

3.High-performance liquid chromatogram of NO-type porphyrin-ferulic acid derivatives

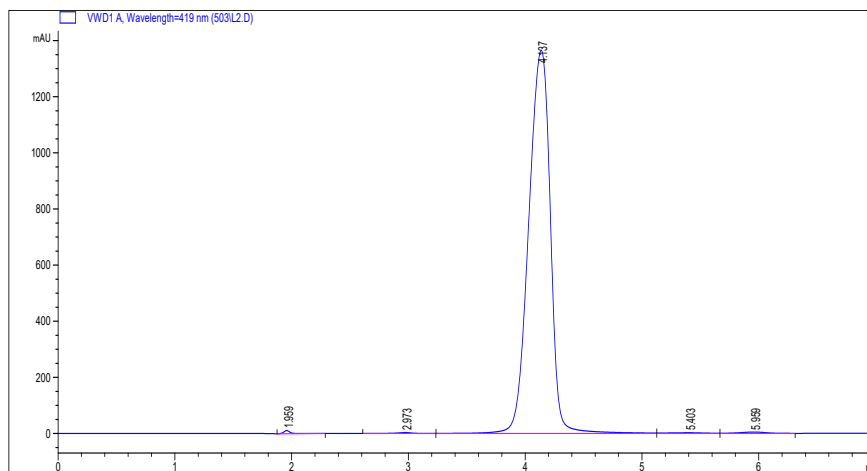


Figure 3.1. High-performance liquid chromatogram of compound 6a

Table 1. High performance liquid chromatography data of compound 6a

Peak	Retention time (Min)	Peak area (mAU*s)	Peak area (%)
1	1.959	46.88355	0.2640
2	2.973	24.94990	0.1405
3	4.137	175660e4	98.9301
4	5.403	47.10899	0.2653
5	5.959	71.03392	0.4001

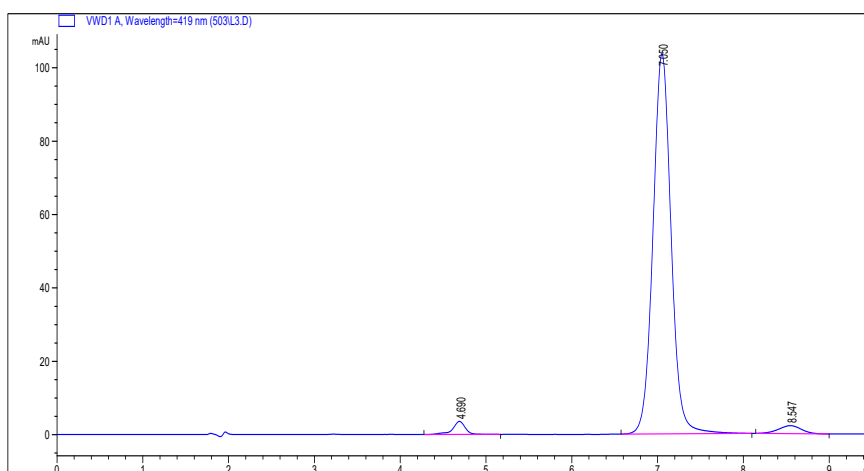


Figure 3.2. High-performance liquid chromatogram of compound 6b

Table 2. High performance liquid chromatography data of compound **6b**

Peak	Retention time (Min)	Peak area (mAU*s)	Peak area (%)
1	4.690	36.39994	2.2787
2	7.050	1520.90222	95.2091
3	8.547	40.13184	2.5123

