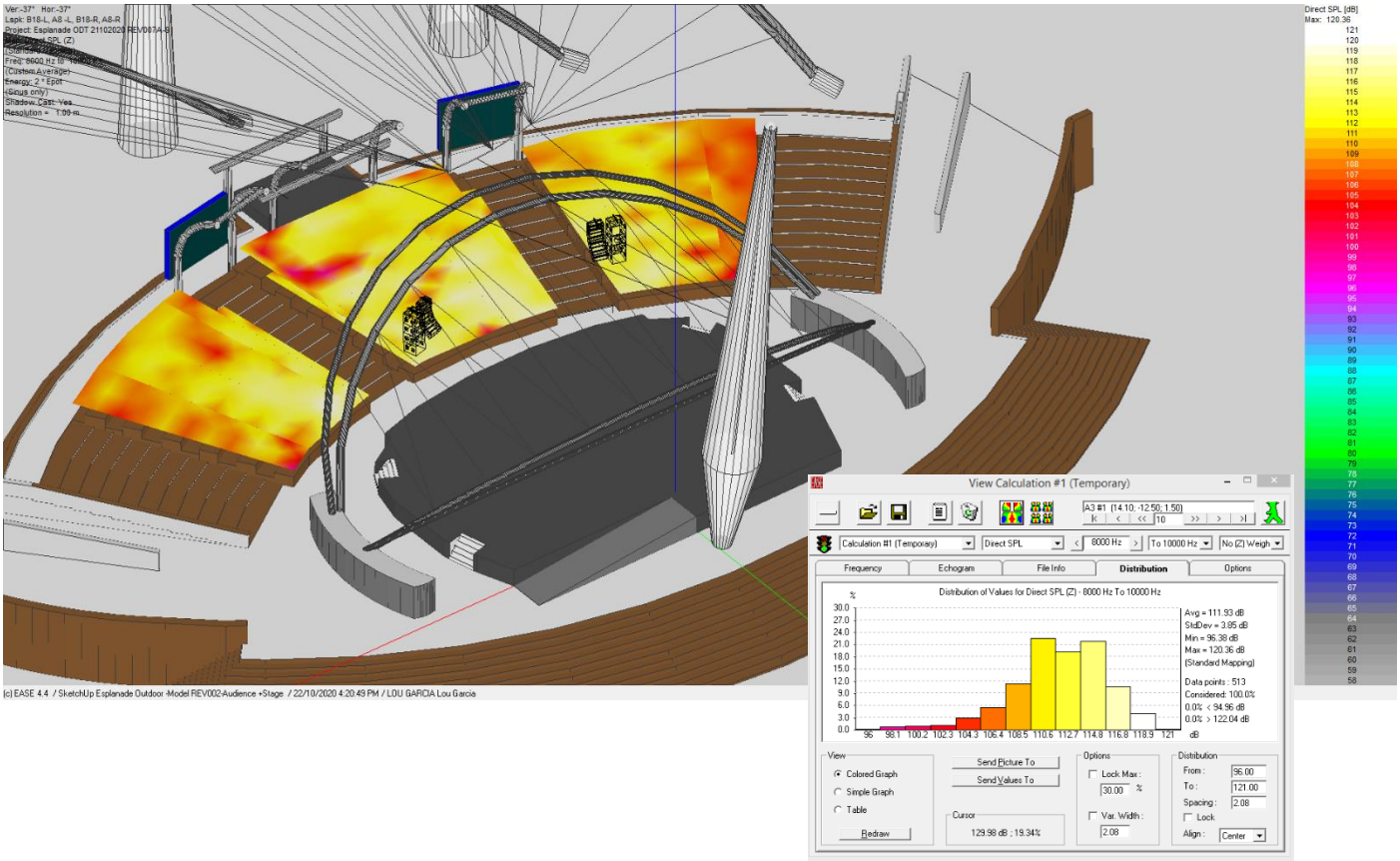
4000Hz – 5000Hz

(Un-weighted; REF 010)



