

## **Supporting Information**

**TITLE:** Synthesis and Biological Activities of Selenium/Thioether Quinazoline Compounds

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The infrared spectra were recorded on a MAGANA-IR550 FTIR spectrometer in KBr disks.  $^1\text{H}$  and  $^{13}\text{C}$  NMR spectra were recorded on a spectrometer BRUKER-II 500 MHz (500 and 125 MHz respectively) at room temperature in  $\text{CDCl}_3$  using TMS as internal standard.

## IR of title compounds

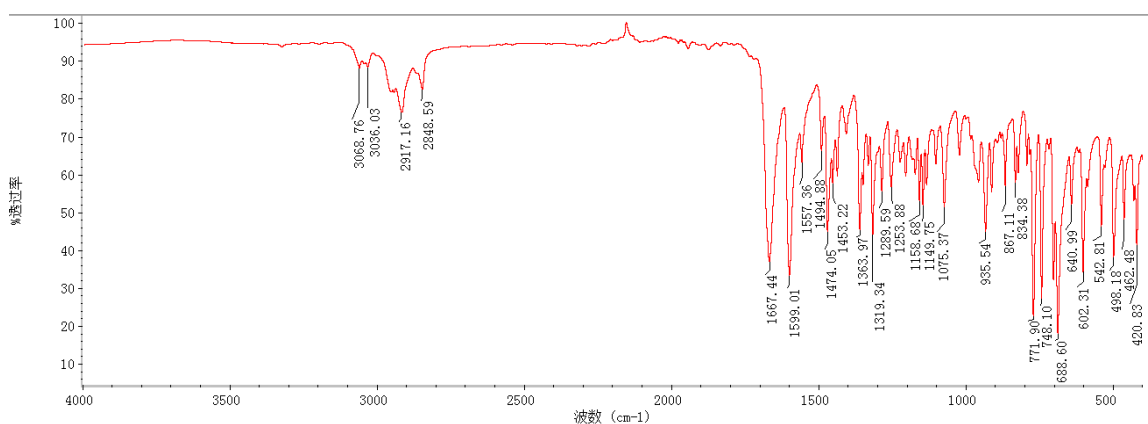


Figure S1-1 IR of 4-benzylselenoquinazoline ( $G_1$ )

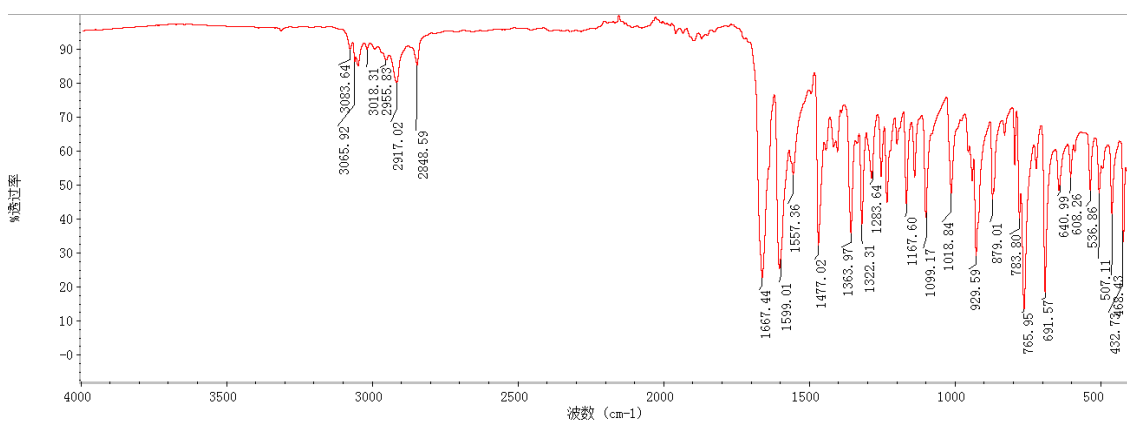


Figure S1-2 IR of 4-allylselenoquinazoline ( $G_2$ )

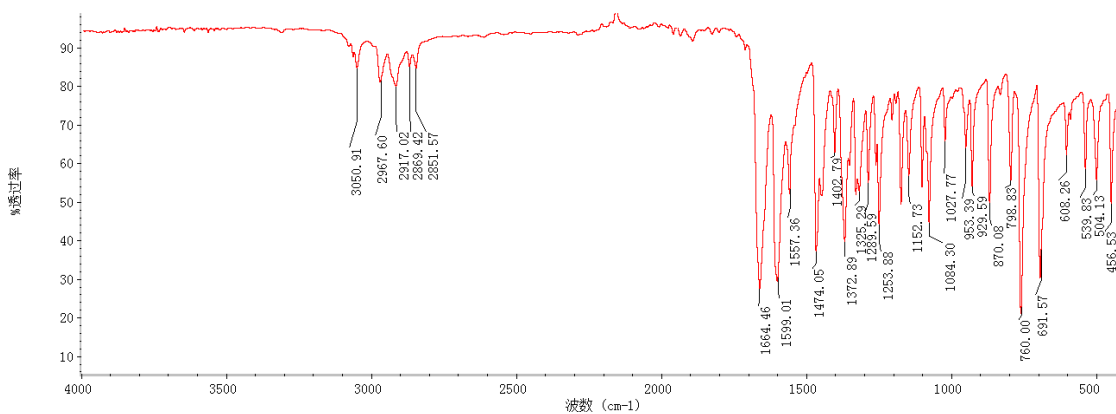


Figure S1-3 IR of 4-ethylselenoquinazoline ( $G_3$ )

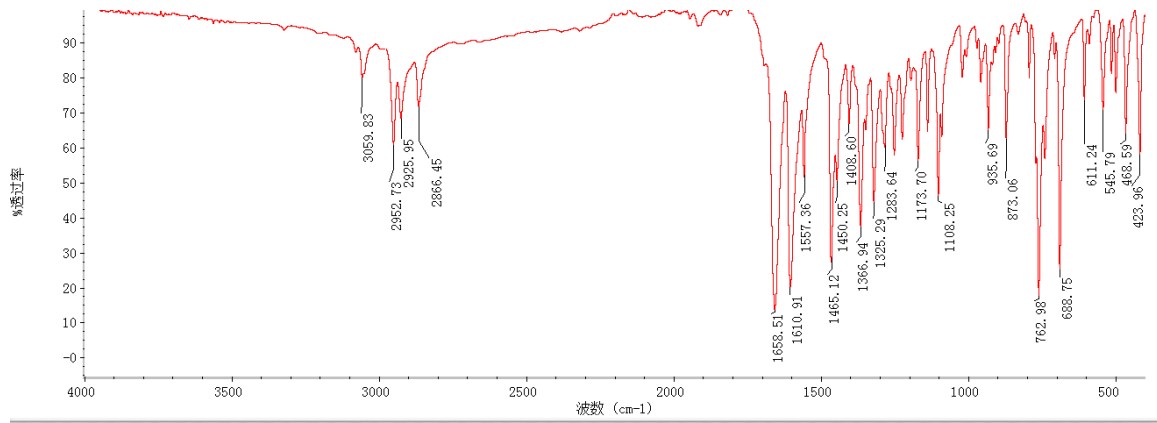


Figure S1-4 IR of 4-butylselenoquinazoline ( $G_4$ )

