

NINE TAI STUDIO

聲學量測數據報告

2022_0325 版

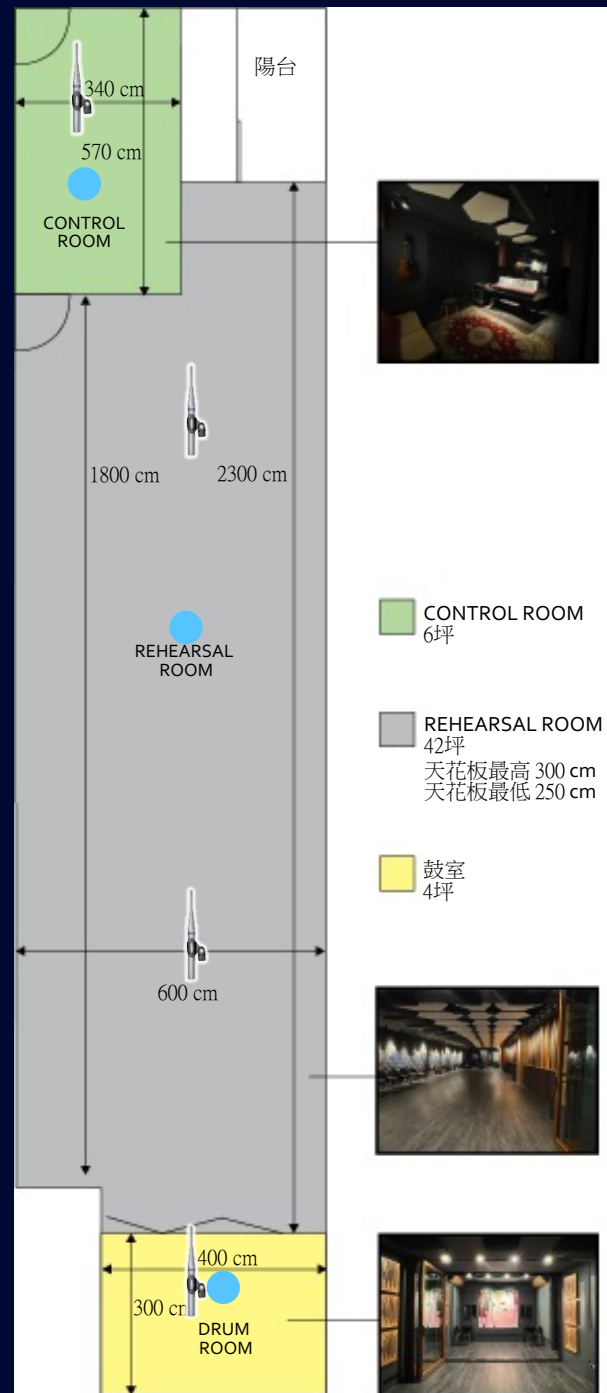
量測平面圖



量測Mic



音源





彩排室量測

量測位置與分析模式

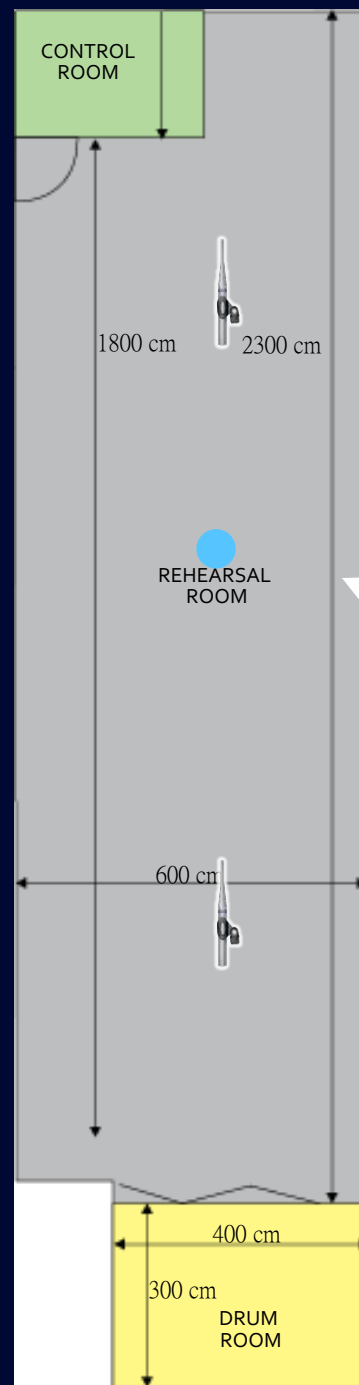


量測Mic



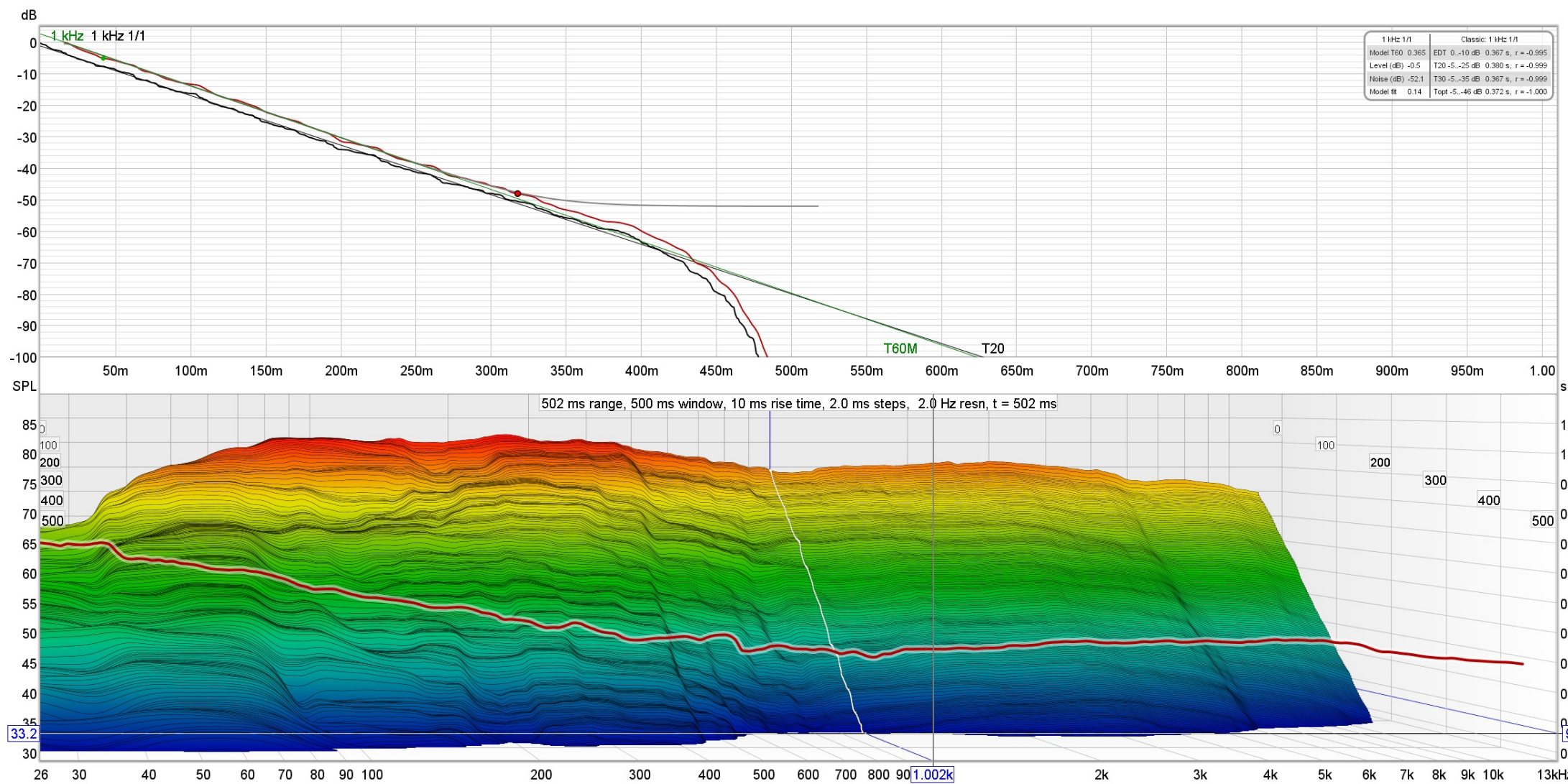
音源

- 以Room EQ Wizard來執行
- 彩排室前後區（靠鼓室為前區）中央各設立量測點
- 以可變式吸音/擴散板之全吸音、全擴散，以及鼓室打開、關閉兩種，區分成四種使用模式
- 前後分區量測數據以Vector Average方式進行平均化，來分析各使用模式平均數據
- 如果REW分析RT各曲線（如T20、T30等）時，其資料信賴度偏低，則不將該曲線列入