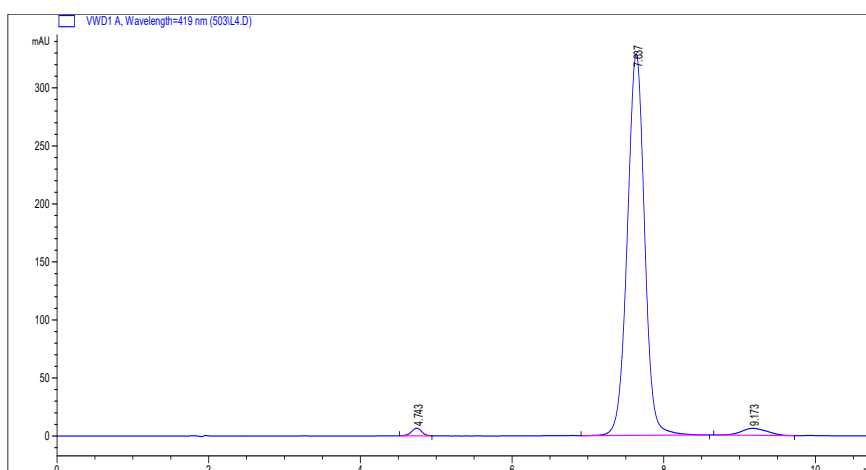


Figure 3.3. High-performance liquid chromatogram of compound **6c**

Table 3. High performance liquid chromatography data of compound **6c**

Peak	Retention time (Min)	Peak area (mAU*s)	Peak area (%)
1	4.743	64.42660	1.1943
2	7.637	5190.83398	96.2208
3	9.173	5.88305	2.5849

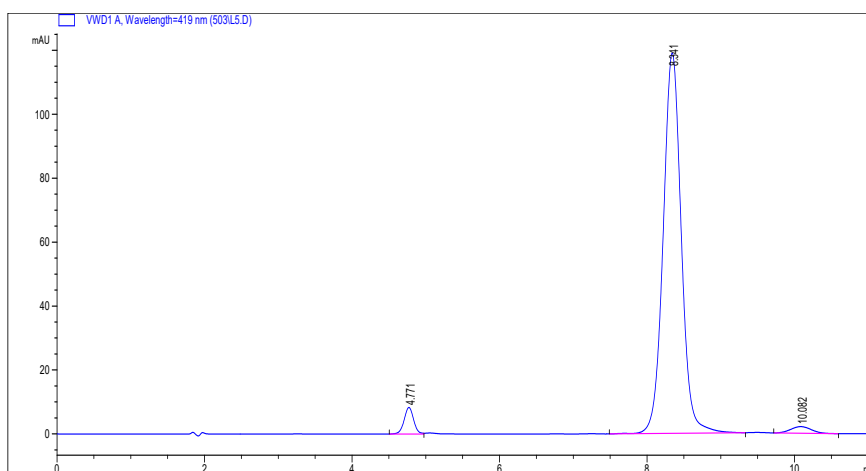


Figure 3.4. High-performance liquid chromatogram of compound **6d**

Table 4. High performance liquid chromatography data of compound **6d**

Peak	Retention time (Min)	Peak area (mAU*s)	Peak area (%)
1	4.771	8.29960	3.4767
2	8.341	119.01857	94.6388
3	10.082	2.07505	1.8845