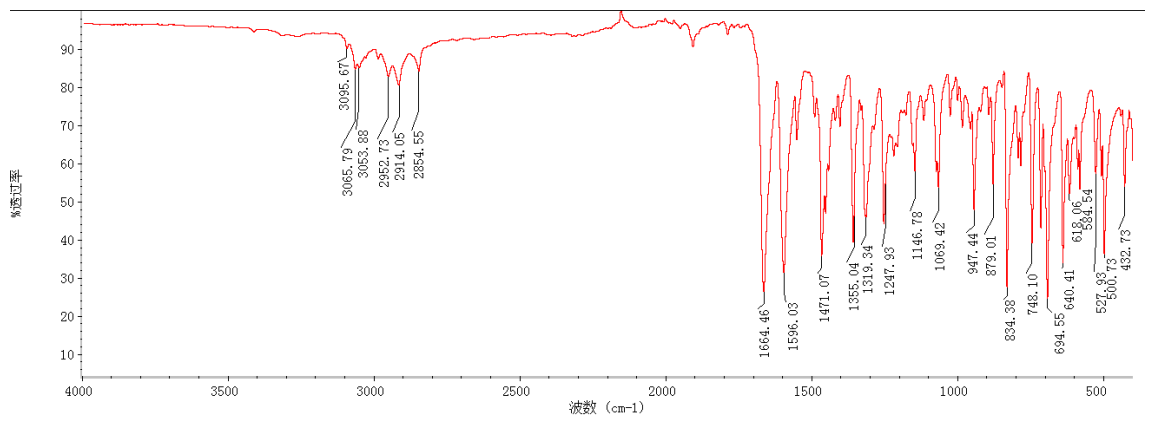


Figure S1-5 IR of 6-chloro-4-benzylselenoquinazoline ( $G_5$ )

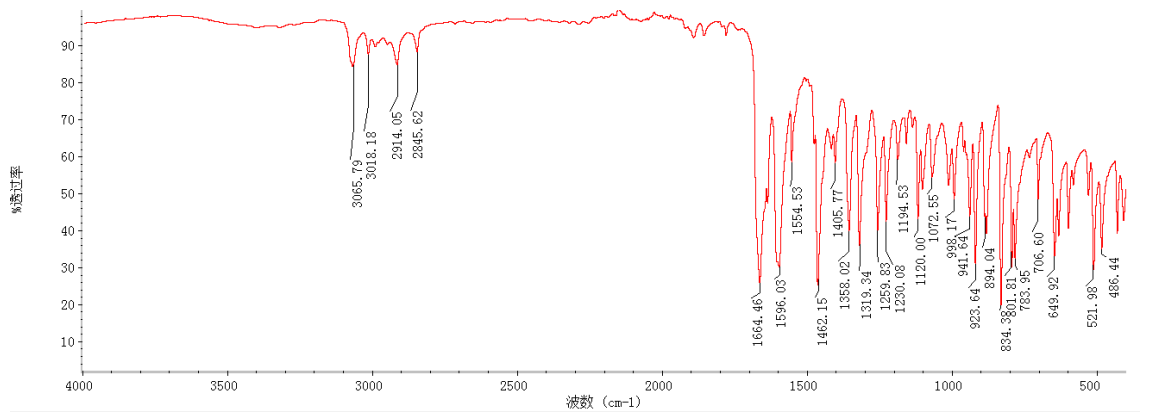


Figure S1-6 IR of 6-chloro-4-allylselenoquinazoline ( $G_6$ )

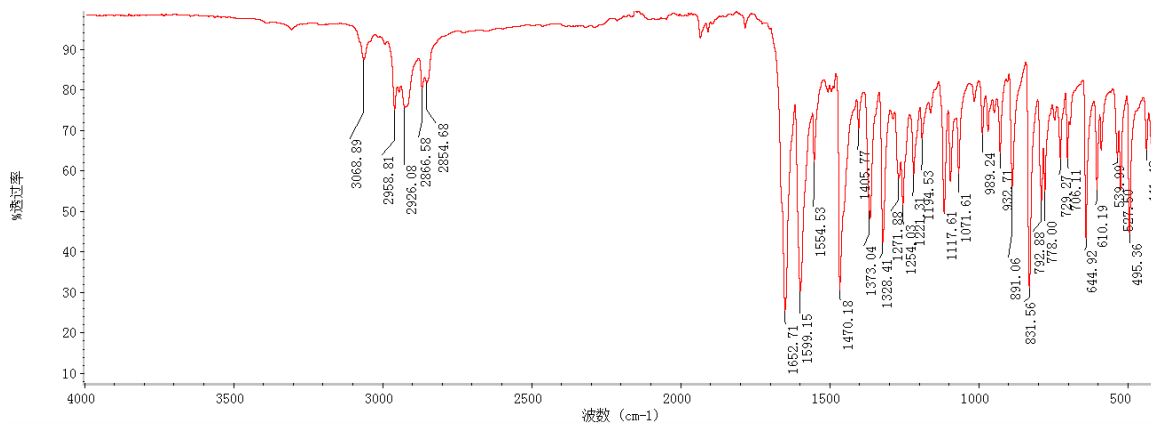


Figure S1-7 IR of 6-chloro-4-butylselenoquinazoline (**G<sub>8</sub>**)

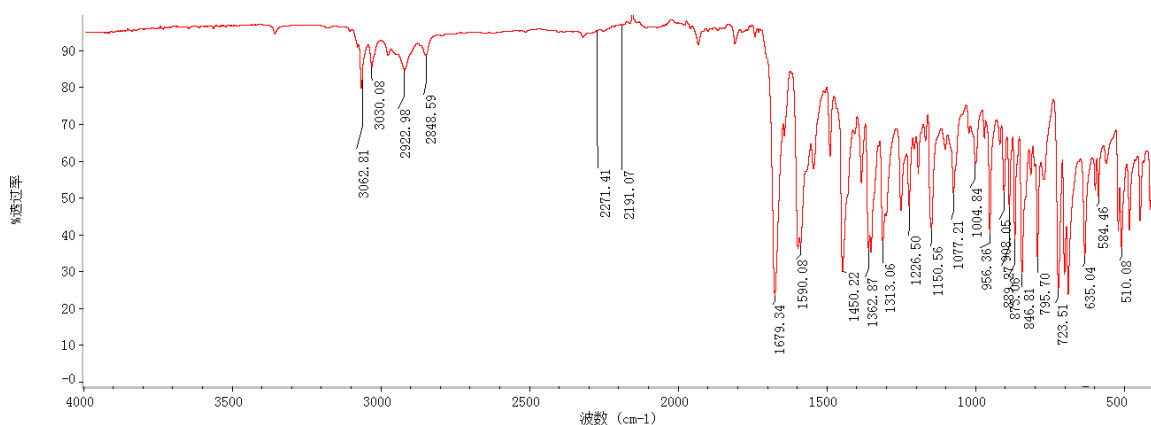


Figure S1-8 IR of 6,8-dichloro-4-benzylselenoquinazoline (**G<sub>9</sub>**)

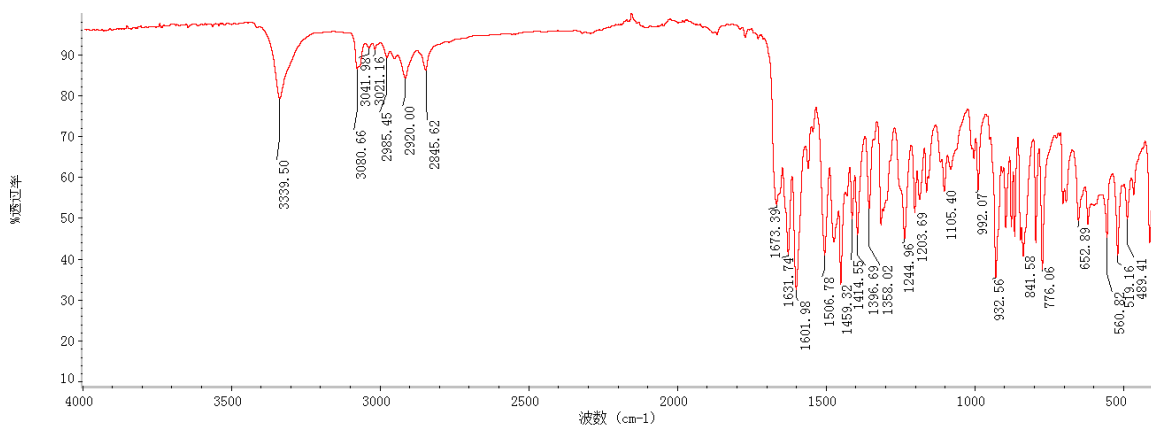
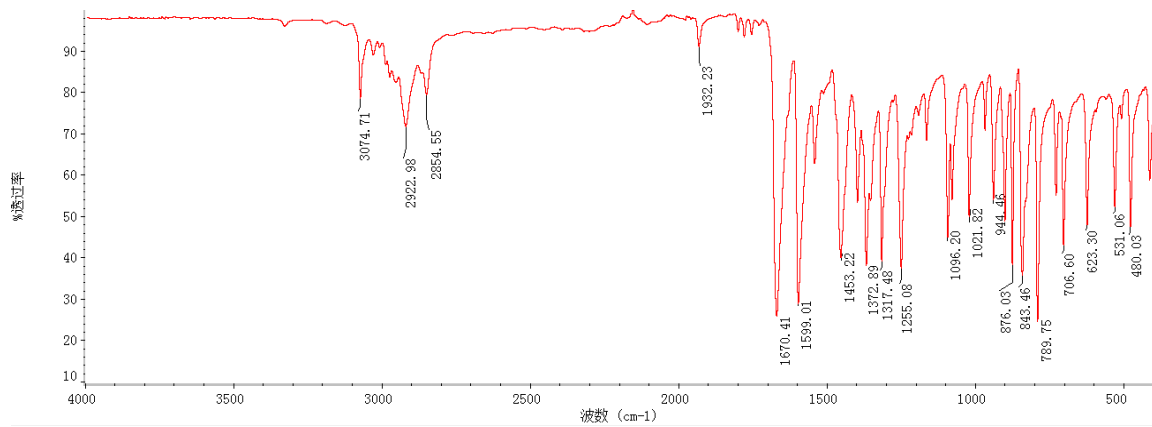