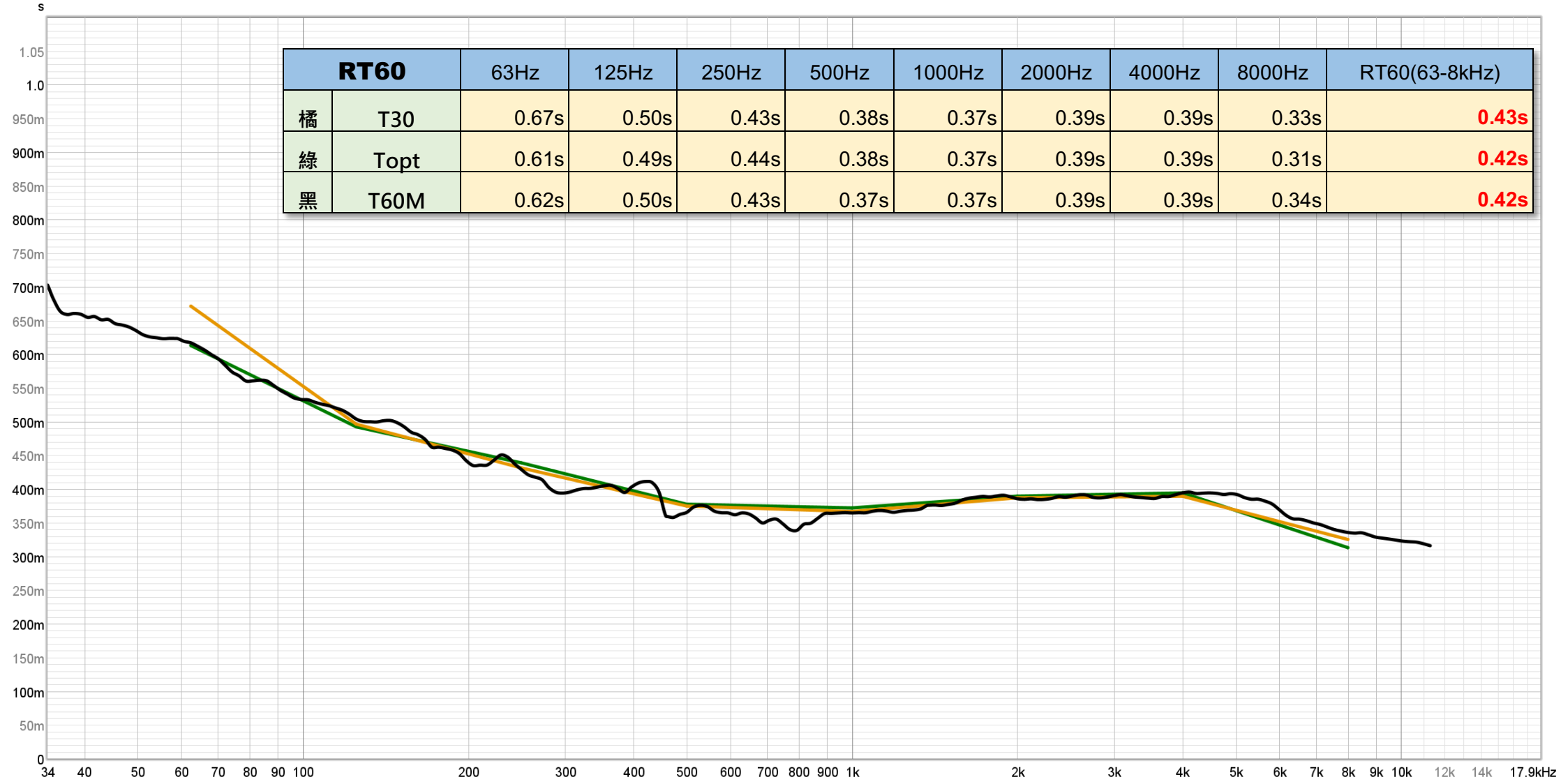
吸音 / 擴散板

彩排室、鼓室開、全擴散模式 – T60M曲線

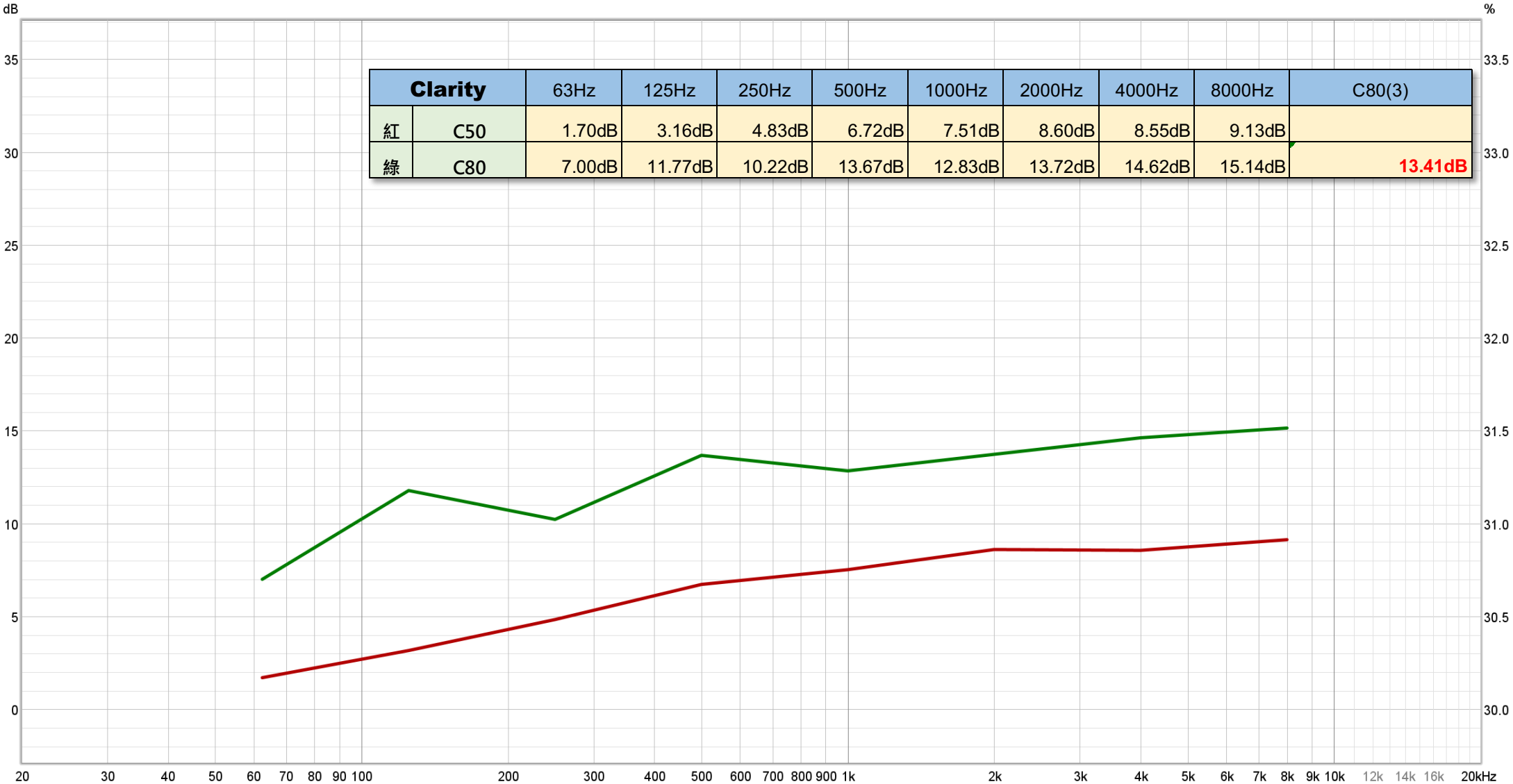


以STFT Short
Time Fourier
Transform
推算RT60
模型

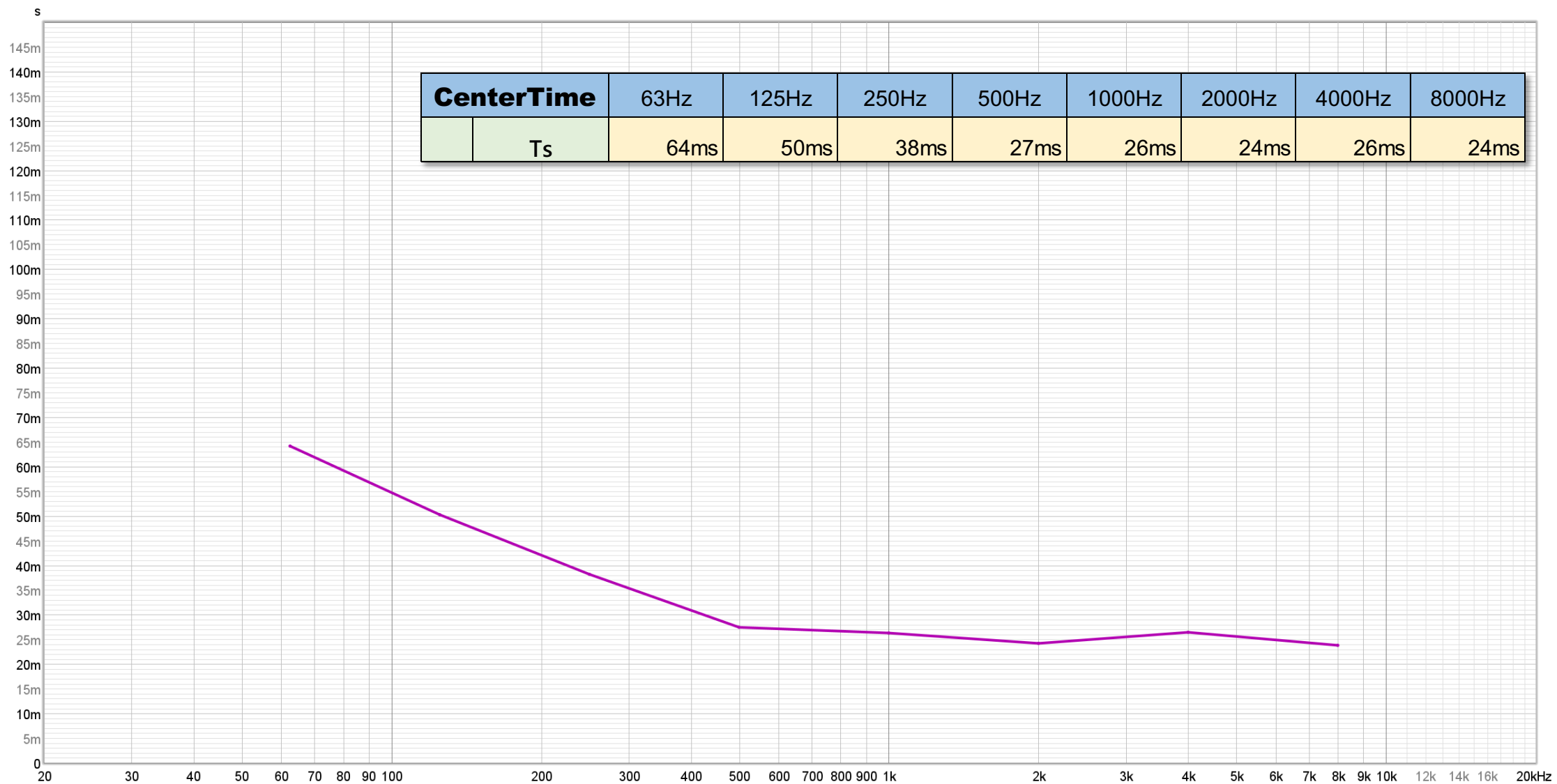
彩排室、鼓室開、全擴散模式 – RT60曲線



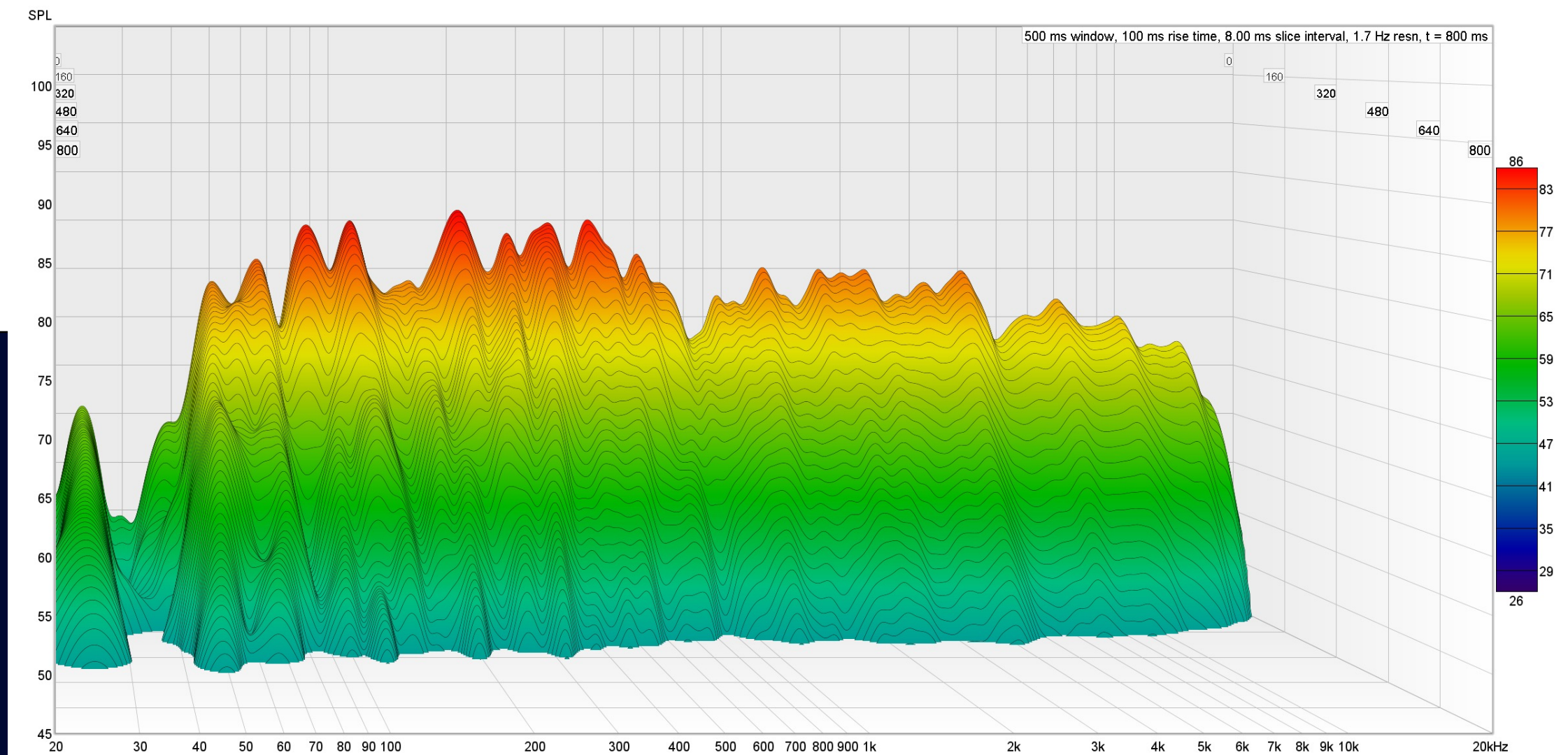
彩排室、鼓室開、全擴散模式－清晰度曲線



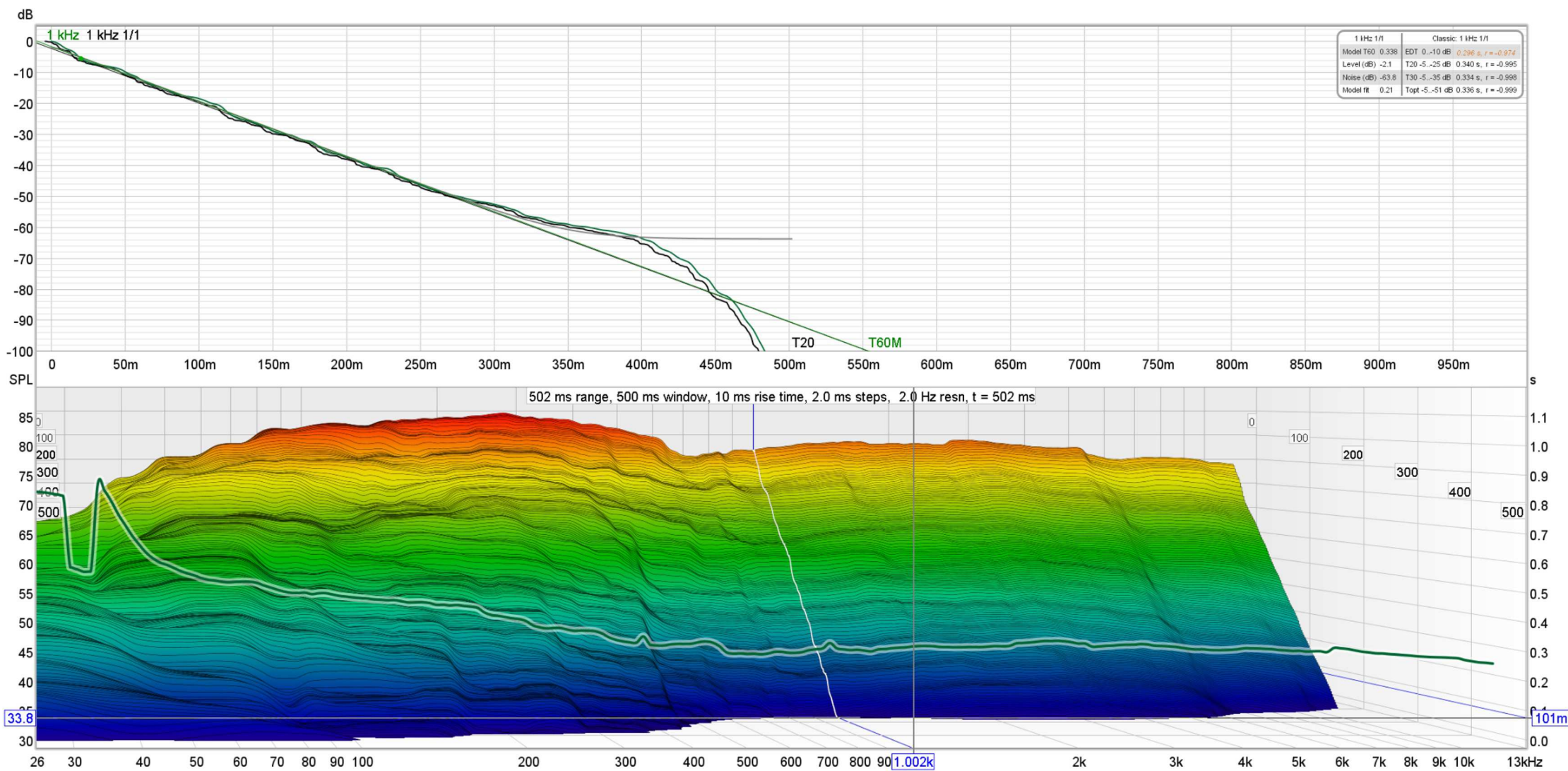
彩排室、鼓室開、全擴散模式 – Center Time



彩排室、鼓室開、全擴散模式 – WaterFall曲線

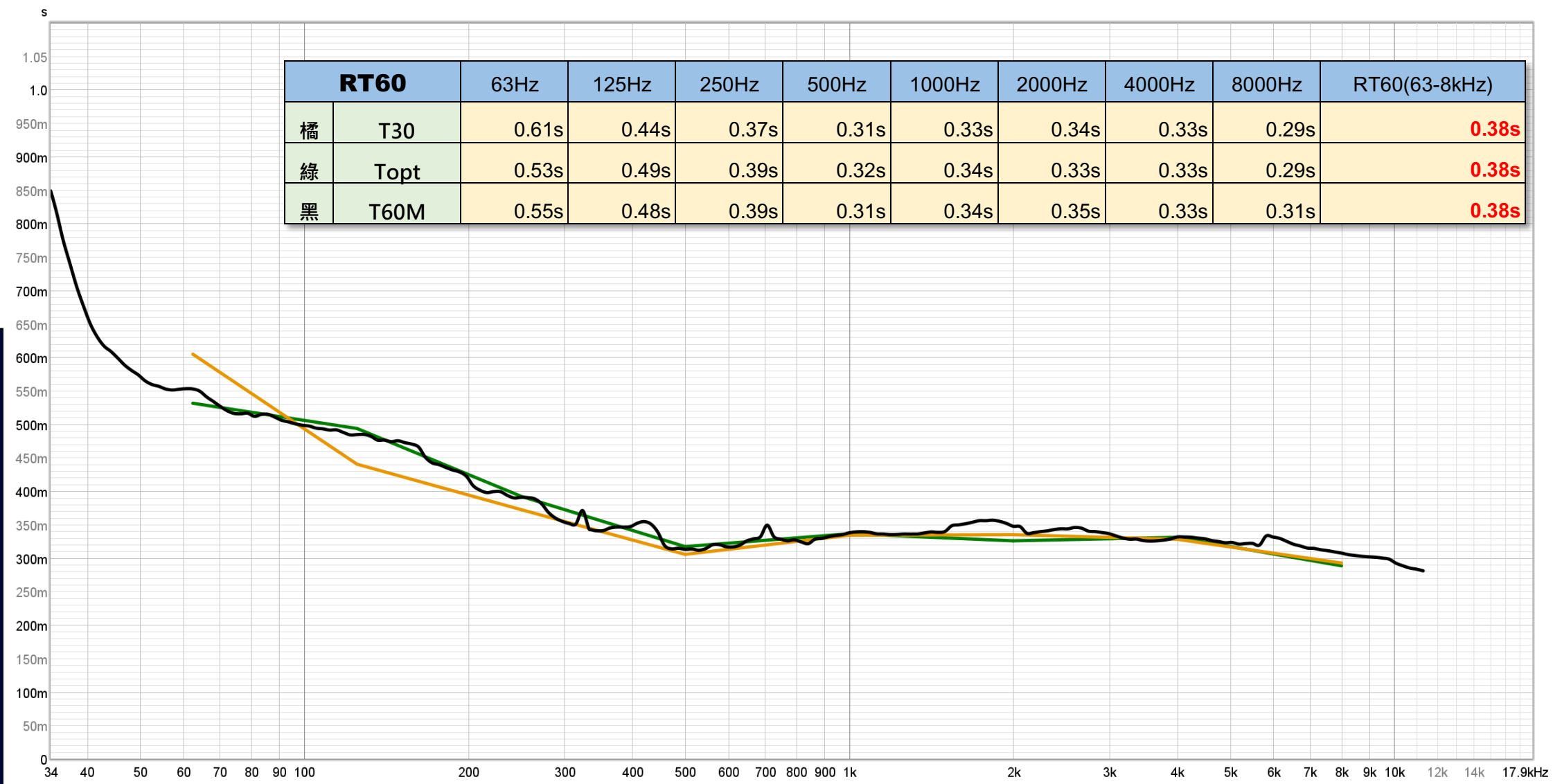


彩排室、鼓室開、全吸音模式 – T60M曲線