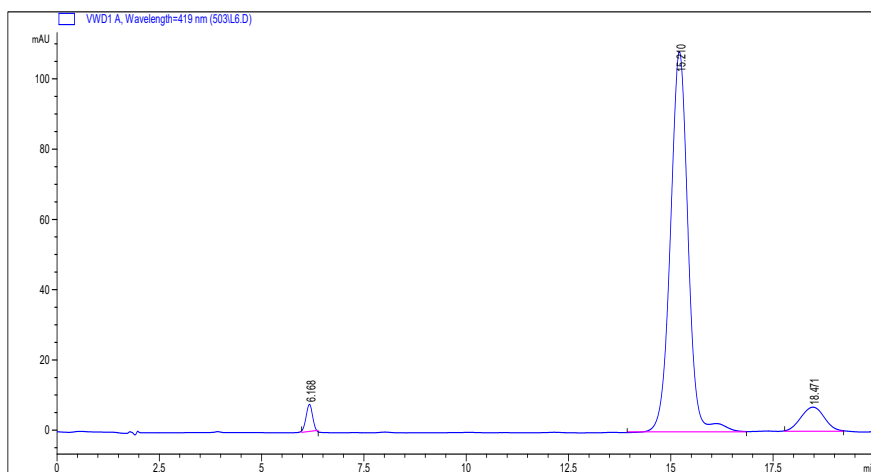


Figure 3.5. High-performance liquid chromatogram of compound **6e**

Table 5. High performance liquid chromatography data of compound **6e**

Peak	Retention time (Min)	Peak area (mAU*s)	Peak area (%)
1	6.168	83.83640	2.3280
2	15.210	3241.33301	90.0061
3	18.471	276.06702	7.6659

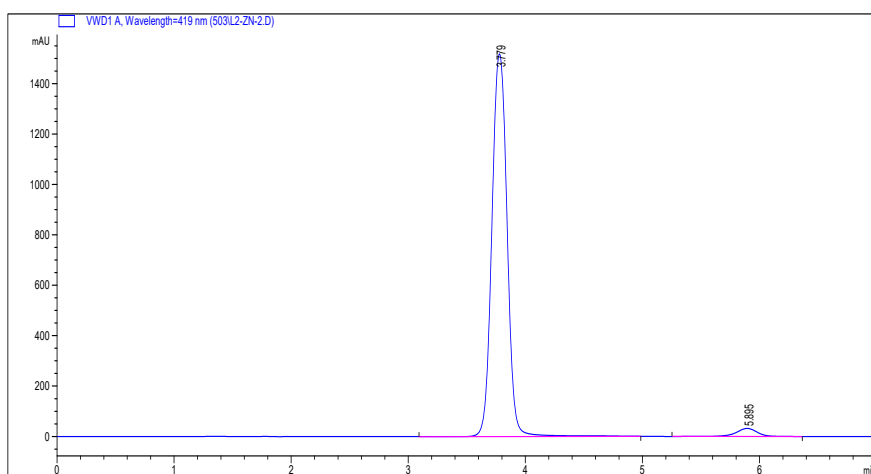


Figure 3.6. High-performance liquid chromatogram of compound **7a**

Table 6. High performance liquid chromatography data of compound **7a**

Peak	Retention time (Min)	Peak area (mAU*s)	Peak area (%)
1	3.779	1.36623e4	96.7486
2	4.591	60.96805	0.4317
3	5.895	398.17108	2.8196

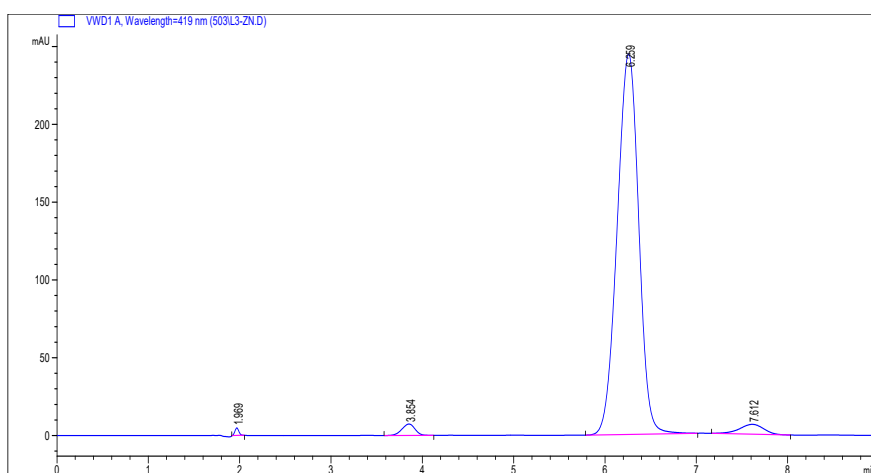


Figure 3.7. High-performance liquid chromatogram of compound **7b**

Table 7. High performance liquid chromatography data of compound **7b**

Peak	Retention time (Min)	Peak area (mAU*s)	Peak area (%)
1	1.969	14.16966	0.3373
2	3.854	72.54426	1.7271
3	6.259	3997.24951	95.1650
4	7.612	116.37311	2.7706