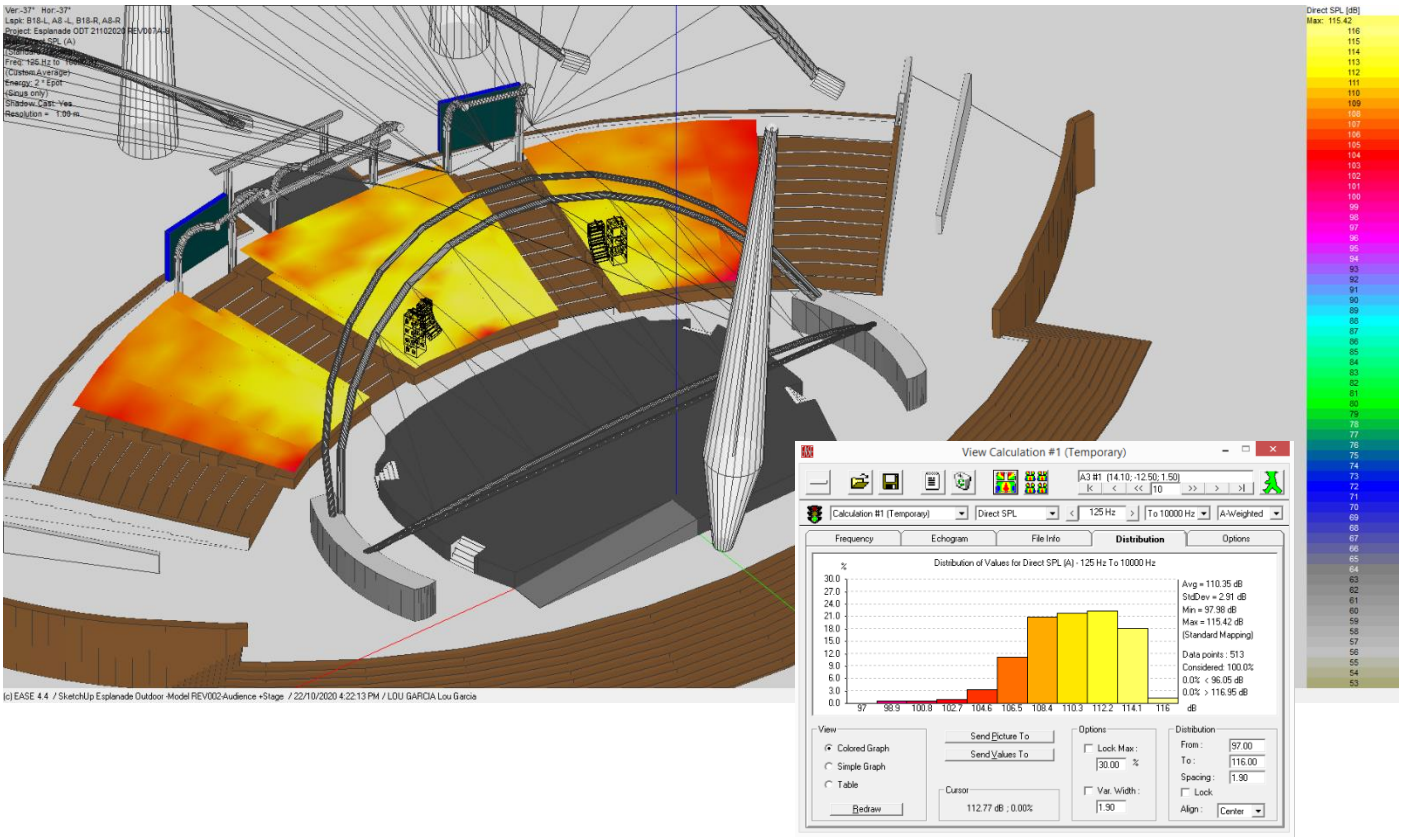
8000Hz – 10000Hz

(Un-weighted; REF 011)



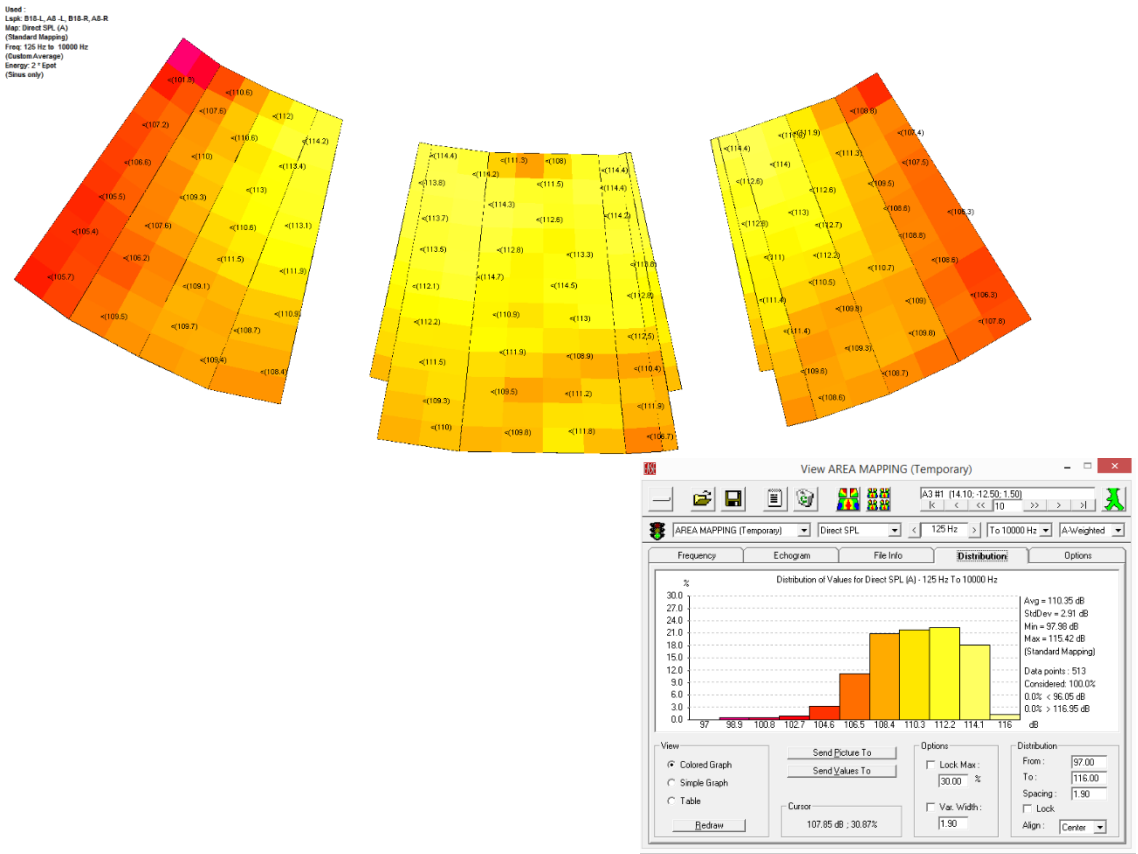
DIRECT dBA SPL (125Hz – 10000Hz)

(Broadband A-Weighted; REF 012)



AREA MAPPING DIRECT SPL (125Hz – 10000Hz) dBA

(Broadband A-Weighted; REF 013)



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