Figure S1-9 IR of 6,8-dichloro-4-allylselenoquinazoline (**G<sub>10</sub>**)



**Figure S1-10** IR of 6,8-dichloro-4-ethylselenoquinazoline (**G<sub>11</sub>**)

# <sup>1</sup>H NMR of title compounds

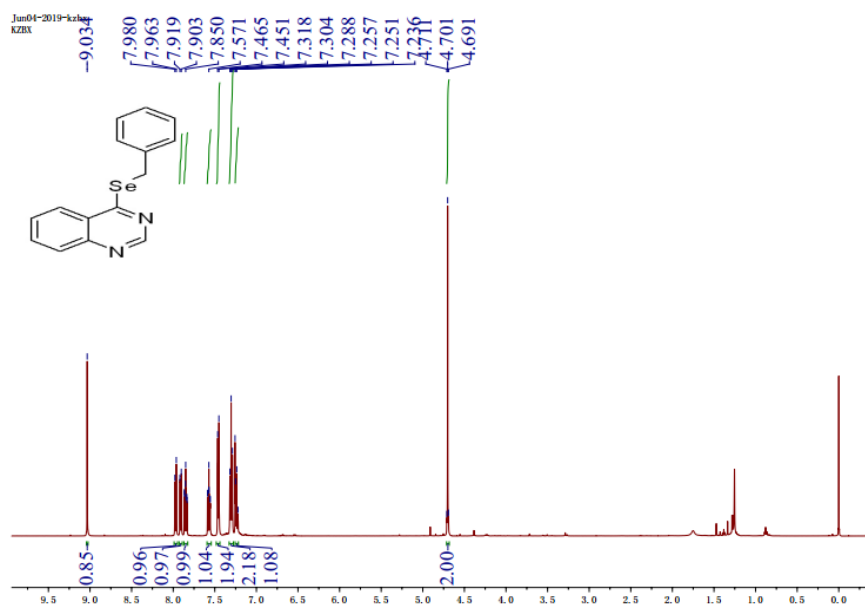


Figure S2-1 <sup>1</sup>H NMR of 4-benzylselenoquinazoline (G<sub>1</sub>)

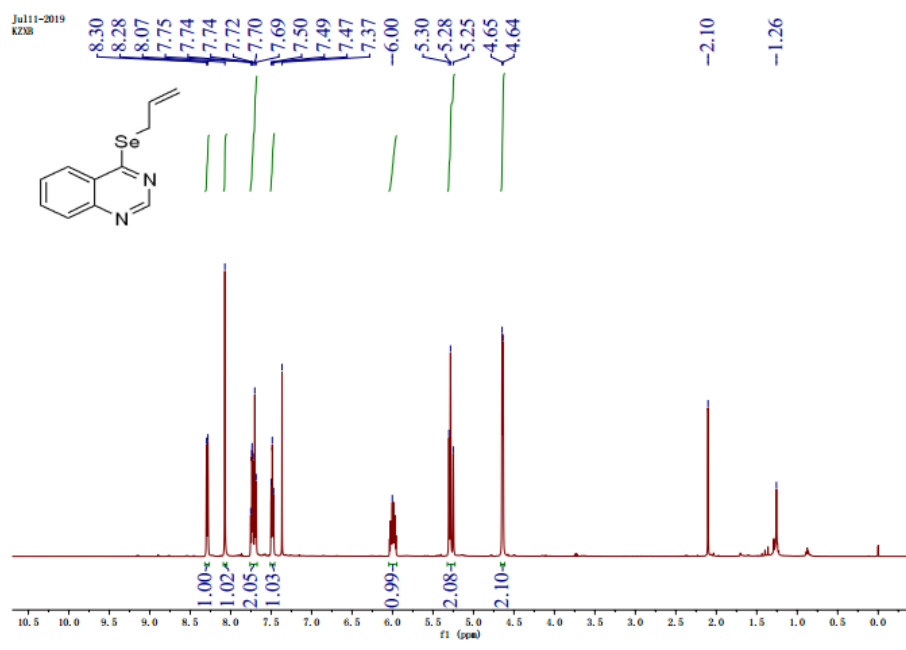


Figure S2-2 <sup>1</sup>H NMR of 4-allylselenoquinazoline (G<sub>2</sub>)

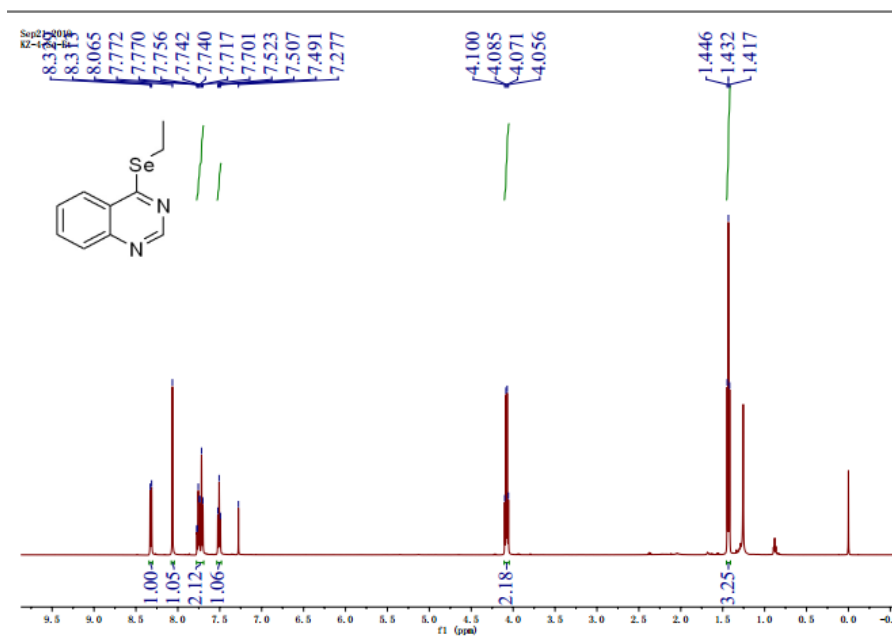


Figure S2-3  $^1H$  NMR of 4-ethylselenoquinazoline ( $G_3$ )