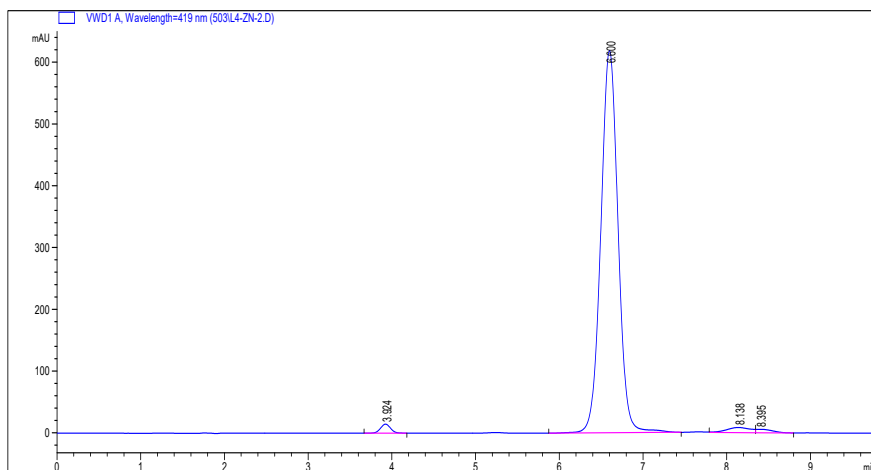


Figure 3.8. High-performance liquid chromatogram of compound **7c**

Table 8. High performance liquid chromatography data of compound **7c**

Peak	Retention time (Min)	Peak area (mAU*s)	Peak area (%)
1	3.924	120.78991	1.3138
2	6.600	8835.60254	96.1042
3	8.138	164.59253	1.7903
4	8.395	72.78889	0.7917

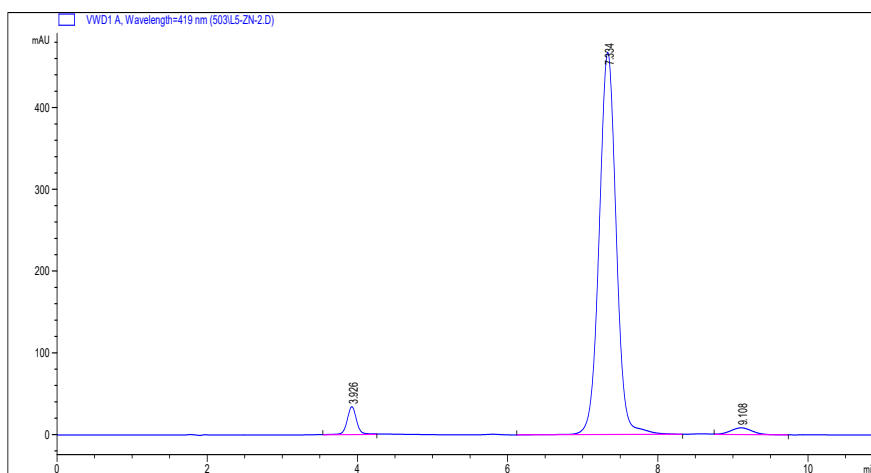


Figure 3.9. High-performance liquid chromatogram of compound **7d**

Table 9. High performance liquid chromatography data of compound **7d**

Peak	Retention time (Min)	Peak area (mAU*s)	Peak area (%)
1	3.926	297.96017	3.8150
2	7.334	7348.48584	94.0876
3	9.108	163.88190	2.0974

