

Organocatalytic Regioselective Asymmetric Michael Addition of Azlactones to *o*-Hydroxy Chalcone Derivatives

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1: The Relative Configuration Determination:

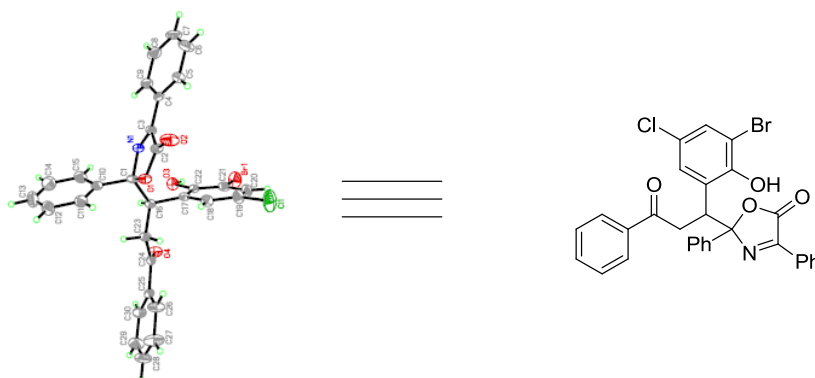


Figure S4. X-ray structure of compound *rac*-5a.

X-ray data of racemic *rac*-5a

Empirical formula	C ₃₀ H ₂₁ BrClNO ₄	
Formula weight	574.84	
Temperature	192(2) K	
Wavelength	0.71073 Å	
Crystal system, space group	Triclinic, P -1	
Unit cell dimensions	a = 9.2824(5) Å	alpha = 109.870(3) deg.
	b = 10.8659(6) Å	beta = 103.464(2) deg.
	c = 14.2839(7) Å	gamma = 98.966(3) deg.
Volume	1273.46(12) Å ³	
Z, Calculated density	2, 1.499 Mg/m ³	
Absorption coefficient	1.757 mm ⁻¹	
F(000)	584	
Crystal size	0.50 x 0.20 x 0.08 mm	
Theta range for data collection	2.33 to 25.50 deg.	
Limiting indices	-11<=h<=11, -13<=k<=13, -17<=l<=17	
Reflections collected / unique	41502 / 4739 [R(int) = 0.1021]	
Completeness to theta = 25.50	99.9 %	
Absorption correction	Semi-empirical from equivalents	
Max. and min. transmission	0.8722 and 0.4737	

Refinement method	Full-matrix least-squares on F^2
Data / restraints / parameters	4739 / 0 / 338
Goodness-of-fit on F^2	1.031
Final R indices [$I > 2\sigma(I)$]	R1 = 0.0460, wR2 = 0.1069
R indices (all data)	R1 = 0.0717, wR2 = 0.1150
Largest diff. peak and hole	0.783 and -0.578 e. \AA^{-3}

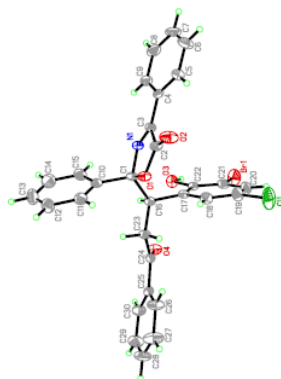


Figure S5. ORTEP drawing of *rac-5a*

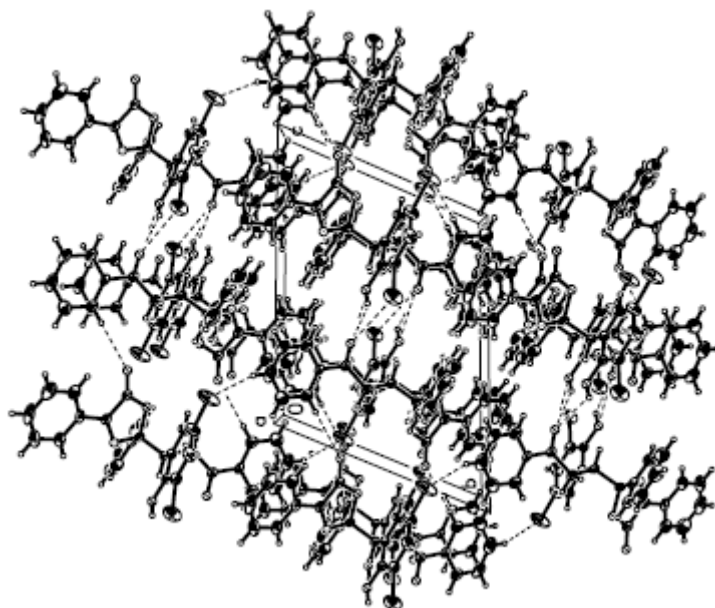


Figure S6. Packing of molecules in a unit cell for *rac-5a*

The crystal was prepared from the solvent CDCl_3 . CCDC 1032990 contains the supplementary crystallographic data for this paper. These data can be obtained free of charge from The Cambridge Crystallographic Data Centre via www.ccdc.cam.ac.uk/services/structure_deposit/.

2. Datas of TS-aa and TS-bb

TS-aa (1S, 2R):

C	0	4.704734	-5.408210	3.152034 L	
C	0	3.585392	-5.099818	3.886776 L	
C	0	2.570510	-4.260299	3.367964 L	
C	0	2.719539	-3.737109	2.036640 L	
C	0	3.893028	-4.049804	1.311431 L	
C	0	4.868413	-4.870767	1.850324 L	
N	0	1.490473	-3.978750	4.167059 L H	12
C	0	0.547476	-3.186127	3.676783 L H	91
C	0	0.582776	-2.648098	2.367182 L H	12
C	0	1.648978	-2.922396	1.535707 L	
C	0	1.647646	-2.380581	0.100984 L H	12
N	0	1.560762	-0.920646	0.060914 H	
C	0	2.536272	-0.117651	-0.465653 H	
S	0	4.086092	-0.681318	-0.833942 H	
C	0	0.459716	-3.028450	-0.656750 L H	20
C	0	0.693763	-4.549279	-0.878265 L H	20
C	0	0.472842	-4.892324	-2.364721 L H	20
C	0	-0.955548	-4.453116	-2.800571 L	
C	0	-1.048777	-2.909467	-2.637267 L H	20
N	0	0.237211	-2.366810	-2.023404 H	
C	0	1.392491	-2.602624	-2.969444 L H	20
C	0	1.522432	-4.135081	-3.216979 L	
N	0	2.068332	1.156164	-0.663600 H	
C	0	2.714228	2.391494	-0.831586 H	
C	0	4.071879	2.567058	-1.139468 H	
C	0	4.588404	3.858717	-1.248639 H	
C	0	3.792913	4.987791	-1.057665 H	
C	0	2.443265	4.802937	-0.760967 H	
C	0	1.902933	3.524336	-0.657356 H	
C	0	6.030506	4.038810	-1.651001 H	
F	0	6.549656	5.180901	-1.145883 H	
C	0	1.555843	5.981933	-0.471887 H	
F	0	0.351886	5.874762	-1.065814 H	
F	0	6.806433	3.018892	-1.233015 H	
F	0	6.160901	4.111109	-2.996679 H	
F	0	1.303605	6.095469	0.874384 H	
F	0	2.104771	7.149025	-0.852286 H	
H	0	1.714552	-4.819016	-0.587212 L	
H	0	2.584981	-2.641412	-0.386493 L	
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H	0	0.575926	-5.970444	-2.516592 L	

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H	0	1.370085	-4.358859	-4.278001	L H	20
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H	0	-0.480651	-2.844471	-0.131221	L	
C	0	-2.037131	-5.151446	-1.995246	L	
H	0	0.623358	-0.527109	0.126132	H	
H	0	-1.074444	-4.712954	-3.859390	L	
H	0	1.154413	-2.057918	-3.886015	L	
H	0	1.048466	1.217094	-0.661935	H	
H	0	-1.844983	-2.623187	-1.949923	L	
H	0	-1.179028	-2.389665	-3.586918	L	
H	0	-0.293248	-2.955620	4.322591	L	
H	0	-0.244898	-2.031506	2.037339	L	
H	0	4.708048	1.704968	-1.279762	H	
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H	0	0.856784	3.403885	-0.394920	H	
H	0	4.100501	-3.610186	0.345915	L	
O	0	5.971721	-5.109284	1.049799	L	
H	0	3.440991	-5.481620	4.889062	L	
H	0	5.463391	-6.051178	3.576722	L	
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C	0	7.077078	-5.891556	1.596064	L	
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H	0	-2.291605	-4.687213	-1.043980	L	
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H	0	-5.062040	-0.685663	-4.684188	H	
C	0	-2.276034	0.251581	-2.957535	H	
H	0	-0.335878	0.550257	-3.833720	H	
H	0	-4.323197	-0.138680	-2.393905	H	
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O	0	-0.577776	0.193230	-1.296434	H	
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H	0	-1.137393	1.698082	0.755418	H	

C	0	-2.746776	3.121970	1.005340 H
C	0	-2.747468	0.407523	1.965466 H
C	0	-4.119970	3.409688	0.977493 H
C	0	-1.874430	4.136225	1.452501 H
N	0	-4.070737	0.264678	1.708680 H
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C	0	-4.616681	4.649517	1.371385 H
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C	0	-0.899511	0.788208	3.627258 H
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C	0	-5.621551	-2.225138	-0.599446 H
C	0	-1.321117	1.996556	5.681676 H
H	0	0.594906	1.182684	5.117463 H
H	0	-3.346864	2.682649	5.957877 H
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H	0	-6.571660	0.439212	1.288557 H
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H	0	-8.776815	-0.166607	0.325632 H
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H	0	-8.966687	-2.096946	-1.233329 H
H	0	-3.551995	1.652916	-1.134611 H
H	0	-3.446012	-0.616658	-6.573176 H
H	0	-5.684859	4.840398	1.344743 H
H	0	-0.035104	4.665910	1.663809 H

TS-bb (1R, 2S):

C	0	1.917788	6.925867	-2.609242 L
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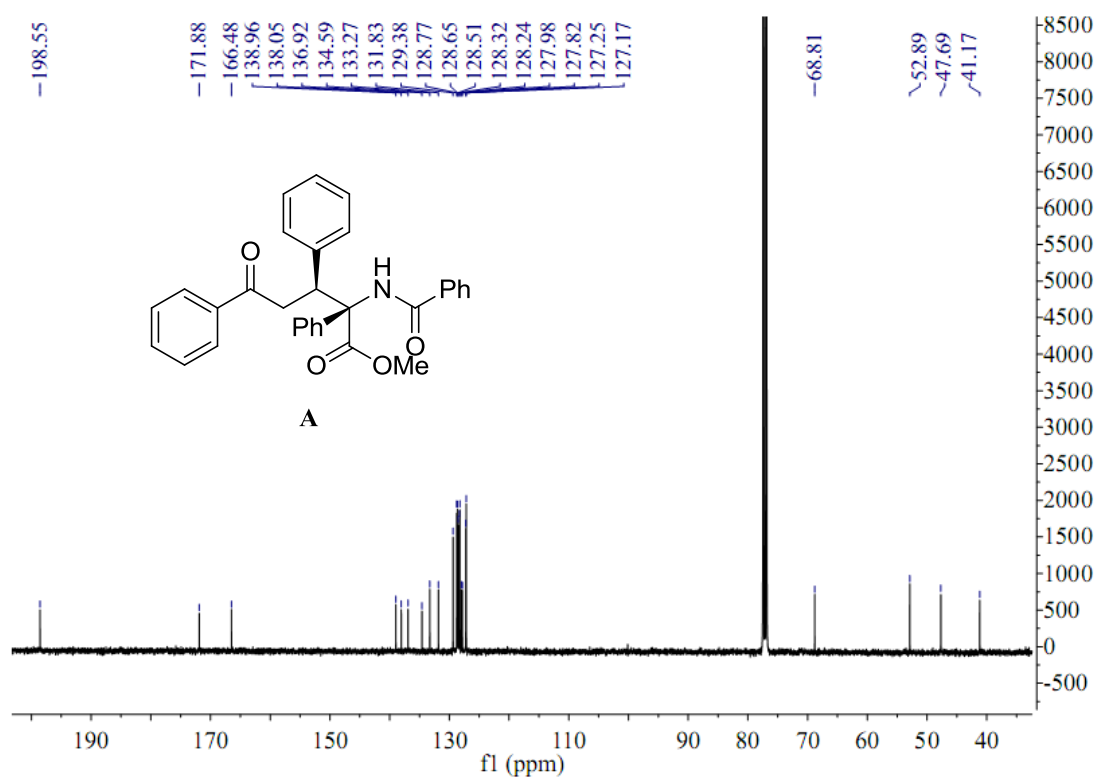
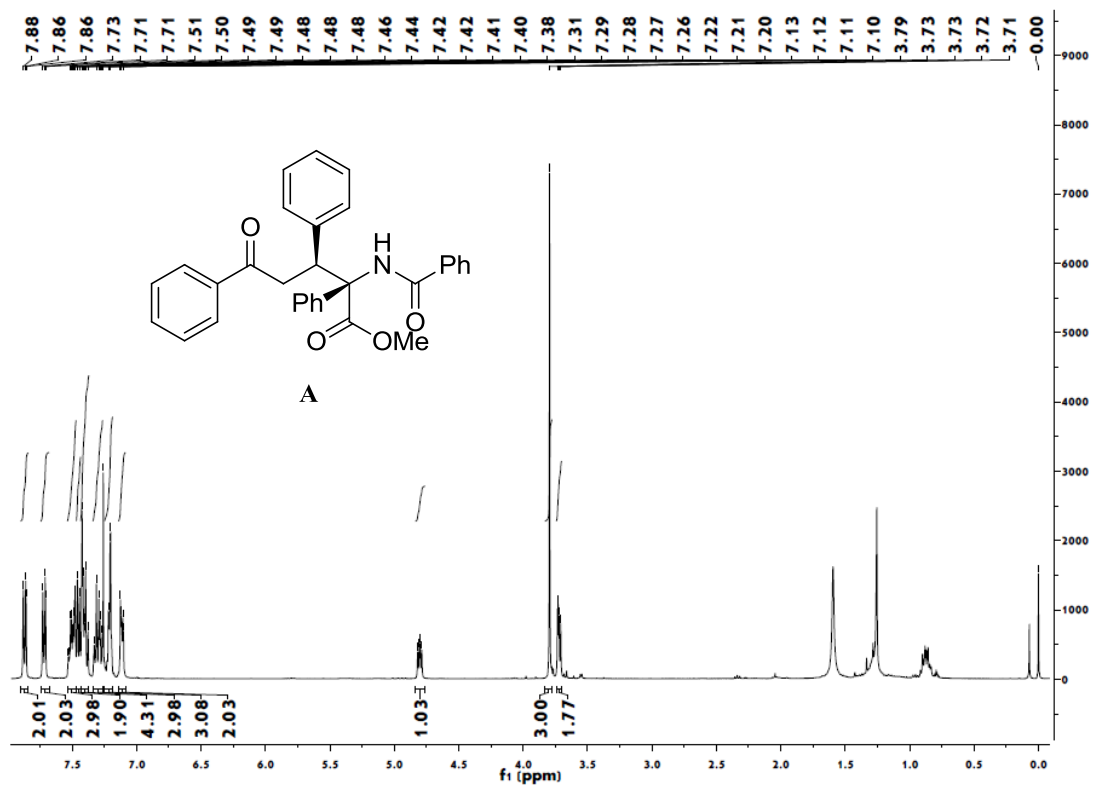
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C	0	1.879481	5.219348	-0.883306 L	
C	0	2.406716	6.396081	-1.388380 L	
N	0	-0.603063	4.448653	-3.562981 L H	12
C	0	-1.115482	3.314253	-3.107251 L H	87
C	0	-0.732131	2.723401	-1.878358 L H	12
C	0	0.231095	3.321928	-1.092158 L	
C	0	0.583599	2.715562	0.273486 L H	12
N	0	1.062309	1.339308	0.152398 H	
C	0	2.366519	0.973216	0.334939 H	
S	0	3.527095	1.984451	1.044815 H	
C	0	-0.681634	2.799001	1.168265 L H	20
C	0	-1.099450	4.270062	1.457105 L H	20
C	0	-0.926493	4.564890	2.962783 L H	20
C	0	-1.942838	3.693702	3.766060 L	
C	0	-1.733822	2.221444	3.337206 L H	20
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C	0	0.702227	2.655398	3.279720 L H	20
C	0	0.511053	4.193767	3.401058 L H	20
N	0	2.584196	-0.314448	-0.069868 H	
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C	0	5.043792	-0.585735	-0.224484 H	
C	0	4.441229	-4.833074	-0.011259 H	
F	0	3.498406	-5.183578	0.892634 H	
C	0	7.523556	-0.891229	-0.378171 H	
F	0	7.538197	0.302118	-1.007326 H	
F	0	4.010525	-5.290324	-1.216038 H	
F	0	5.564094	-5.516929	0.287430 H	
F	0	8.075590	-0.703599	0.842431 H	
F	0	8.347894	-1.720758	-1.057279 H	
H	0	-0.476398	4.949855	0.869572 L H	20
H	0	1.396490	3.278662	0.726711 L	
H	0	1.235371	4.713847	2.765210 L	
H	0	-1.115970	5.624835	3.158012 L	
H	0	-2.142095	4.431090	1.170680 L	
H	0	0.682987	4.507862	4.435456 L	
H	0	1.625301	2.389863	2.759859 L H	20
H	0	-1.477904	2.213718	0.703244 L	

C	0	-3.357149	4.211366	3.584641 L
H	0	0.460029	0.675850	-0.344331 H
H	0	-1.688362	3.795881	4.830561 L
H	0	0.688023	2.164111	4.256271 L
H	0	1.751922	-0.808391	-0.388065 H
H	0	-2.526693	1.818057	2.712925 L
H	0	-1.607861	1.554795	4.192740 L
H	0	-1.878660	2.834298	-3.710803 L
H	0	-1.214180	1.800044	-1.579962 L
H	0	2.576552	-2.895055	0.183219 H
H	0	6.811772	-3.505294	-0.239623 H
H	0	5.194524	0.479757	-0.315679 H
H	0	2.333687	4.826174	0.015766 L
O	0	3.408361	6.984046	-0.638391 L
H	0	0.547962	6.638856	-4.240103 L
H	0	2.326336	7.844017	-3.008239 L
C	0	-4.391798	3.599736	3.010791 L
C	0	4.066632	8.179020	-1.161358 L
H	0	4.832150	8.419373	-0.423587 L
H	0	4.538252	7.988730	-2.132448 L
H	0	3.368303	9.019406	-1.253824 L
H	0	-4.341052	2.595630	2.602988 L
H	0	-5.356957	4.088884	2.935152 L
H	0	-3.497979	5.216192	3.981770 L
C	0	1.531724	-3.912864	3.295797 H
C	0	0.715240	-4.387815	2.267393 H
C	0	1.317146	-2.632819	3.811022 H
C	0	-0.307406	-3.590090	1.755739 H
H	0	0.885644	-5.374736	1.849175 H
C	0	0.303520	-1.832628	3.289387 H
H	0	1.943922	-2.257405	4.614854 H
C	0	-0.526615	-2.295897	2.256800 H
H	0	-0.916545	-3.966308	0.942171 H
H	0	0.132903	-0.839092	3.690988 H
C	0	-1.589114	-1.391862	1.706628 H
C	0	-2.747015	-1.956545	1.133203 H
O	0	-1.413682	-0.129001	1.809958 H
C	0	-3.817412	-1.153184	0.639739 H
H	0	-3.699288	-0.099908	0.889119 H
C	0	-3.448976	-0.869271	-1.302517 H
C	0	-5.234491	-1.598083	0.775417 H
O	0	-2.186076	-0.233603	-1.208793 H
N	0	-3.261184	-2.144098	-1.771030 H
C	0	-4.527953	-0.004573	-1.838173 H

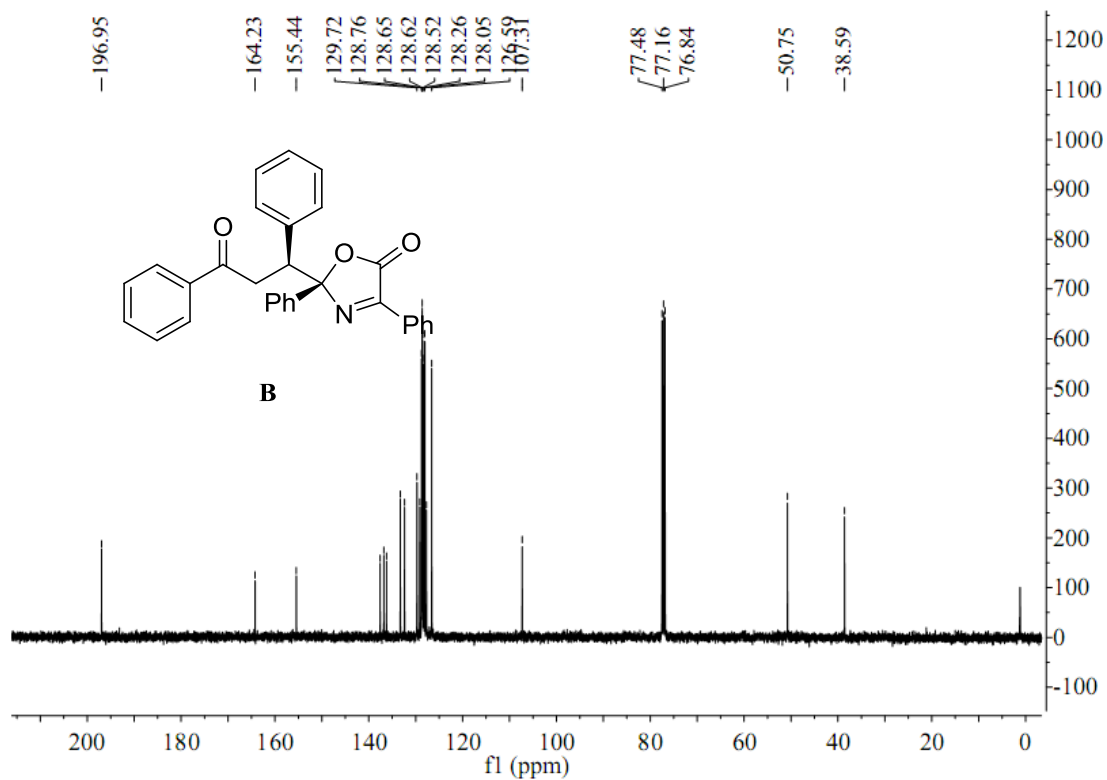
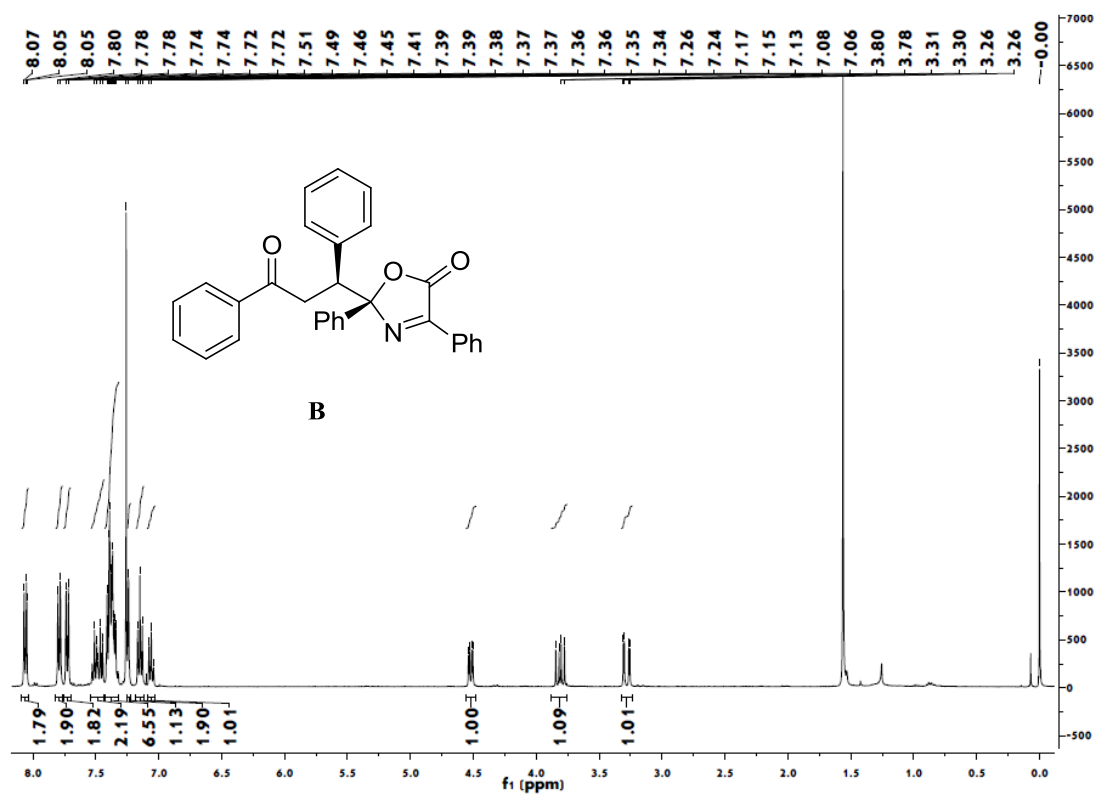
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C	0	-6.146107	-0.727193	1.395673	H
C	0	-1.238424	-1.210974	-1.320886	H
C	0	-1.969328	-2.425520	-1.688570	H
C	0	-5.585144	-0.569746	-2.566133	H
C	0	-4.531507	1.377457	-1.595143	H
C	0	-7.019311	-3.259098	0.683428	H
O	0	-4.929451	-3.771984	-0.280004	H
C	0	-7.454515	-1.105064	1.683383	H
H	0	-5.800027	0.263388	1.681395	H
O	0	-0.040053	-0.949895	-1.187804	H
C	0	-1.388832	-3.738240	-1.985581	H
C	0	-6.619020	0.232923	-3.043287	H
H	0	-5.583416	-1.635885	-2.761852	H
C	0	-5.563576	2.177208	-2.083397	H
H	0	-3.722768	1.831035	-1.031182	H
C	0	-7.885201	-2.387505	1.336916	H
H	0	-7.338116	-4.249586	0.375281	H
C	0	-2.222381	-4.820521	-2.327813	H
C	0	0.002086	-3.947435	-1.933331	H
C	0	-6.612282	1.608881	-2.808119	H
H	0	-7.429156	-0.219029	-3.607899	H
H	0	-5.546242	3.247373	-1.897852	L H
H	0	-8.900448	-2.703801	1.559044	H
C	0	-1.678006	-6.071605	-2.597368	H
H	0	-3.295416	-4.674467	-2.380307	H
C	0	0.540653	-5.205522	-2.198143	H
H	0	0.652990	-3.117049	-1.691763	H
H	0	-7.415664	2.233053	-3.187713	H
C	0	-0.296022	-6.271790	-2.529539	H
H	0	-2.335311	-6.895857	-2.858049	H
H	0	1.614612	-5.349691	-2.134396	H
H	0	0.123988	-7.251948	-2.735123	H
H	0	-4.308140	-3.283557	-0.870531	H
H	0	-0.421560	1.059781	2.287644	H
H	0	-2.873804	-3.030700	1.171868	H
H	0	-8.127083	-0.410504	2.177037	H
H	0	2.332612	-4.533319	3.686088	H