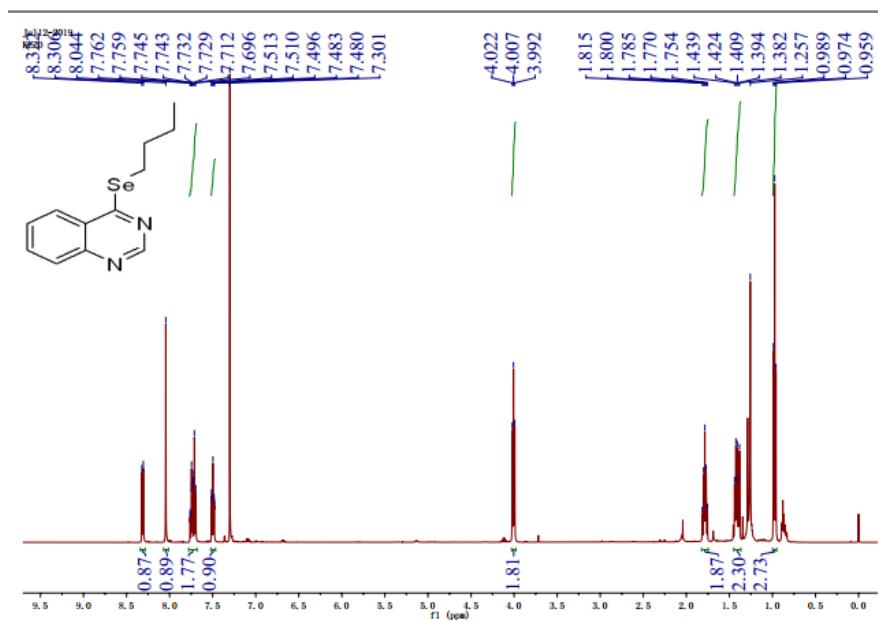


Figure S2-4  $^1H$  NMR of 4-butylselenoquinazoline ( $G_4$ )

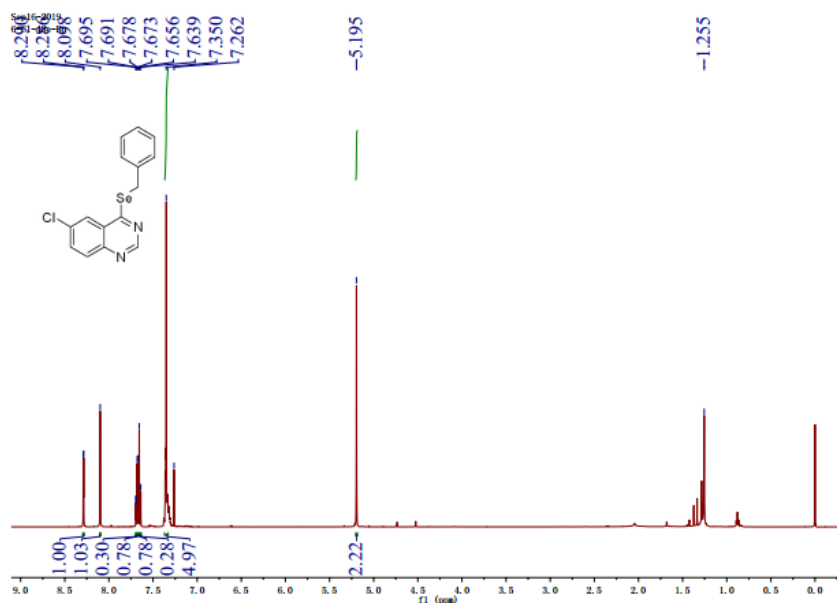


Figure S2-5 <sup>1</sup>H NMR of 6-chloro-4-benzylselenoquinazoline (**G<sub>5</sub>**)

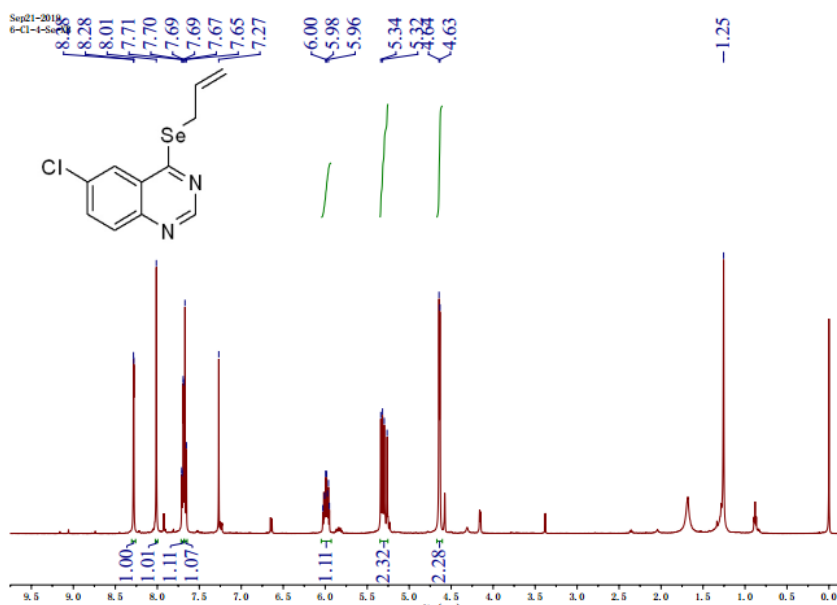


Figure S2-6 <sup>1</sup>H NMR of 6-chloro-4-allylselenoquinazoline (**G<sub>6</sub>**)

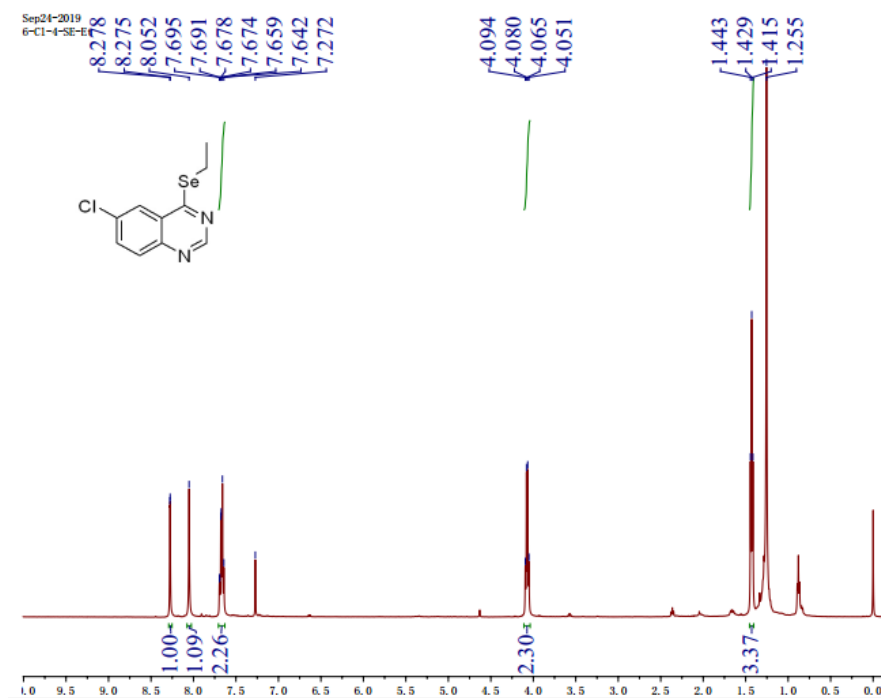


Figure S2-7  $^1\text{H}$  NMR of 6-chloro-4-ethylselenoquinazoline (**G<sub>7</sub>**)