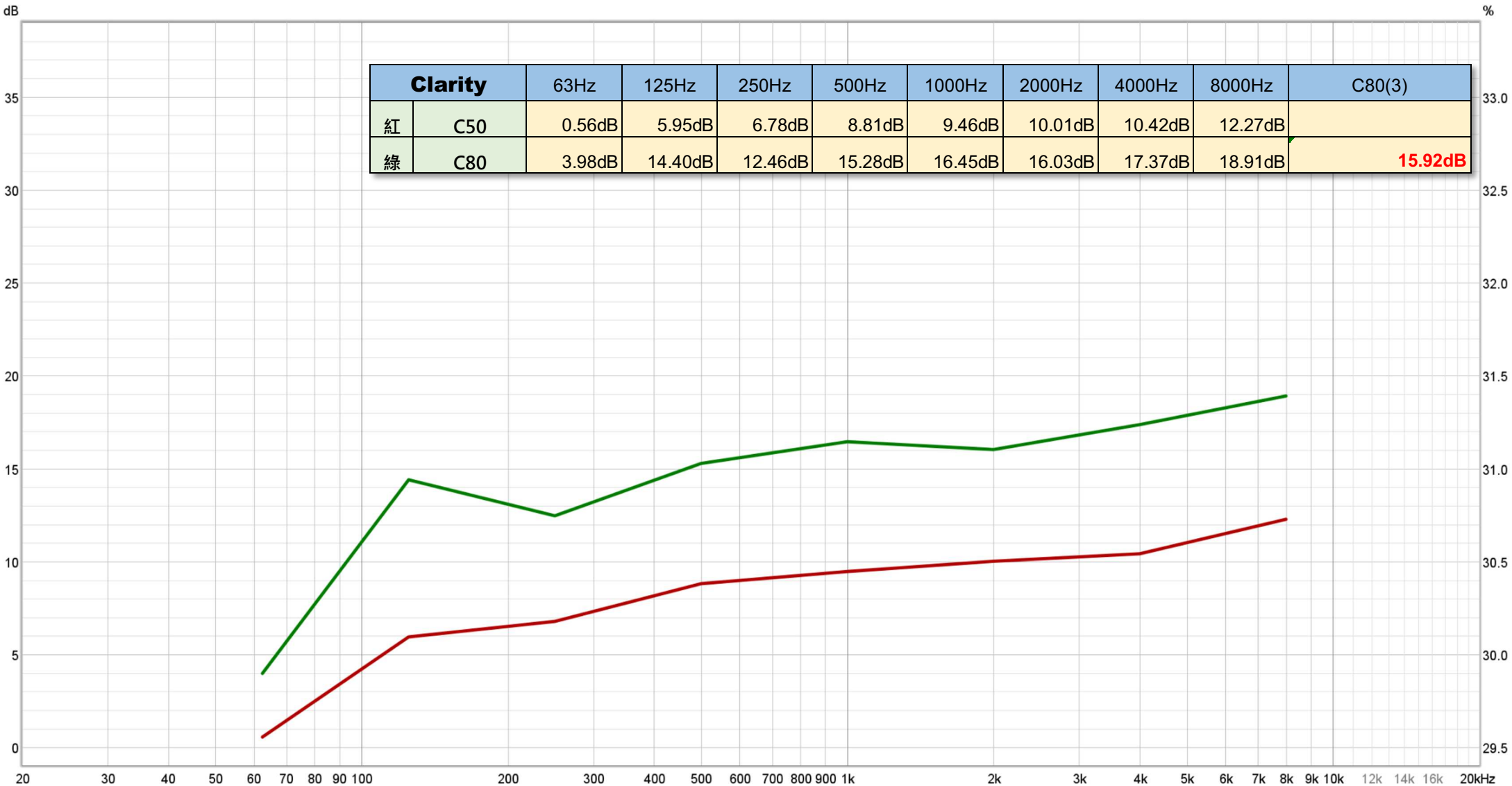


以STFT Short Time Fourier Transform 推算RT60 模型

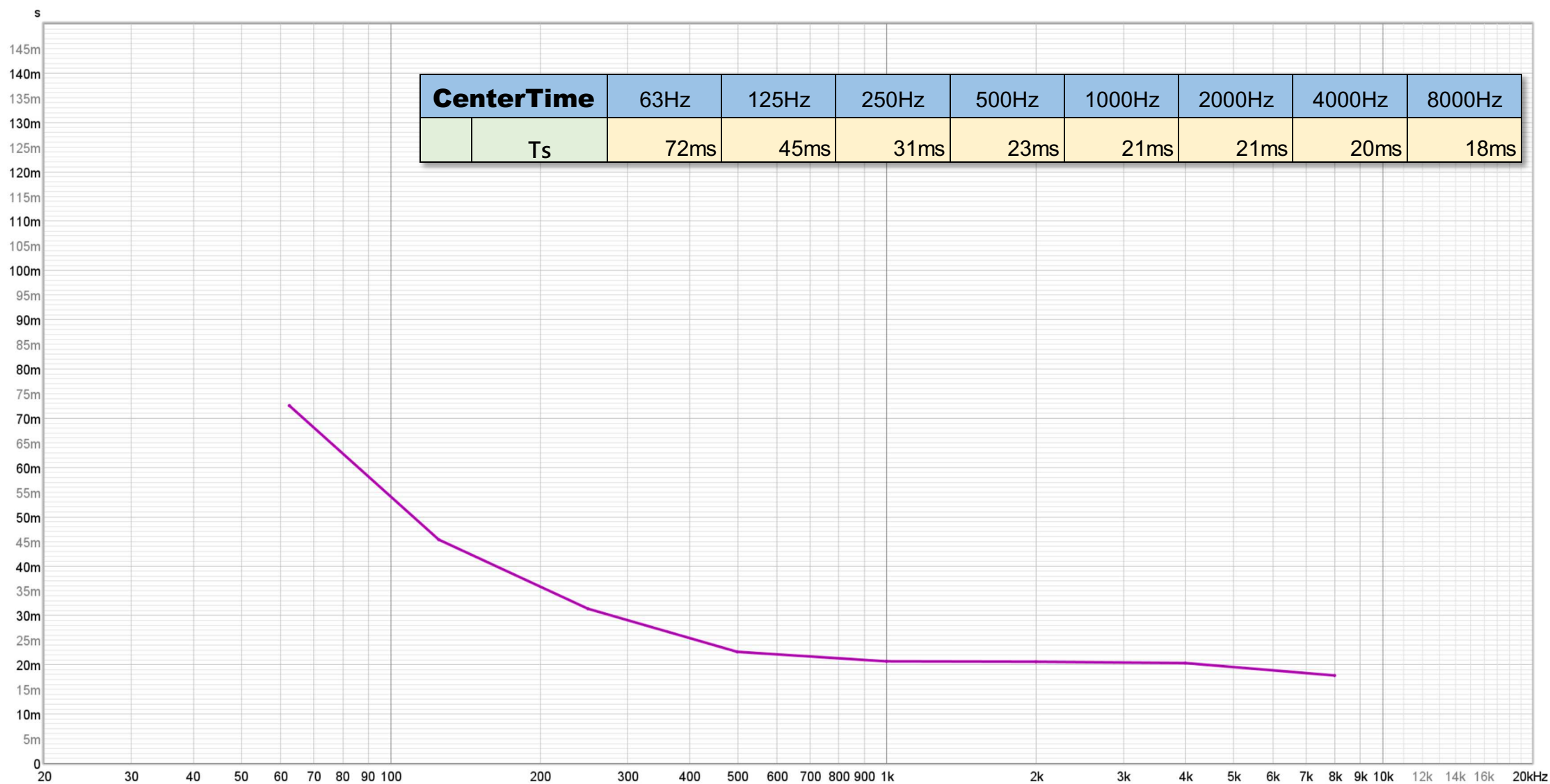
彩排室、鼓室開、全吸音模式 – RT60曲線



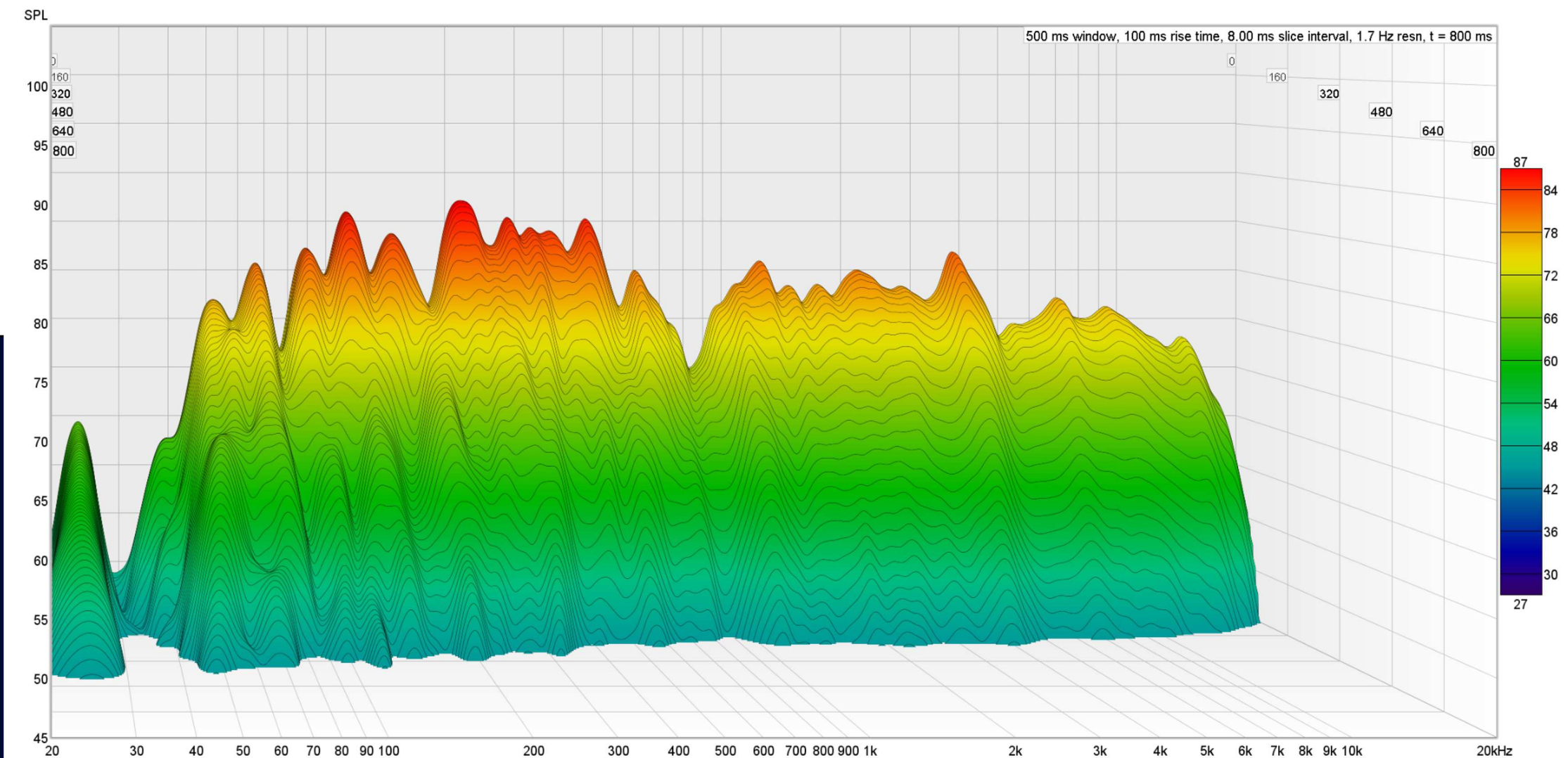
彩排室、鼓室開、全吸音模式-清晰度曲線



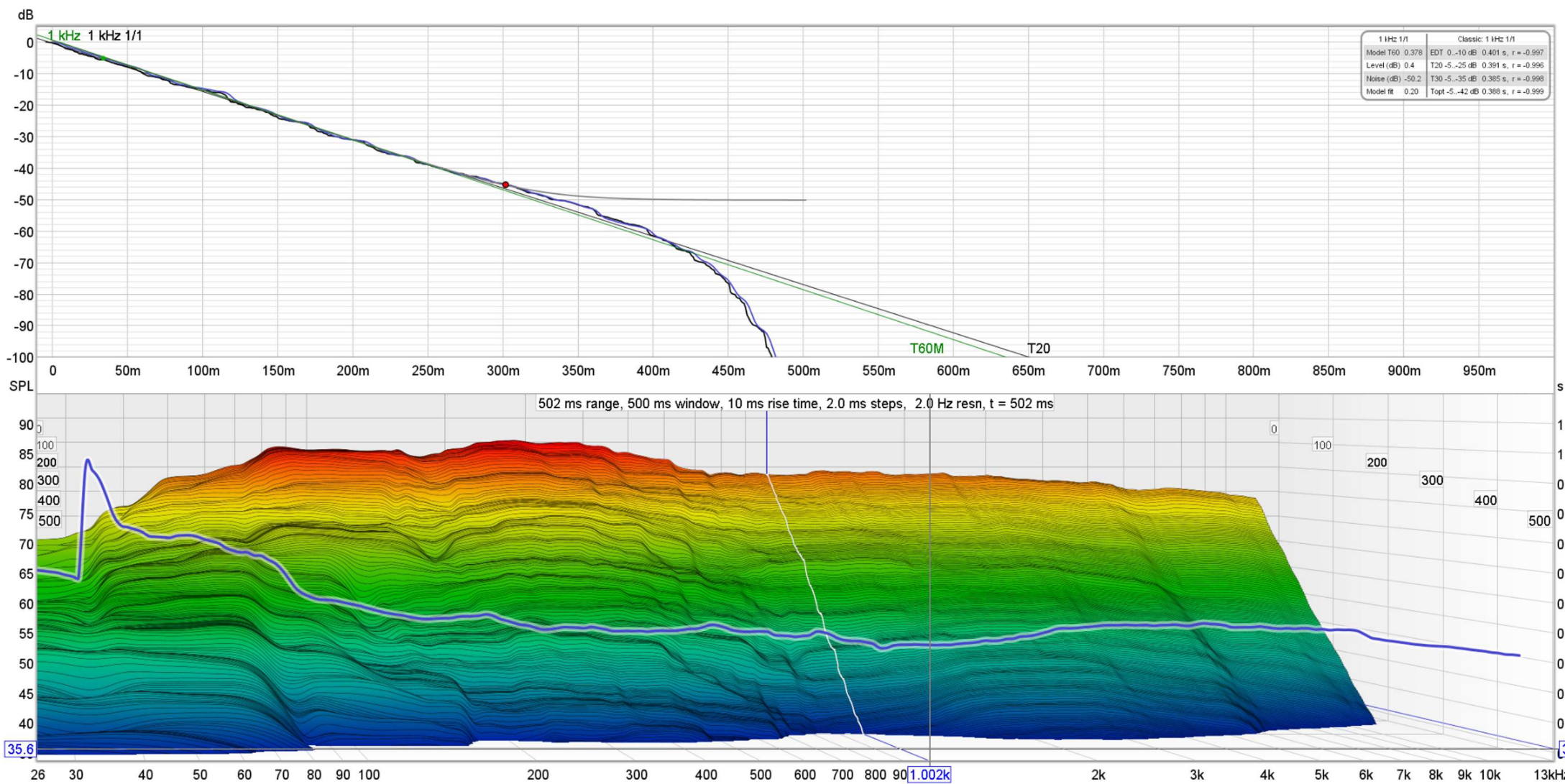
彩排室、鼓室開、全吸音模式 – Center Time



彩排室、鼓室開、全吸音模式 – WaterFall曲線

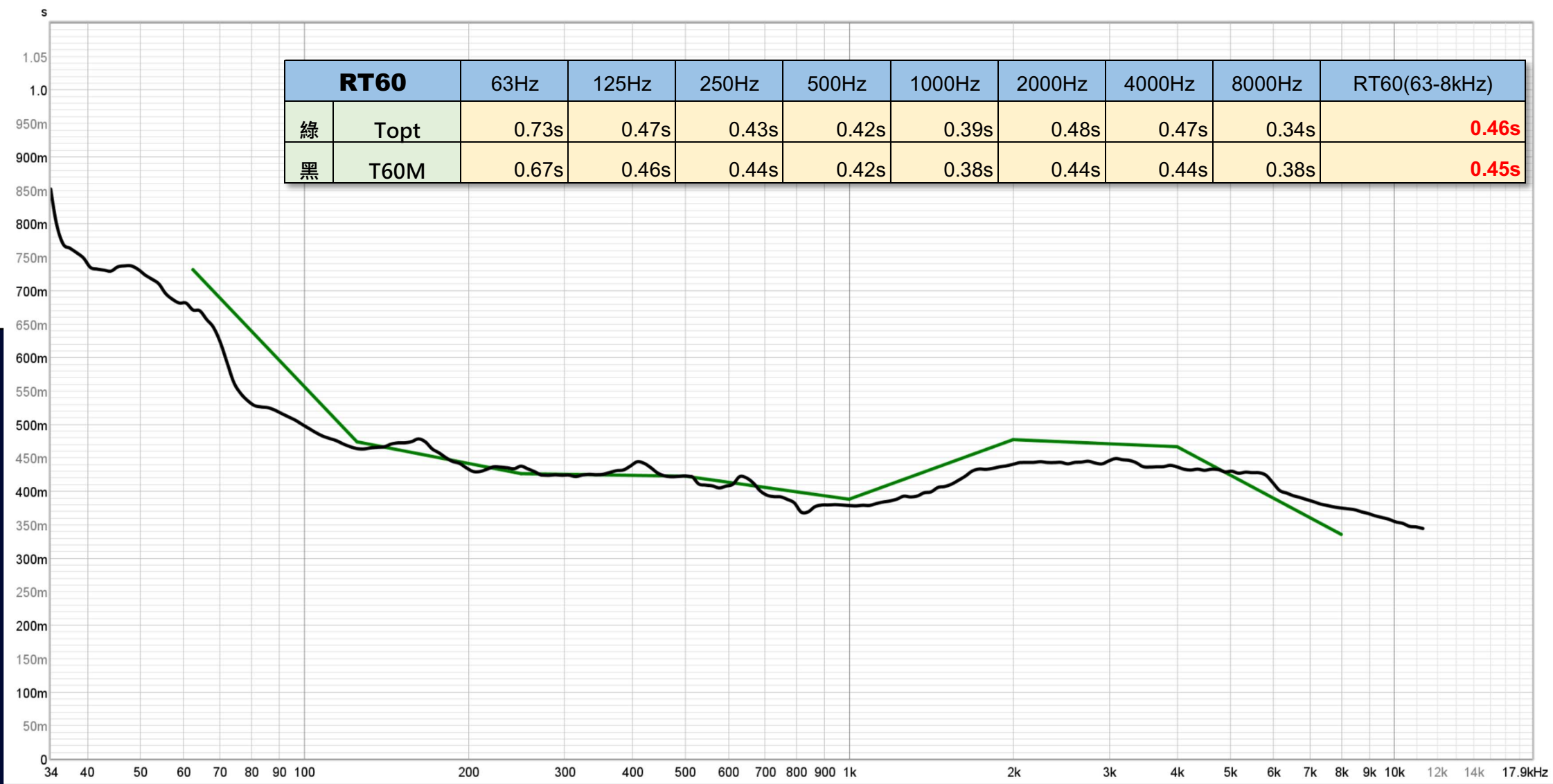


彩排室、鼓室關、全擴散模式 – T60M曲線

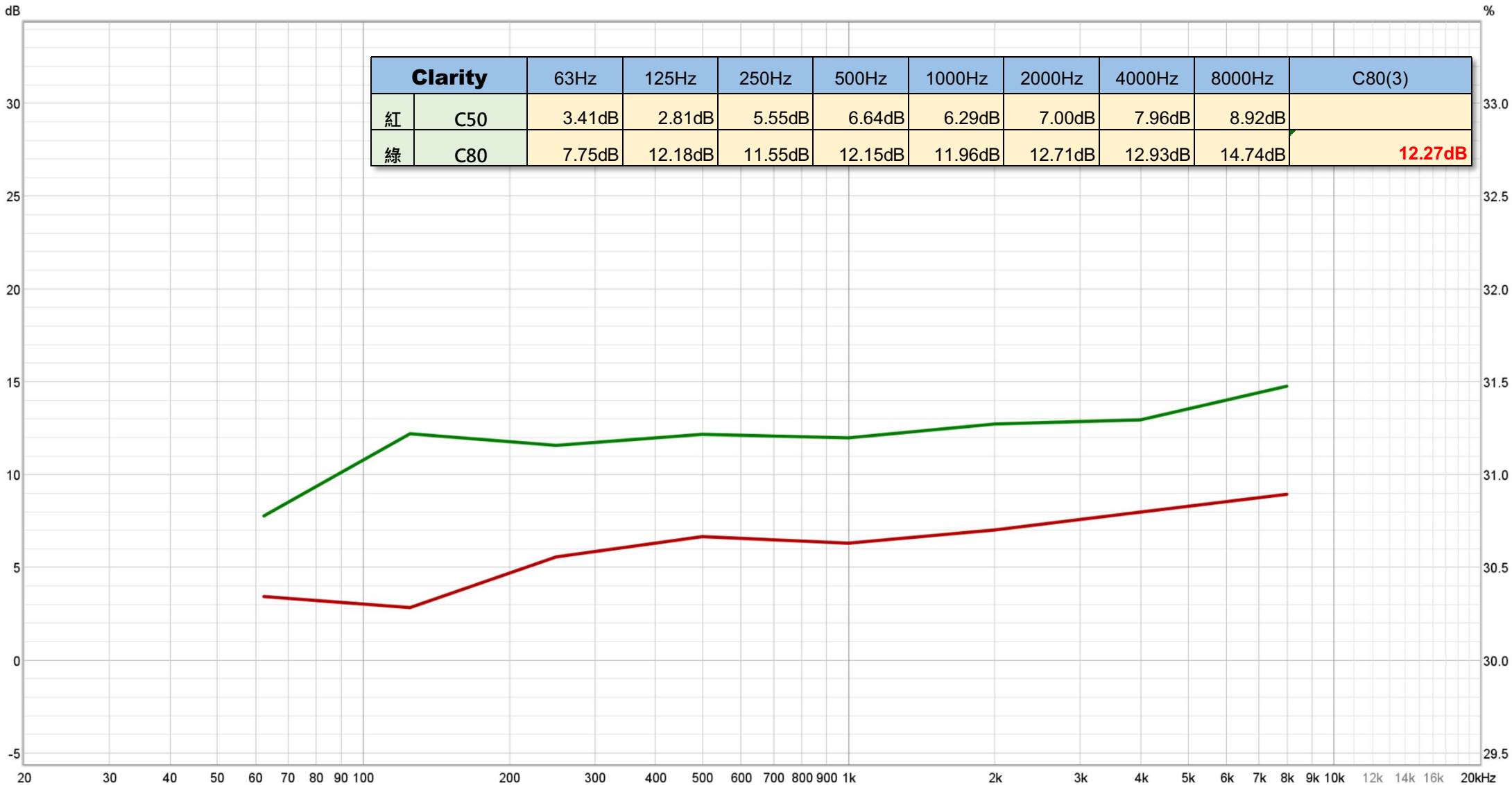