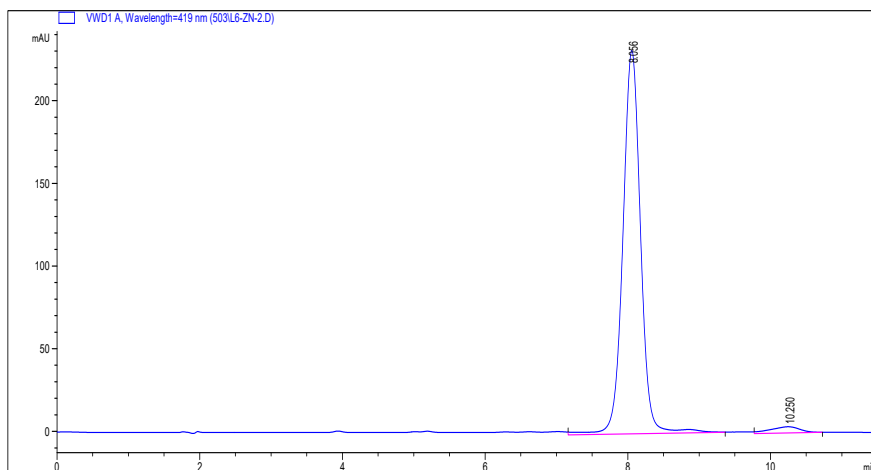


Figure 3.10. High-performance liquid chromatogram of compound **7e**

Table 10. High performance liquid chromatography data of compound **7e**

Peak	Retention time (Min)	Peak area (mAU*s)	Peak area (%)
1	8.056	4002.72437	97.3168
2	10.250	110.36194	2.6832

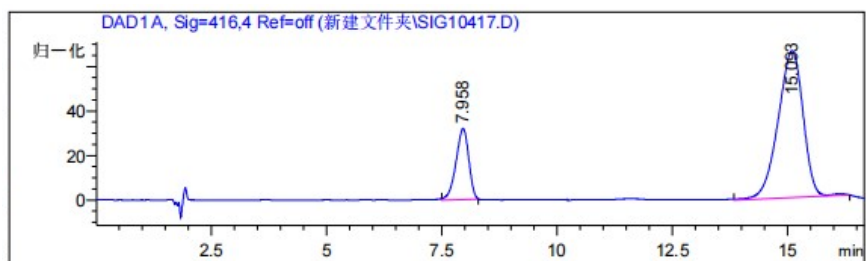


Figure 3.11. High-performance liquid chromatogram of compound **8a**

Table 11. High performance liquid chromatography data of compound **8a**

Peak	Retention time (Min)	Peak area (mAU*s)	Peak area (%)
1	7.958	406.17072	13.06578
2	15.093	2702.48926	86.93422

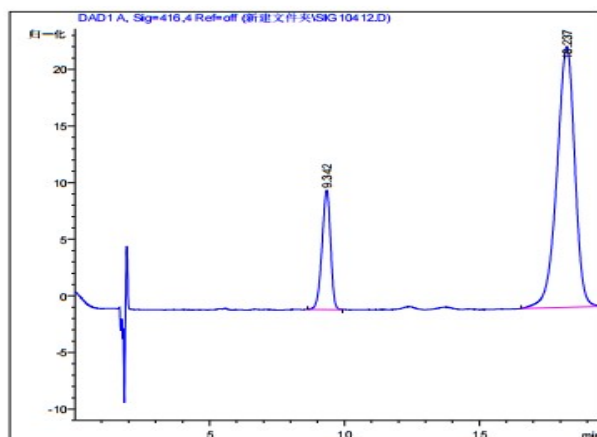


Figure 3.12. High-performance liquid chromatogram of compound **8b**

Table 12. High performance liquid chromatography data of compound **8b**

Peak	Retention time (Min)	Peak area (mAU*s)	Peak area (%)
1	9.342	232.07741	17.9426
2	18.237	1061.36877	82.0574