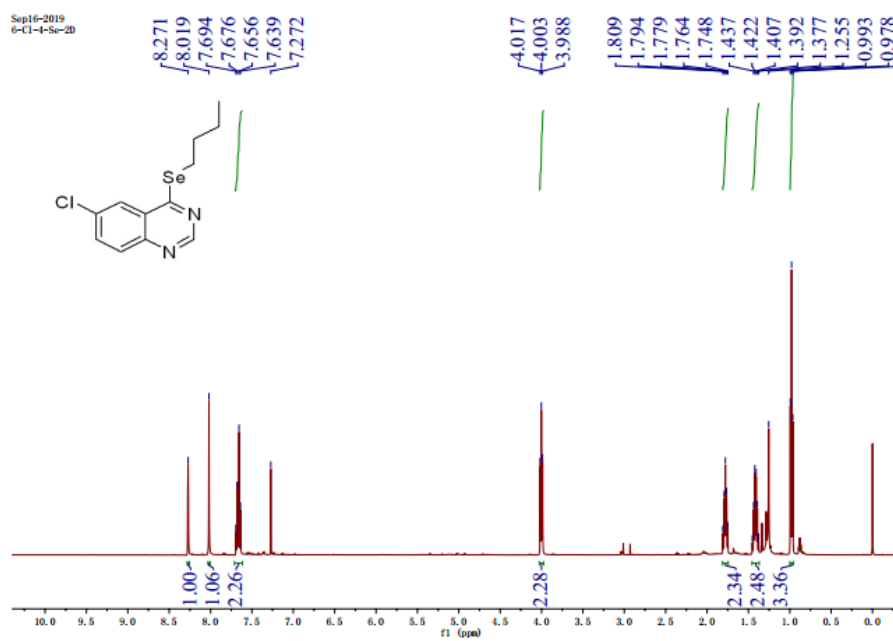


Figure S2-8  $^1\text{H}$  NMR of 6-chloro-4-butylselenoquinazoline (**G<sub>8</sub>**)

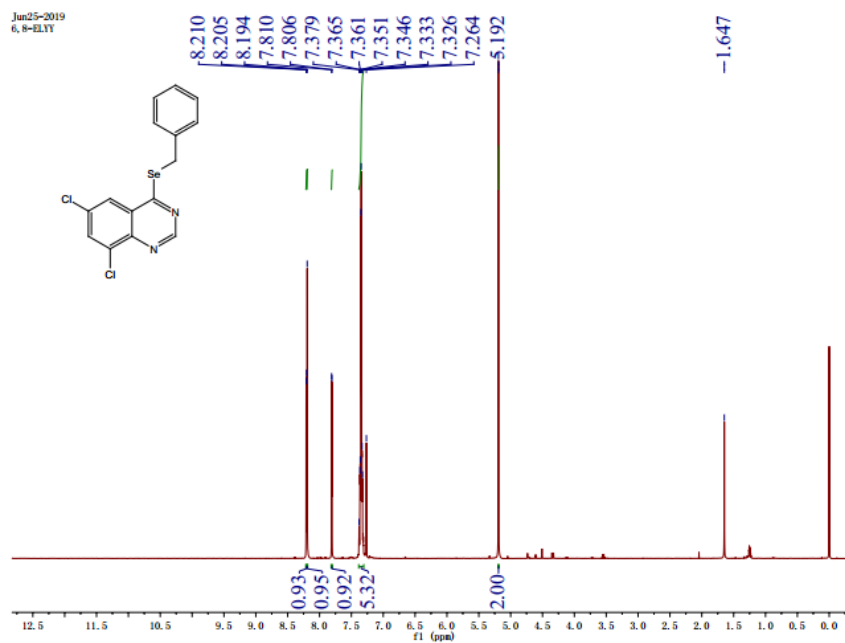


Figure S2-9 <sup>1</sup>H NMR of 6,8-dichloro-4-benzylselenoquinazoline (G<sub>9</sub>)

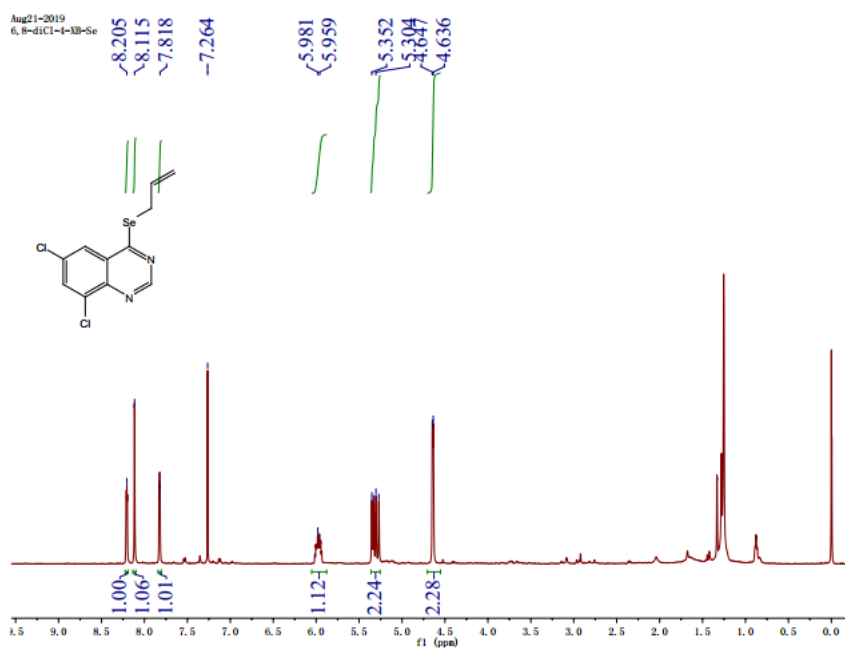


Figure S2-10 <sup>1</sup>H NMR of 6,8-dichloro-4-allylselenoquinazoline (G<sub>10</sub>)

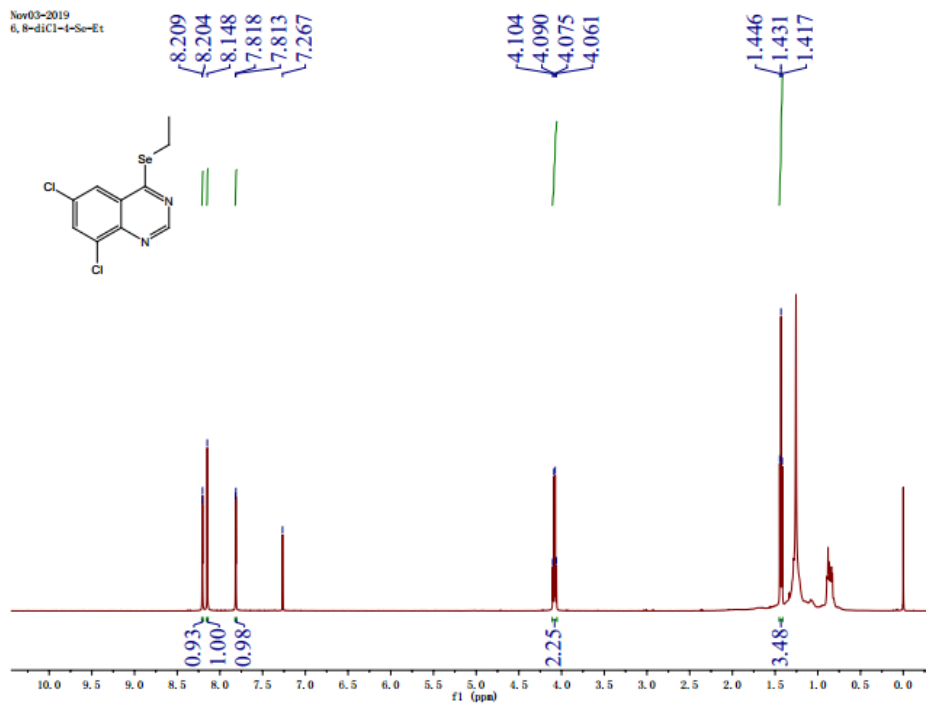


Figure S2-11 <sup>1</sup>H NMR of 6,8-dichloro-4-ethylselenoquinazoline (G<sub>11</sub>)