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模型

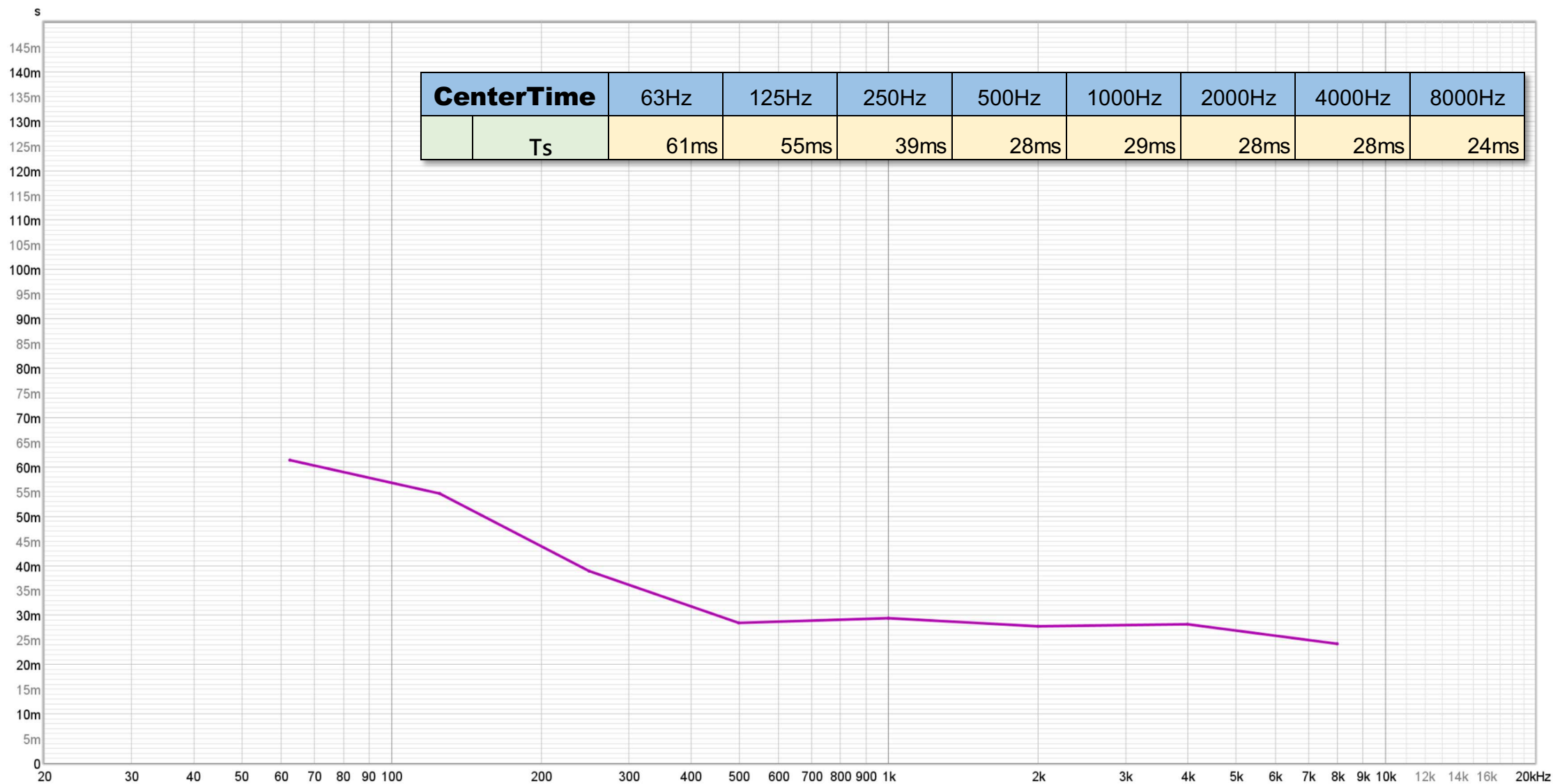
彩排室、鼓室關、全擴散模式 – RT60曲線



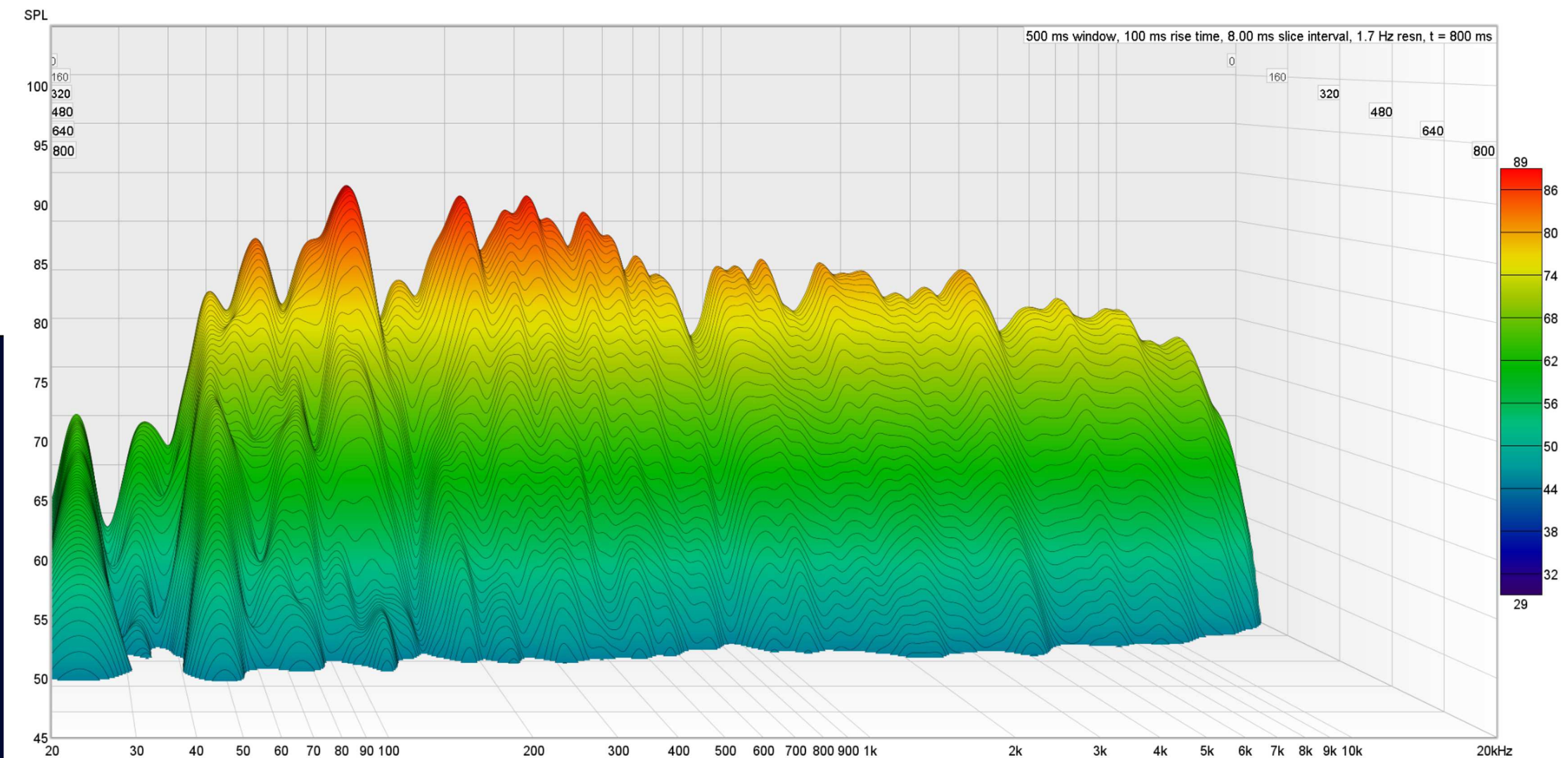
彩排室、鼓室關、全擴散模式－清晰度曲線



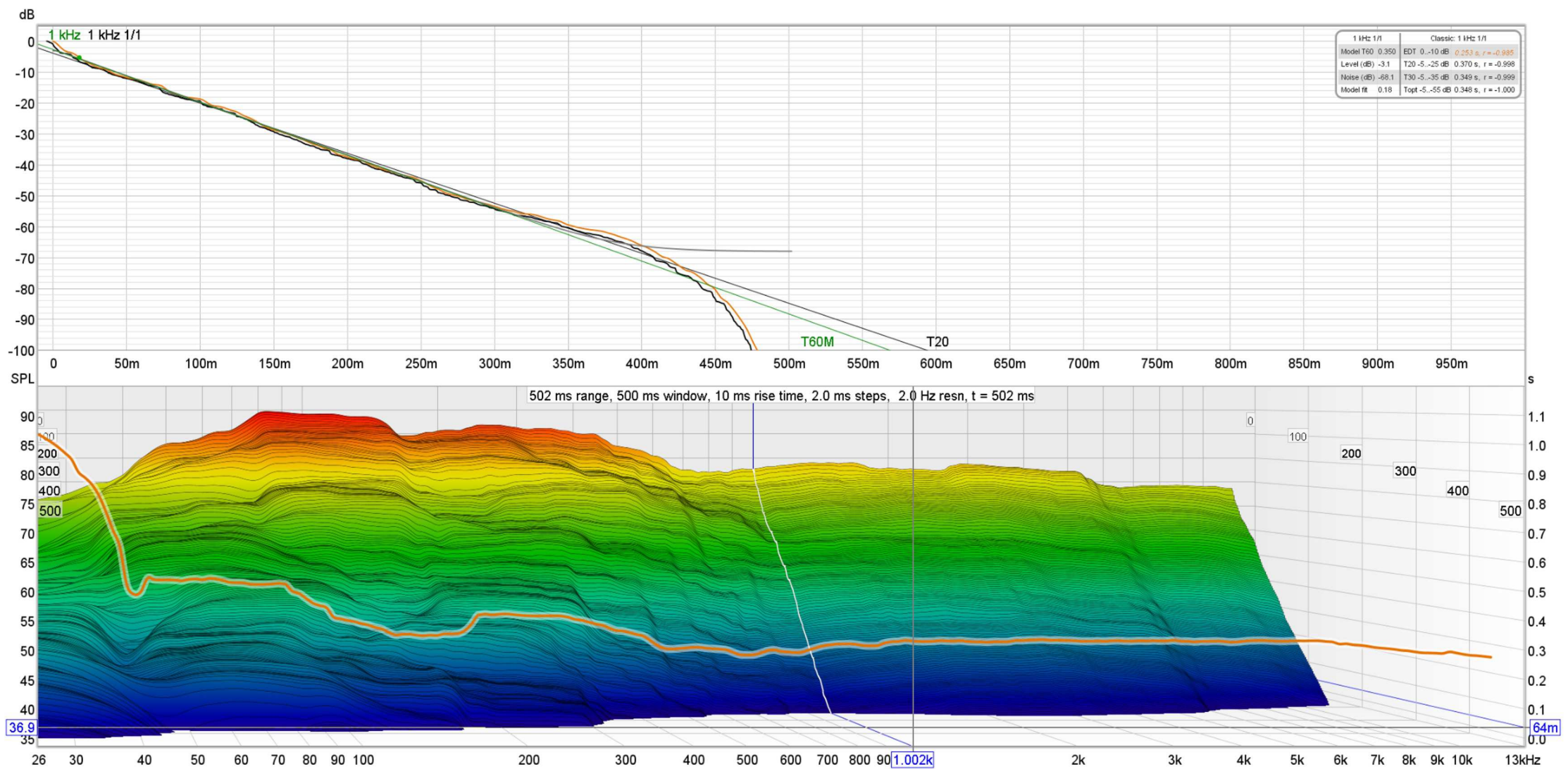
彩排室、鼓室關、全擴散模式 – Center Time



彩排室、鼓室關、全擴散模式 – WaterFall曲線

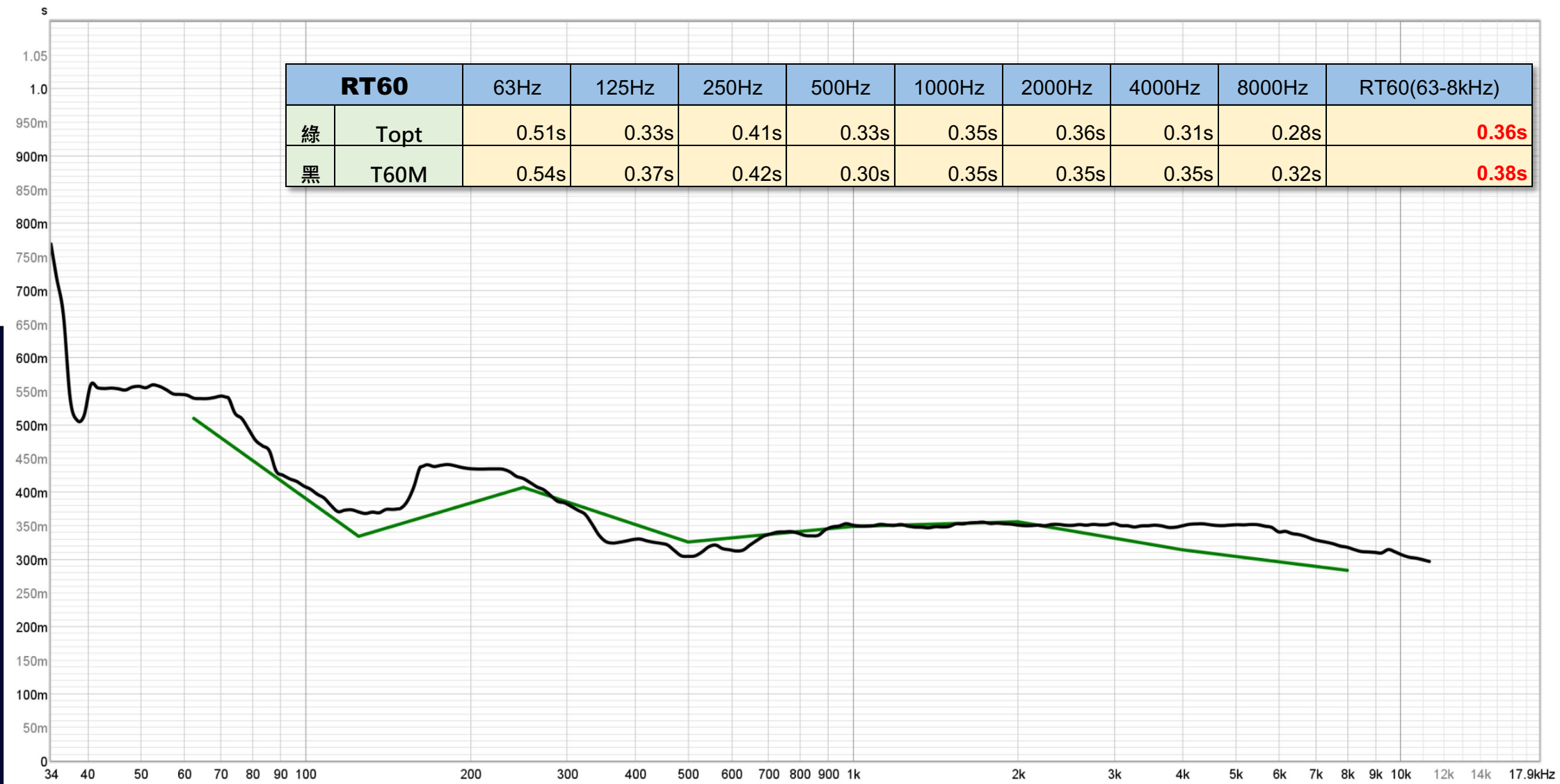


彩排室、鼓室關、全吸音模式 – T60M曲線

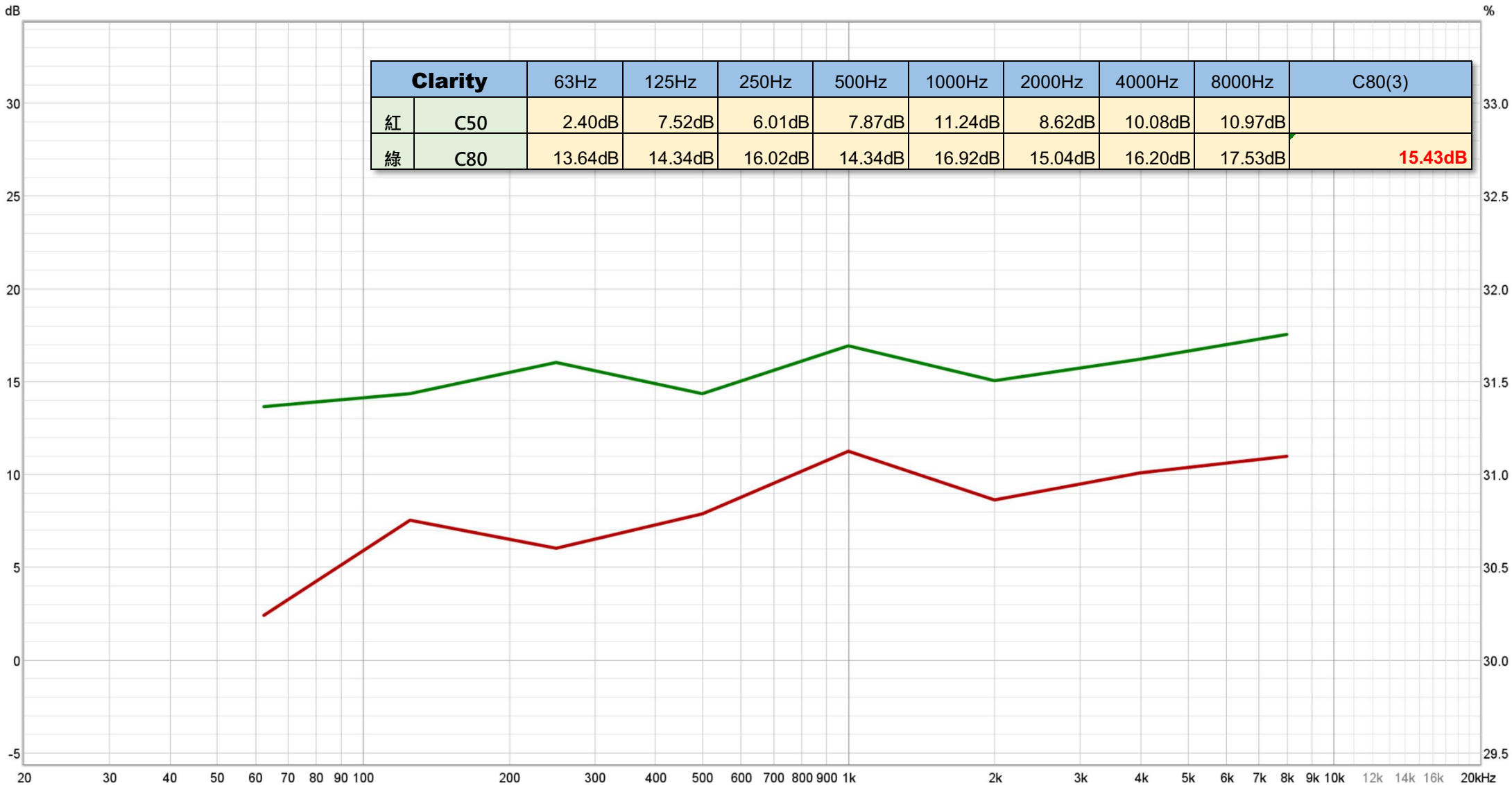


以STFT Short Time Fourier Transform 推算RT60 模型

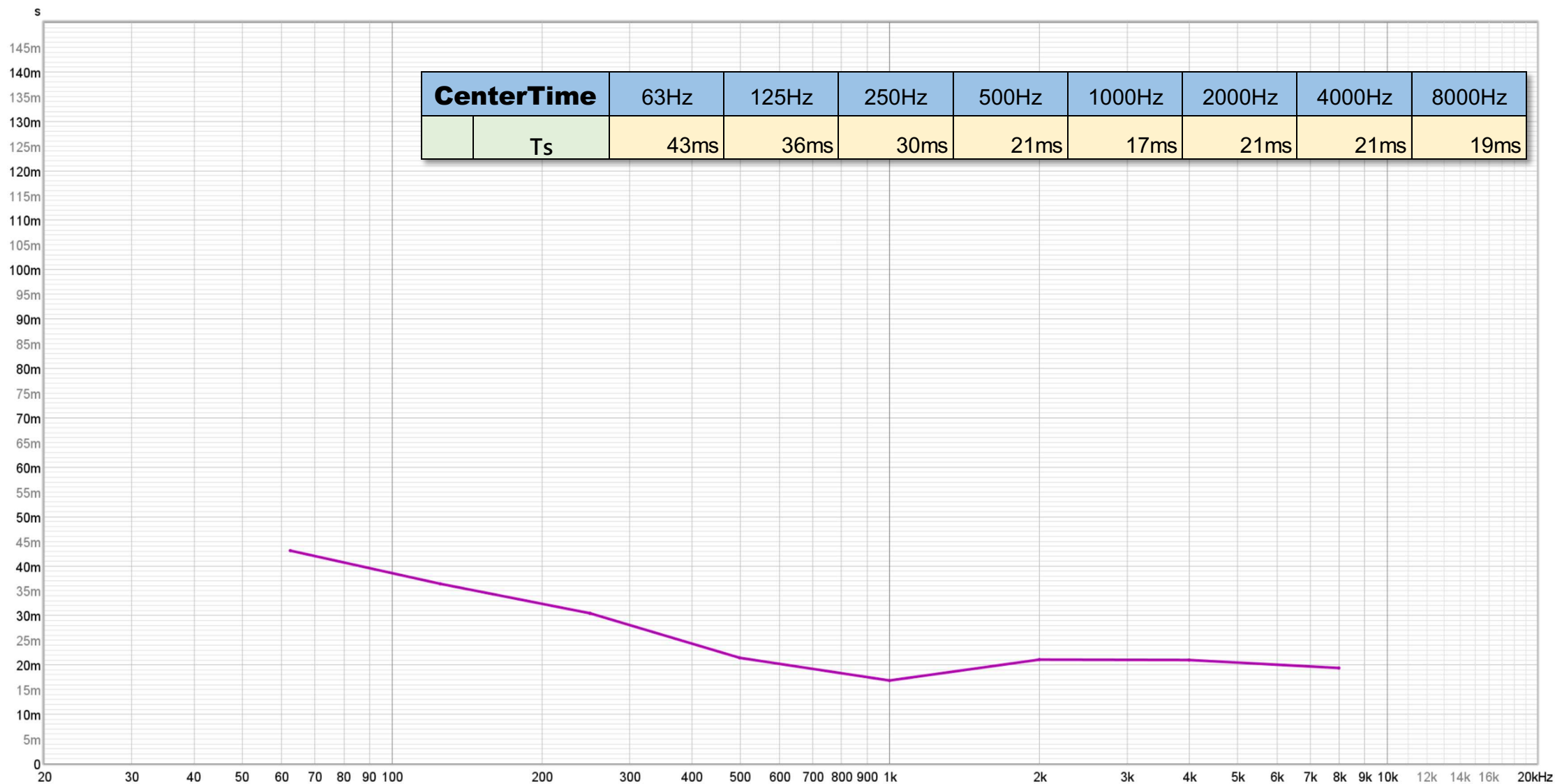
