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[(a) CeT2-SS Excitation at λ_{emi} of 545 nm (b) CeT2-SS Emission at λ_{exc} of 247 nm]

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[(a) CeT3-SS Excitation at λ_{emi} of 545 nm (b) CeT3-SS Emission at λ_{exc} of 247 nm]

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[(a) GdE1-SS Excitation at λ_{emi} of 612 nm (b) GdE1-SS Emission at λ_{exc} of 254 nm]

Figure 4-53: Photoluminescence spectra for $\text{Gd}_2\text{S}_3:\text{Eu}$ (2%)

[(a) GdE2-SS Excitation at λ_{emi} of 612 nm (b) GdE2-SS Emission at λ_{exc} of 254 nm

(c) GdE2-SS Emission at λ_{exc} of 395 nm (d) GdE2-SS Emission at λ_{exc} of 395 nm]

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[(a) GdE3-SS Excitation at λ_{emi} of 612 nm (b) GdE3-SS Emission at λ_{exc} of 254 nm]

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[(a) GdT3-SS Excitation at λ_{emi} of 545 nm (b) GdT3-SS Emission at λ_{exc} of 273 nm]

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[(a) LaE1-SS Excitation at λ_{emi} of 616 nm (b) LaE1-SS Emission at λ_{exc} of 274 nm]

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[(a) LaE2-SS Excitation at λ_{emi} of 616 nm (b) LaE2-SS Emission at λ_{exc} of 274 nm

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[(a) LaE3-SS Excitation at λ_{emi} of 616 nm (b) LaE3-SS Emission at λ_{exc} of 274 nm]

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[(a) LaT2-SS Excitation at λ_{emi} of 545 nm (b) LaT2-SS Emission at λ_{exc} of 232 nm

(c) LaT2-SS Emission at λ_{exc} of 273 nm]

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[(a) LaT3-SS Excitation at λ_{emi} of 545 nm (b) LaT3-SS Emission at λ_{exc} of 232 nm

(c) LaT3-SS Emission at λ_{exc} of 273 nm]

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[(a) YE1-SS Excitation at λ_{emi} of 612 nm (b) YE1-SS Emission at λ_{exc} of 254 nm

(c) YE1-SS Emission at λ_{exc} of 466 nm]

Figure 4-65: Photoluminescence spectra for Y₂S₃:Eu (2%)

[(a) YE2-SS Excitation at λ_{emi} of 612 nm (b) YE2-SS Emission at λ_{exc} of 254 nm
(c) YE2-SS Emission at λ_{exc} of 466 nm]

Figure 4-66: Photoluminescence spectra for Y₂S₃:Eu (3%)

[(a) YE3-SS Excitation at λ_{emi} of 612 nm (b) YE3-SS Emission at λ_{exc} of 254 nm
(c) YE3-SS Emission at λ_{exc} of 466 nm]

Figure 4-67: Photoluminescence spectra for Y₂S₃:Tb (1%)

[(a) YT1-SS Excitation at λ_{emi} of 550 nm (b) YT1-SS Emission at λ_{exc} of 287 nm]

Figure 4-68: Photoluminescence spectra for Y₂S₃:Tb (2%)

[(a) YT2-SS Excitation at λ_{emi} of 550 nm (b) YT2-SS Emission at λ_{exc} of 287 nm]

Figure 4-69: Photoluminescence spectra for Y₂S₃:Tb (3%)

[(a) YT3-SS Excitation at λ_{emi} of 550 nm (b) YT3-SS Emission at λ_{exc} of 287 nm]

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[(a) CeE1-P Excitation at λ_{emi} of 612 nm (b) CeE1-P Emission at λ_{exc} of 274 nm
(c) CeE1-P Emission at λ_{exc} of 372 nm (d) CeE1-P Emission at λ_{exc} of 467 nm]

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[(a) CeE2-P Excitation at λ_{emi} of 612 nm (b) CeE2-P Emission at λ_{exc} of 274 nm
(c) CeE2-P Emission at λ_{exc} of 365 nm (d) CeE2-P Emission at λ_{exc} of 467 nm]