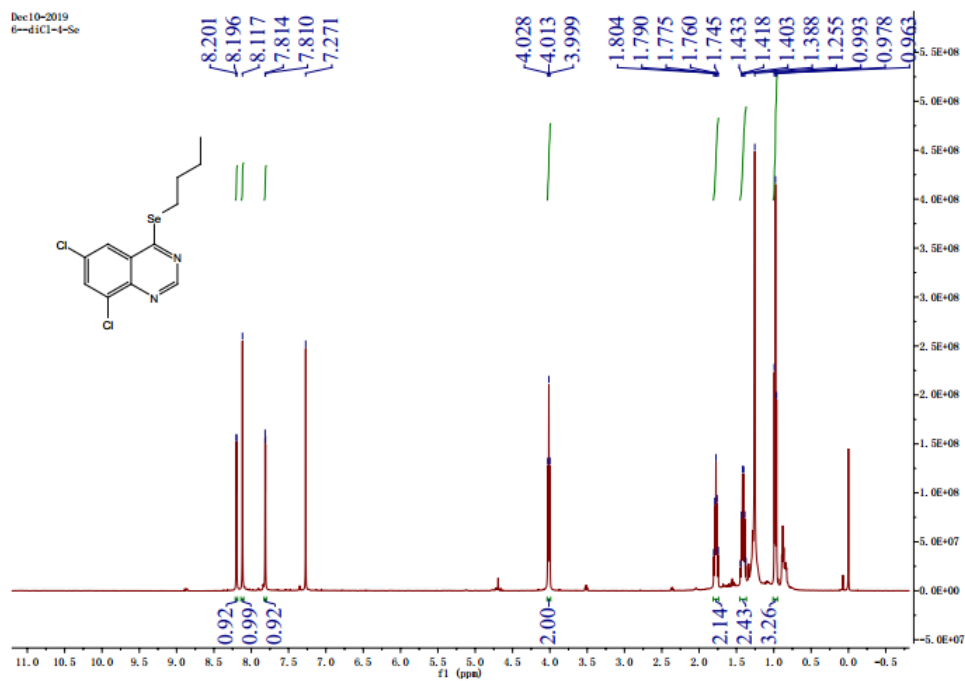


Figure S2-12 <sup>1</sup>H NMR of 6,8-dichloro-4-butylselenoquinazoline (G<sub>12</sub>)

### $^{13}\text{C}$ NMR of title compounds

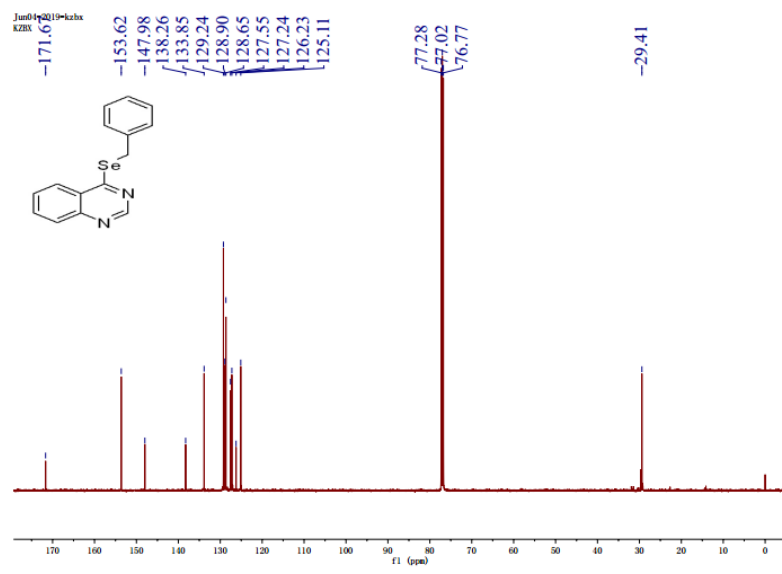


Figure S3-1  $^{13}\text{C}$  NMR of 4-benzylselenoquinazoline (**G<sub>1</sub>**)

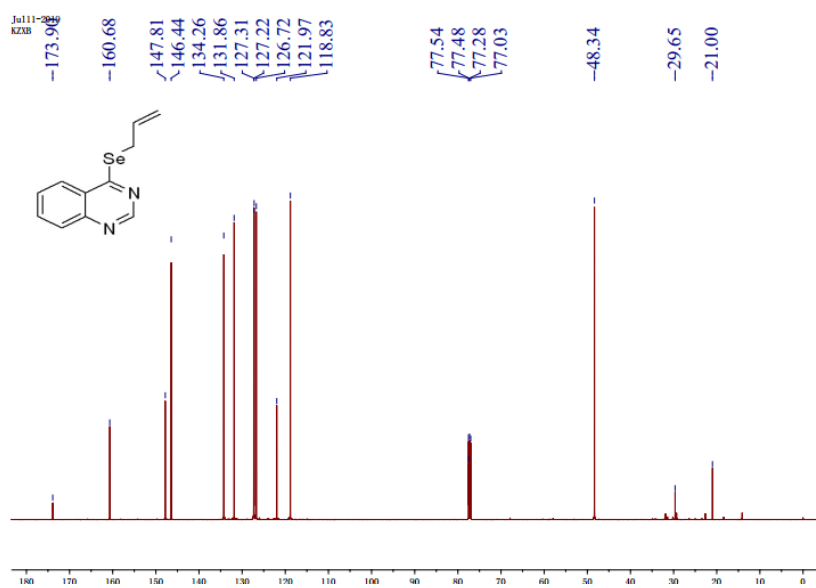
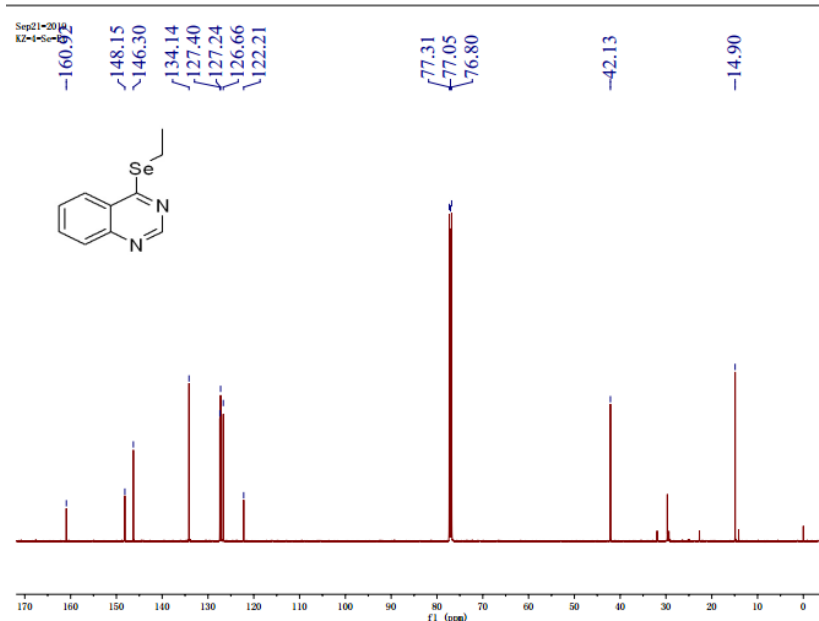
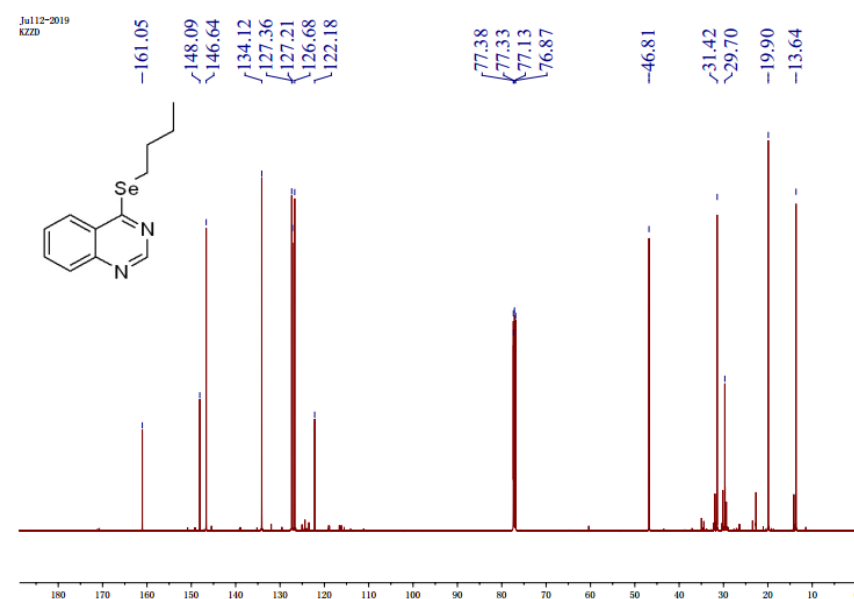