彩排室、鼓室關、全吸音模式 – RT60曲線



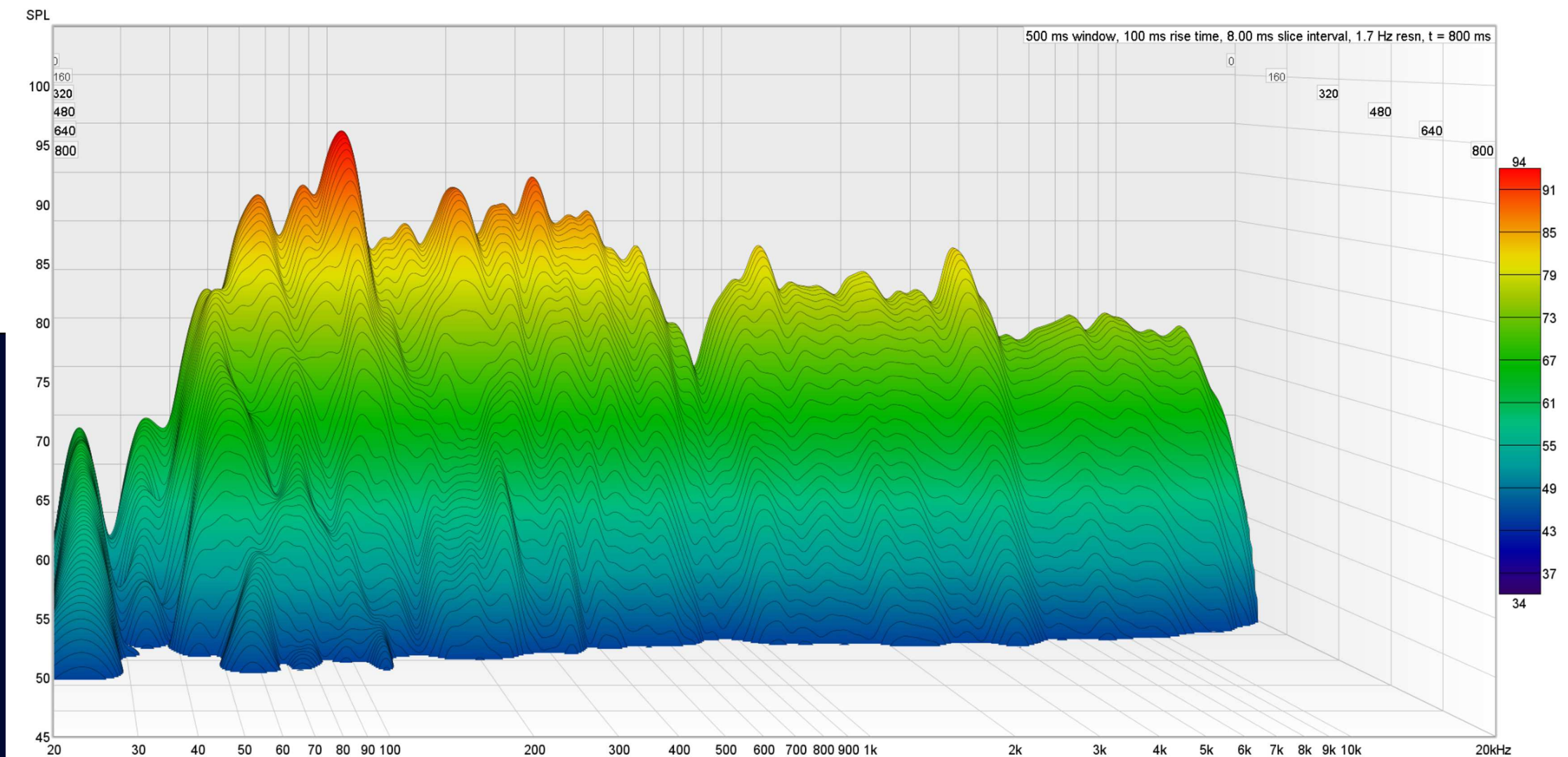
彩排室、鼓室關、全吸音模式 - 清晰度曲線



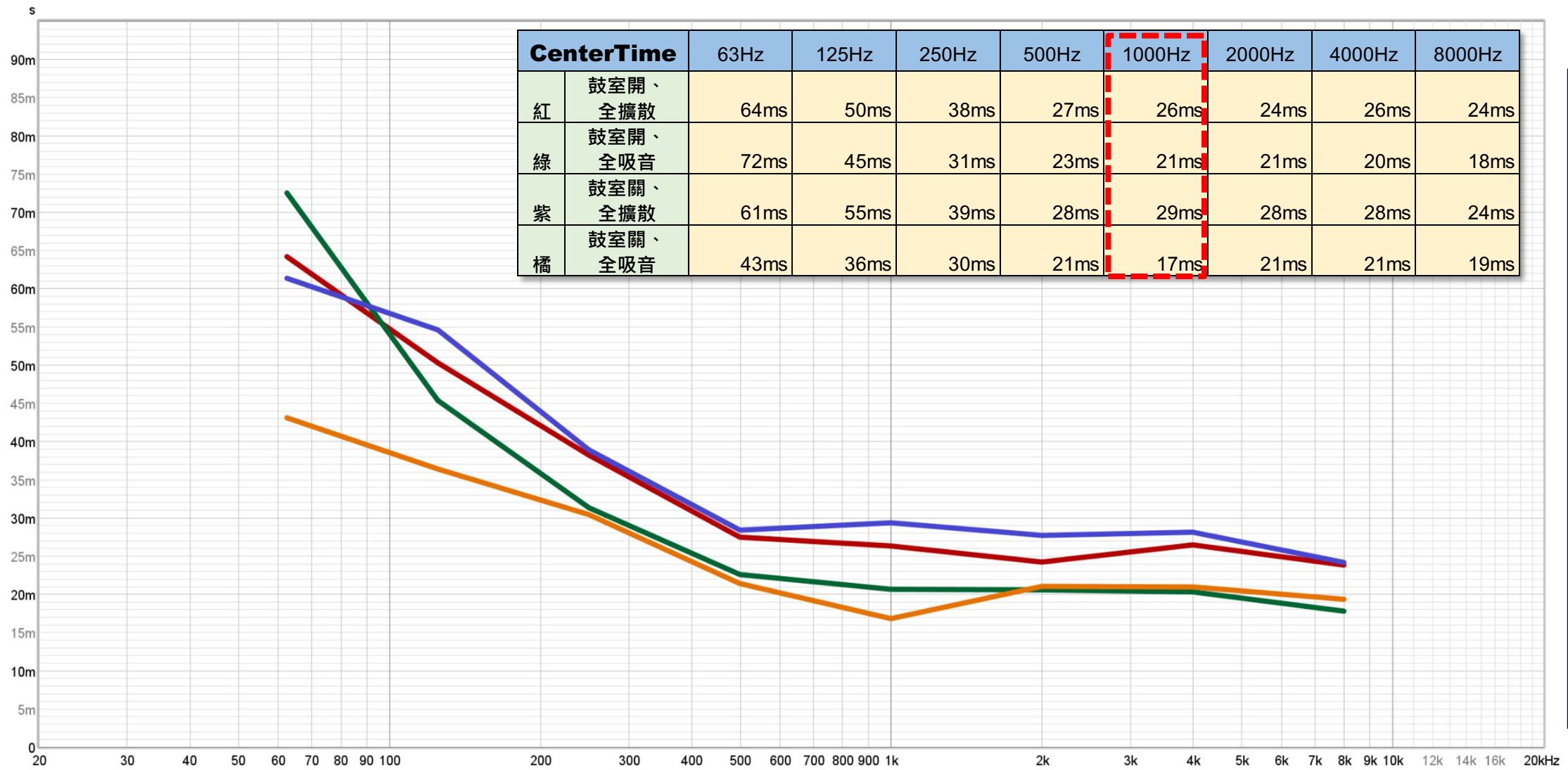
彩排室、鼓室關、全吸音模式 – Center Time



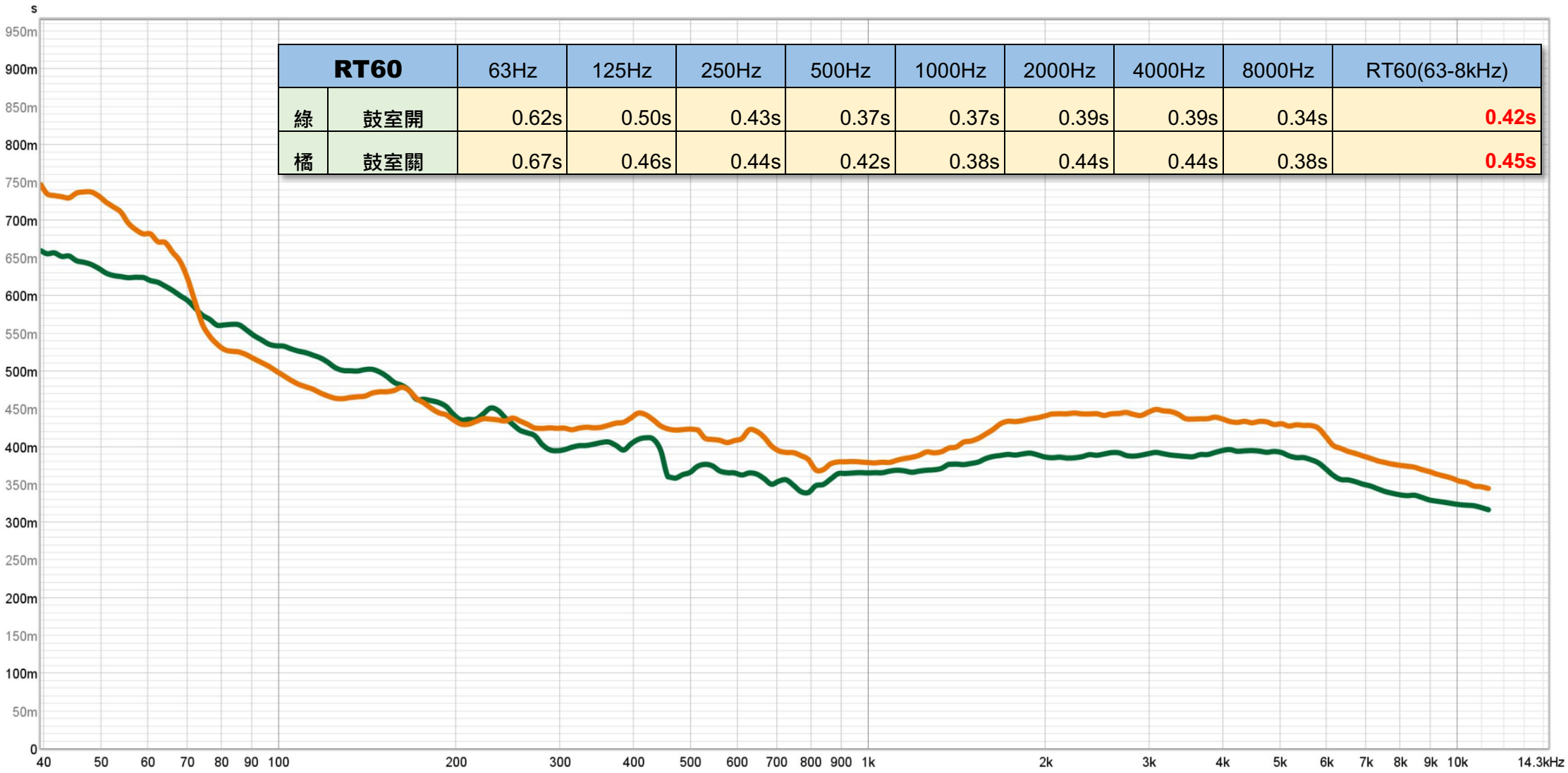
彩排室、鼓室關、全吸音模式 – WaterFall 曲線



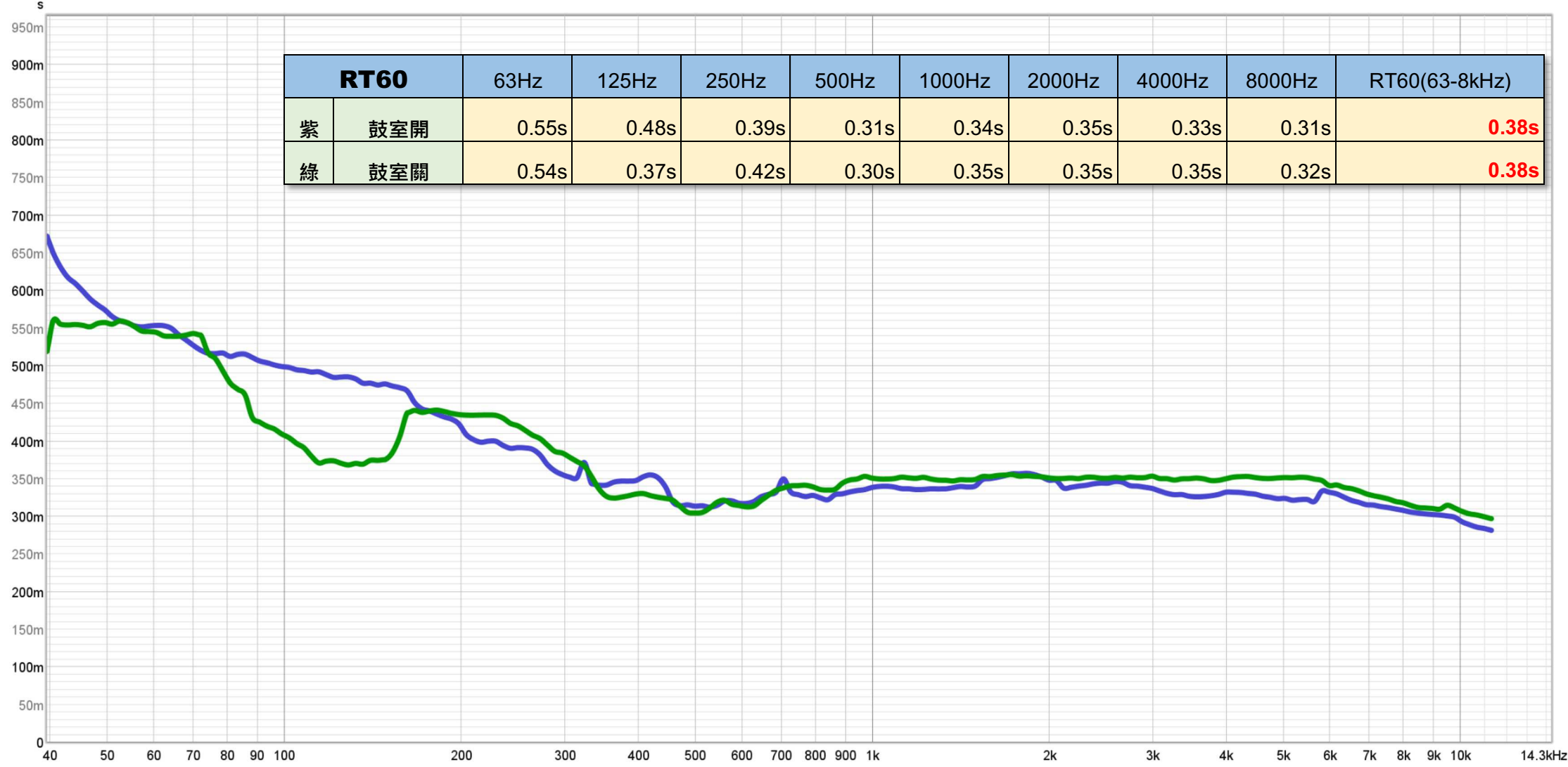
彩排室四個使用模式Center Time比較



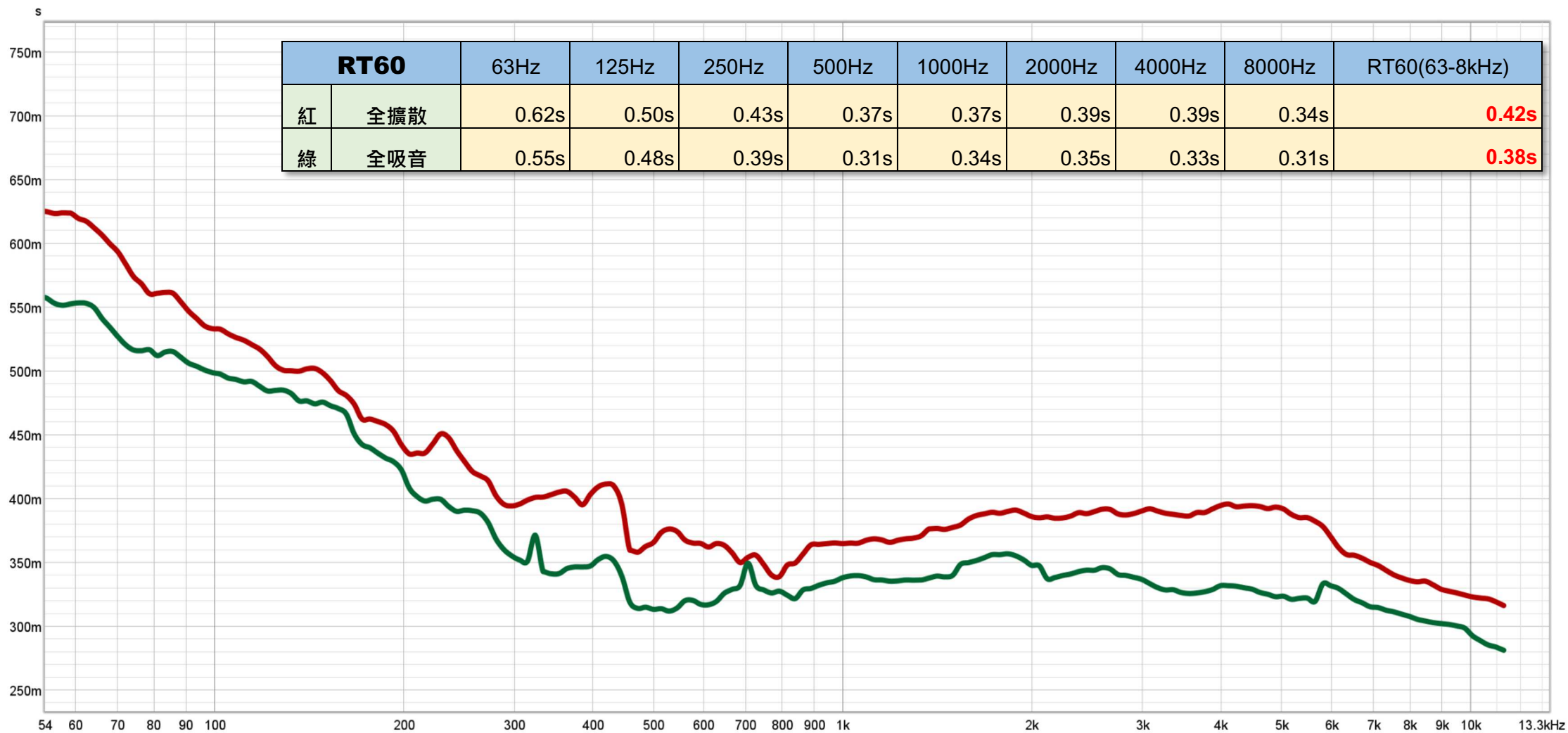
鼓室開/關對彩排室RT影響- 全擴散模式/T60M比對



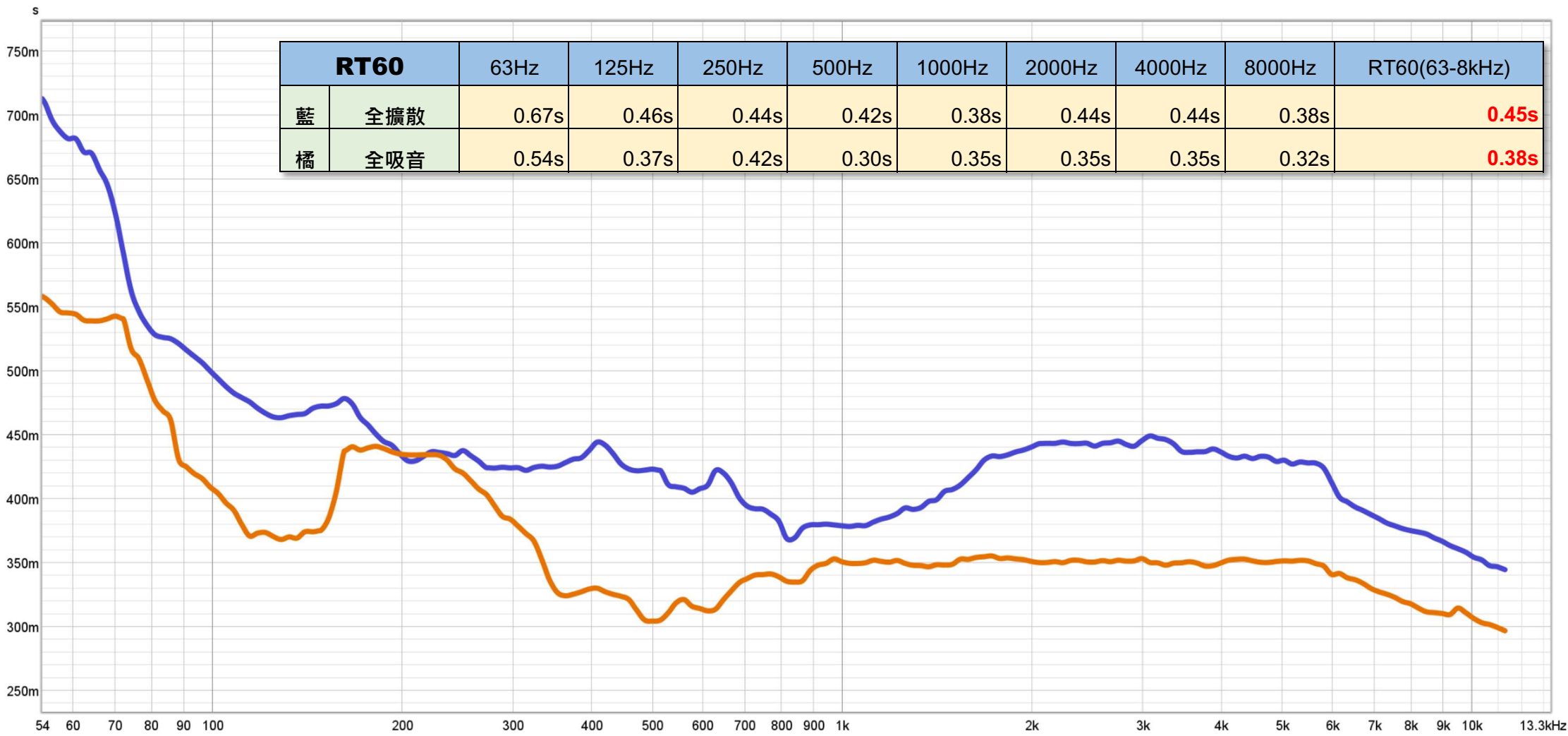
鼓室開/關對彩排室RT影響- 全吸音模式/T60M比對



