Fig-3.1: IR spectrum of \((2E,2'E)-1,1'-(4,6\text{-Bis(prop-2-yn-1-yl)xyloxy})-1,3\text{-phenylene})\) \(\text{bis}(3-(4\text{-methoxyphenyl})prop-2-en-1-one)\) (3.19 c)
Fig. 3.2: $^1$H NMR spectrum of (2E,2′E)-1,1′-(4,6-Bis(prop-2-yn-1-yloxy)-1,3-phenylene) bis(3-(4-methoxyphenyl)prop-2-en-1-one) (3.19 c)
Fig-3.3: Mass spectrum of \((2E,2'E)-1,1'-(4,6-Bis(prop-2-yn-1-yloxy)-1,3-phenylene)\) bis(3-(4-methoxyphenyl)prop-2-en-1-one) (3.19 c)
Fig. 3.4: IR spectrum of (2E,2′E)-1,1′,4,4′-bisis(1-benzyl-1H-1,2,3-triazol-4-yl)methoxy)-1,3-phenylenebis(4-methoxyphenyl)prop-2-en-1-one (3.13C)
Fig-3.5: $^1$H NMR spectrum of (2$E, 2'E$)-1,1'-(4,6-bis((1-benzyl-1H-1,2,3-triazol-4-yl)methoxy)-1,3-phenylene)bis(3-(4-methoxyphenyl)prop-2-en-1-one) (3.13 c)
Fig 3.6: $^{13}$C NMR spectrum of (2E,2'E)-1,1'-[(4,6-bis((1-benzyl-1H-1,2,3-triazol-4-yl)methoxy)-1,3-phenylene)bis(3-(4-methoxyphenyl)prop-2-en-1-one) (3.13 c)
Fig-3.7: Mass spectrum of \((2E,2'E)-1,1'(4,6\text{-bis((1-benzyl-1\text{-H}-1,2,3-triazol-4-yl)methoxy})-1,3\text{-phenylene})\text{bis(3-(4-methoxyphenyl)prop-2-en-1-one)}} \) (3.13 c)
Fig-3.8: IR spectrum of 1,1''-(4,6-bis(prop-2-ynyloxy)-1,3-phenylene)diethanone (3.21)
Fig. 3.9: $^1$H-NMR spectrum of 1,1’-(4,6-bis(prop-2ynyloxy)-1,3-phenylene)diethanone (3.21)
Fig. 3.10: $^{13}$C-NMR spectrum of 1,1'-(4,6-bis(prop-2-ynyloxy)-1,3-phenylene)diethanone (3.21)
Fig 3.11: Mass spectrum of 1,1’-(4,6-bis(prop-2ynyloxy)-1,3-phenylene)diethanone (3.21)
Fig 3.13: $^1$H-NMR spectrum of 1,1'-(4,6-Bis((1-benzyl-1H-1,2,3-triazol-4-yl)methoxy)-1,3-phenylene)diethanone (3.22)
Fig-3.14: $^{13}$C-NMR spectrum of 1,1'-(4,6-Bis((1-benzyl-1H-1,2,3-triazol-4-yl)methoxy)-1,3-phenylene)diethanone (3.22)
Fig. 3.16: IR spectrum of \((2E,2'E)-1,1'-(4,6\text{-Bis((1-benzyl-1H-1,2,3-triazol-4-yl)methoxy)-1,3-phenylene})\text{bis(3-phenylprop-2-en-1-one})\) (3.13 f)
Fig-3.17: $^1$H NMR spectrum of (2E,2' E)-1,1'-(4,6-Bis((1-benzyl-1H-1,2,3-triazol-4-yl)methoxy)-1,3-phenylene)bis(3-phenylprop-2-en-1-one) (3.13 f)
Fig-3.18: $^{13}$C NMR spectrum of (2E,2'E)-1,1'-(4,6-Bis((1-benzyl-1H-1,2,3-triazol-4-yl)methoxy)-1,3-phenylene) bis(3-phenylprop-2-en-1-one) (3.13 f)
Fig-3.19: Mass spectrum of \((2E,2'E)-1,1'-(4,6\text{-Bis((1-benzyl-1H-1,2,3-triazol-4-yl)methoxy}-1,3-phenylene)bis(3-phenylprop-2-en-1-one}) (3.13 \text{f})\)