Figure S3-2  $^{13}\text{C}$  NMR of 4-allylselenoquinazoline (**G<sub>2</sub>**)



**Figure S3-3**  $^{13}\text{C}$  NMR of 4-ethylselenoquinazoline (**G<sub>3</sub>**)



**Figure S3-4**  $^{13}\text{C}$  NMR of 4-butylselenoquinazoline (**G<sub>4</sub>**)

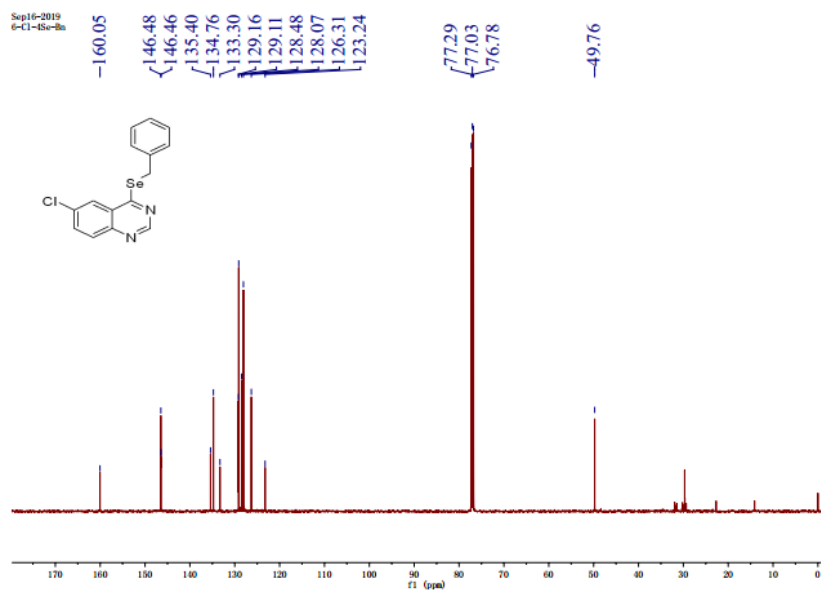


Figure S3-5  $^{13}\text{C}$  NMR of 6-chloro-4-benzylselenoquinazoline ( $\text{G}_5$ )

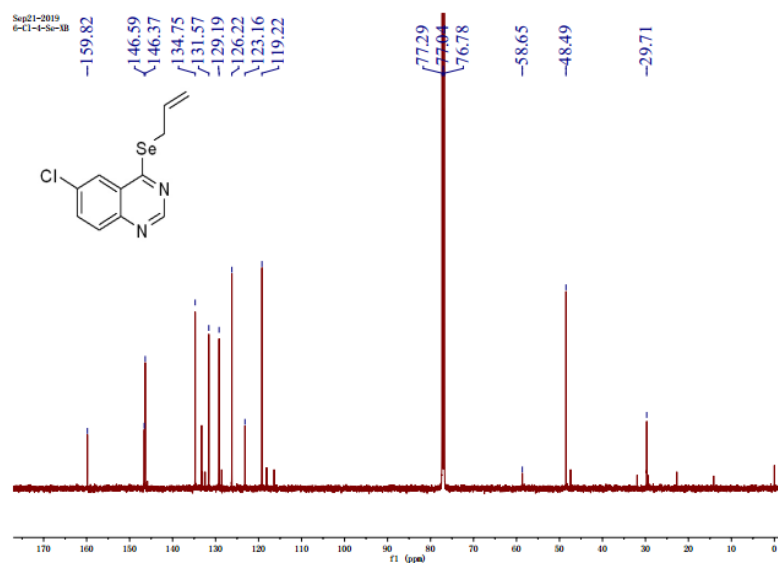


Figure S3-6  $^{13}\text{C}$  NMR of 6-chloro-4-allylselenoquinazoline ( $\text{G}_6$ )

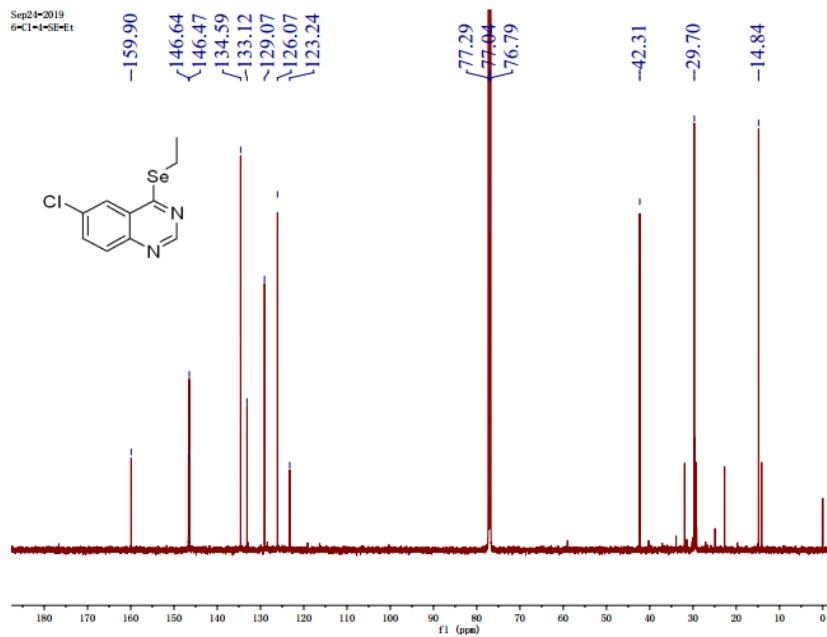


Figure S3-7  $^{13}\text{C}$  NMR of 6-chloro-4-ethylselenoquinazoline ( $\text{G}_7$ )

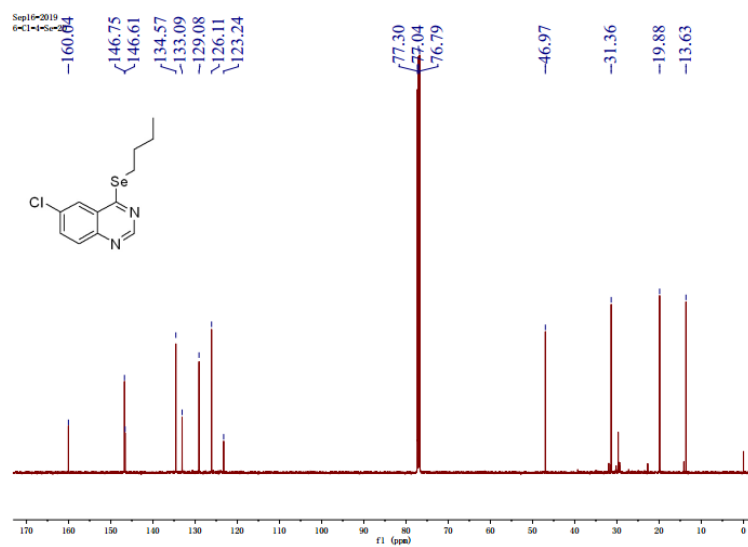


Figure S3-8  $^{13}\text{C}$  NMR of 6-chloro-4-butylselenoquinazoline ( $\text{G}_8$ )