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[(a) CeE3-P Excitation at λ_{emi} of 612 nm (b) CeE3-P Emission at λ_{exc} of 274 nm
(c) CeE3-P Emission at λ_{exc} of 358 nm (d) CeE3-P Emission at λ_{exc} of 467 nm]

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[(a) GdE1-P Excitation at λ_{emi} of 612 nm (b) GdE1-P Emission at λ_{exc} of 254 nm]

Figure 4-74: : Photoluminescence spectra for Gd₂S₃:Eu (2%)

[(a) GdE2-P Excitation at λ_{emi} of 612 nm (b) GdE2-P Emission at λ_{exc} of 254 nm
(c) GdE2-P Emission at λ_{exc} of 467 nm]

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[(a) GdE3-P Excitation at λ_{emi} of 612 nm (b) GdE3-P Emission at λ_{exc} of 254 nm
(c) GdE3-P Emission at λ_{exc} of 467 nm]

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[(a) GdT1-P Excitation at λ_{emi} of 545 nm (b) GdT1-P Emission at λ_{exc} of 235 nm
(c) GdT1-P Emission at λ_{exc} of 274 nm (d) GdT1-P Emission at λ_{exc} of 314 nm]

Figure 4-77: Photoluminescence spectra for Gd₂S₃:Tb (2%)

[(a) GdT2-P Excitation at λ_{emi} of 545 nm (b) GdT2-P Emission at λ_{exc} of 235 nm
(c) GdT2-P Emission at λ_{exc} of 274 nm (d) GdT2-P Emission at λ_{exc} of 314 nm]

Figure 4-78: Photoluminescence spectra for Gd₂S₃:Tb (3%)

[(a) GdT3-P Excitation at λ_{emi} of 545 nm (b) GdT3-P Emission at λ_{exc} of 235 nm
(c) GdT3-P Emission at λ_{exc} of 274 nm (d) GdT3-P Emission at λ_{exc} of 314 nm]

Figure 4-79: Photoluminescence spectra for La₂S₃:Eu (1%)

[(a) LaE1-P Excitation at λ_{emi} of 612 nm (b) LaE1-P Emission at λ_{exc} of 274 nm]

Figure 4-80: Photoluminescence spectra for La₂S₃:Eu (2%)

[(a) LaE2-P Excitation at λ_{emi} of 612 nm (b) LaE2-P Emission at λ_{exc} of 274 nm]

Figure 4-81: Photoluminescence spectra for La₂S₃:Eu (3%)

[(a) LaE3-P Excitation at λ_{emi} of 612 nm (b) LaE3-P Emission at λ_{exc} of 274 nm]

Figure 4-82: : Photoluminescence spectra for Y₂S₃:Eu (1%)

[(a) YE1-P Excitation at λ_{emi} of 612 nm (b) YE1-P Emission at λ_{exc} of 254 nm]

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[(a) YE2-P Excitation at λ_{emi} of 612 nm (b) YE2-P Emission at λ_{exc} of 254 nm
(c) YE2-P Emission at λ_{exc} of 467 nm]

Figure 4-84: Photoluminescence spectra for Y₂S₃:Eu (3%)

[(a) YE3-P Excitation at λ_{emi} of 612 nm (b) YE3-P Emission at λ_{exc} of 254 nm]

Figure 4-85: Photoluminescence spectra for Y₂S₃:Tb (1%)

[(a) YT1-P Excitation at λ_{emi} of 545 nm (b) YT1-P Emission at λ_{exc} of 290 nm]

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[(a) YT2-P Excitation at λ_{emi} of 545 nm (b) YT2-P Emission at λ_{exc} of 290 nm]

Figure 4-87: Photoluminescence spectra for $Y_2S_3:Tb$ (3%)

[(a) YT3-P Excitation at λ_{emi} of 545 nm (b) YT3-P Emission at λ_{exc} of 290 nm]

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