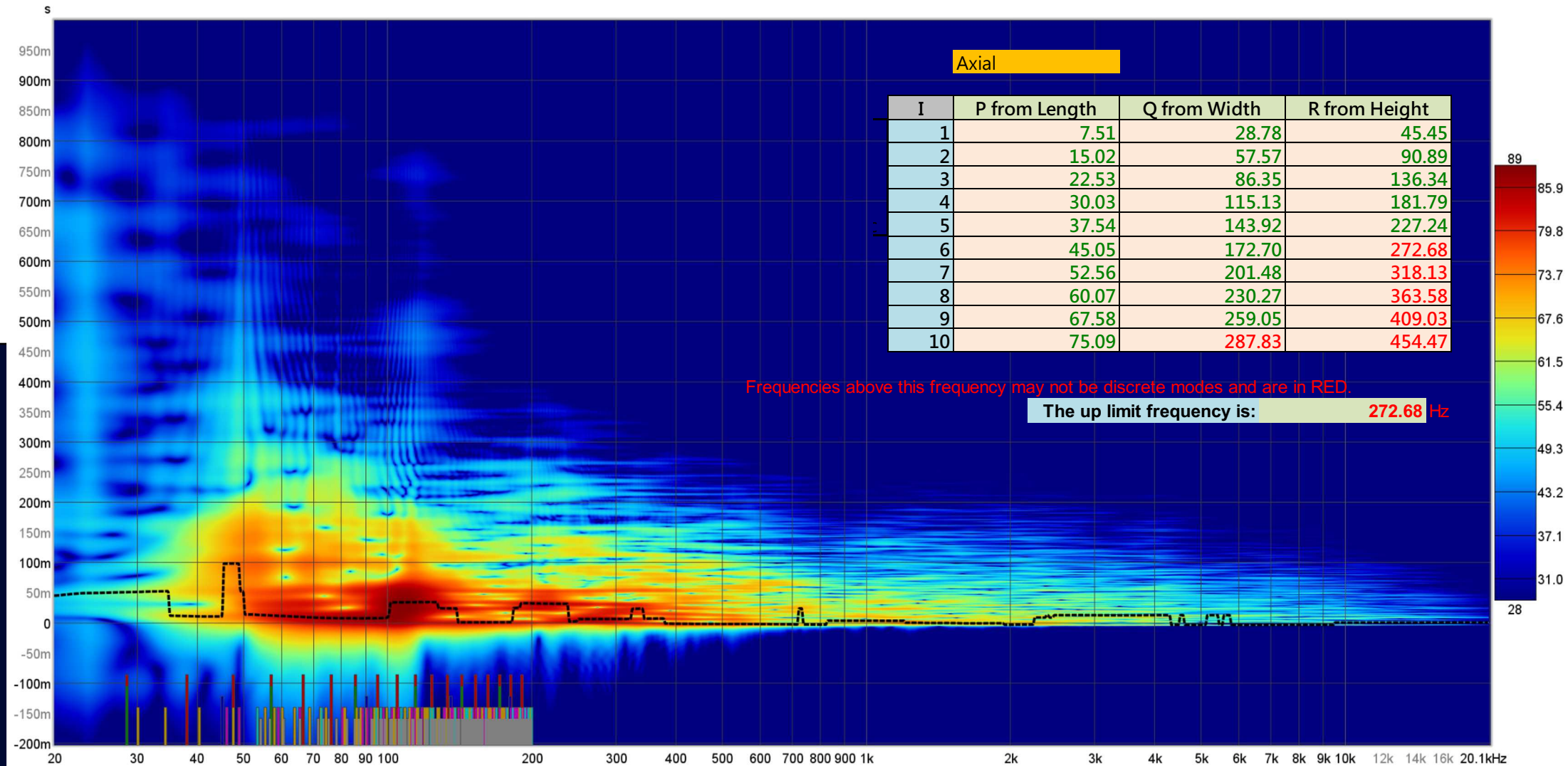
擴散/吸音對彩排室RT影響- 鼓室開/T60M比對



擴散/吸音對彩排室RT影響- 鼓室關/T60M比對

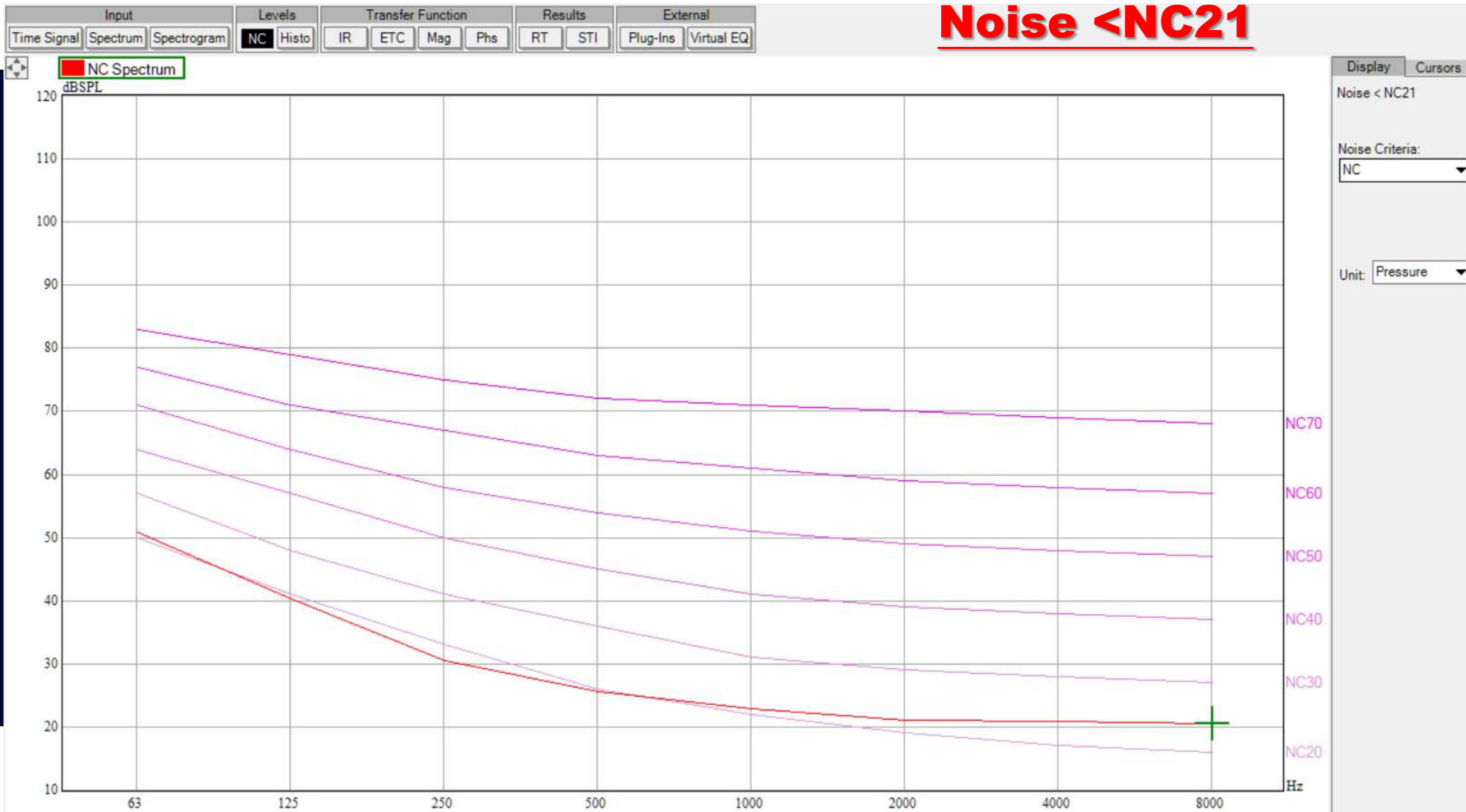


彩排室計算Room Modal



潛在Room
Mode F
48~ 50Hz

彩排室NC-Systune





鼓室 R T 量測

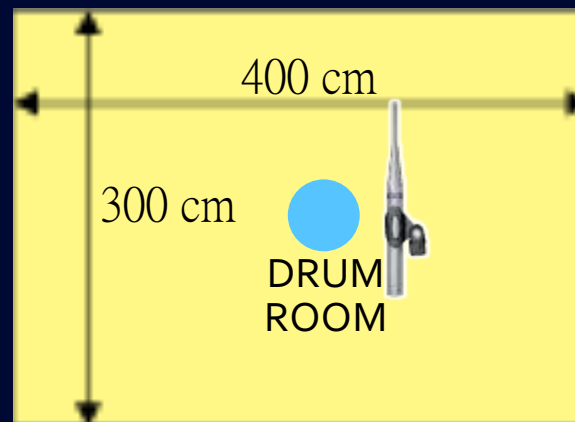
量測位置



量測Mic

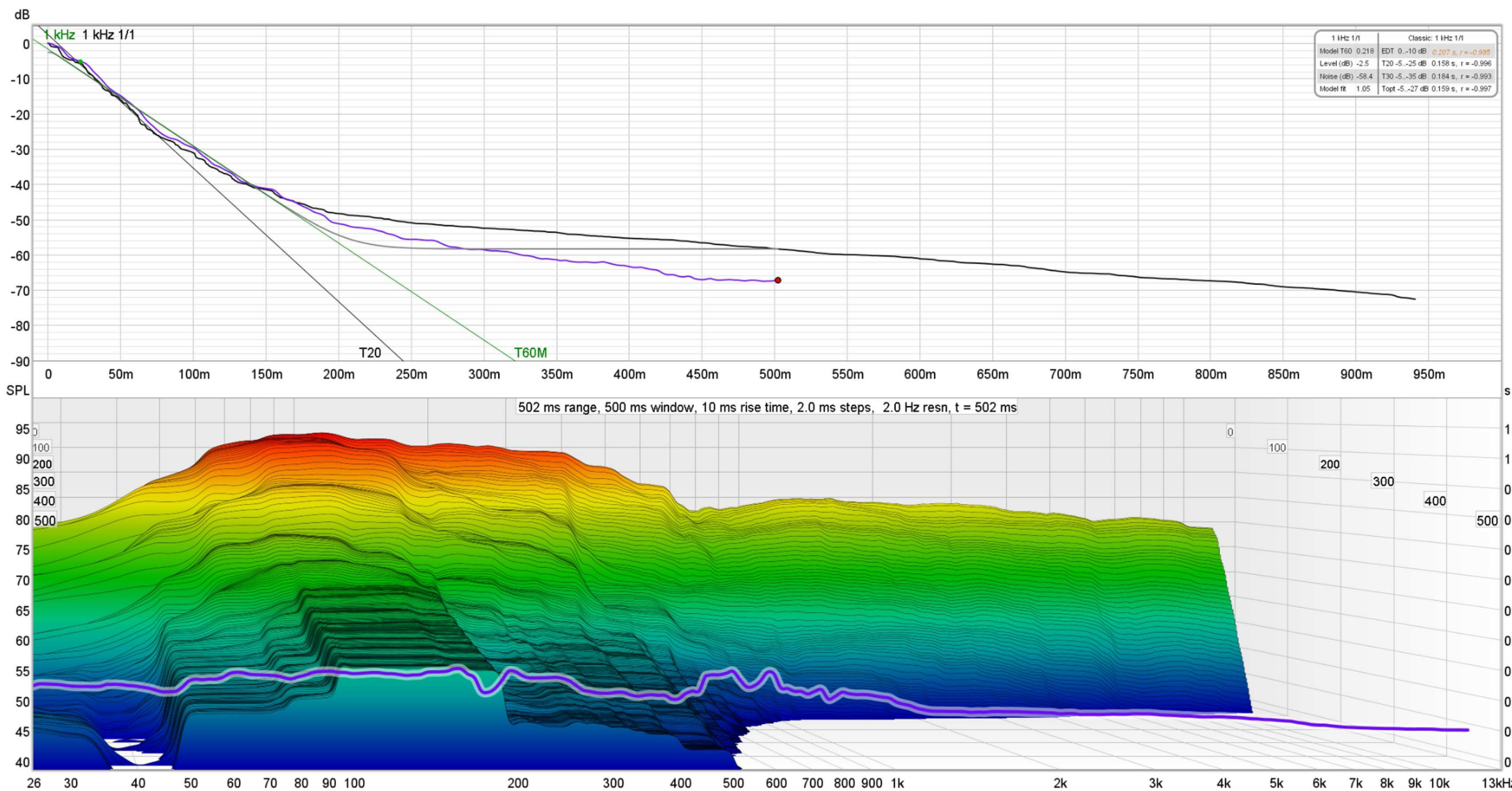


音源



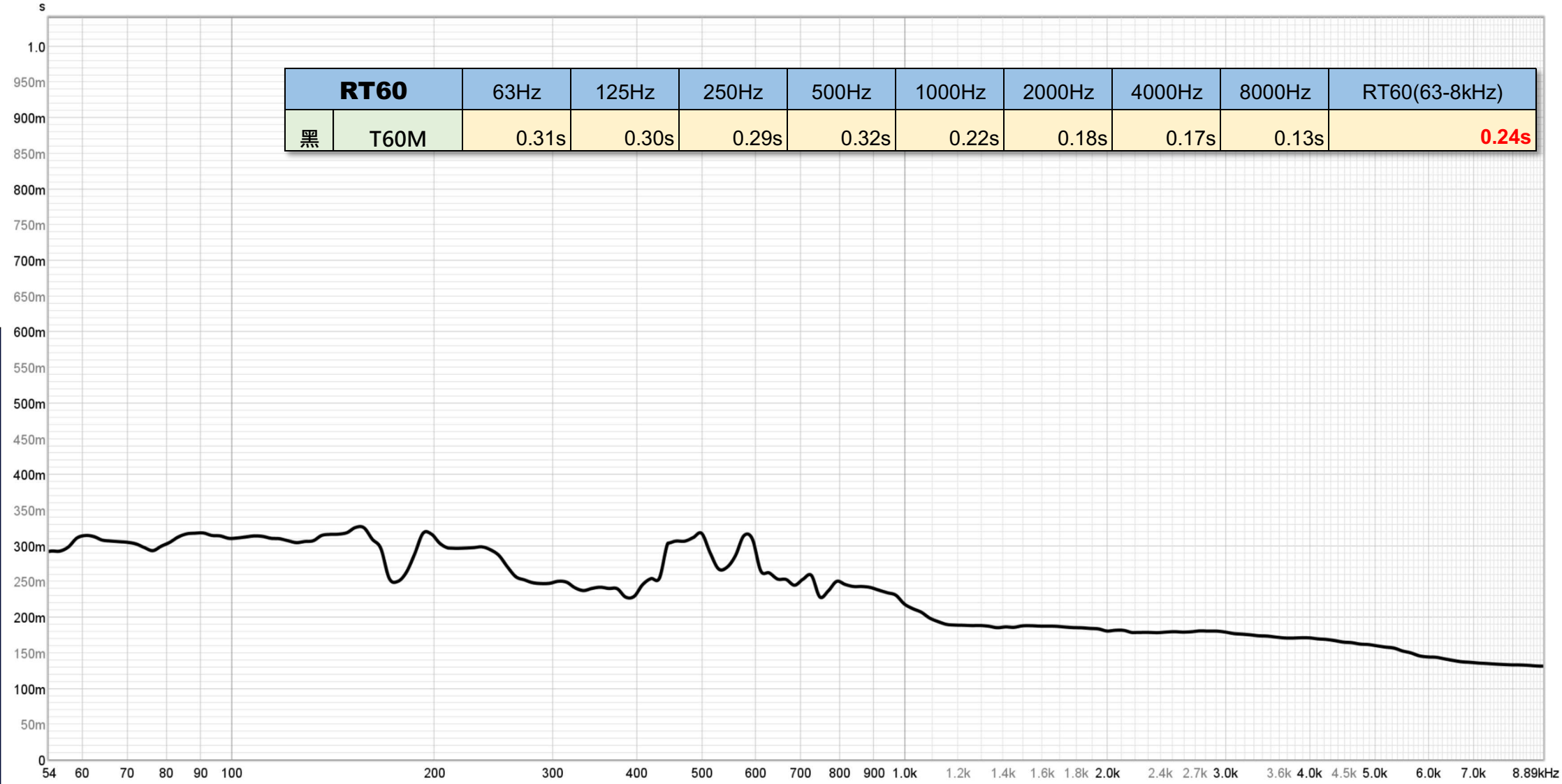
- 以Room EQ Wizard來執行
- 鼓室中央單點量測

鼓室-T60M曲線

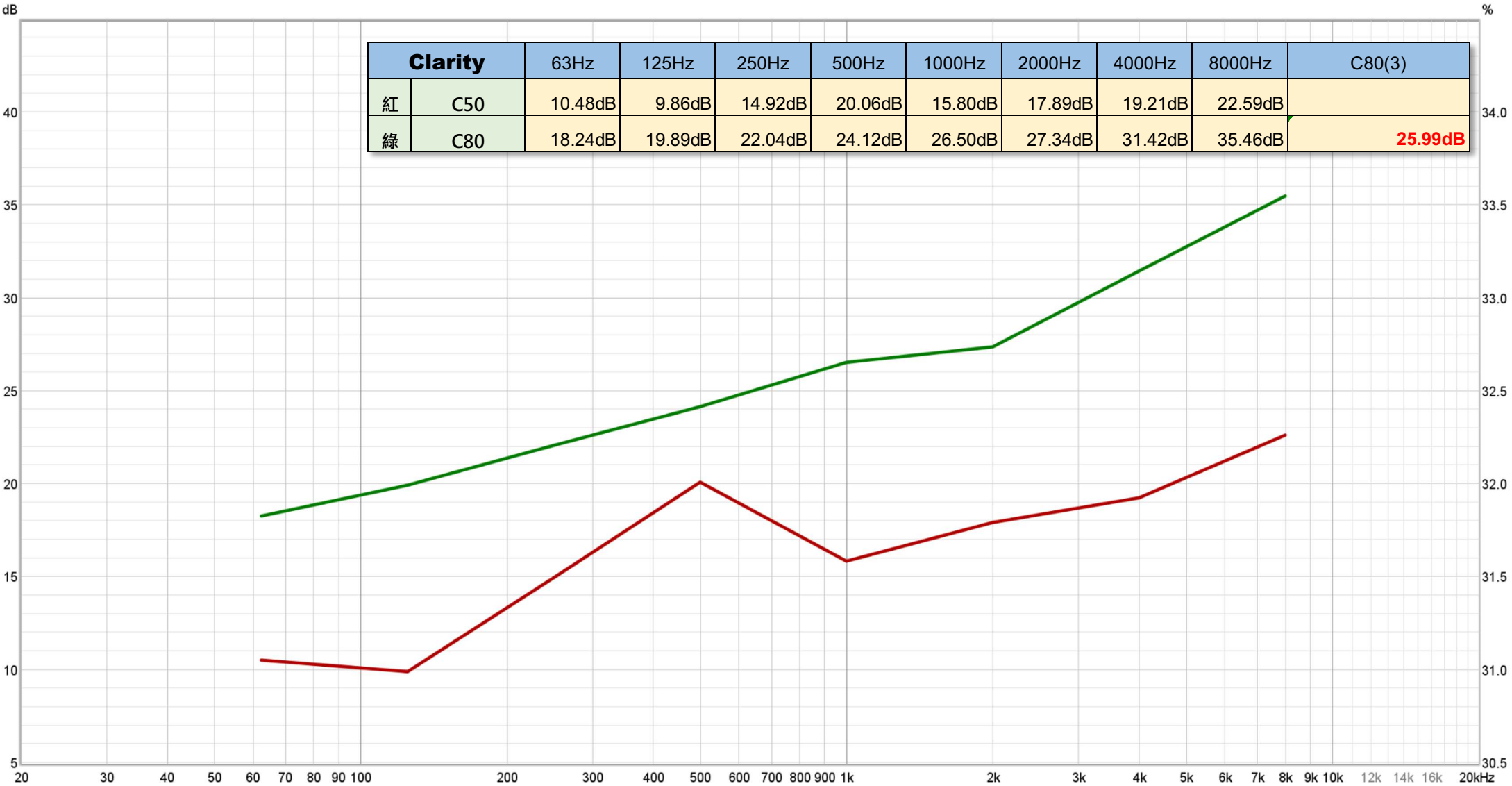