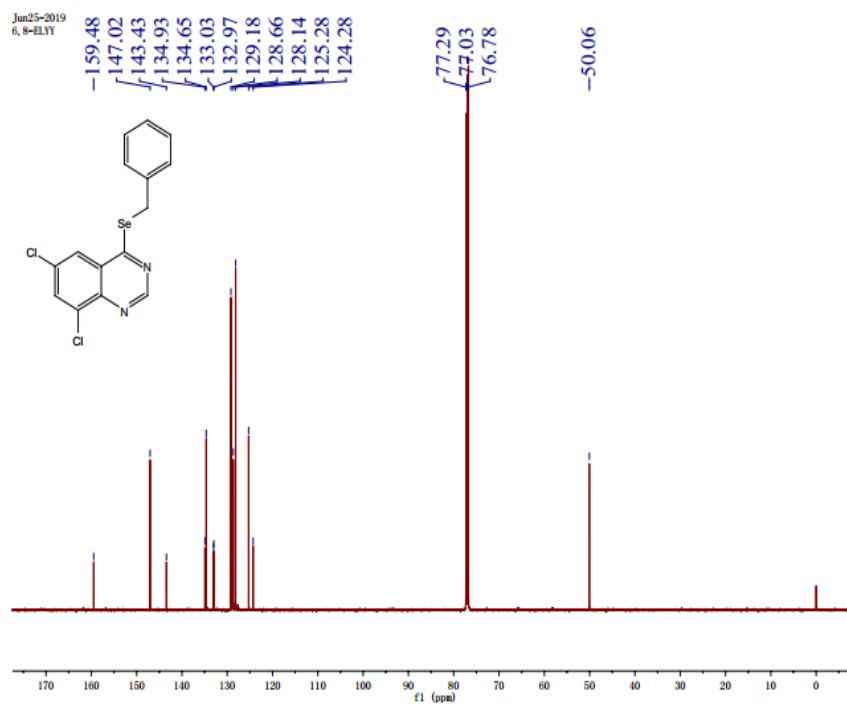


Figure S3-9 <sup>13</sup>C NMR of 6,8-dichloro-4-benzylselenoquinazoline (G<sub>9</sub>)

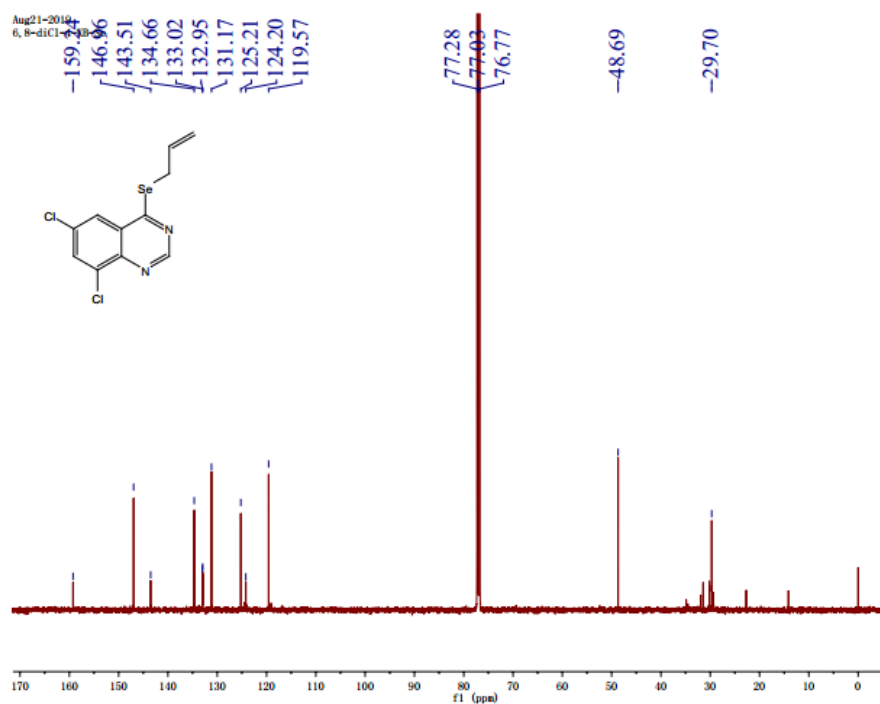


Figure S3-10 <sup>13</sup>C NMR of 6,8-dichloro-4-allylselenoquinazoline (G<sub>10</sub>)

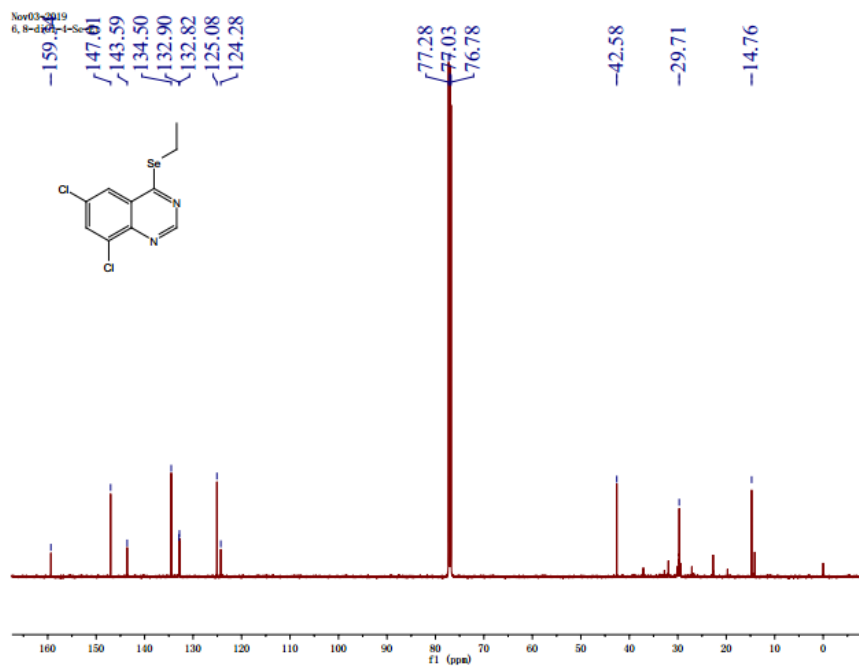


Figure S3-11  $^{13}\text{C}$  NMR of 6,8-dichloro-4-ethylselenoquinazoline ( $\text{G}_{11}$ )

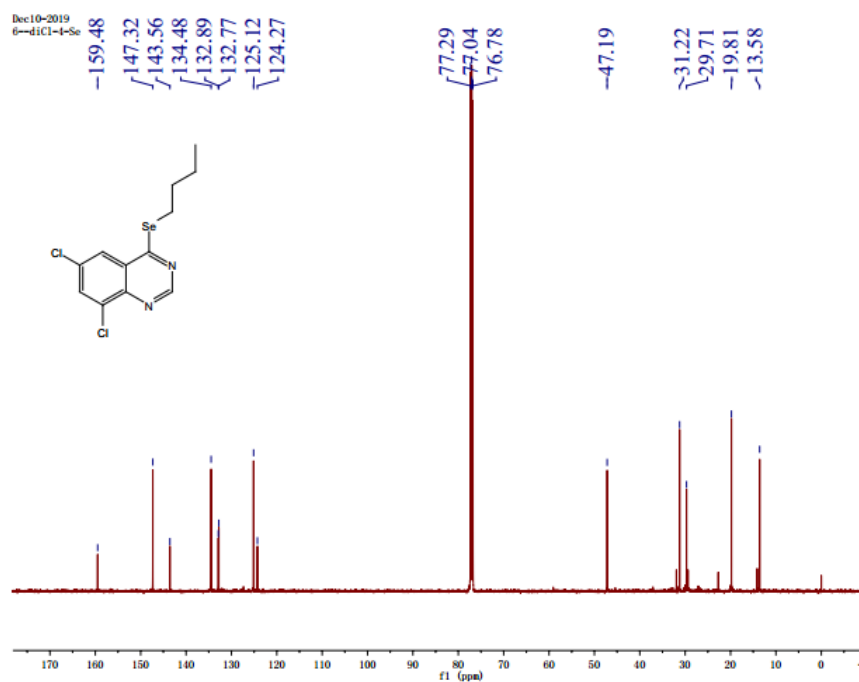


Figure S3-12  $^{13}\text{C}$  NMR of 6,8-dichloro-4-butylselenoquinazoline ( $\text{G}_{12}$ )