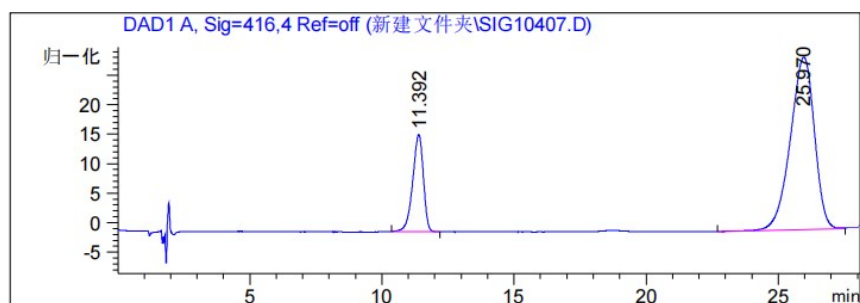


Figure 3.13. High-performance liquid chromatogram of compound **8c**

Table 13. High performance liquid chromatography data of compound **8c**

Peak	Retention time (Min)	Peak area (mAU*s)	Peak area (%)
1	11.392	362.39548	15.5781
2	25.970	1963.91809	84.4219

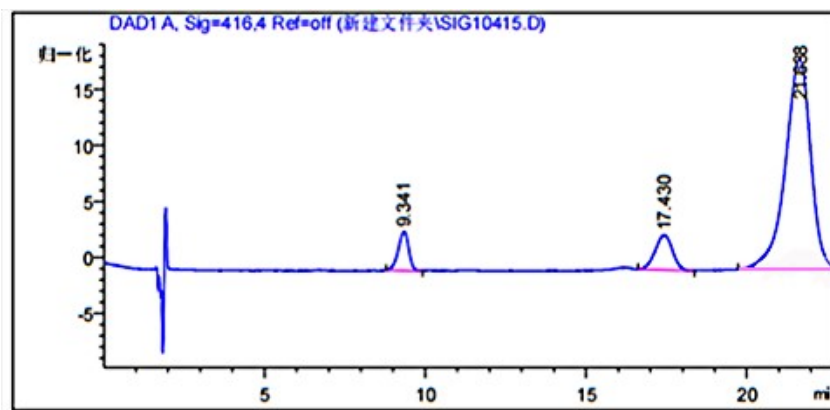


Figure 3.14. High-performance liquid chromatogram of compound **8d**

Table 14. High performance liquid chromatography data of compound **8d**

Peak	Retention time (Min)	Peak area (mAU*s)	Peak area (%)
1	9.341	57.10609	4.9686
2	17.430	105.72075	9.1986
3	21.638	986.48969	85.8327

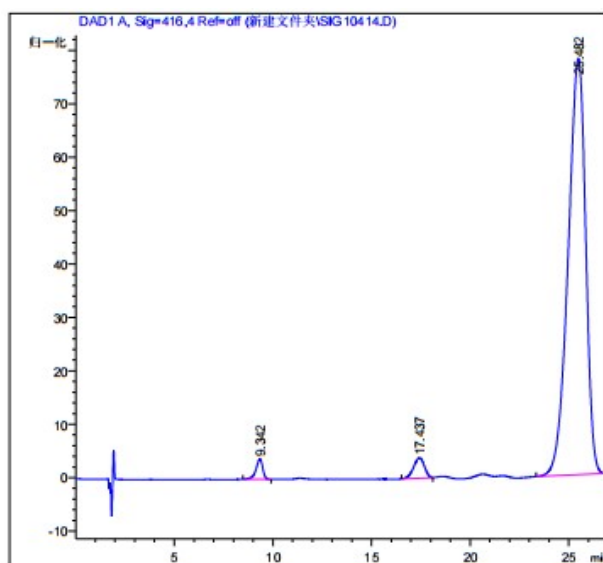


Figure 3.15. High-performance liquid chromatogram of compound **8e**

Table 15. High performance liquid chromatography data of compound **8e**

Peak	Retention time (Min)	Peak area (mAU*s)	Peak area (%)
1	9.342	90.35577	1.7963
2	17.437	144.80939	2.8789
3	25.482	4794.83984	95.3248