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推算RT60
模型

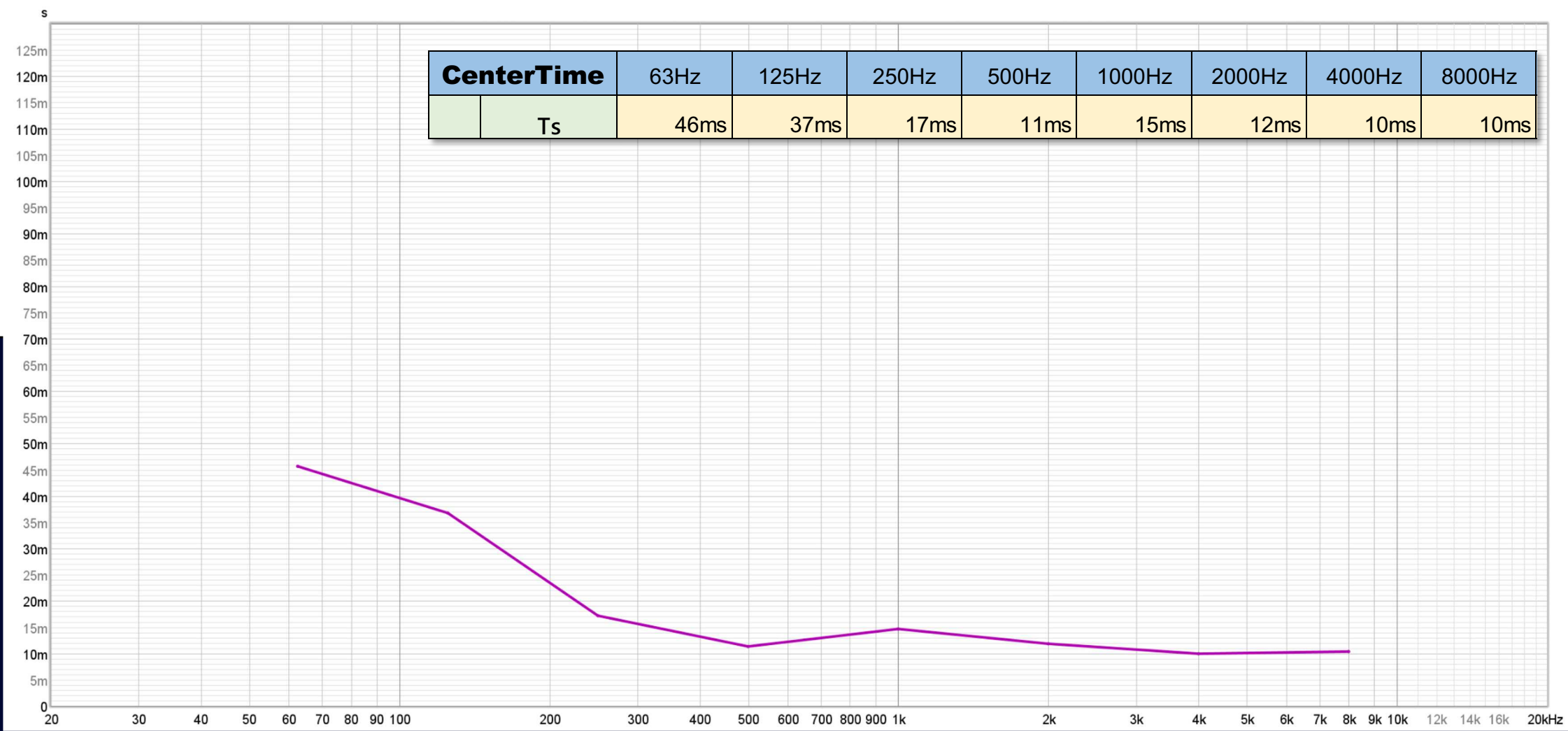
鼓室- RT60曲線



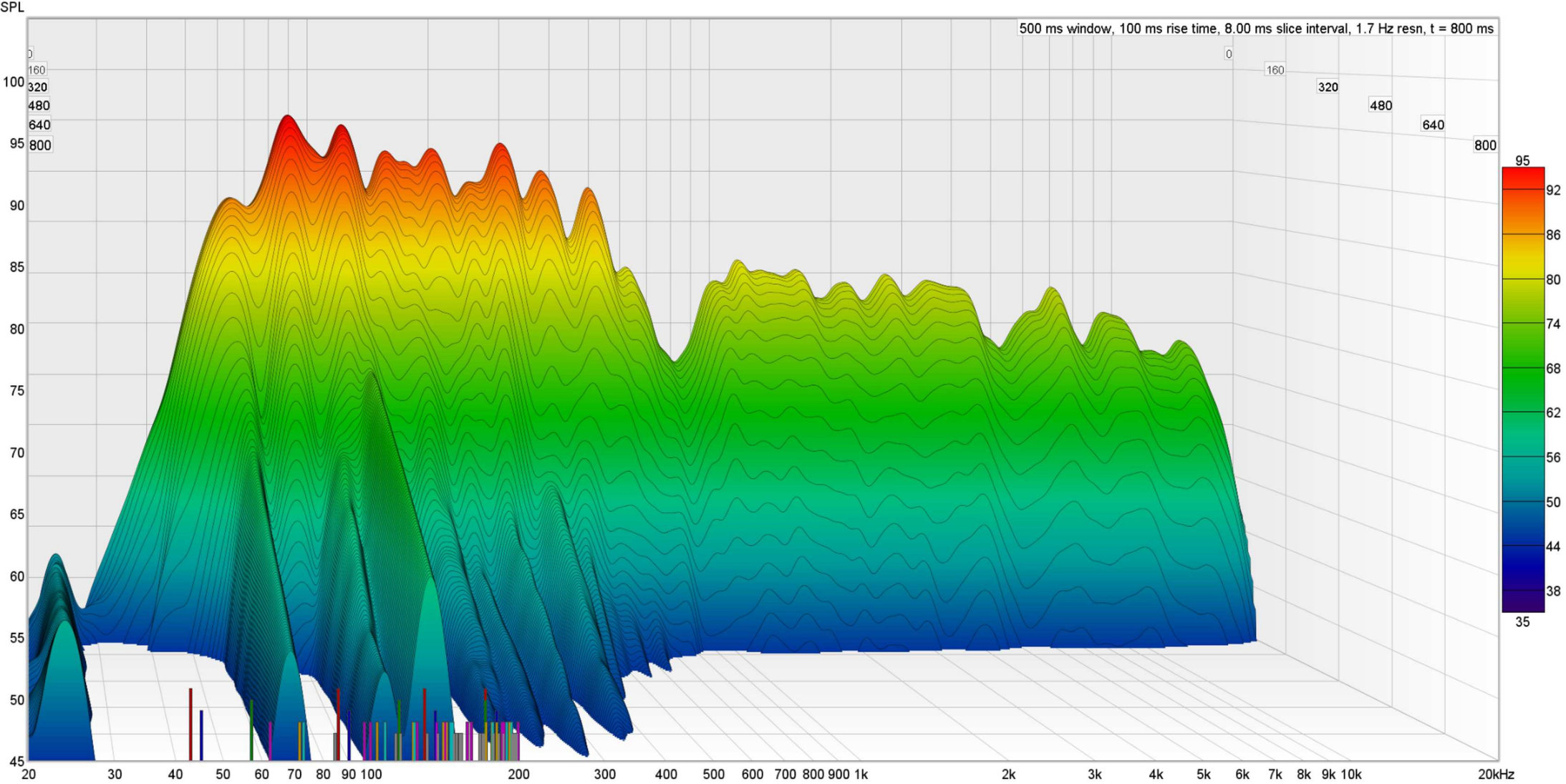
鼓室-清晰度曲線



鼓室– Center Time

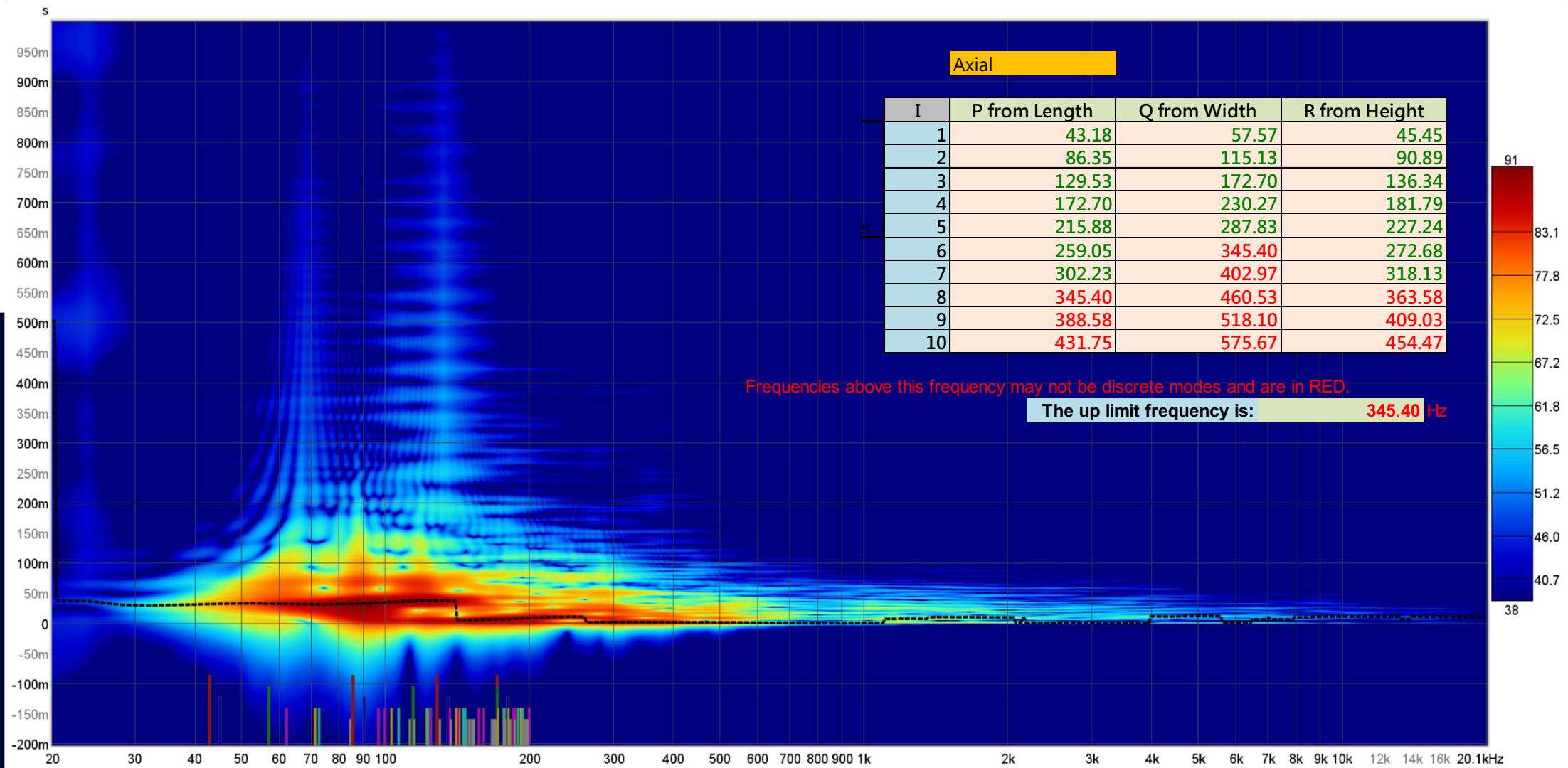


鼓室-Water Fall曲線



潛在Room
Mode F 71、
103、130Hz

鼓室計算Room Modal



潛在Room
Mode F 71、
103、130Hz



音控室 R T 量測

- 以Room EQ Wizard量測軟體來執行
- 進行五種數據分析

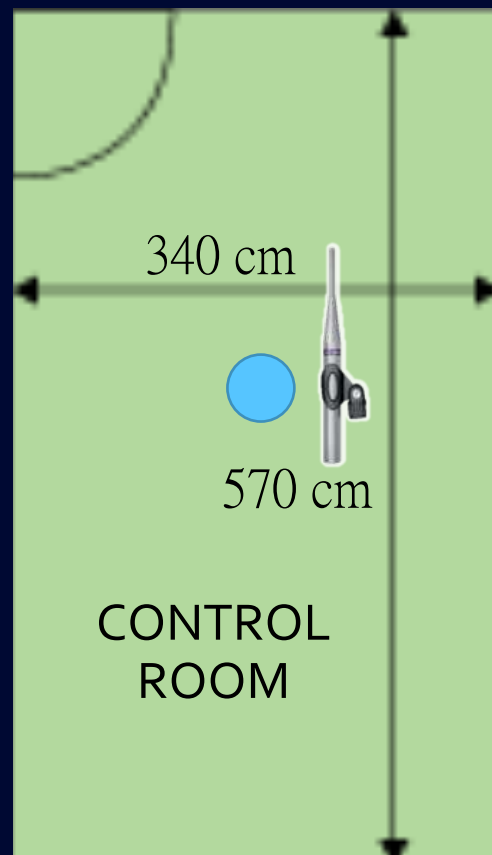
量測位置



量測Mic

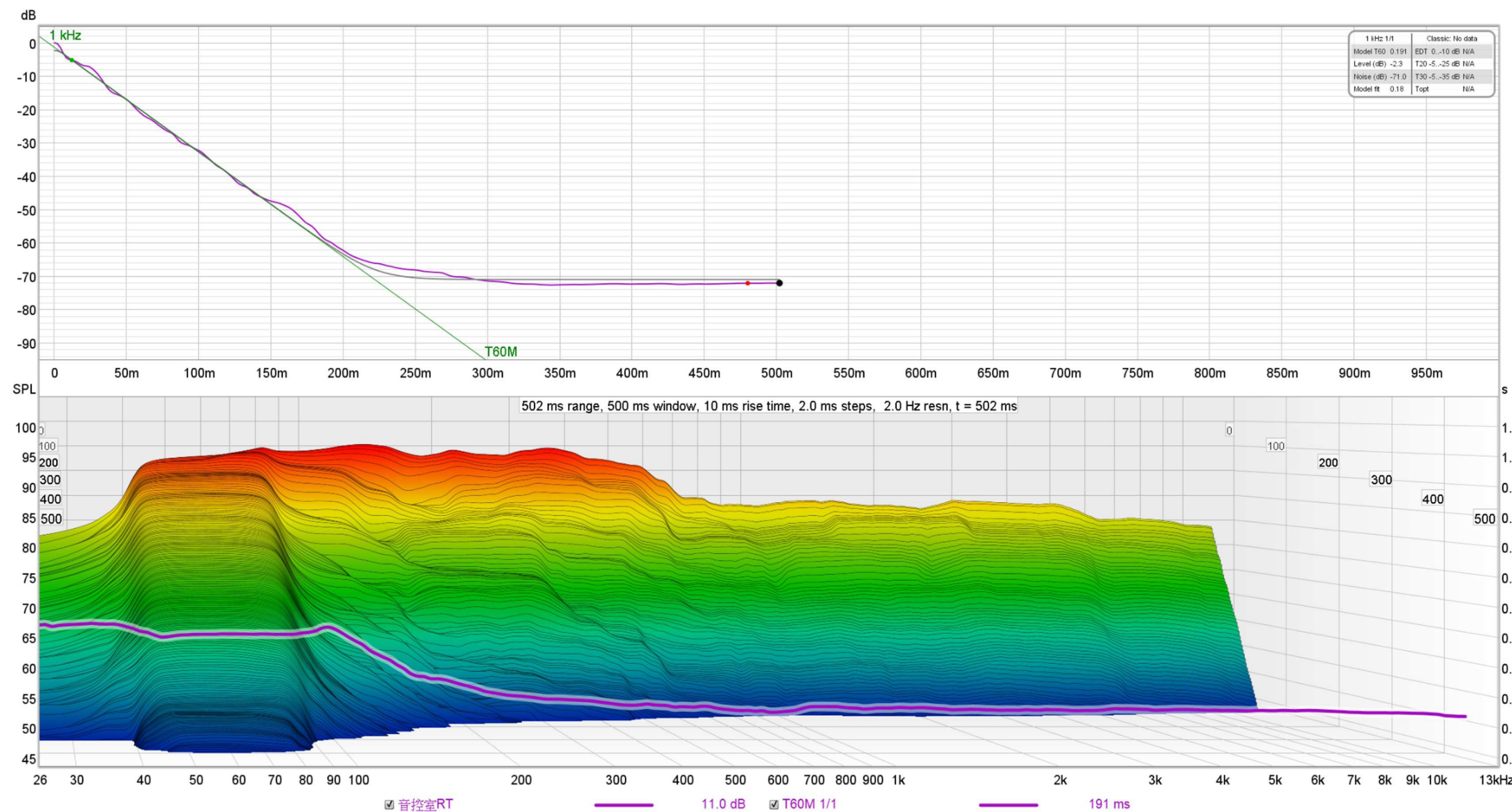


音源



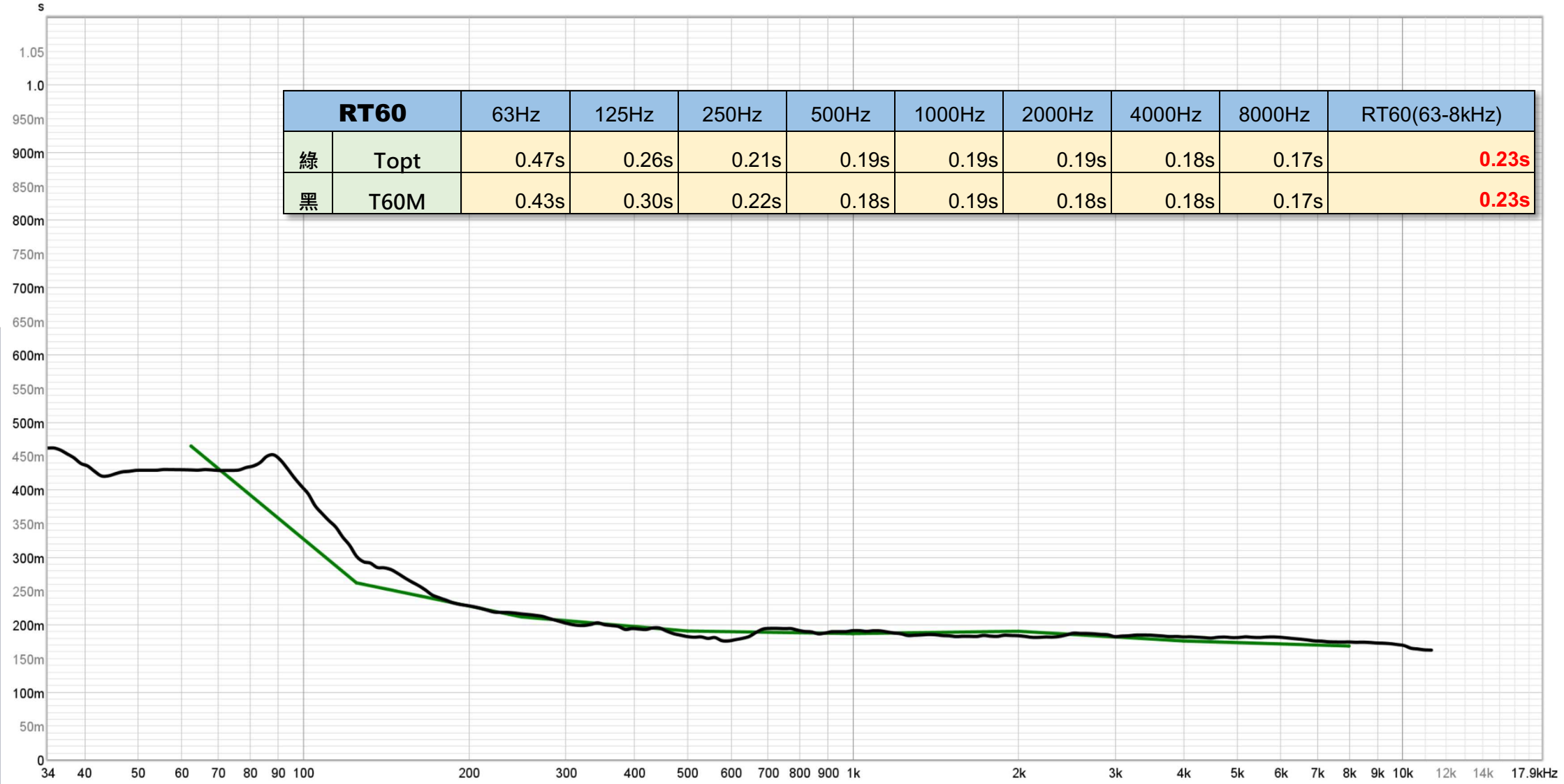
- 以Room EQ Wizard來執行
- 音控室中央單點量測

音控室-T60M曲線

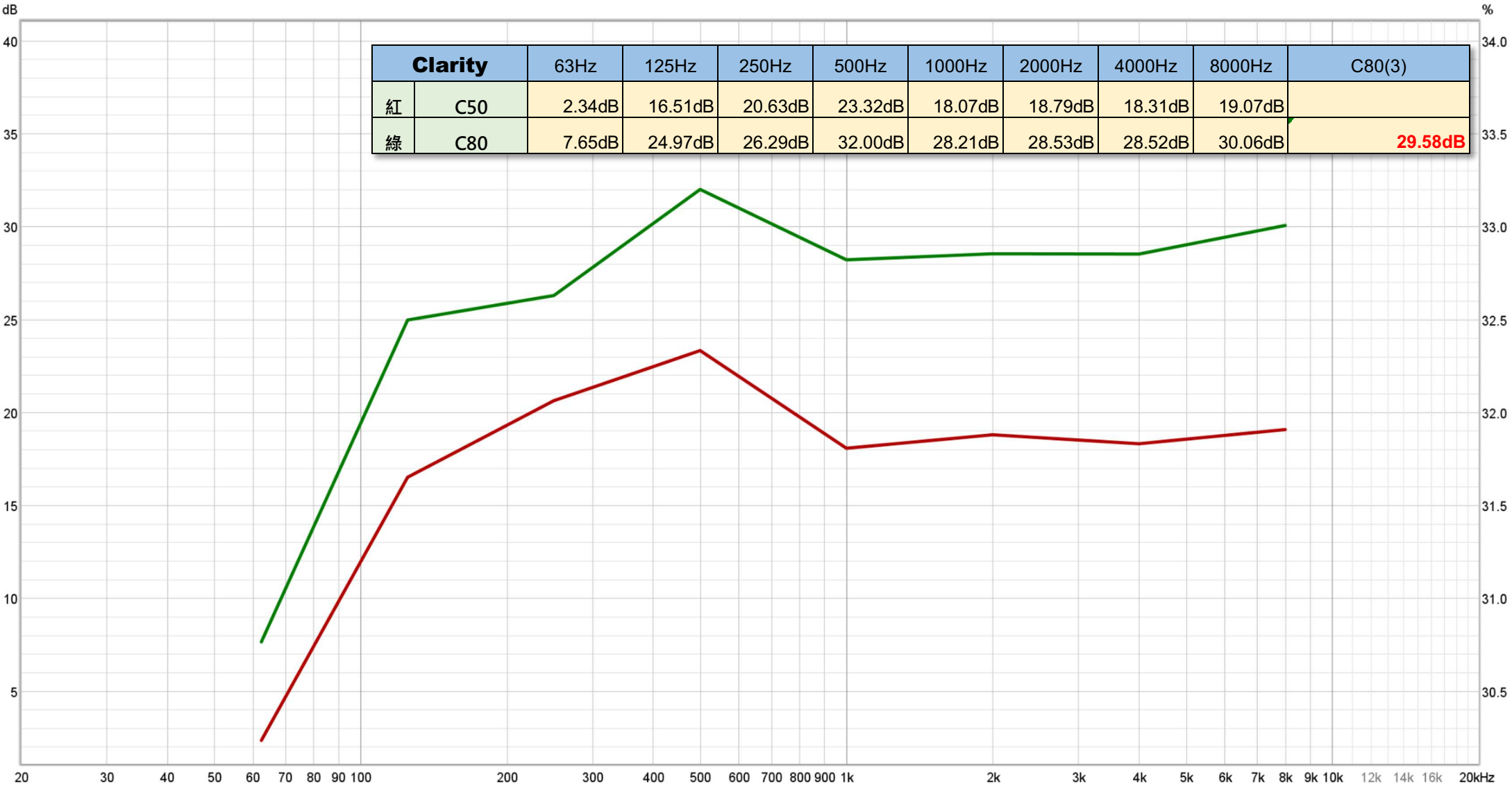


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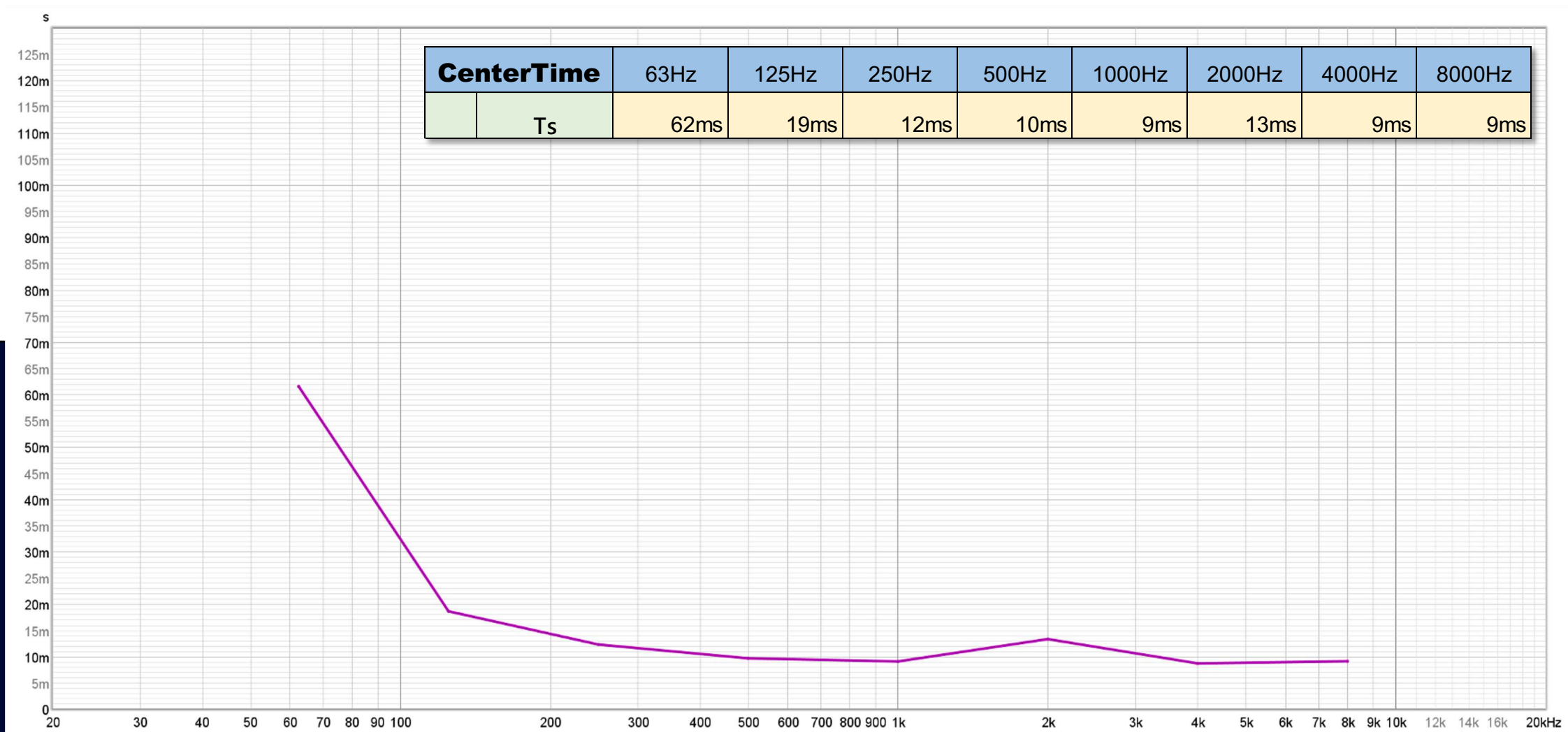
音控室- RT60曲線



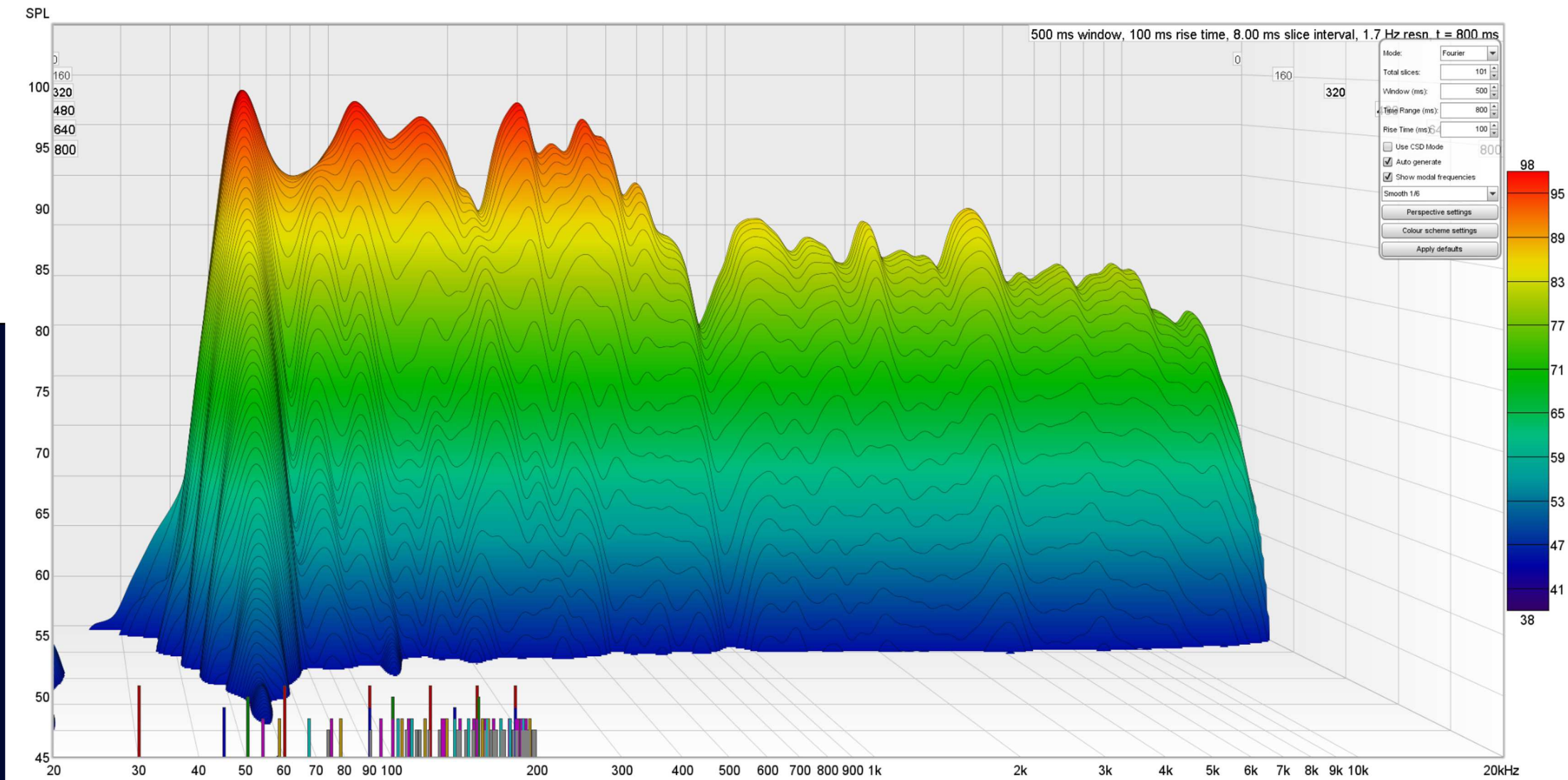
音控室-清晰度曲線



音控室– Center Time

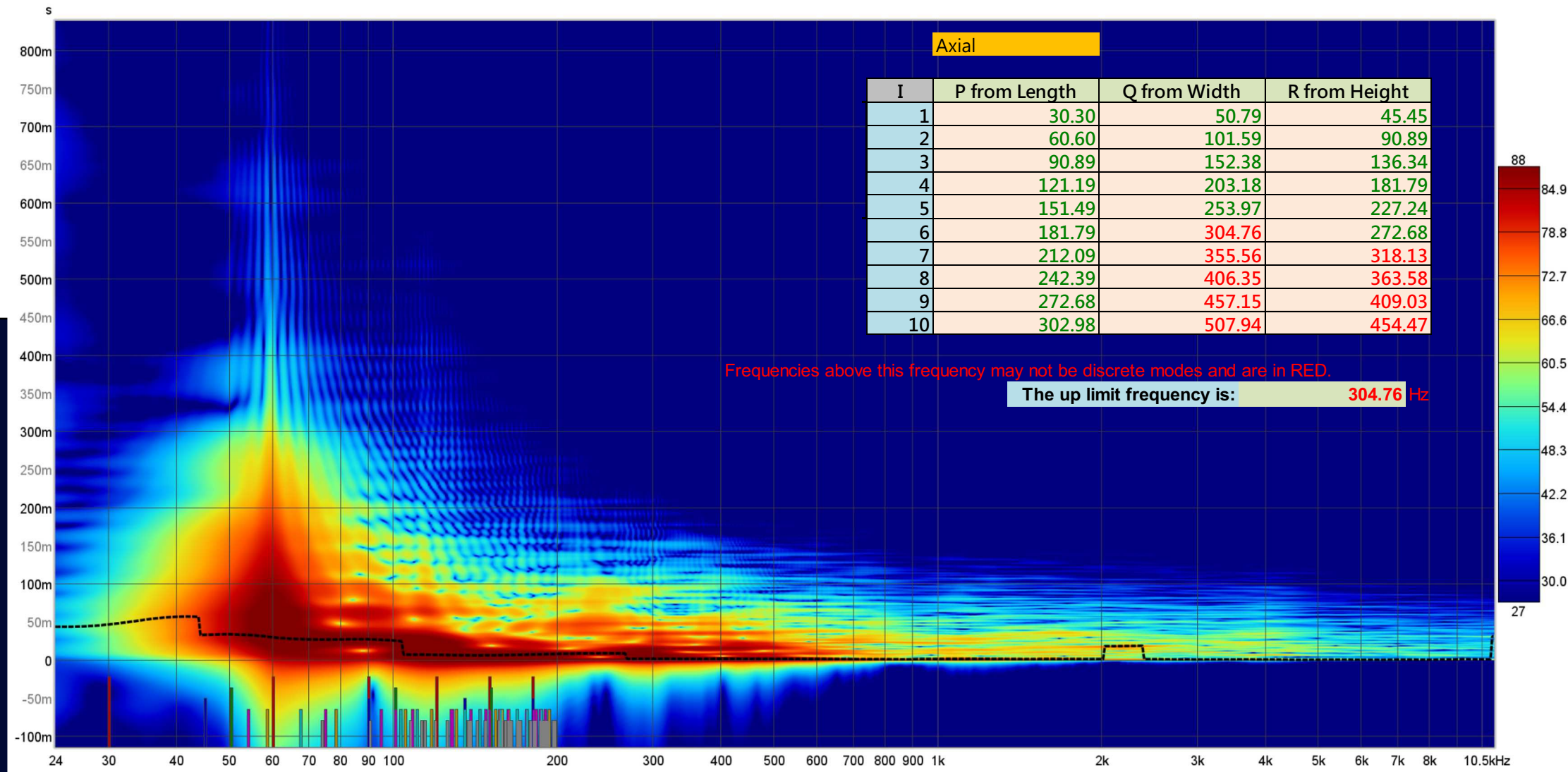


音控室-WaterFall 曲線



潛在Room
Mode F
60Hz

音控室計算Room Modal



潛在Room
Mode F
60Hz

音控室NC-Systune