3. Copies of ^1H NMR and ^{13}C NMR Spectrums

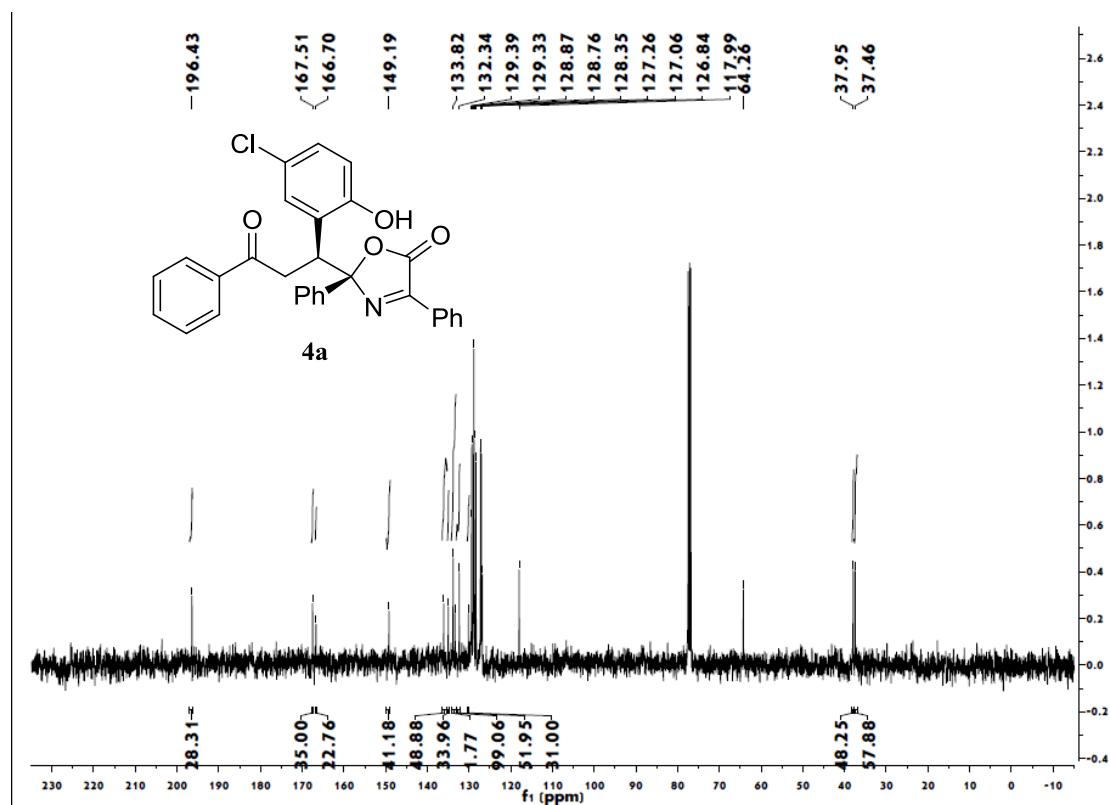
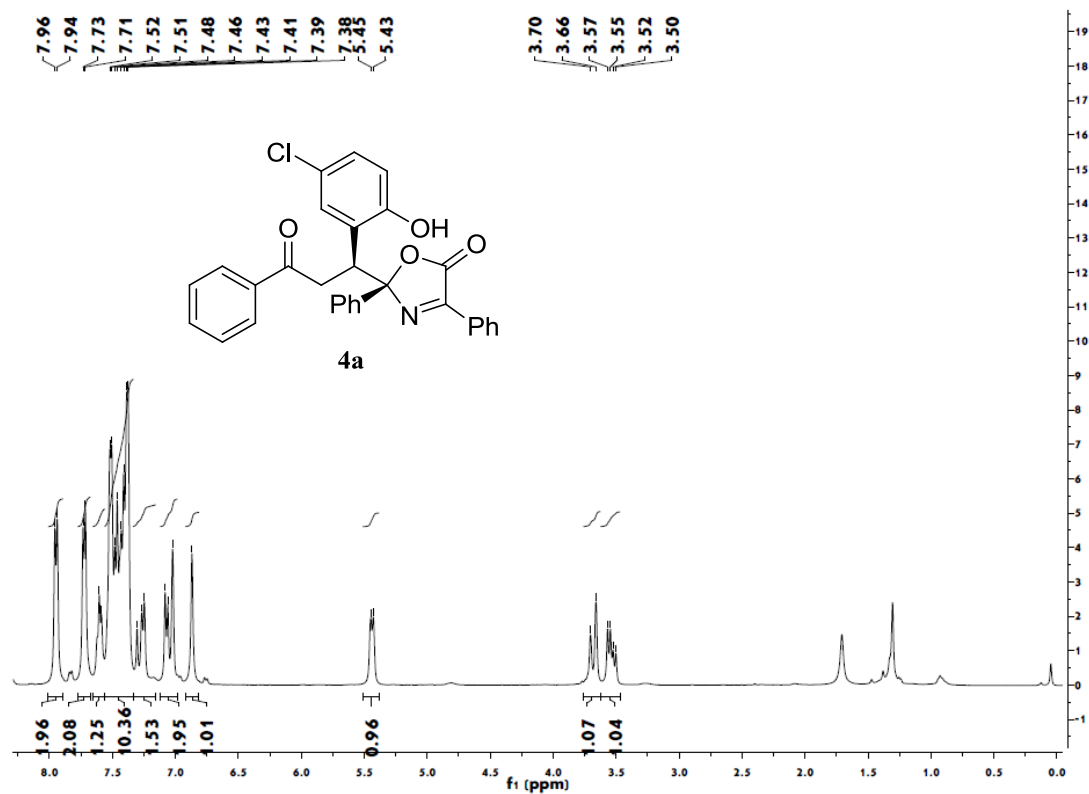
(2R,3S)-methyl 2-benzamido-5-oxo-2,3,5-triphenylpentanoate A:



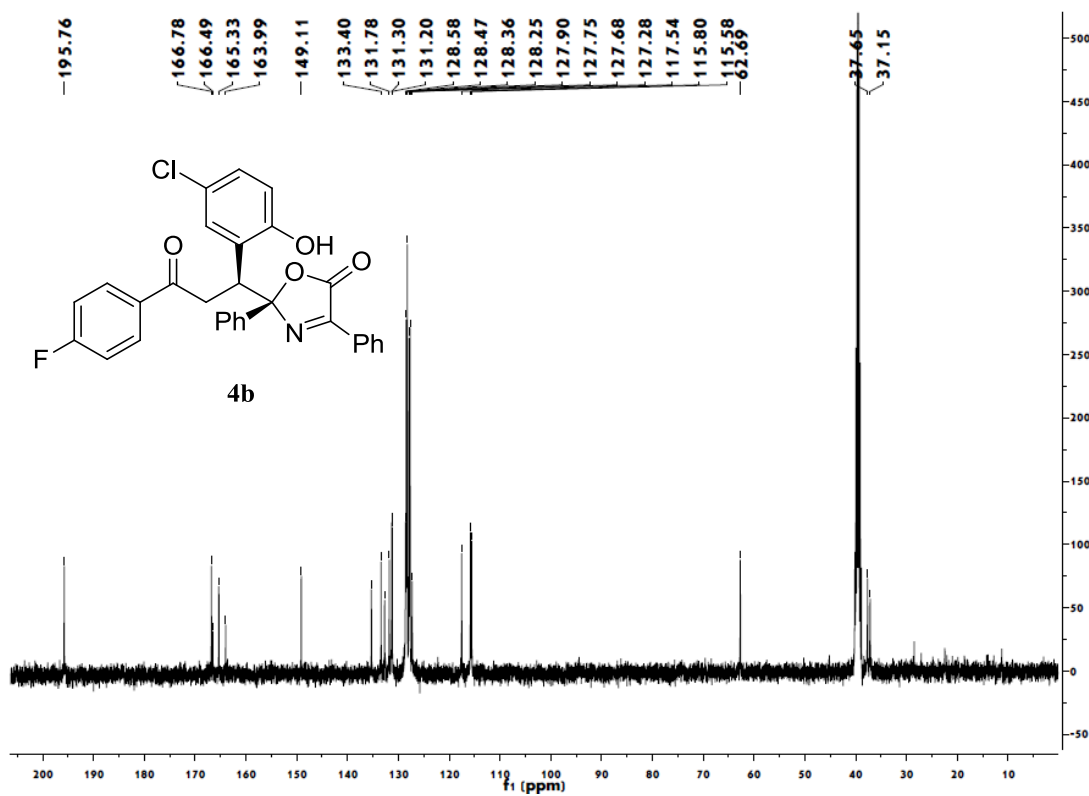
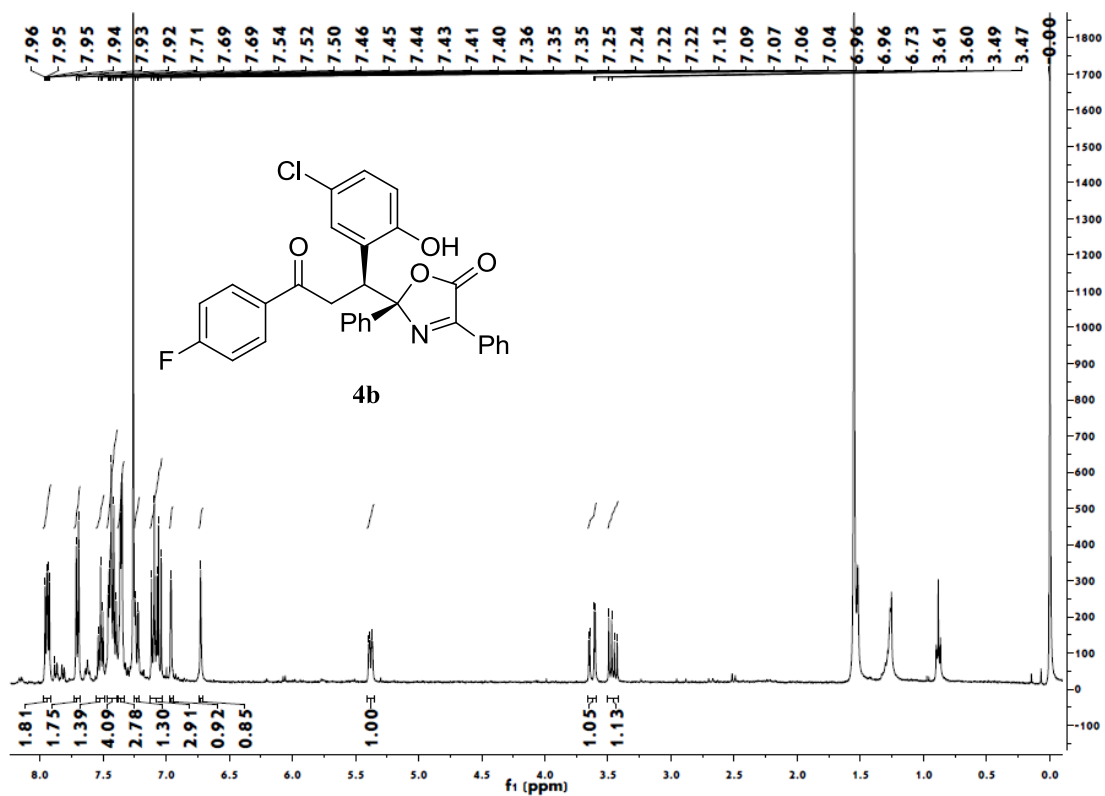
(R)-2-((S)-3-oxo-1,3-diphenylpropyl)-2,4-diphenyloxazol-5(2H)-one B:



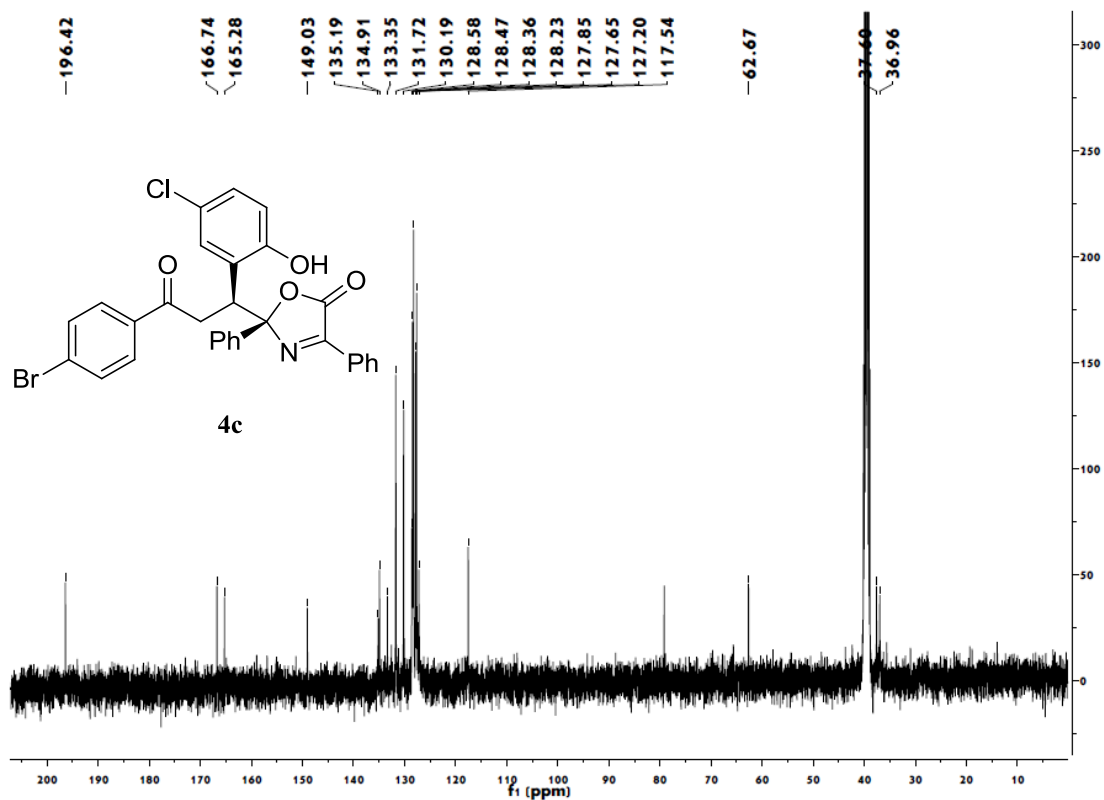
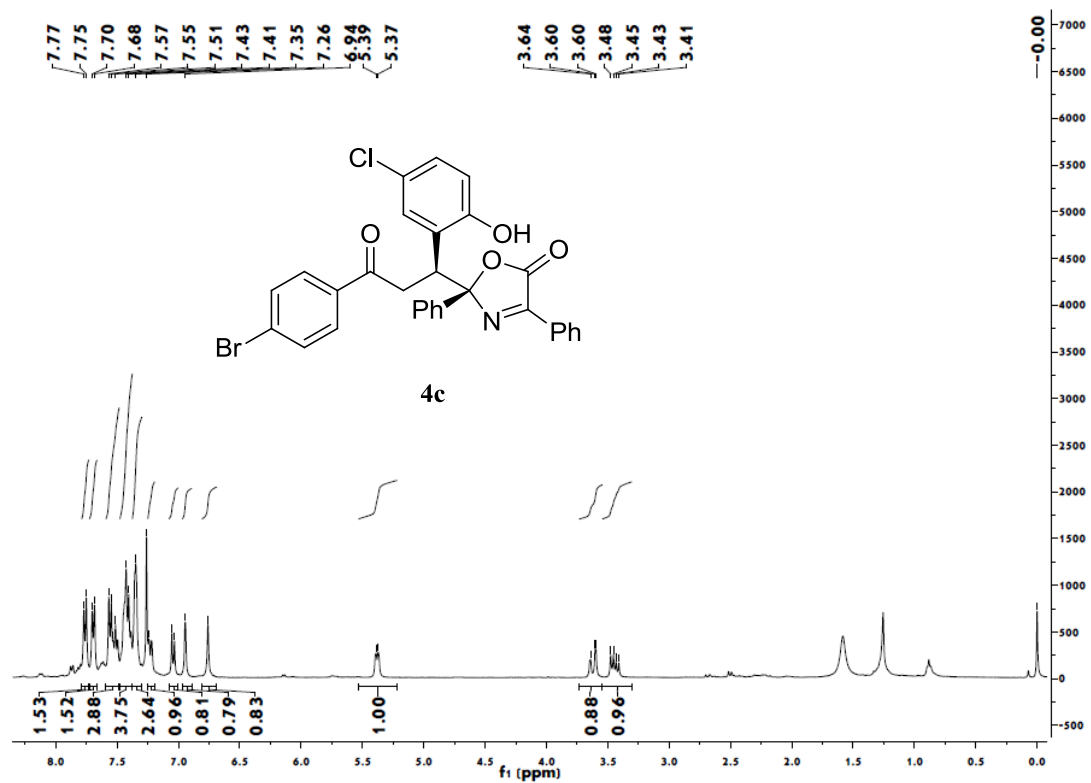
(R)-2-((S)-1-(5-chloro-2-hydroxyphenyl)-3-oxo-3-phenylpropyl)-2,4-diphenyloxazol-5(2H)-one 4a:



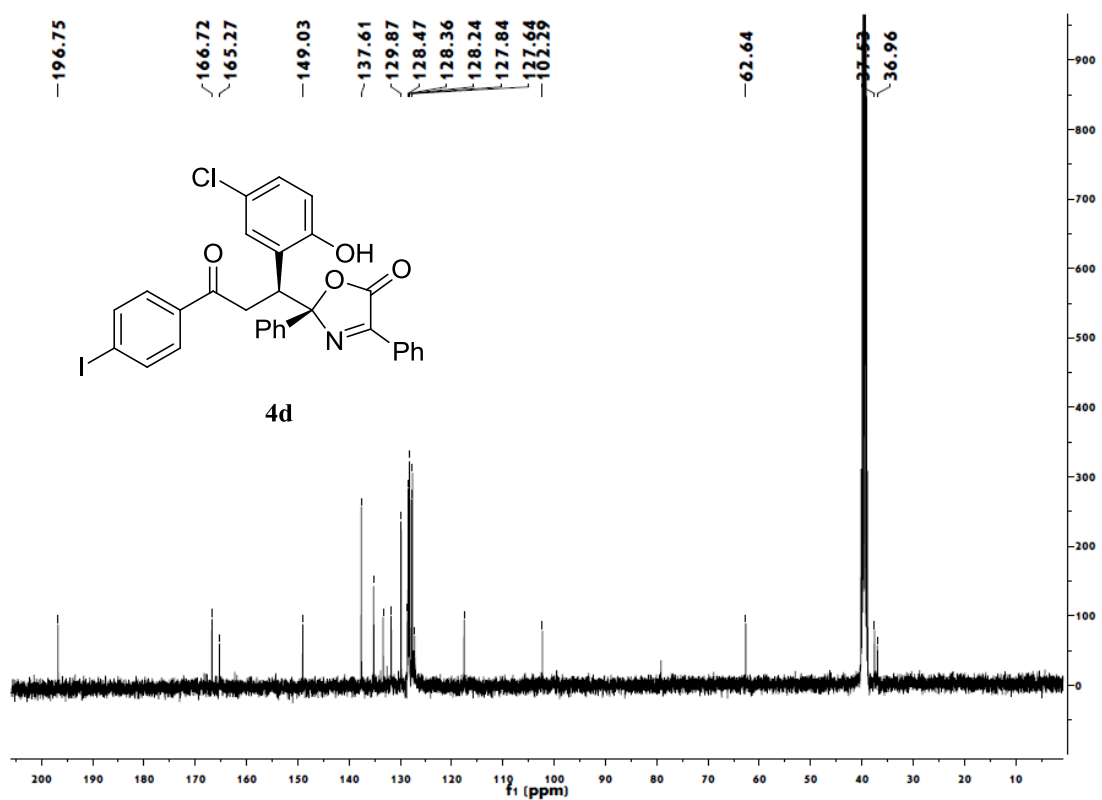
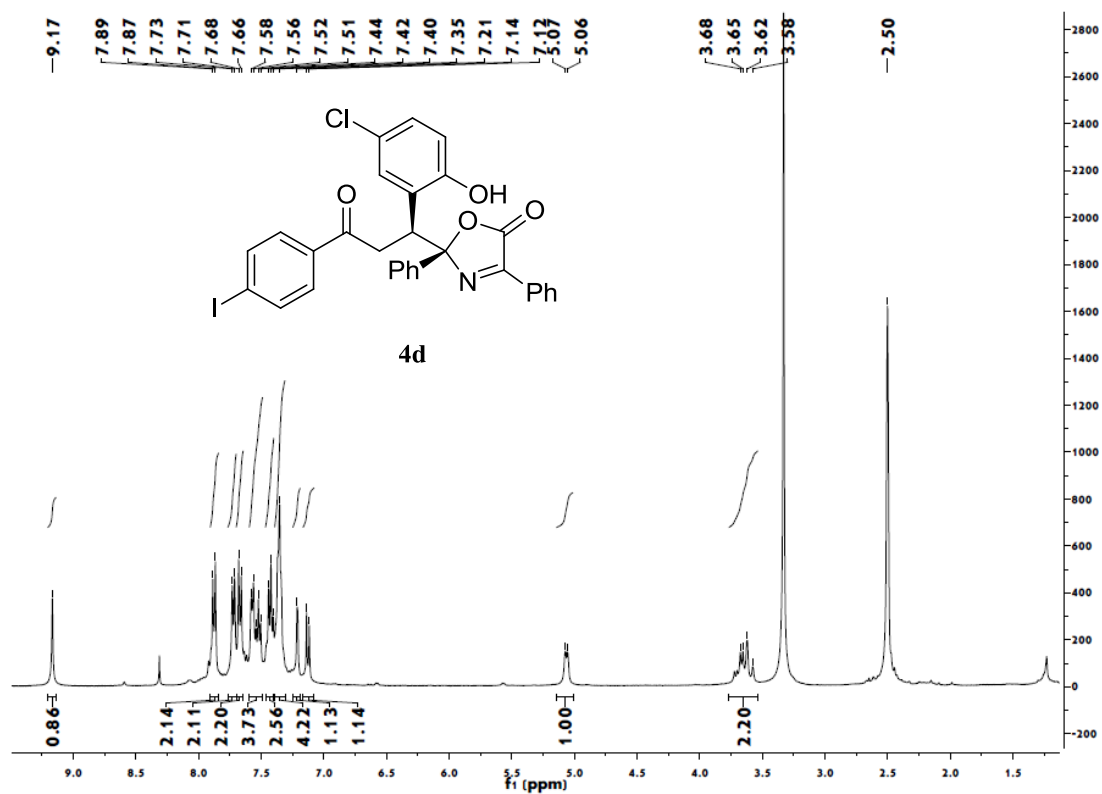
(R)-2-((S)-1-(5-chloro-2-hydroxyphenyl)-3-(4-fluorophenyl)-3-oxopropyl)-2,4-diphenyloxazol-5(2H)-one 4b:



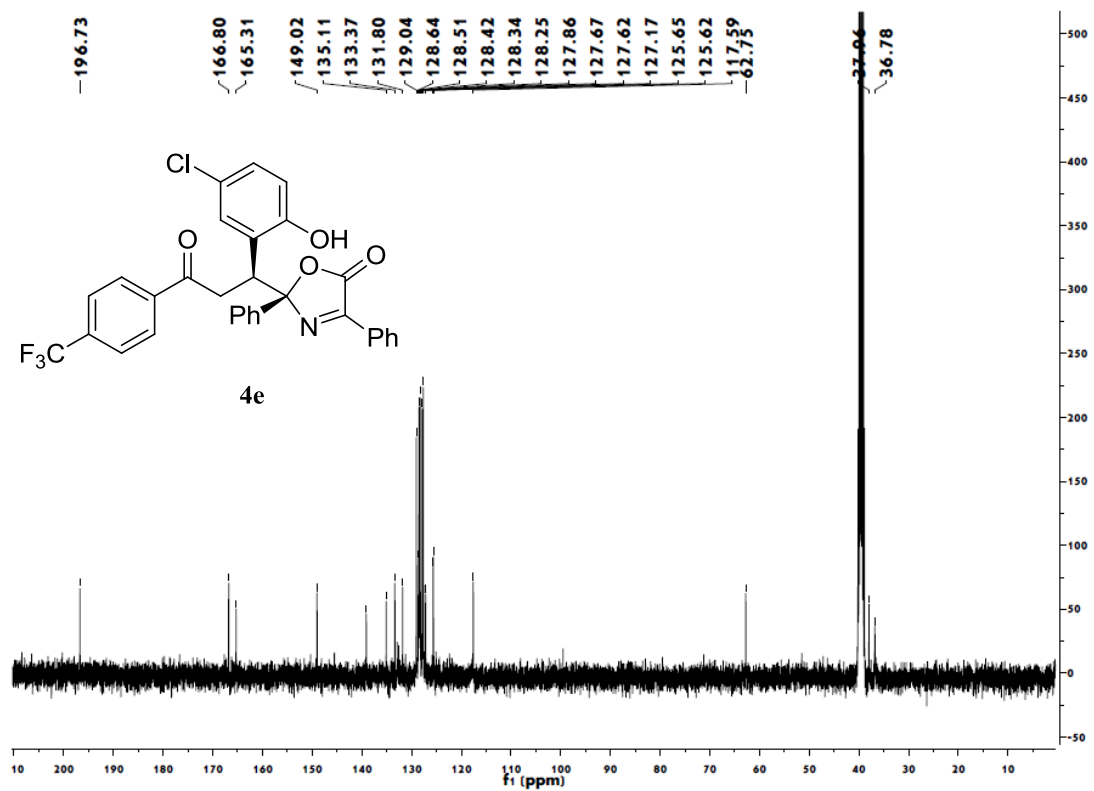
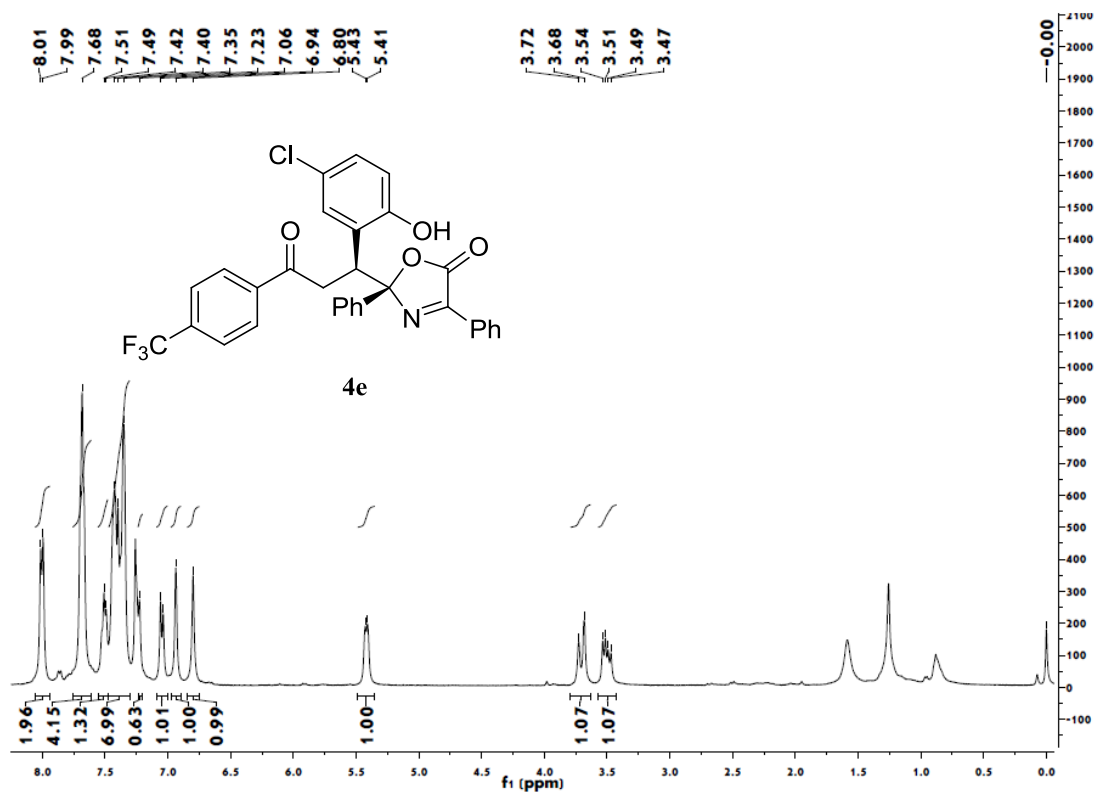
(R)-2-((S)-3-(4-bromophenyl)-1-(5-chloro-2-hydroxyphenyl)-3-oxopropyl)-2,4-diphenyloxazolidin-5(2H)-one 4c:



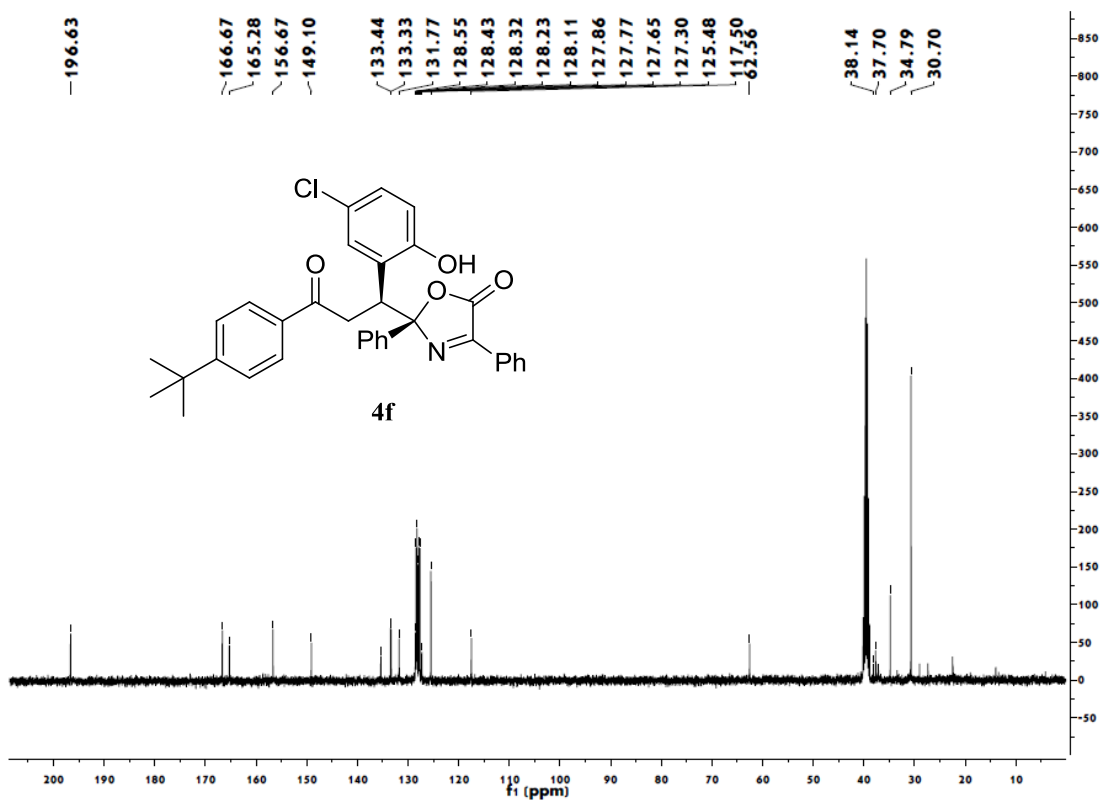
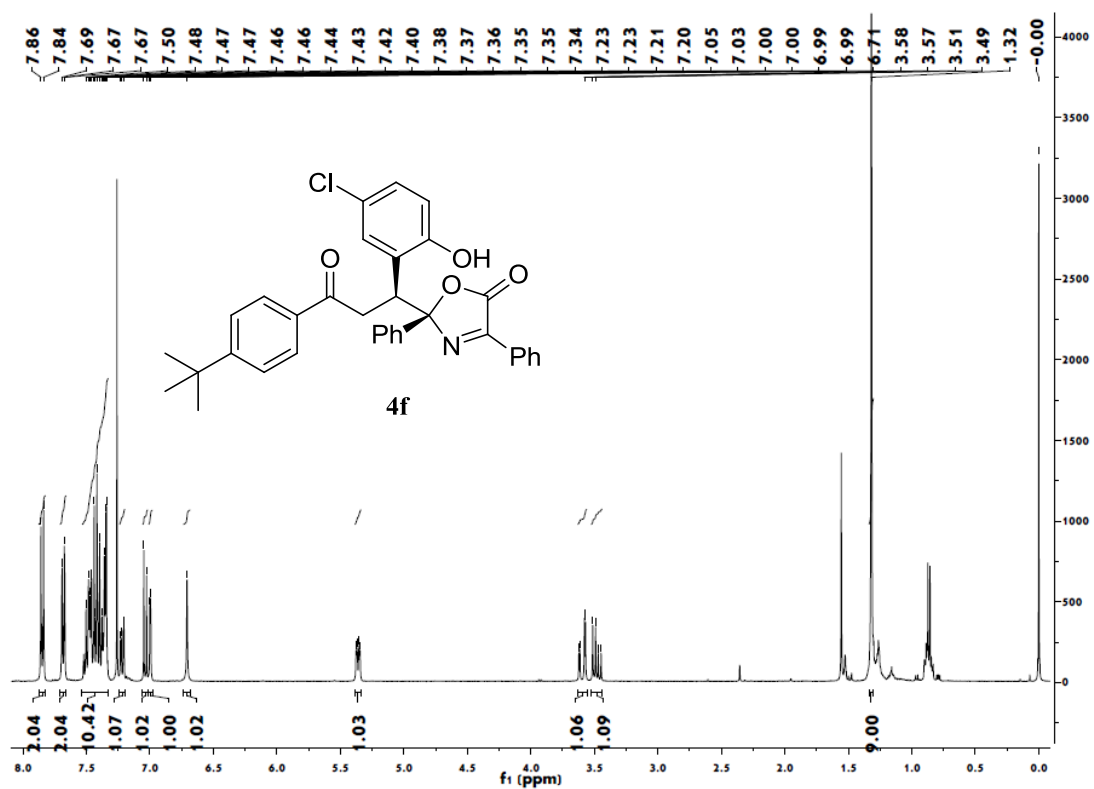
**(R)-2-((S)-1-(5-chloro-2-hydroxyphenyl)-3-(4-iodophenyl)-3-oxopropyl)-2,4-diphenyloxazol-5
(2H)-one 4d:**



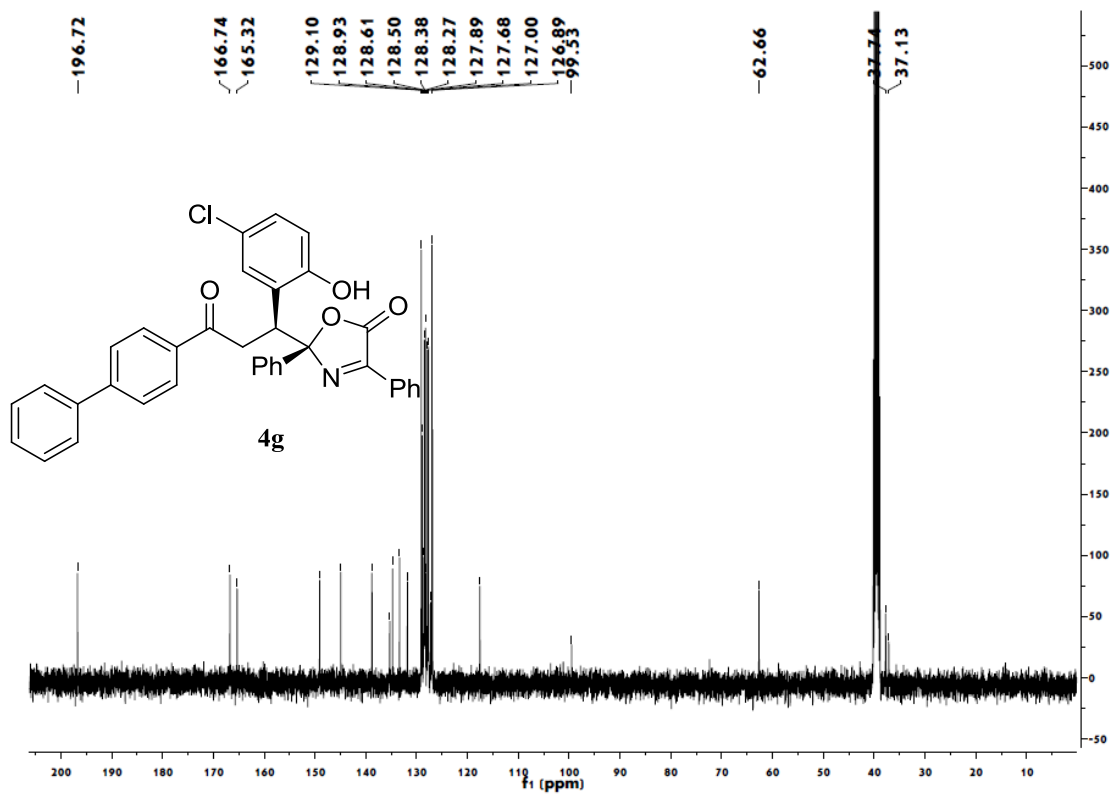
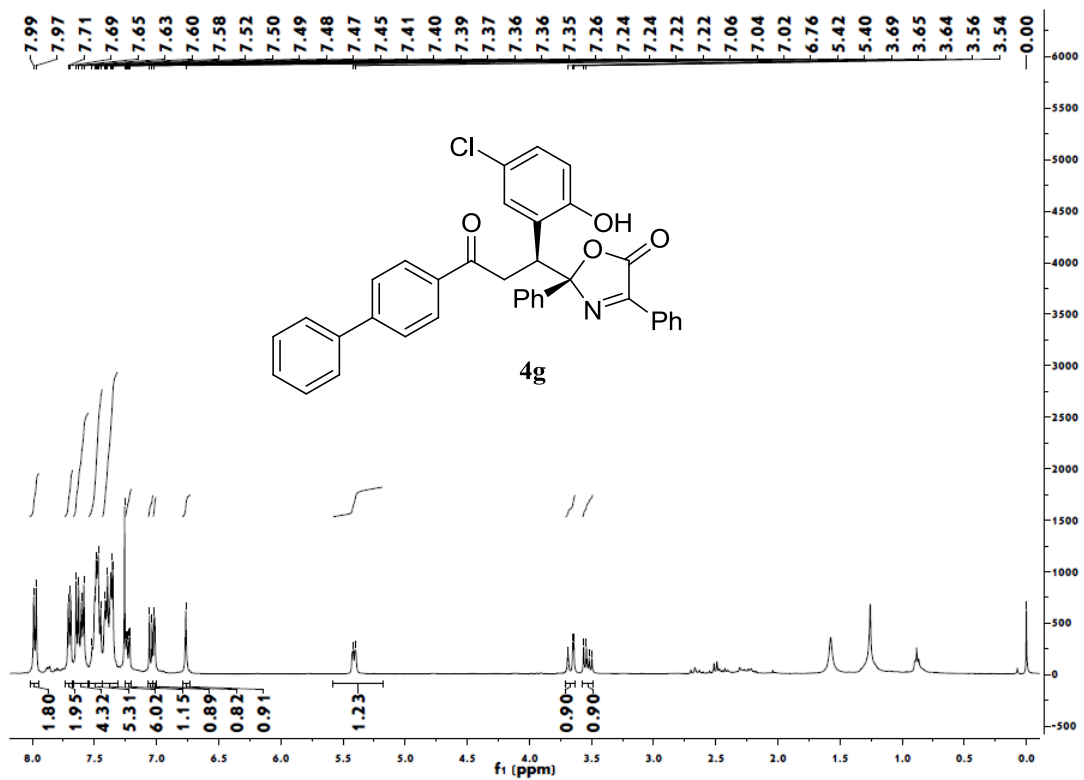
(R)-2-((S)-1-(5-chloro-2-hydroxyphenyl)-3-oxo-3-(4-(trifluoromethyl)phenyl)propyl)-2,4-diphenyloxazol-5(2H)-one 4e:



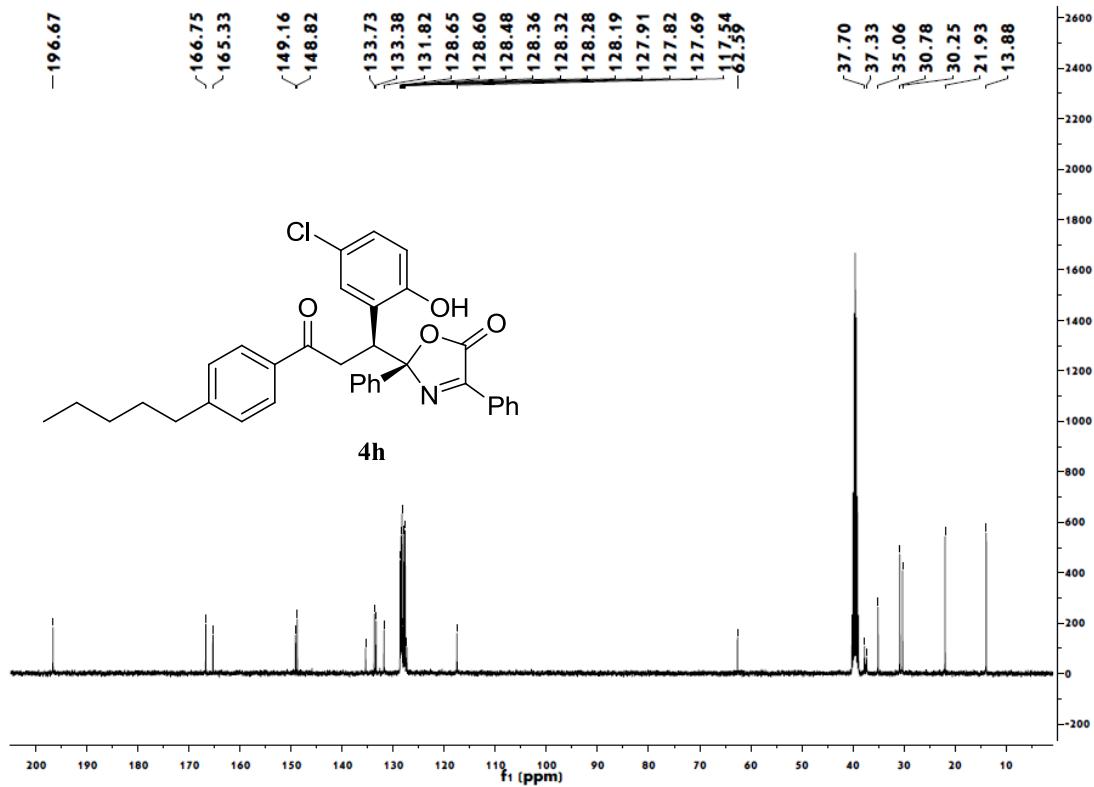
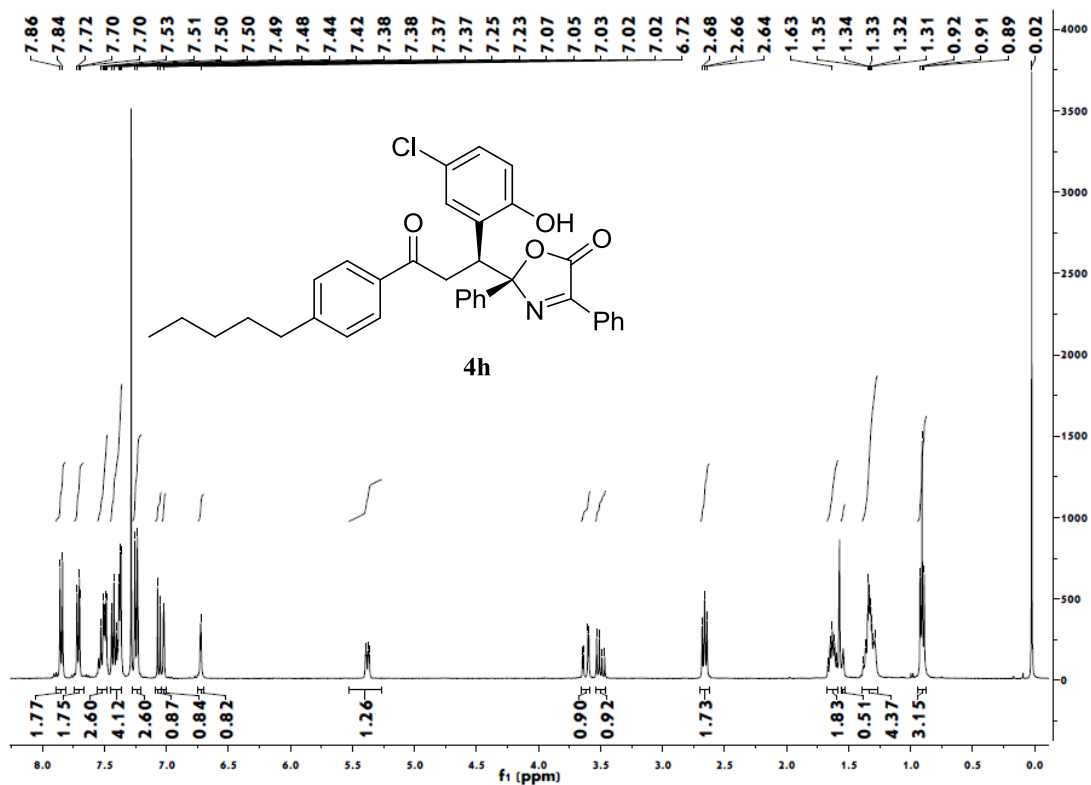
(R)-2-((S)-3-(4-(tert-butyl)phenyl)-1-(5-chloro-2-hydroxyphenyl)-3-oxopropyl)-2,4-diphenylloxazol-5(2H)-one 4f:



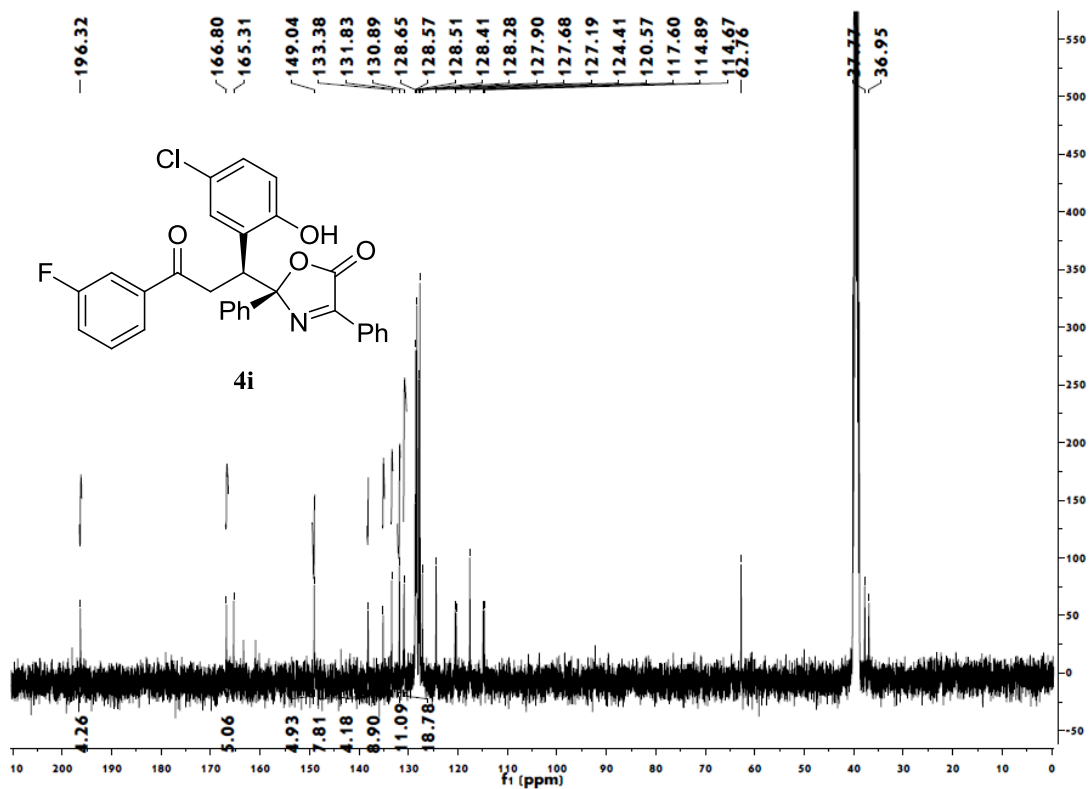
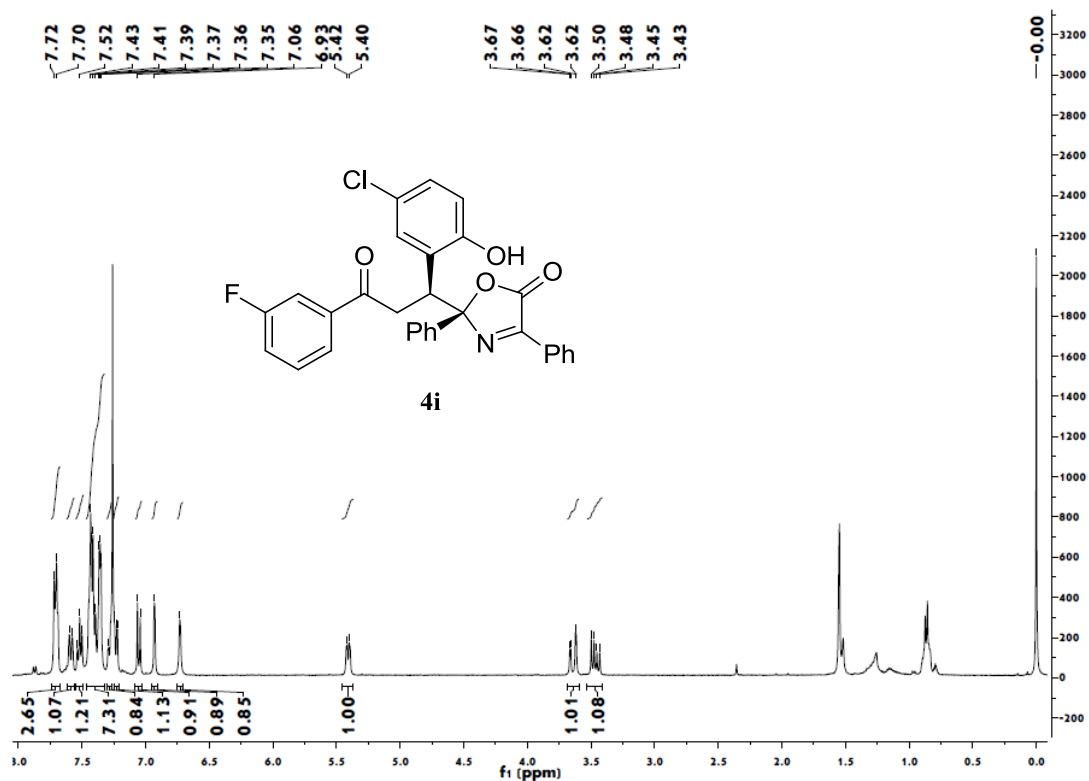
(R)-2-((S)-3-([1,1'-biphenyl]-4-yl)-1-(5-chloro-2-hydroxyphenyl)-3-oxopropyl)-2,4-diphenylloxazol-5(2H)-one 4g:



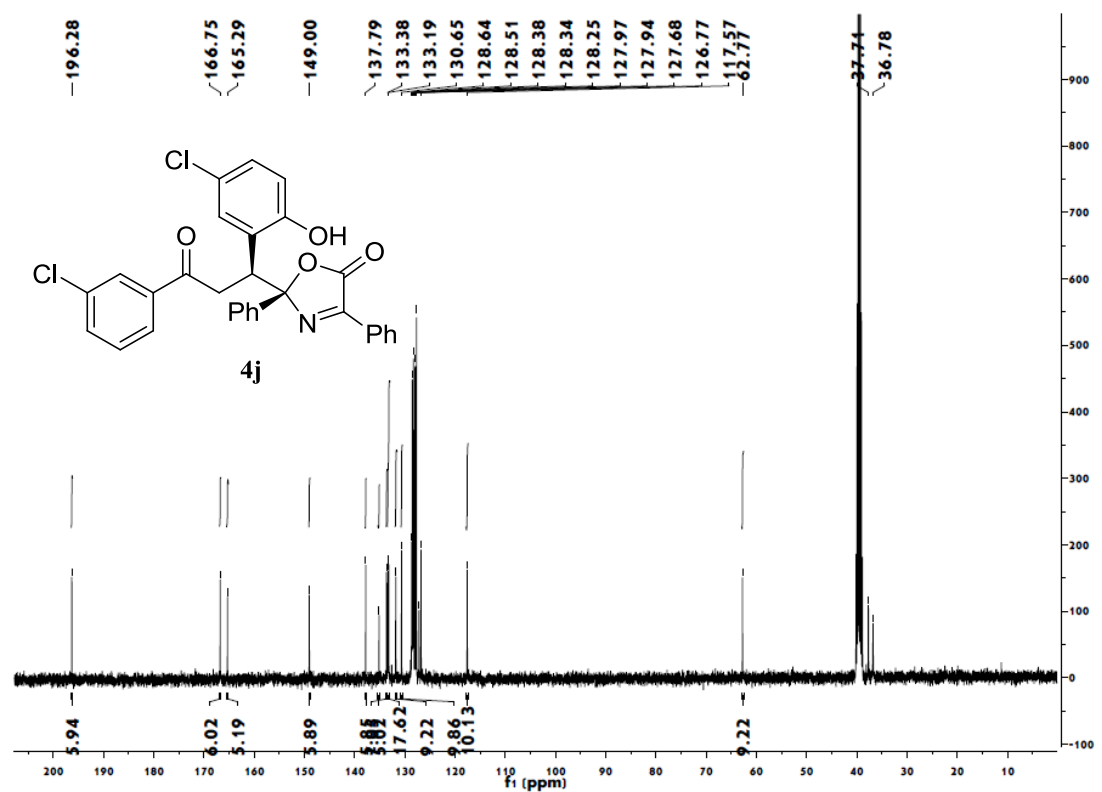
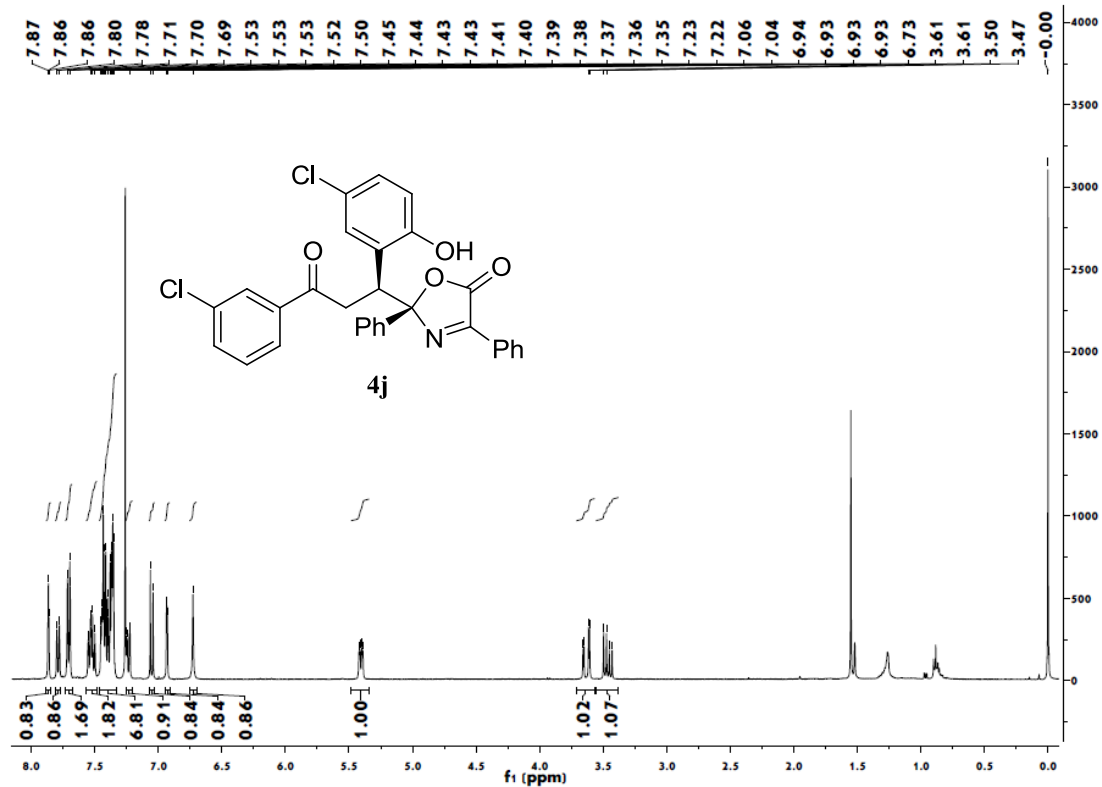
(R)-2-((S)-1-(5-chloro-2-hydroxyphenyl)-3-oxo-3-(4-pentylphenyl)propyl)-2,4-diphenyloxazol-5(2H)-one 4h:



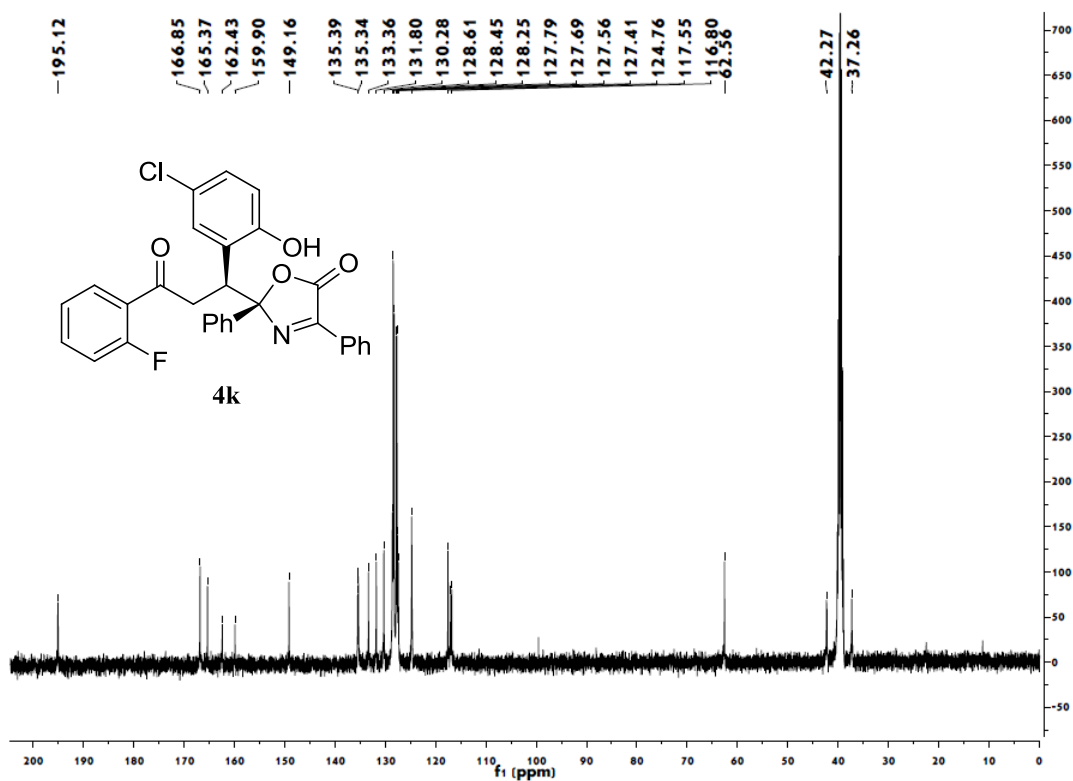
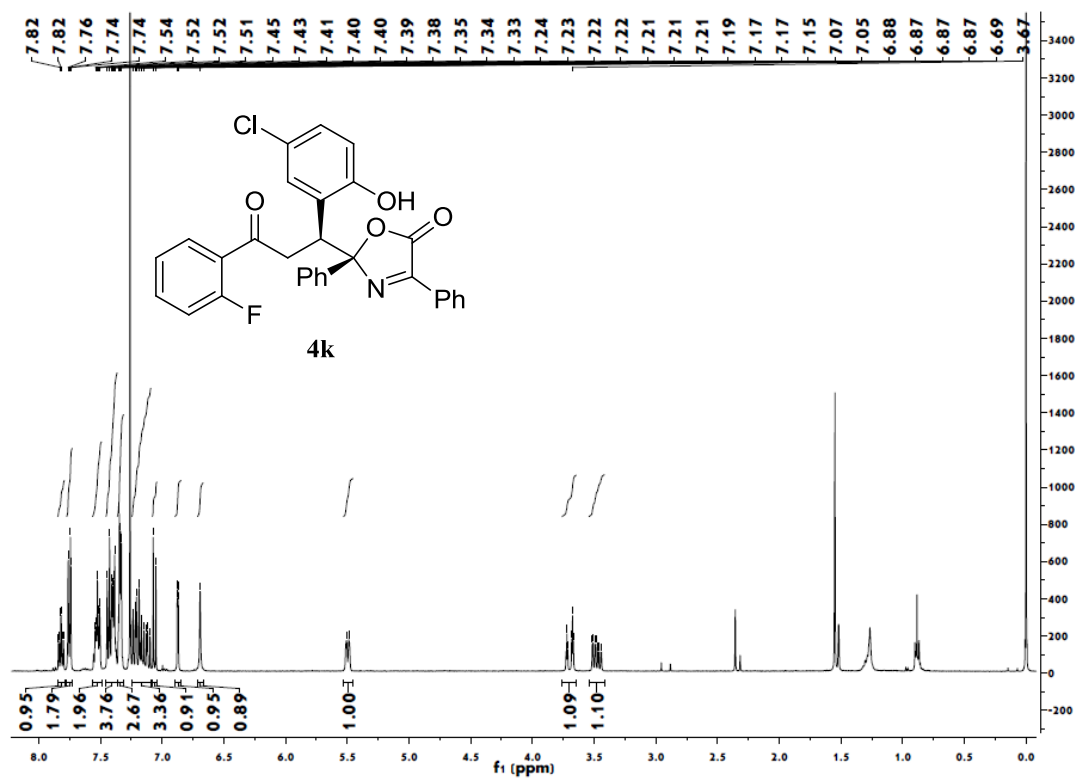
(R)-2-((S)-1-(5-chloro-2-hydroxyphenyl)-3-(3-fluorophenyl)-3-oxopropyl)-2,4-diphenyloxazol-5(2H)-one 4i:



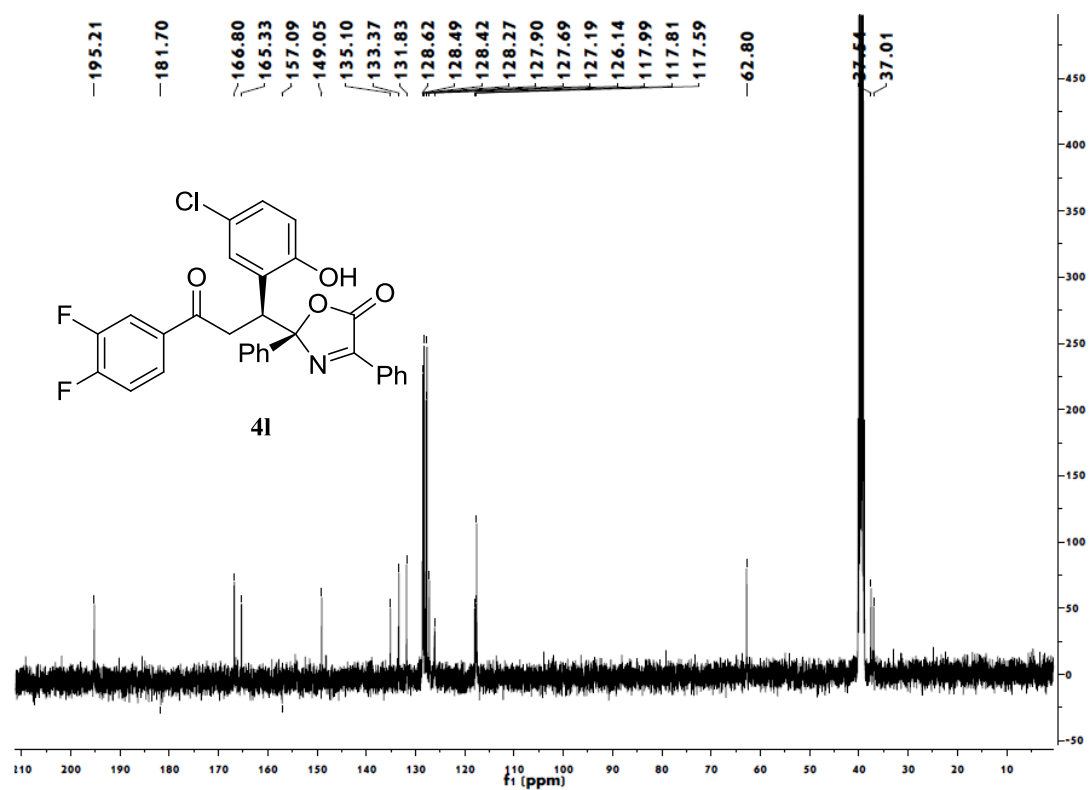
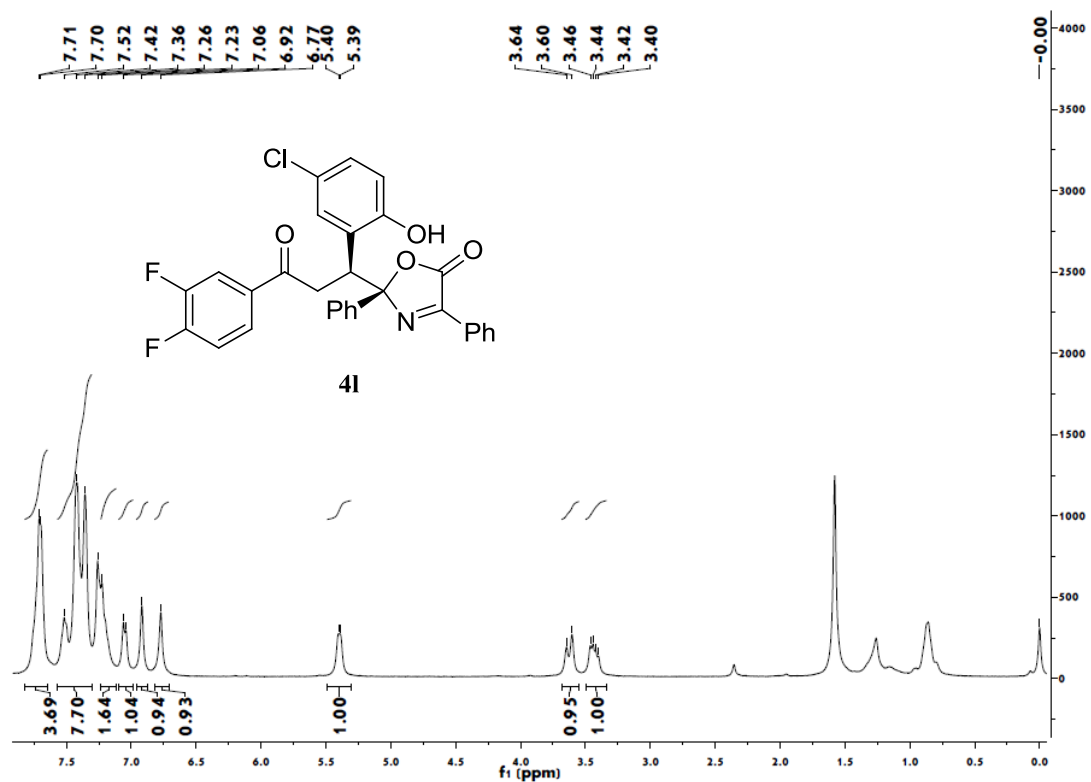
(R)-2-((S)-1-(5-chloro-2-hydroxyphenyl)-3-(3-chlorophenyl)-3-oxopropyl)-2,4-diphenyloxazole-5(2H)-one 4j:



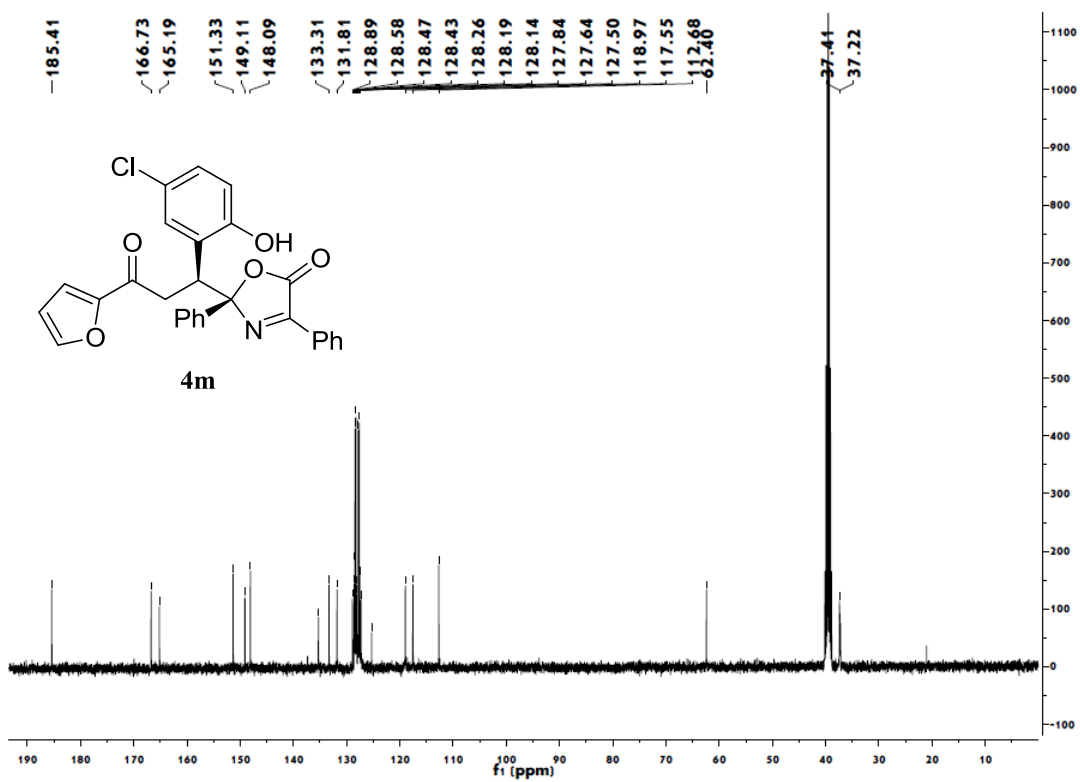
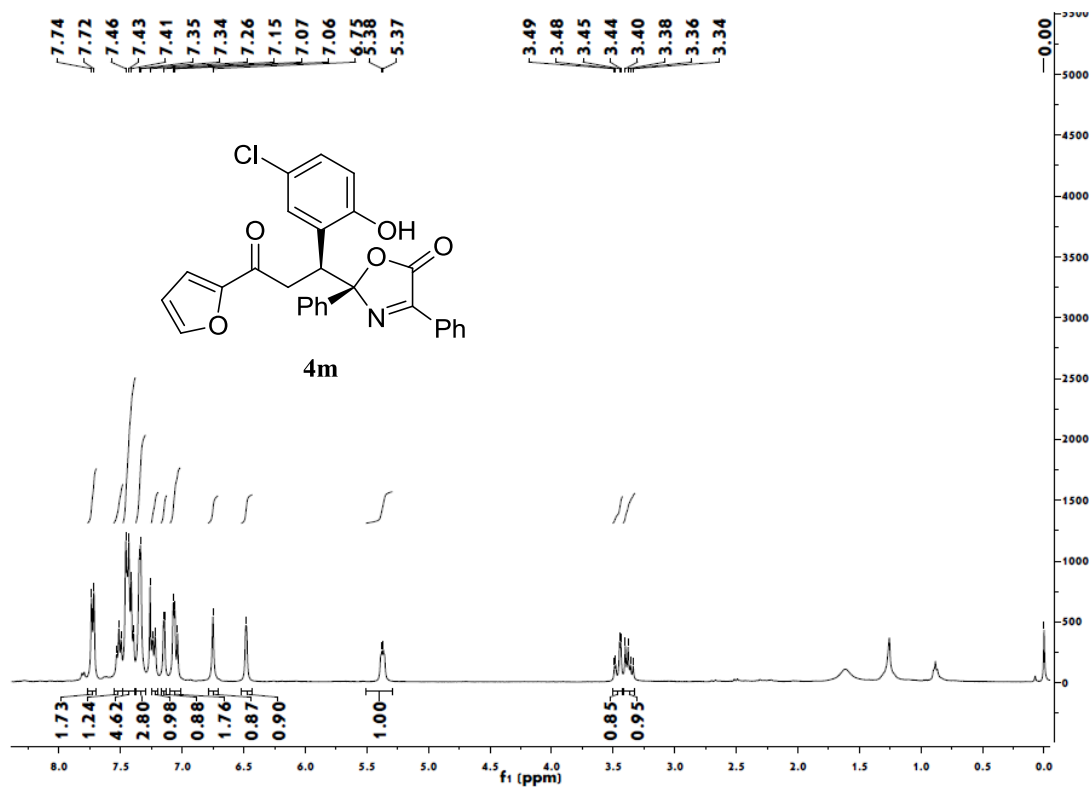
(R)-2-((S)-1-(5-chloro-2-hydroxyphenyl)-3-(2-fluorophenyl)-3-oxopropyl)-2,4-diphenyloxazol-5(2H)-one 4k:



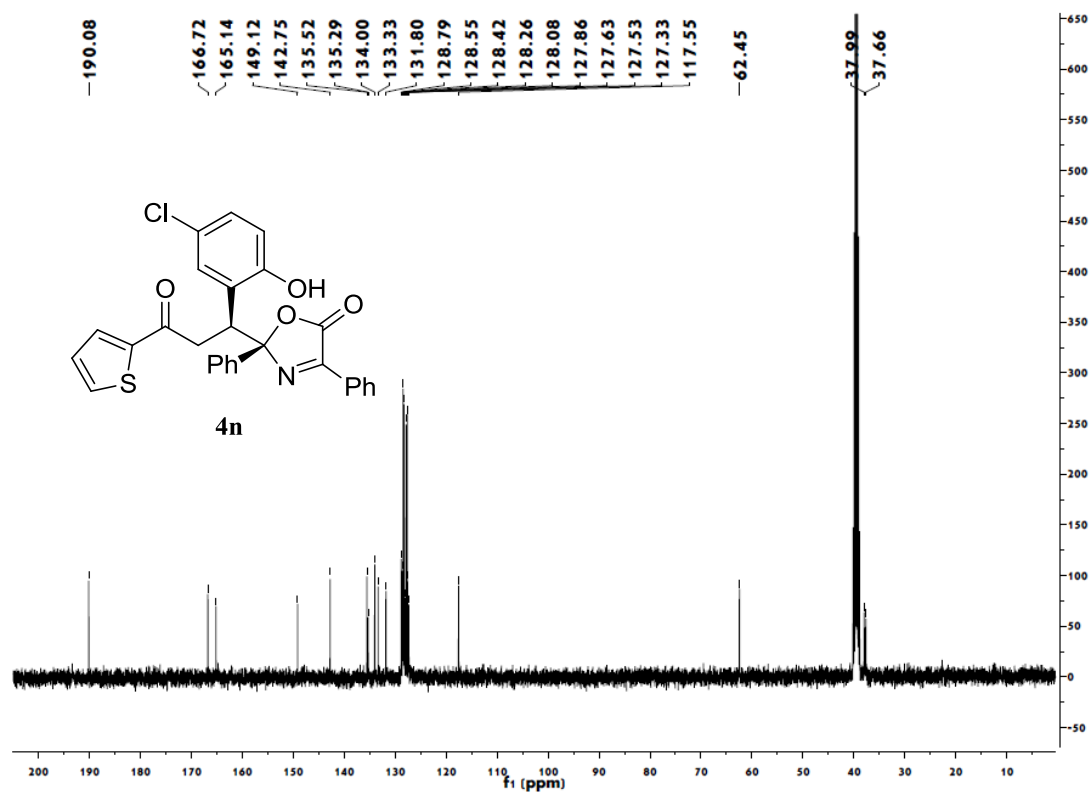
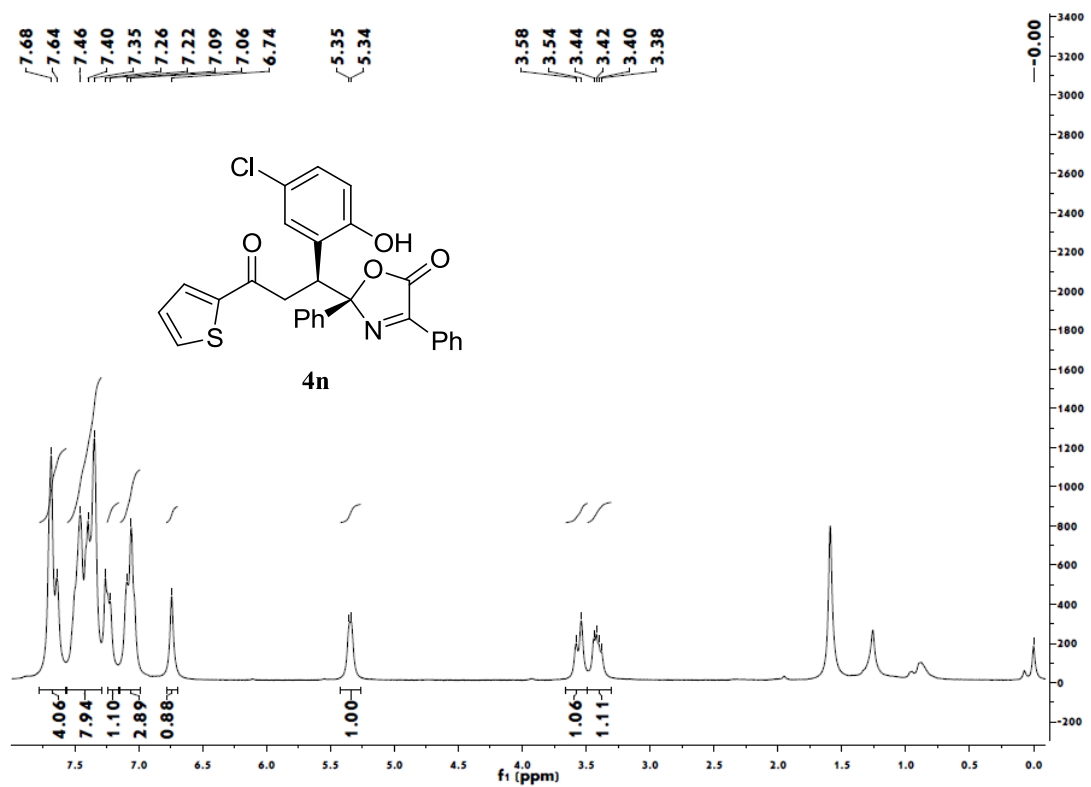
(R)-2-((S)-1-(5-chloro-2-hydroxyphenyl)-3-(3,4-difluorophenyl)-3-oxopropyl)-2,4-diphenylloxazol-5(2H)-one 4l:



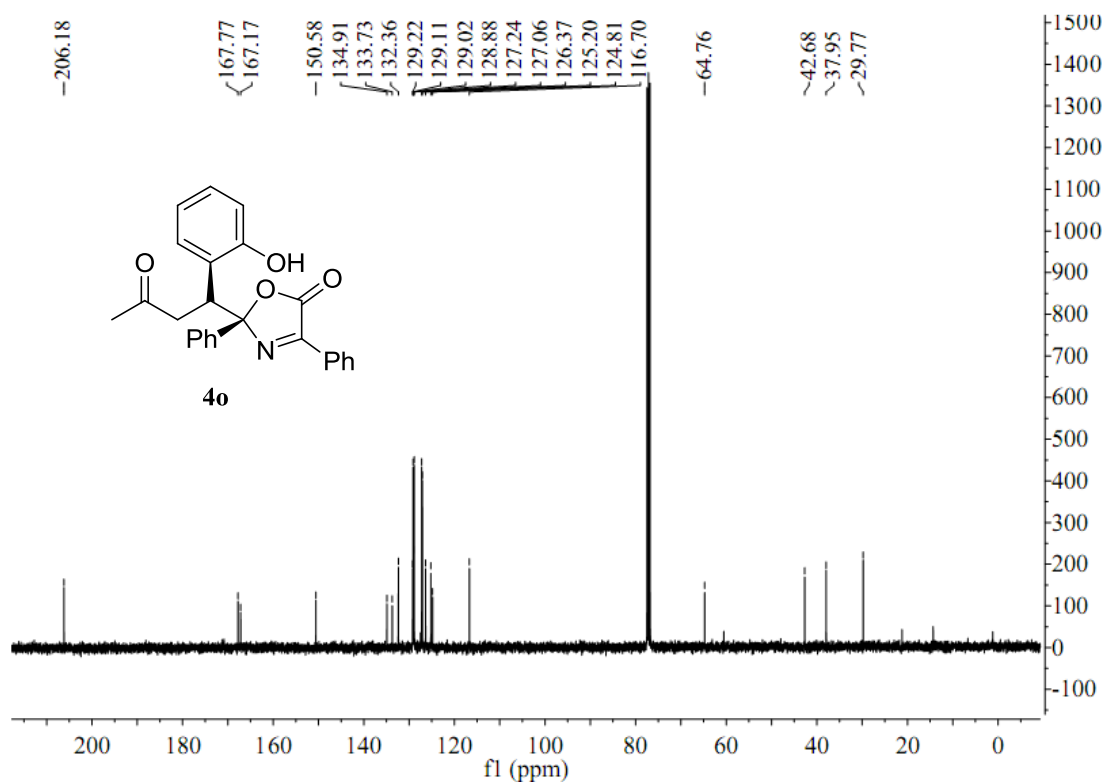
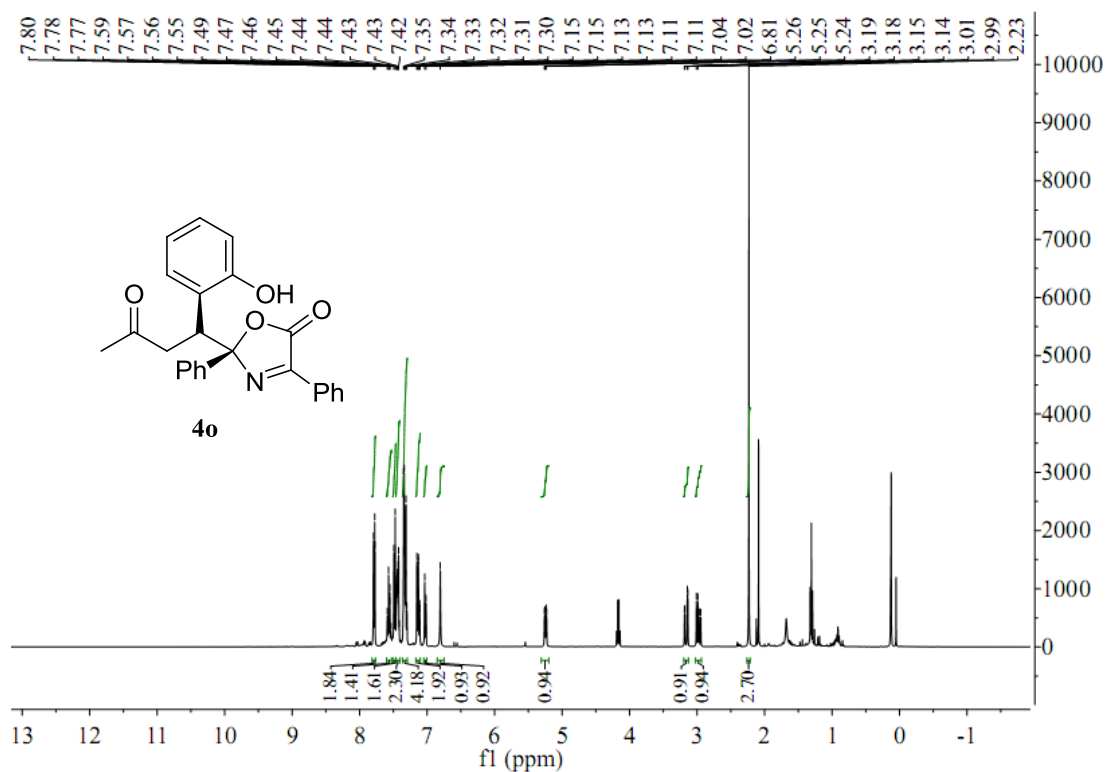
(R)-2-((S)-1-(5-chloro-2-hydroxyphenyl)-3-(furan-2-yl)-3-oxopropyl)-2,4-diphenyloxazol-5(2H)-one 4m:



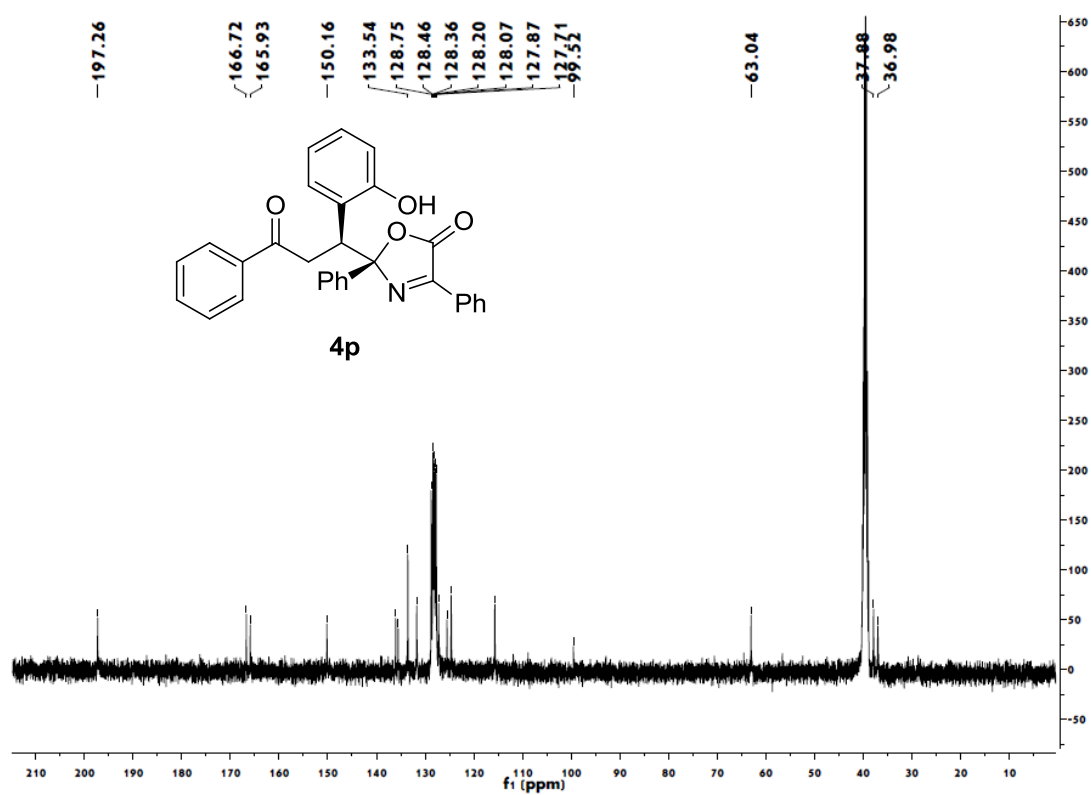
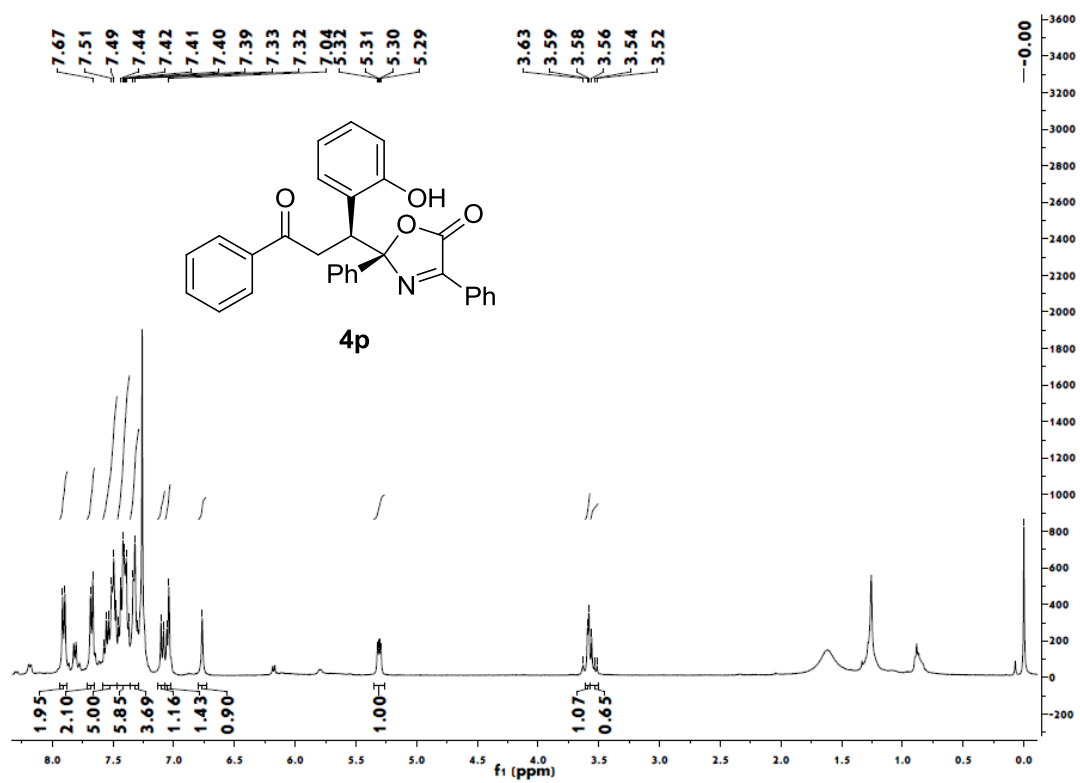
(R)-2-((S)-1-(5-chloro-2-hydroxyphenyl)-3-oxo-3-(thiophen-2-yl)propyl)-2,4-diphenyloxazol-5(2H)-one 4n:



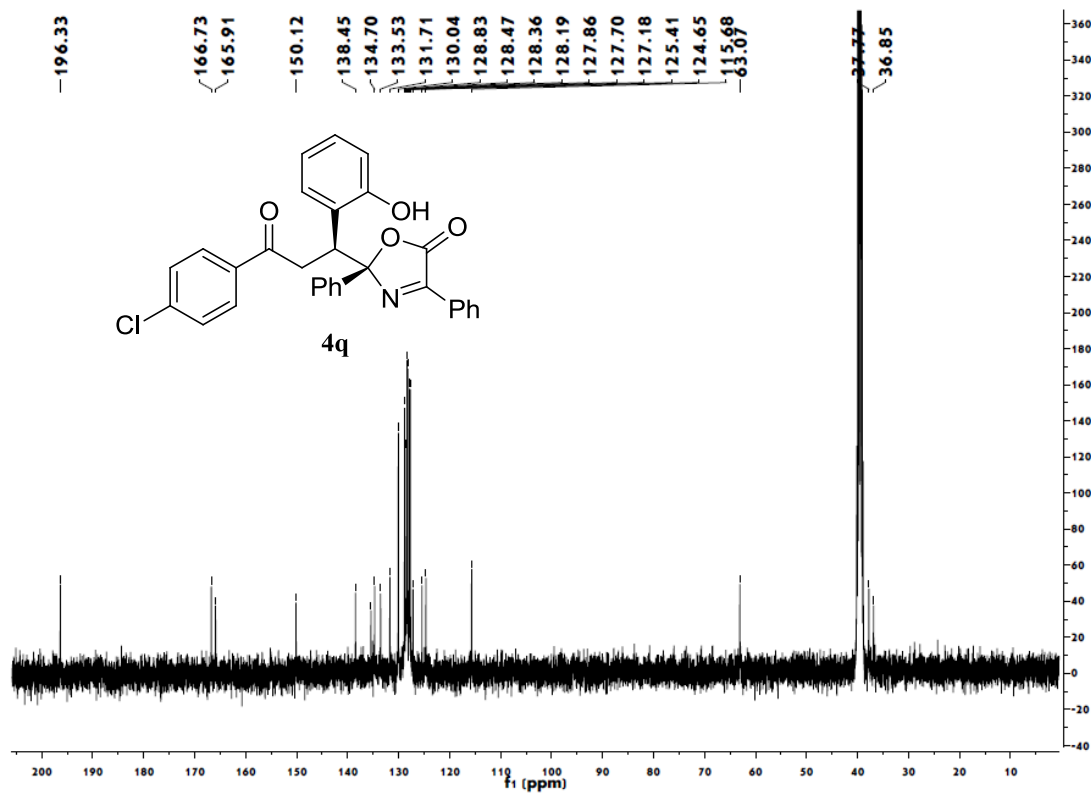
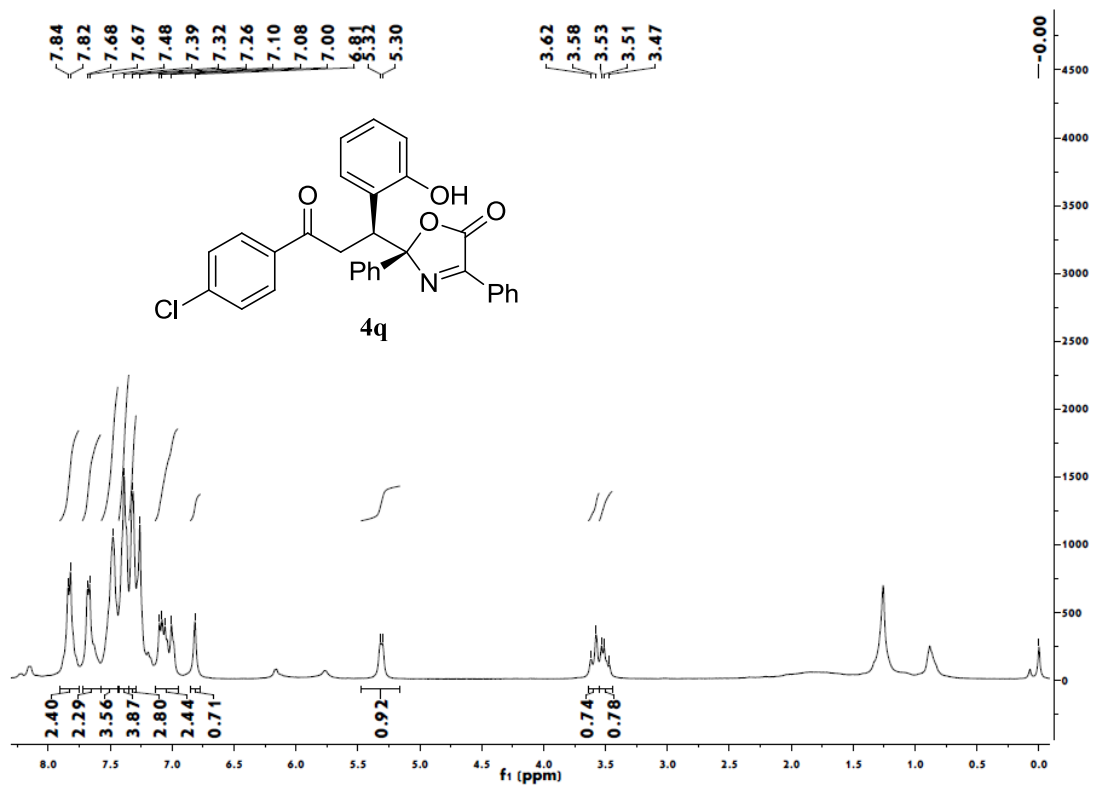
(R)-2-((R)-1-(2-hydroxyphenyl)-3-oxobutyl)-2,4-diphenyloxazol-5(2H)-one 4o:



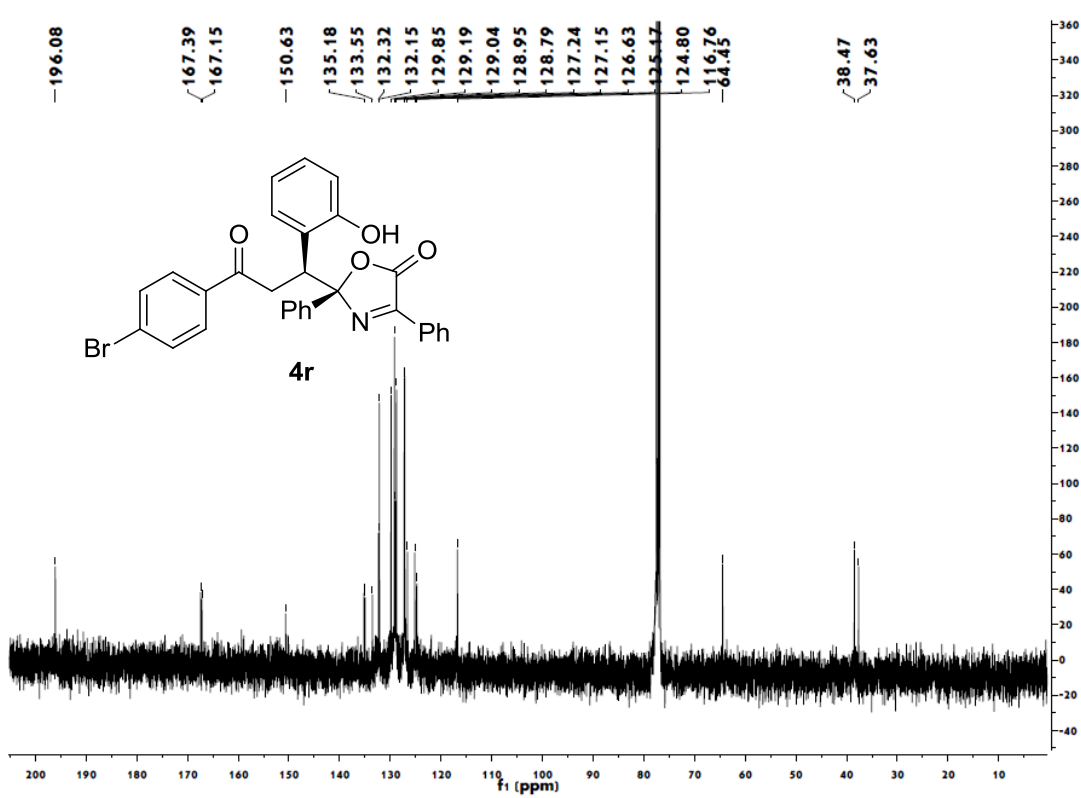
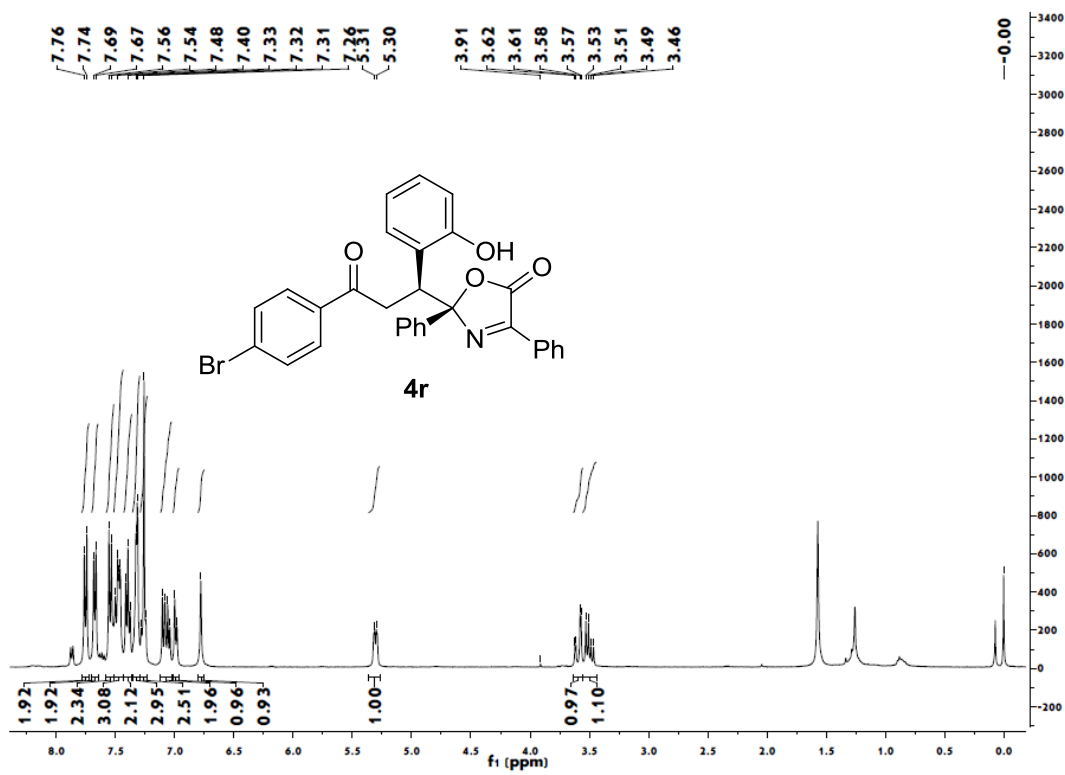
(R)-2-((S)-1-(2-hydroxyphenyl)-3-oxo-3-phenylpropyl)-2,4-diphenyloxazol-5(2H)-one 4p:



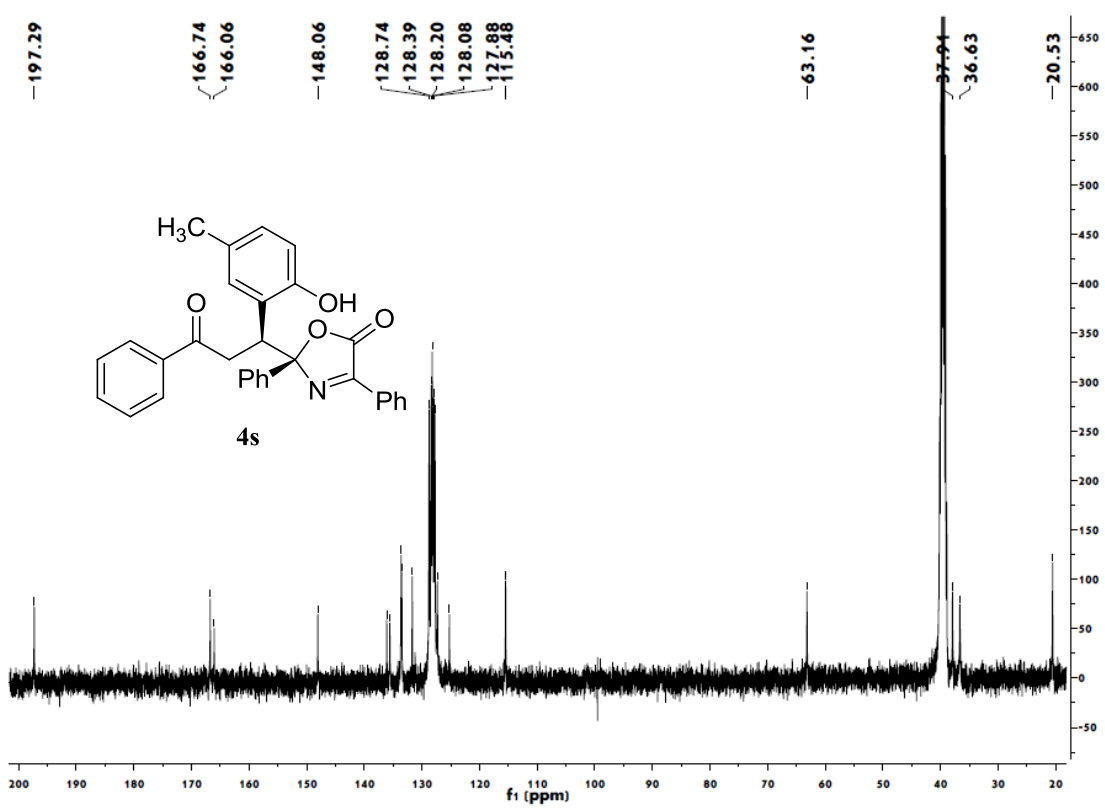
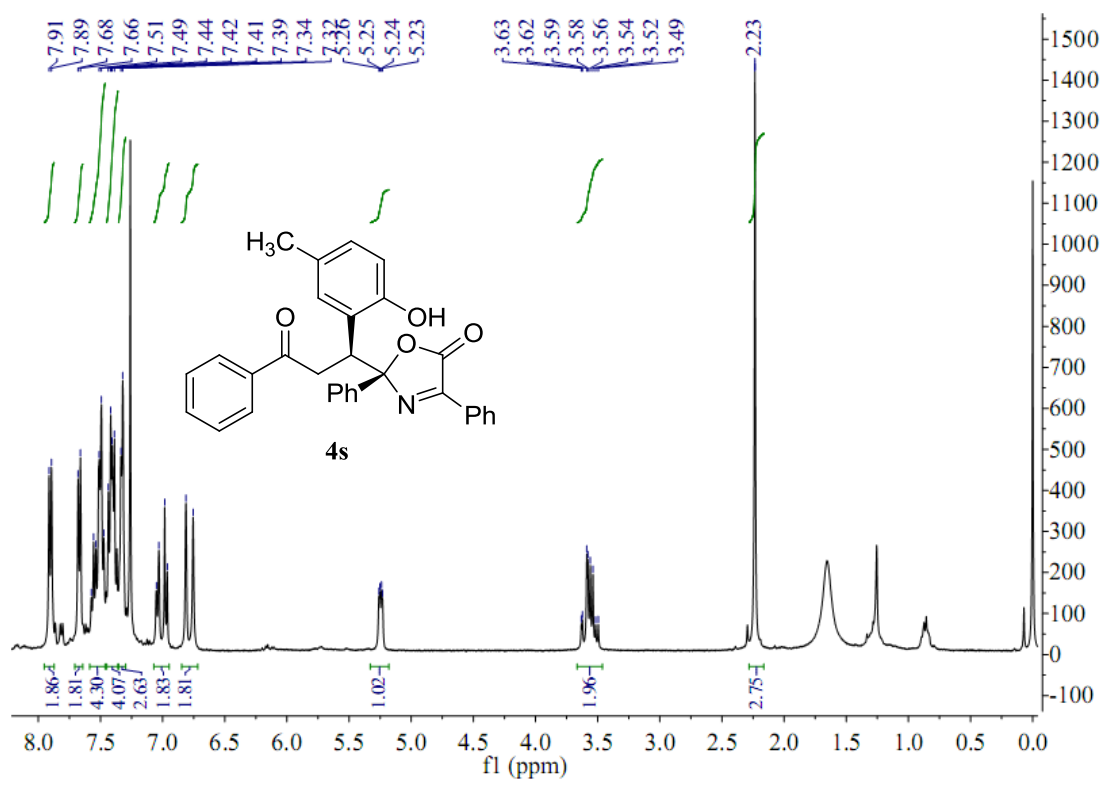
(R)-2-((S)-3-(4-chlorophenyl)-1-(2-hydroxyphenyl)-3-oxopropyl)-2,4-diphenyloxazol-5(2H)-one 4q:



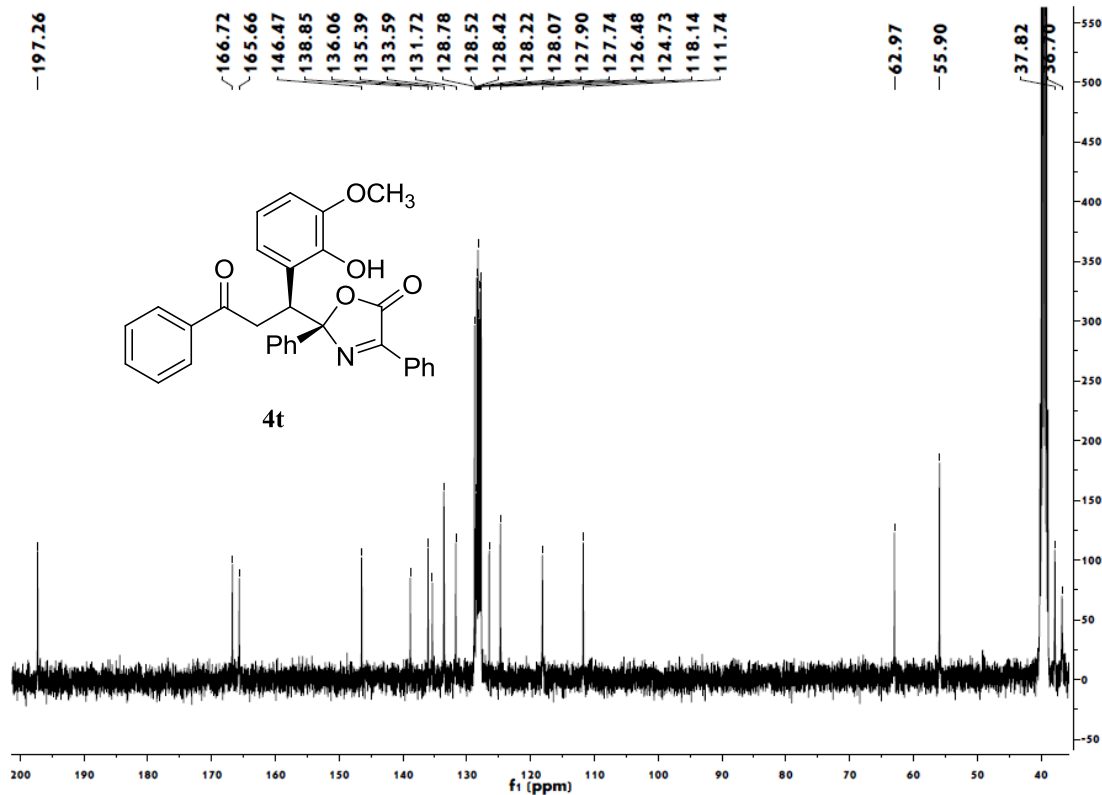
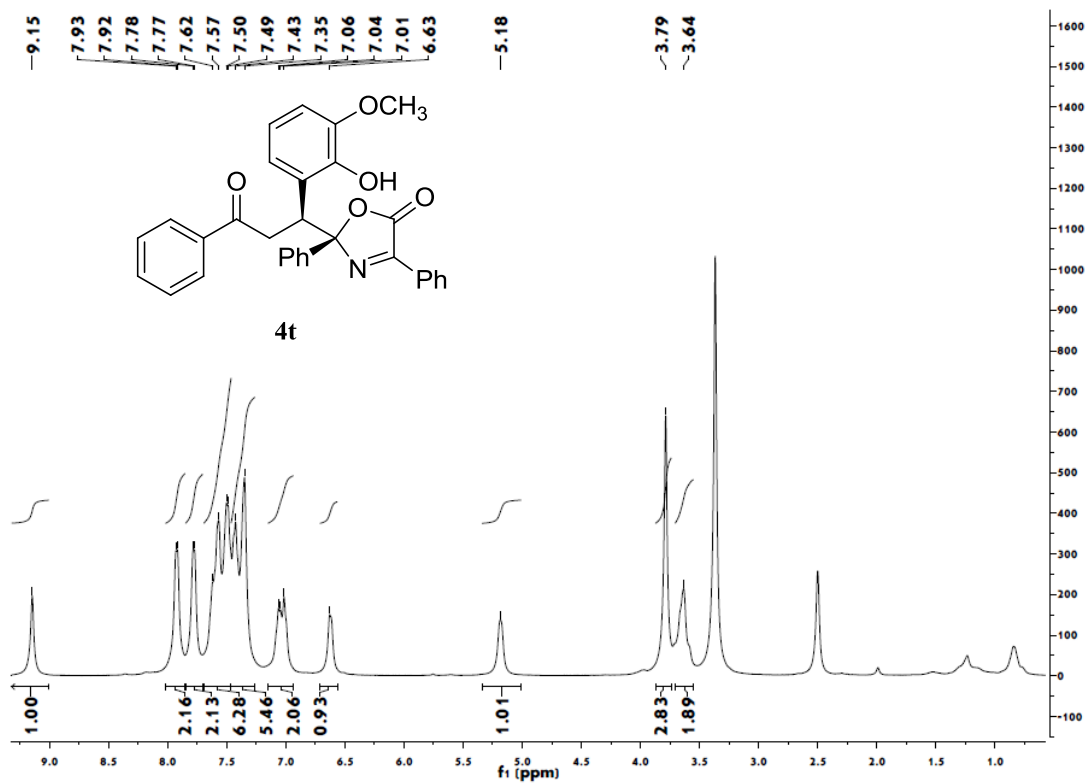
(R)-2-((S)-3-(4-bromophenyl)-1-(2-hydroxyphenyl)-3-oxopropyl)-2,4-diphenyloxazol-5(2H)-one 4r:



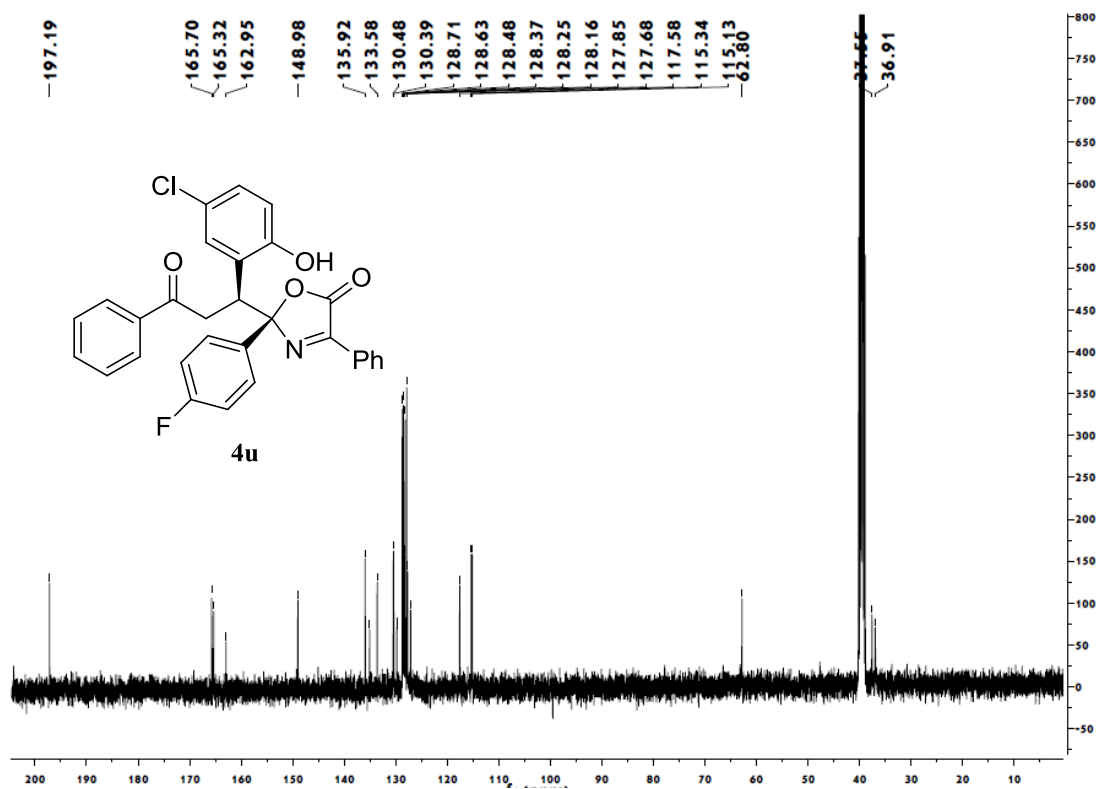
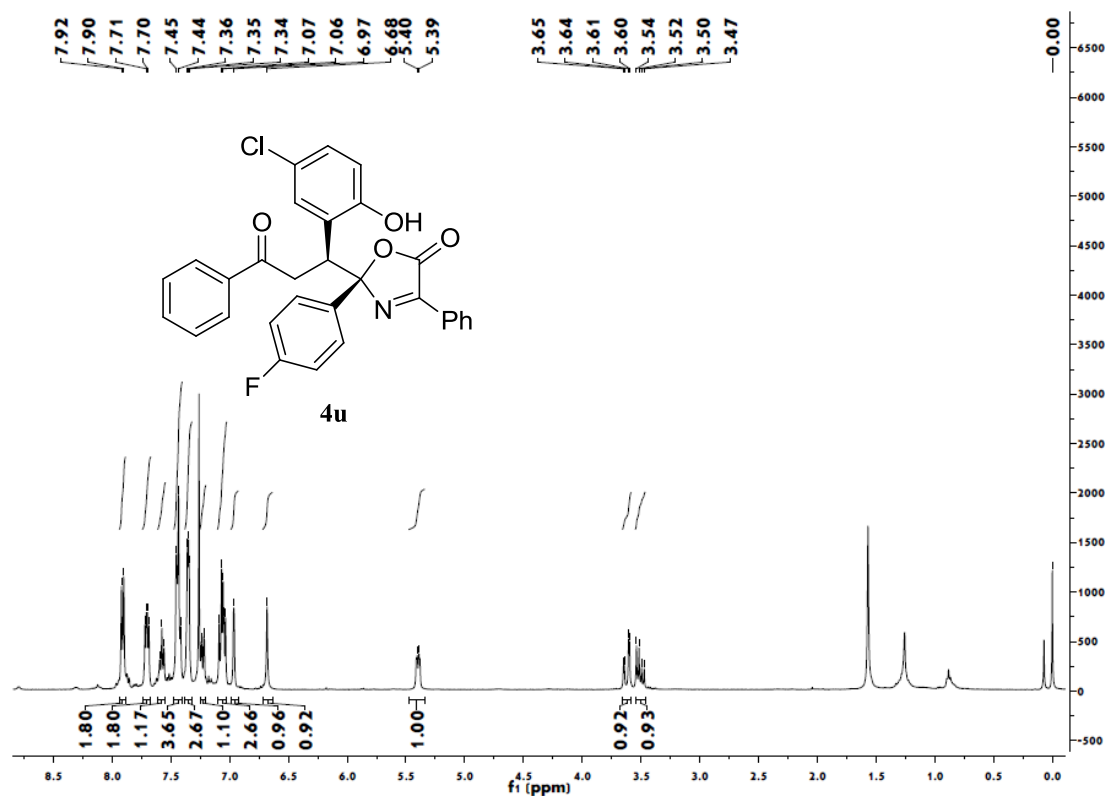
(R)-2-((S)-1-(2-hydroxy-5-methylphenyl)-3-oxo-3-phenylpropyl)-2,4-diphenyloxazol-5(2H)-one 4s:



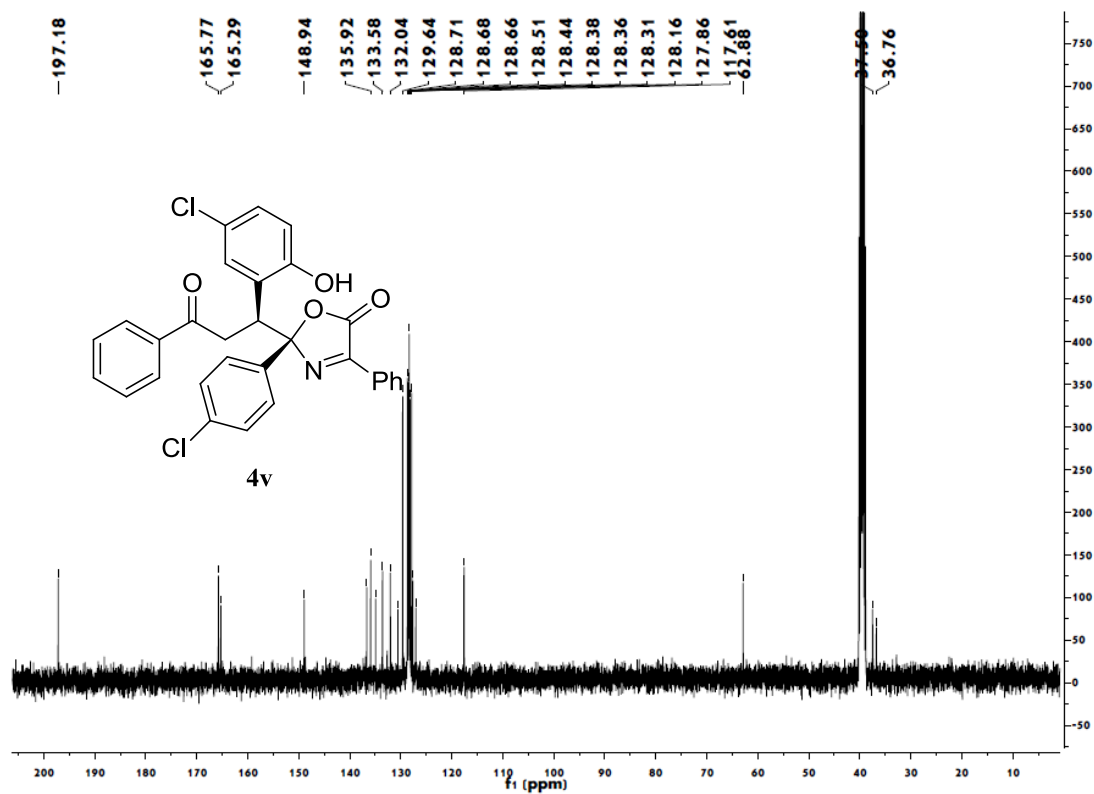
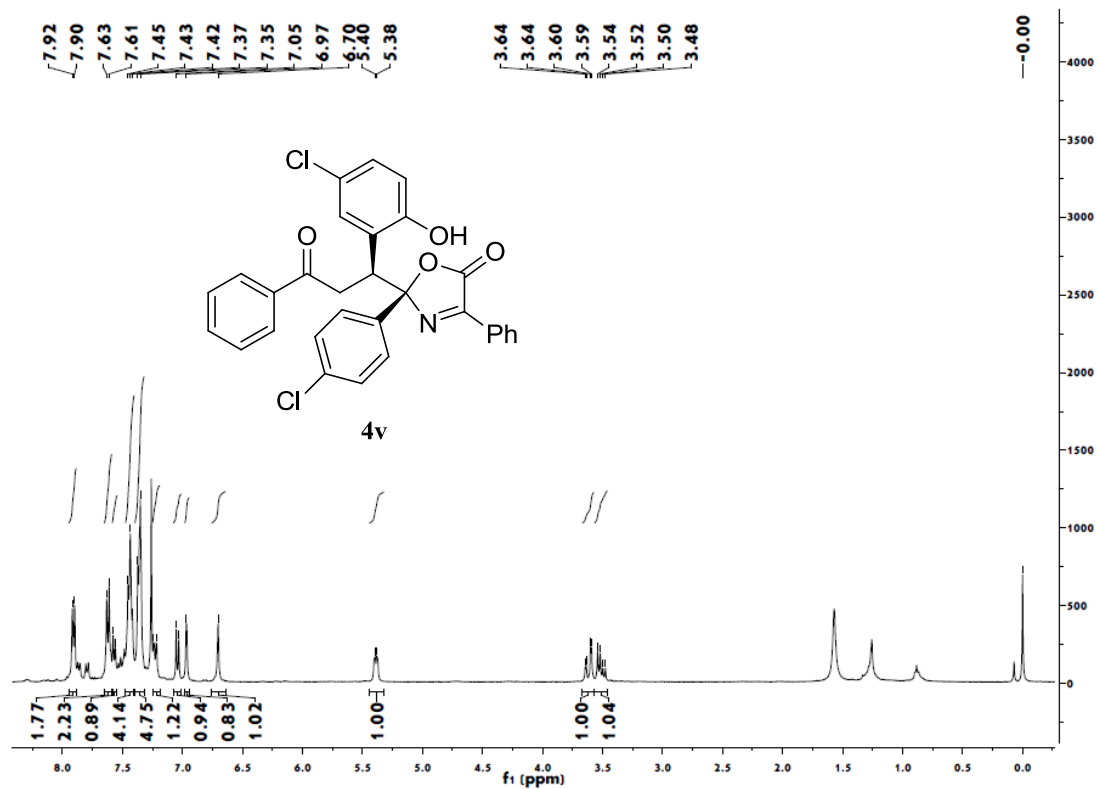
(R)-2-((S)-1-(2-hydroxy-3-methoxyphenyl)-3-oxo-3-phenylpropyl)-2,4-diphenyloxazol-5(2H)-one 4t:



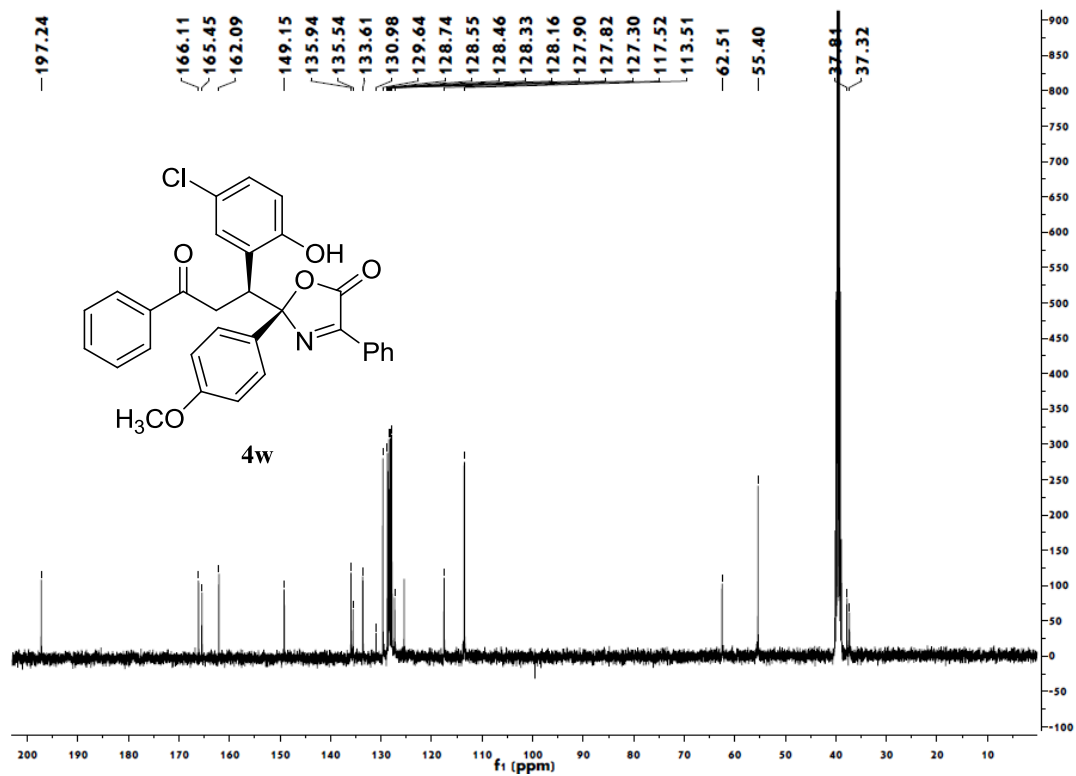
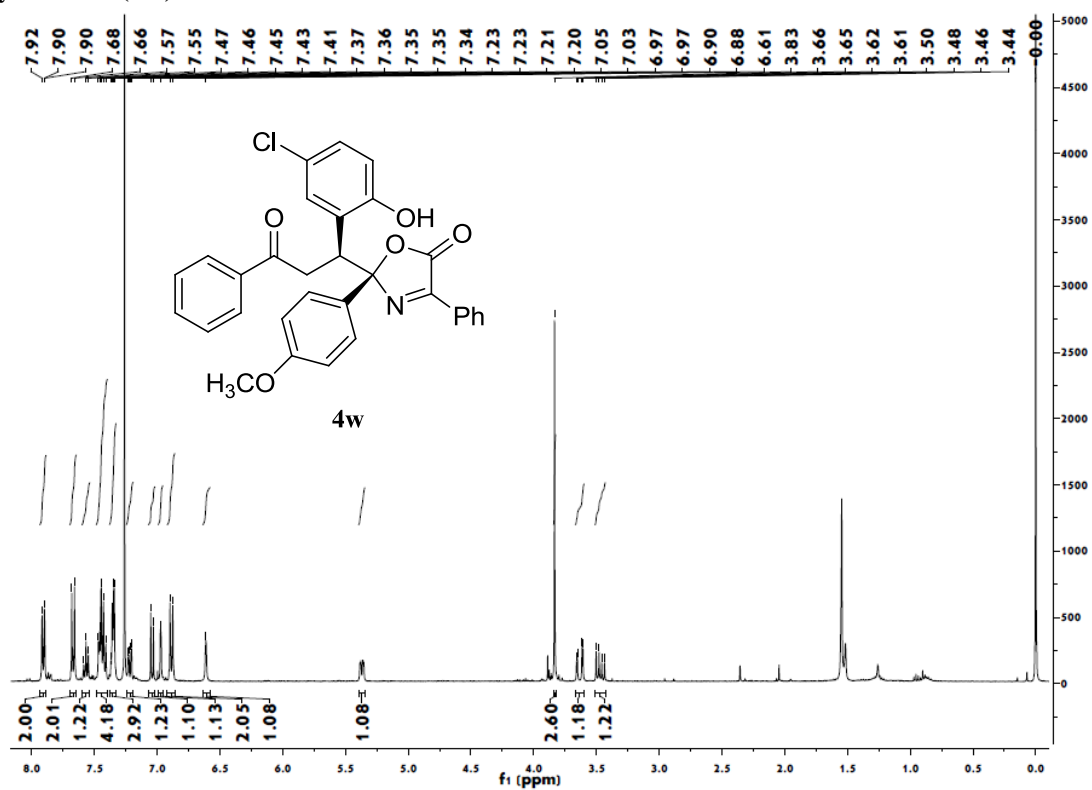
(R)-2-((S)-1-(5-chloro-2-hydroxyphenyl)-3-oxo-3-phenylpropyl)-2-(4-fluorophenyl)-4-phenyl oxazol-5(2H)-one 4u:



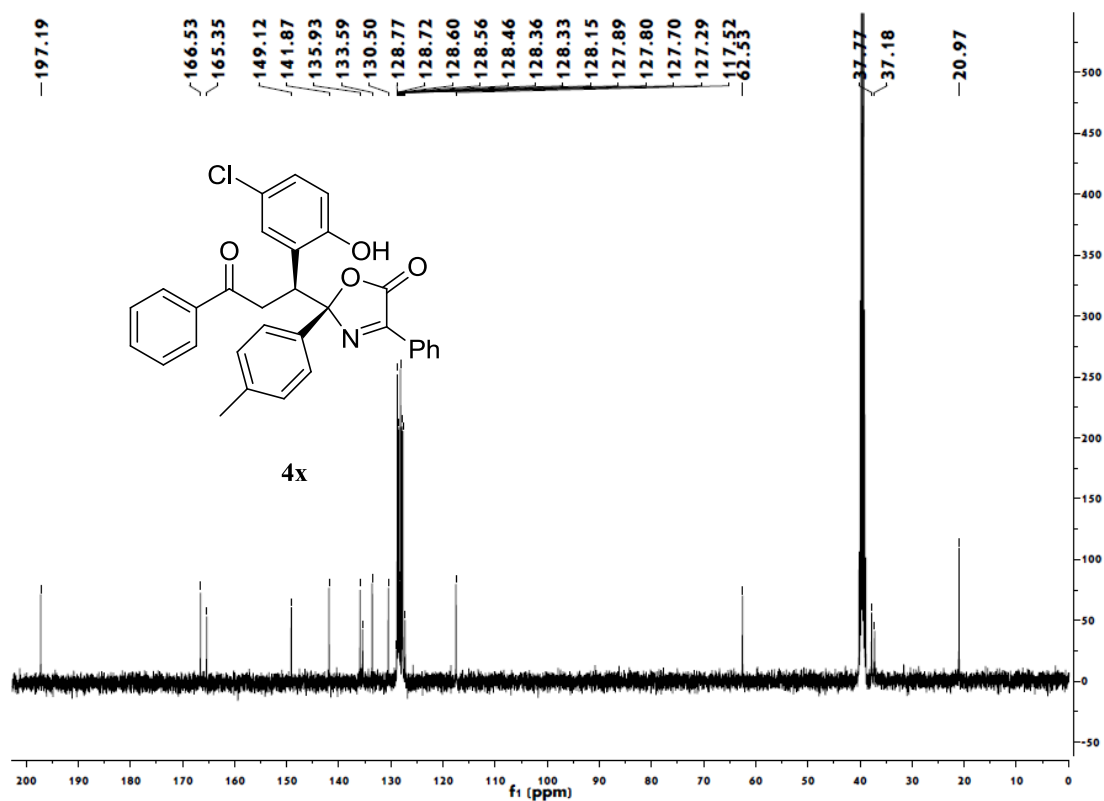
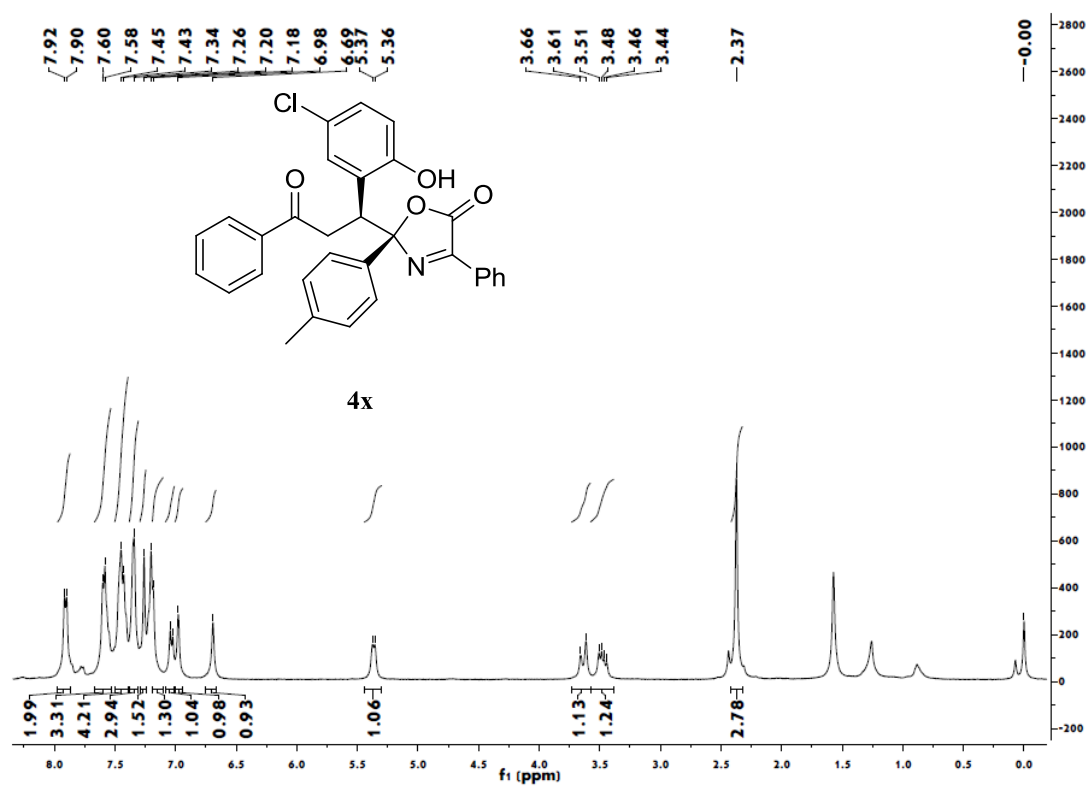
(R)-2-((S)-1-(5-chloro-2-hydroxyphenyl)-3-oxo-3-phenylpropyl)-2-(4-chlorophenyl)-4-phenyl oxazol-5(2H)-one 4v:



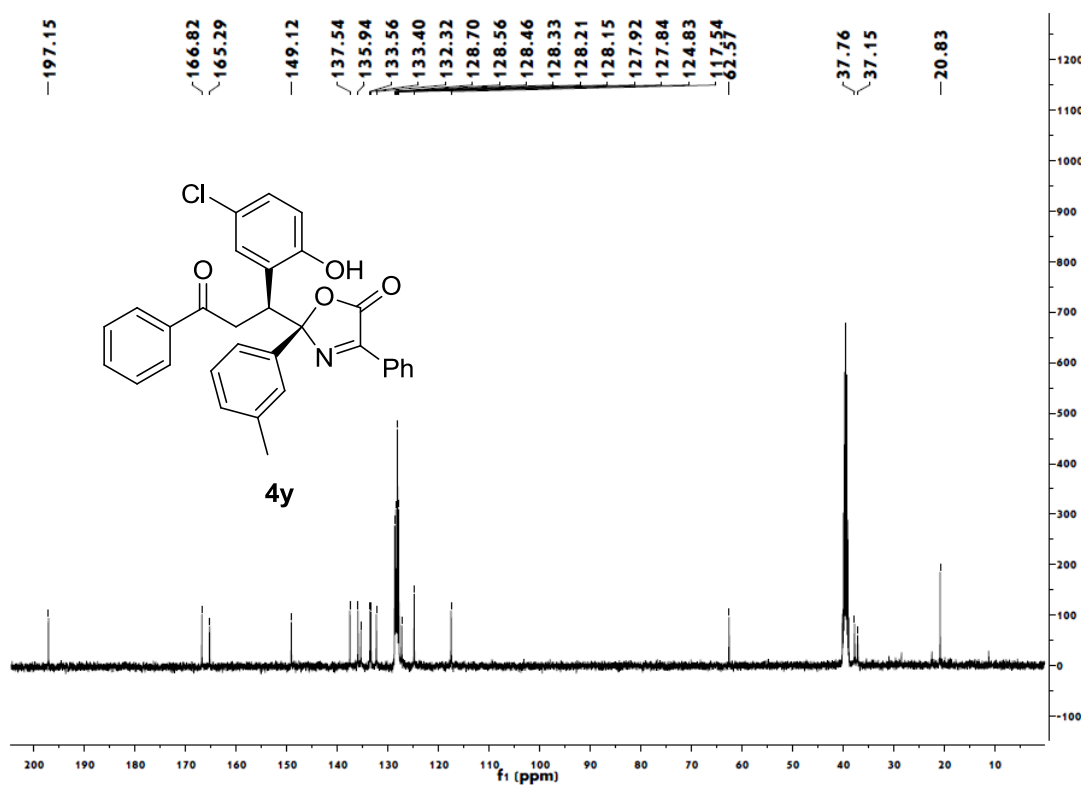
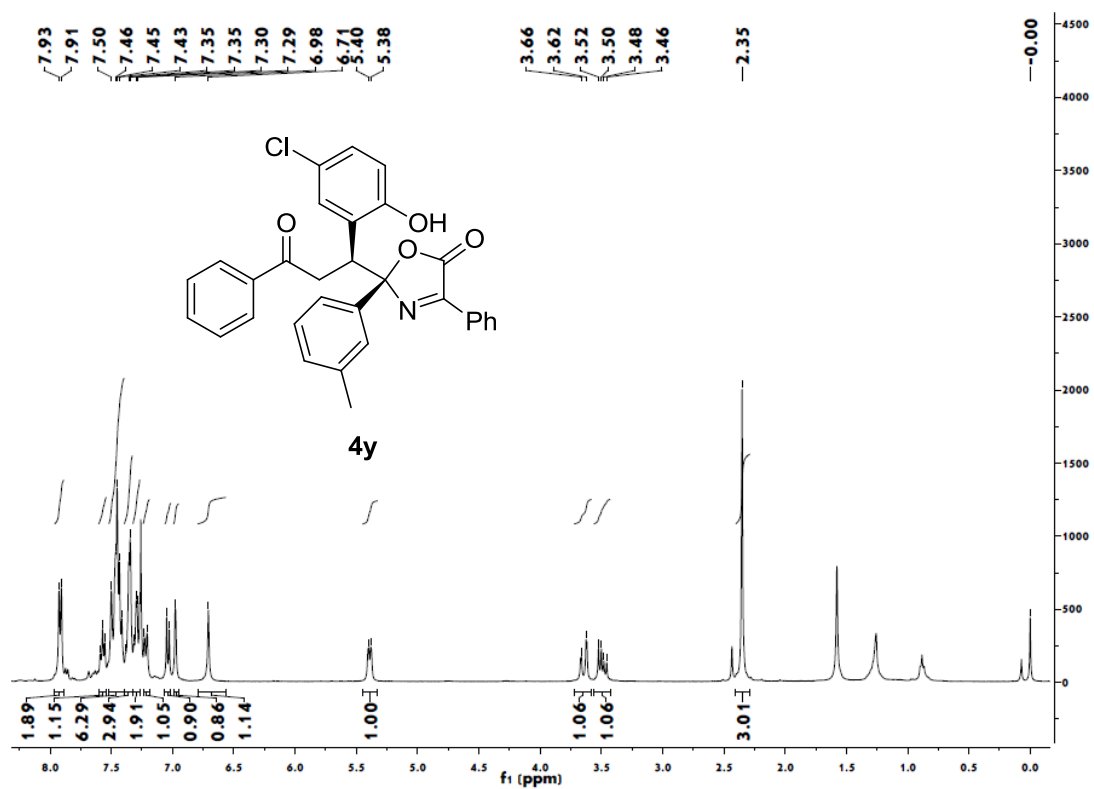
(R)-2-((S)-1-(5-chloro-2-hydroxyphenyl)-3-oxo-3-phenylpropyl)-2-(4-methoxyphenyl)-4-phenyloxazol-5(2H)-one 4w:



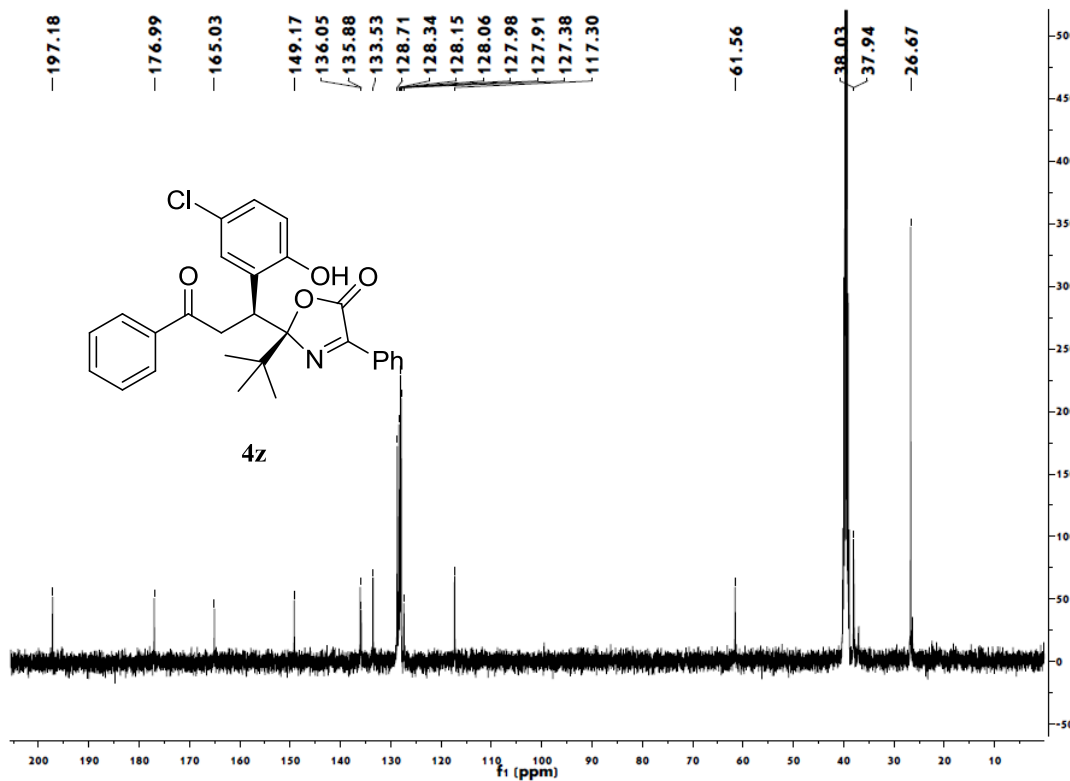
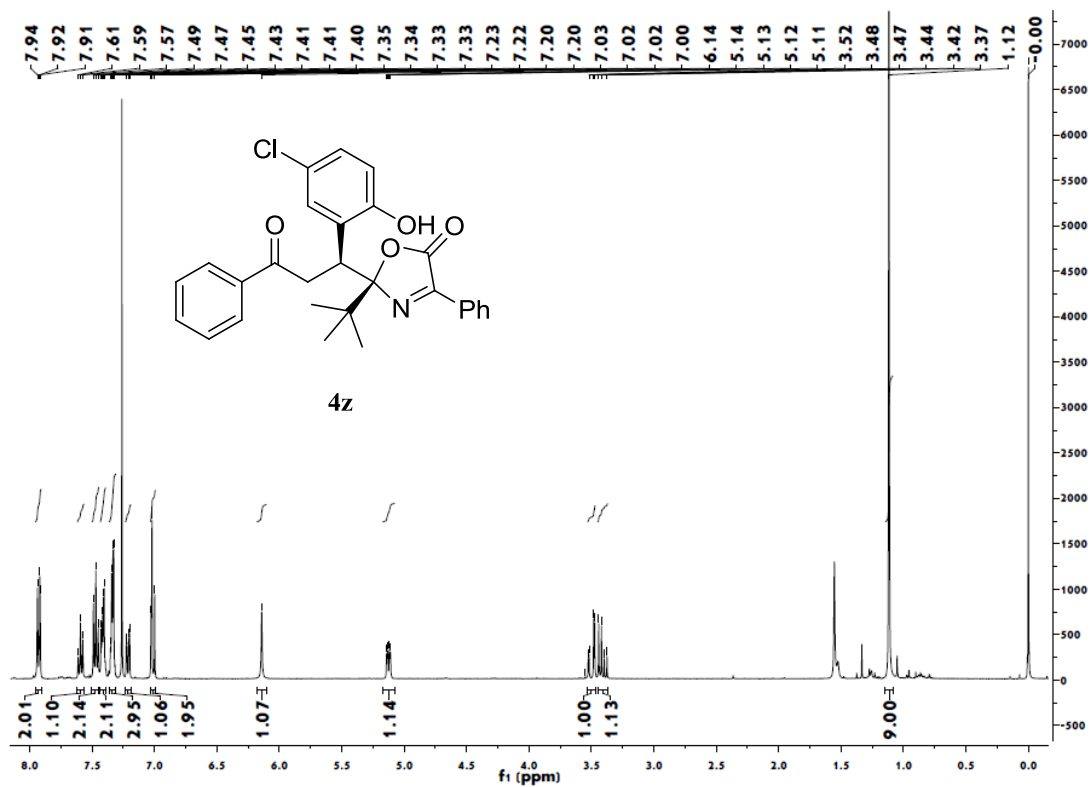
(R)-2-((S)-1-(5-chloro-2-hydroxyphenyl)-3-oxo-3-phenylpropyl)-4-phenyl-2-(p-tolyl)oxazol-5(2H)-one 4x:



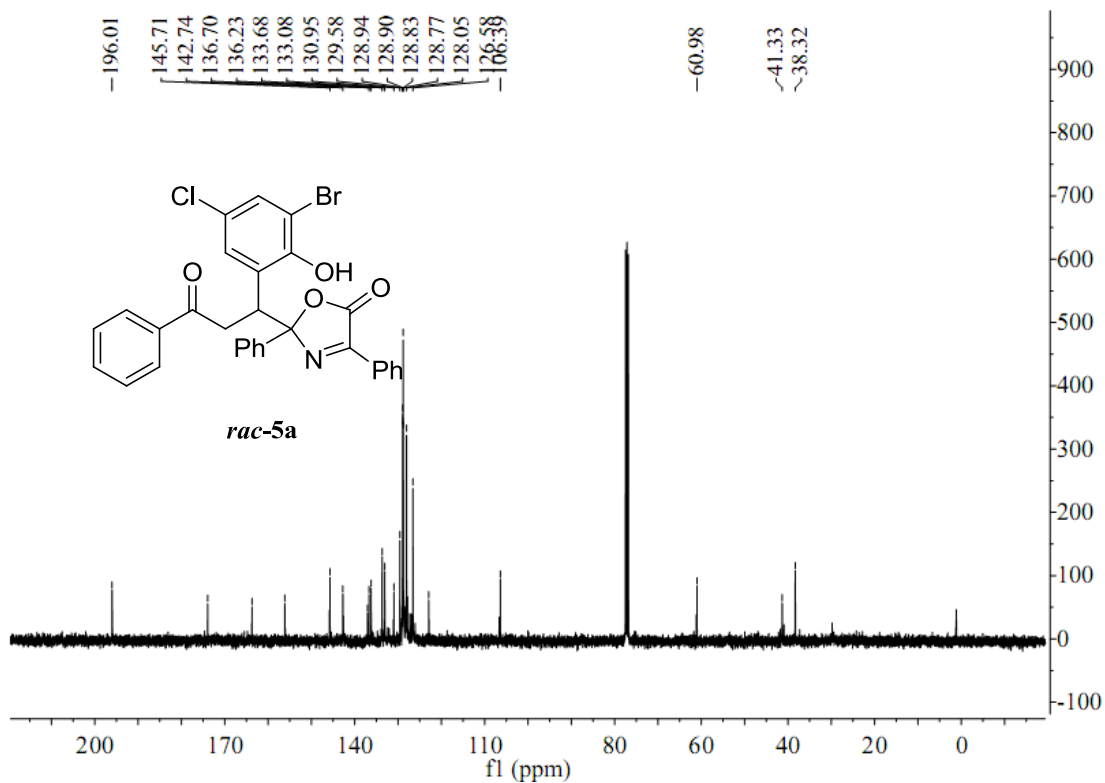
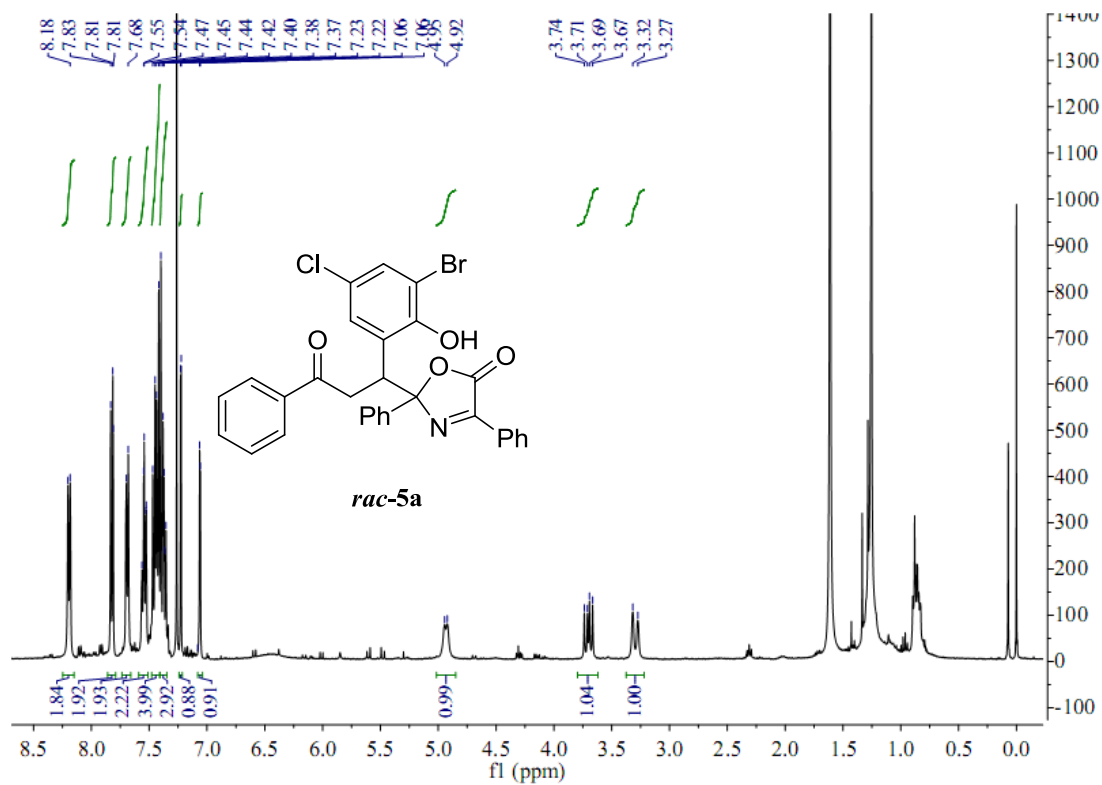
(R)-2-((S)-1-(5-chloro-2-hydroxyphenyl)-3-oxo-3-phenylpropyl)-4-phenyl-2-(m-tolyl)oxazol-5(2H)-one 4y:



(R)-2-(tert-butyl)-2-((S)-1-(5-chloro-2-hydroxyphenyl)-3-oxo-3-phenylpropyl)-4-phenyloxazol-5(2H)-one 4z:

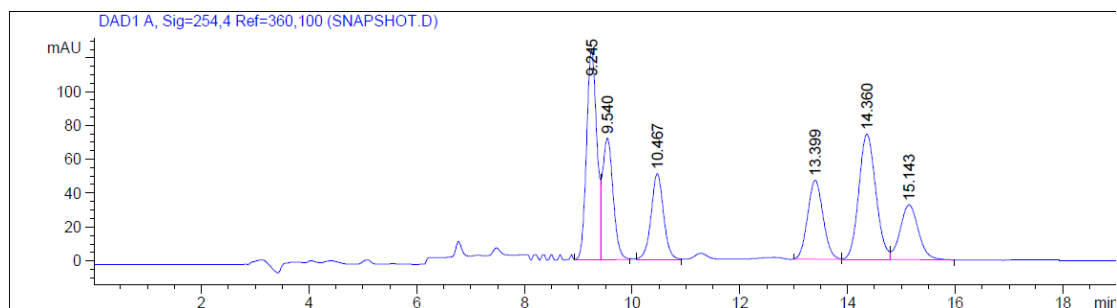


2-(1-(3-bromo-5-chloro-2-hydroxyphenyl)-3-oxo-3-phenylpropyl)-2,4-diphenyloxazol-5(2H)-one *rac-5a*:



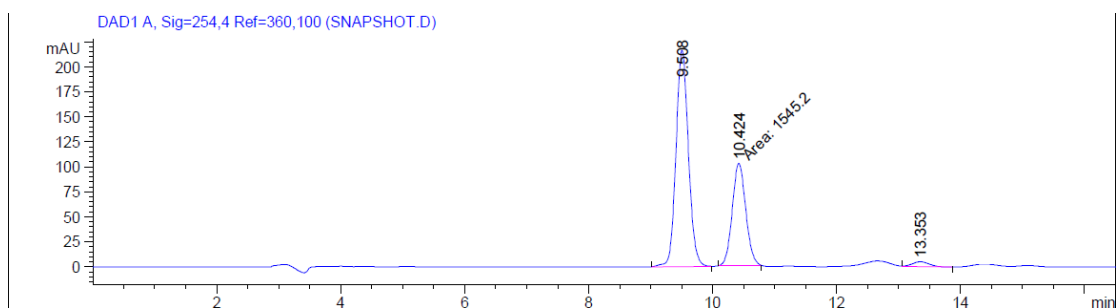
4.HPLC spectra

Mixture of C-2 product and C-4 product



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.245	VV	0.2017	1636.96118	124.24503	24.2015
2	9.540	VB	0.2077	996.75897	71.90916	14.7365
3	10.467	BB	0.2448	812.89142	50.76087	12.0181
4	13.399	BV	0.3092	922.57697	46.56130	13.6397
5	14.360	VV	0.3429	1630.28418	74.03719	24.1027
6	15.143	VB	0.3629	764.42072	32.44015	11.3015

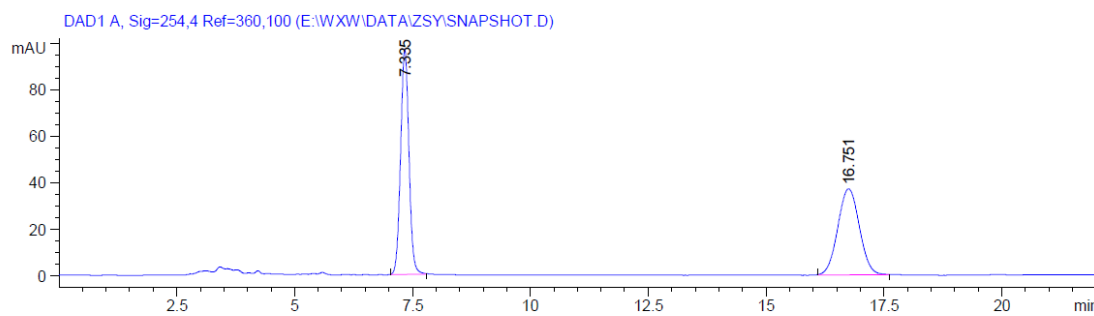
Totals : 6763.89343 399.95369



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.508	BB	0.2148	3020.81812	216.52130	64.7975
2	10.424	MM	0.2514	1545.19958	102.42629	33.1450
3	13.353	VB	0.3035	95.92062	4.96165	2.0575

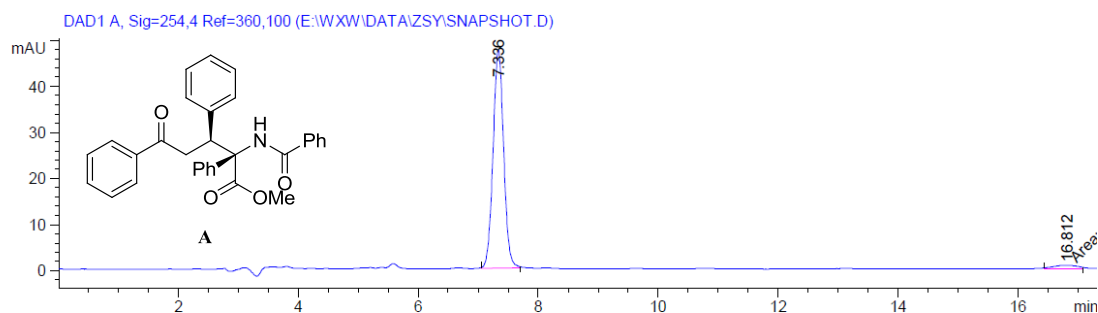
Totals : 4661.93832 323.90924

(2R,3S)-methyl 2-benzamido-5-oxo-2,3,5-triphenylpentanoate A:



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	7.335	BB	0.1894	1189.15381	96.75109	50.1653
2	16.751	BB	0.5014	1181.31555	37.10787	49.8347

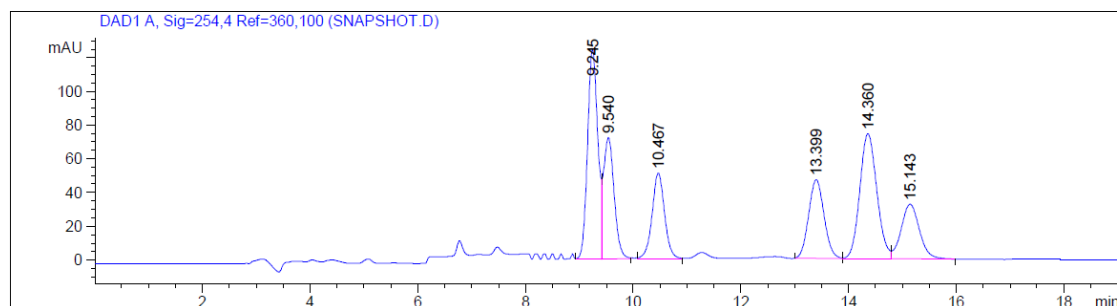
Totals : 2370.46936 133.85896



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	7.336	BB	0.1893	582.09430	47.37637	96.5898
2	16.812	MM	0.4582	20.55163	7.47554e-1	3.4102

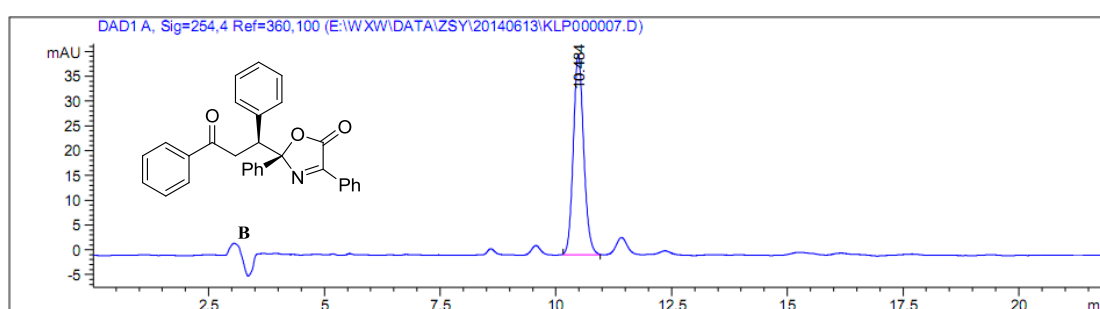
Totals : 602.64593 48.12392

(R)-2-((S)-3-oxo-1,3-diphenylpropyl)-2,4-diphenyloxazol-5(2H)-one B:



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.245	VV	0.2017	1636.96118	124.24503	24.2015
2	9.540	VB	0.2077	996.75897	71.90916	14.7365
3	10.467	BB	0.2448	812.89142	50.76087	12.0181
4	13.399	BV	0.3092	922.57697	46.56130	13.6397
5	14.360	VV	0.3429	1630.28418	74.03719	24.1027
6	15.143	VB	0.3629	764.42072	32.44015	11.3015

Totals : 6763.89343 399.95369

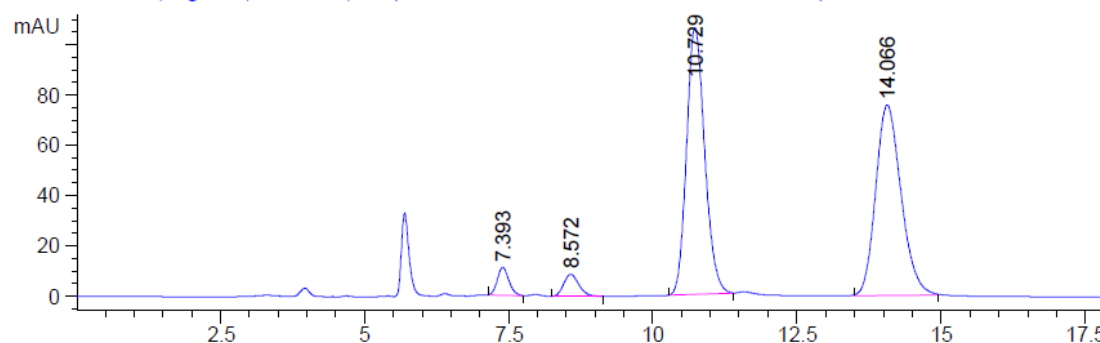


Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	10.484	BB	0.2376	629.29883	40.43816	100.0000

Totals : 629.29883 40.43816

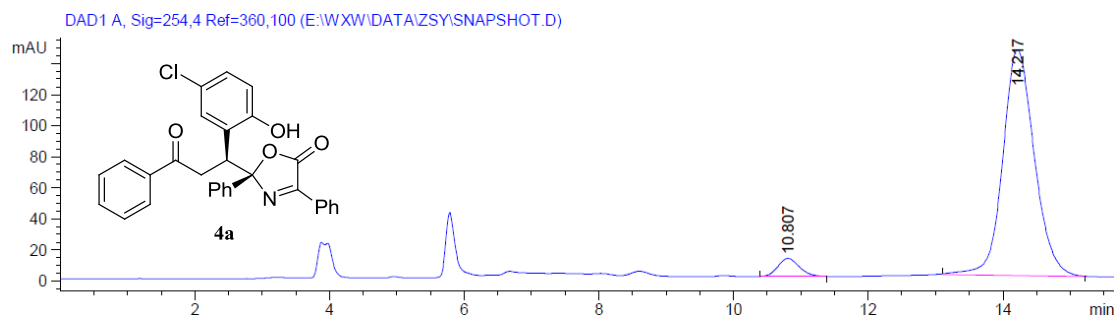
(R)-2-((S)-1-(5-chloro-2-hydroxyphenyl)-3-oxo-3-phenylpropyl)-2,4-diphenyloxazol-5(2H)-one 4a:

DAD1 A, Sig=254,4 Ref=360,100 (E:\WXW\DATA\ZSY\20130523\HXF000007.D)



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	7.393	BB	0.2151	156.11209	11.16907	3.1447
2	8.572	BB	0.2806	160.36469	8.80148	3.2303
3	10.729	BB	0.3394	2323.28784	106.12003	46.7994
4	14.066	BB	0.4698	2324.58911	75.79112	46.8256

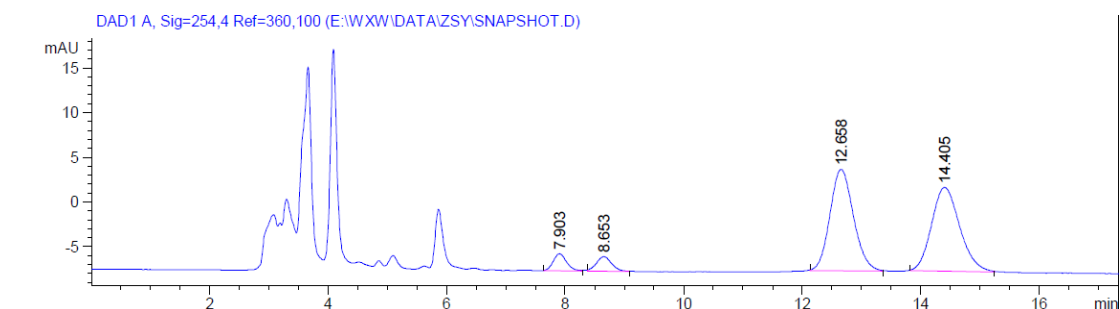
Totals : 4964.35373 201.88169



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	10.807	BB	0.3415	257.74921	11.58993	5.1474
2	14.217	BB	0.4988	4749.65039	145.49837	94.8526

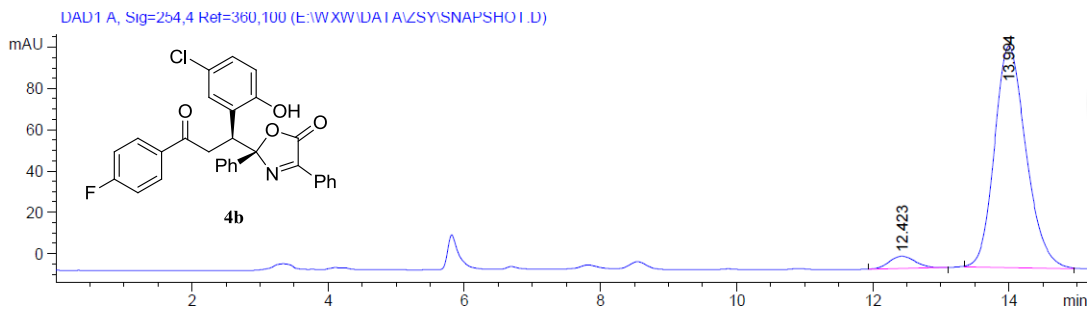
Totals : 5007.39960 157.08830

(R)-2-((S)-1-(5-chloro-2-hydroxyphenyl)-3-(4-fluorophenyl)-3-oxopropyl)-2,4-diphenyloxazol-5(2H)-one 4b:



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	7.903	BB	0.2379	28.98868	1.88017	4.2617
2	8.653	BB	0.2709	28.62154	1.61403	4.2077
3	12.658	BB	0.4276	312.93030	11.35363	46.0044
4	14.405	BB	0.5034	309.67767	9.37552	45.5262

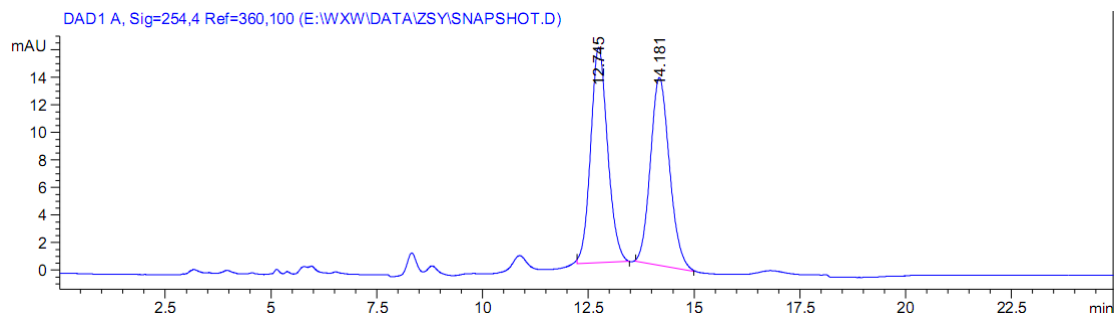
Totals : 680.21819 24.22335



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	12.423	BB	0.3994	157.69139	5.98418	4.3659
2	13.994	BB	0.4951	3454.18750	107.43208	95.6341

Totals : 3611.87889 113.41626

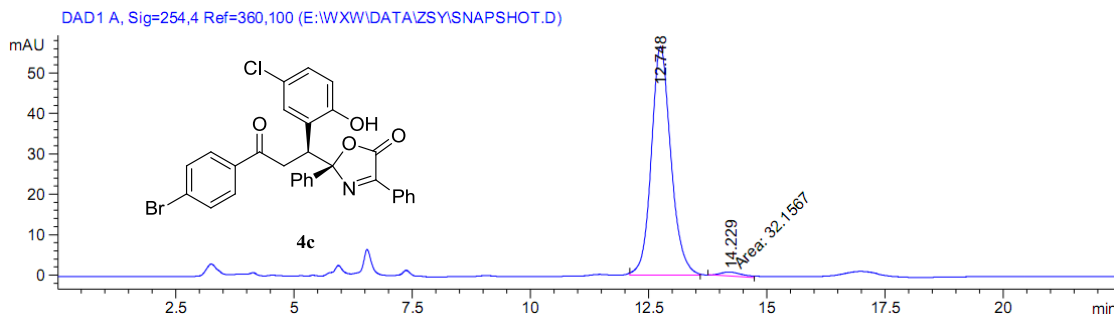
(R)-2-((S)-3-(4-bromophenyl)-1-(5-chloro-2-hydroxyphenyl)-3-oxopropyl)-2,4-diphenyloxazole-5(2H)-one 4c:



Signal 1: DAD1 A, Sig=254,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	12.745	BB	0.4270	435.43790	15.62962	50.4425
2	14.181	BB	0.4777	427.79837	13.64821	49.5575

Totals : 863.23627 29.27783

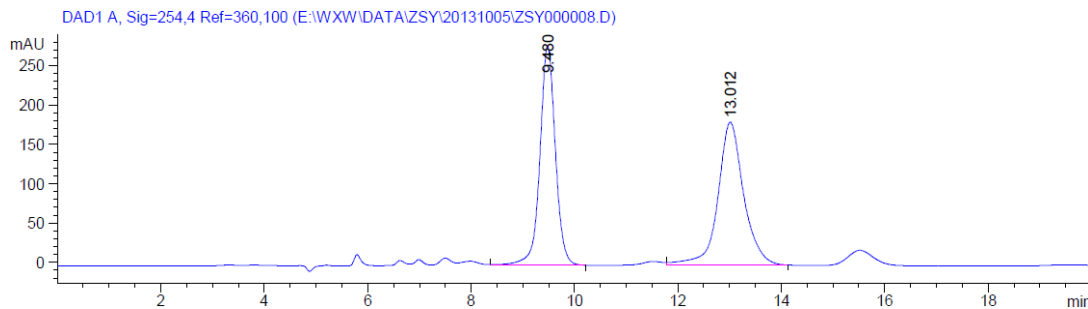


Signal 1: DAD1 A, Sig=254,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	12.748	BB	0.4376	1626.25623	56.53669	98.0610
2	14.229	MM	0.5411	32.15672	9.90514e-1	1.9390

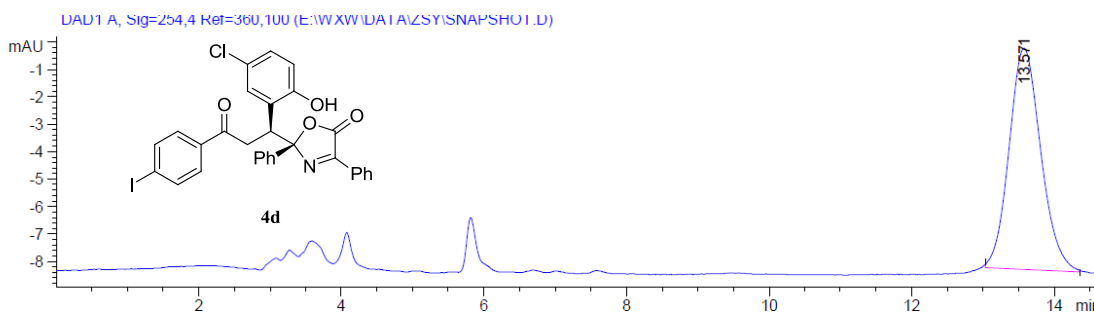
Totals : 1658.41295 57.52720

(R)-2-((S)-1-(5-chloro-2-hydroxyphenyl)-3-(4-iodophenyl)-3-oxopropyl)-2,4-diphenyloxazol-5(2H)-one 4d:



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.480	VB	0.3179	5831.68799	278.97940	48.0449
2	13.012	VB	0.5129	6306.29736	181.69740	51.9551

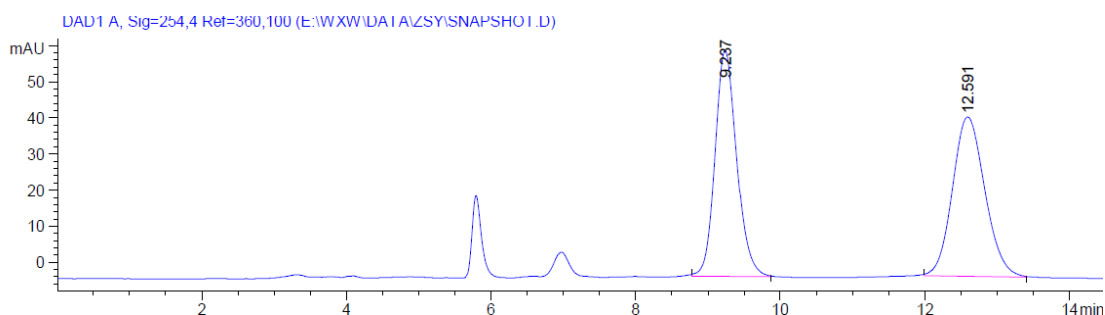
Totals : 1.21380e4 460.67680



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	13.571	BB	0.4616	248.61864	8.06566	100.0000

Totals : 248.61864 8.06566

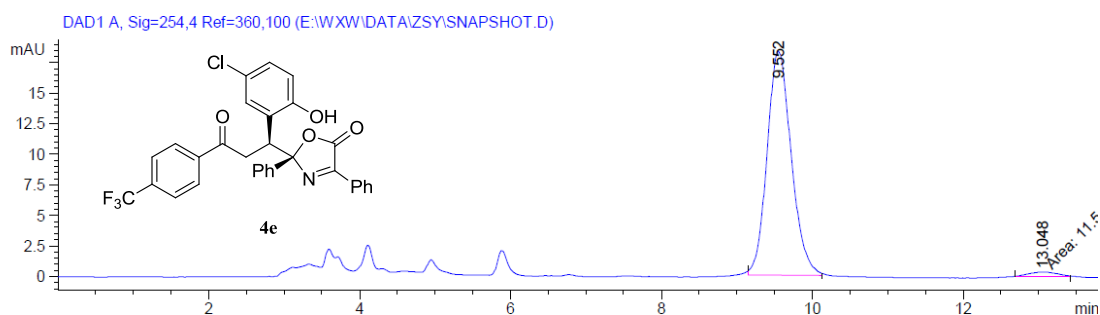
(R)-2-((S)-1-(5-chloro-2-hydroxyphenyl)-3-oxo-3-(4-(trifluoromethyl)phenyl)propyl)-2,4-diphenyloxazol-5(2H)-one 4e:



Signal 1: DAD1 A, Sig=254,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.237	BB	0.3197	1306.43262	62.54980	48.8353
2	12.591	BB	0.4784	1368.74731	44.06165	51.1647

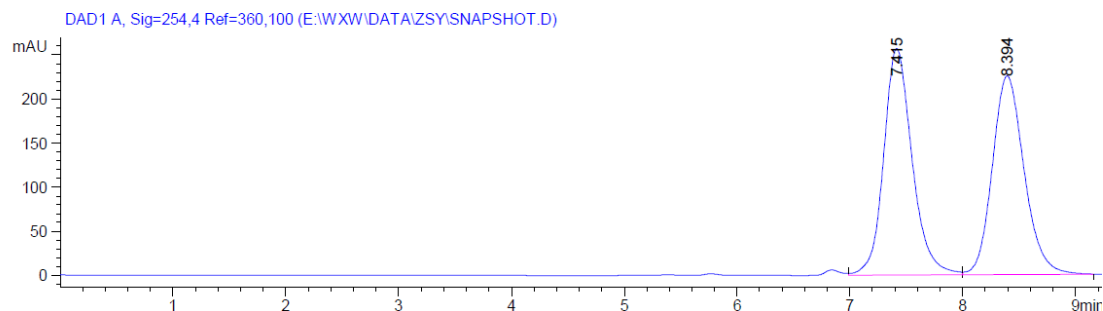
Totals : 2675.17993 106.61146



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	9.552	BB	0.3421	408.48004	18.31945	97.2573
2	13.048	MM	0.4733	11.51925	4.05628e-1	2.7427

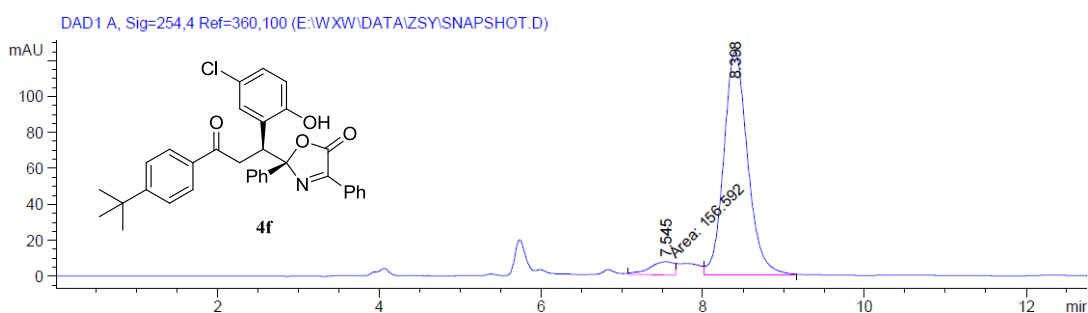
Totals : 419.99930 18.72508

(R)-2-((S)-3-(4-(tert-butyl)phenyl)-1-(5-chloro-2-hydroxyphenyl)-3-oxopropyl)-2,4-diphenylloxazol-5(2H)-one 4f:



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	7.415	VV	0.2667	4505.39502	256.74716	50.4922
2	8.394	VB	0.3007	4417.55664	225.37447	49.5078

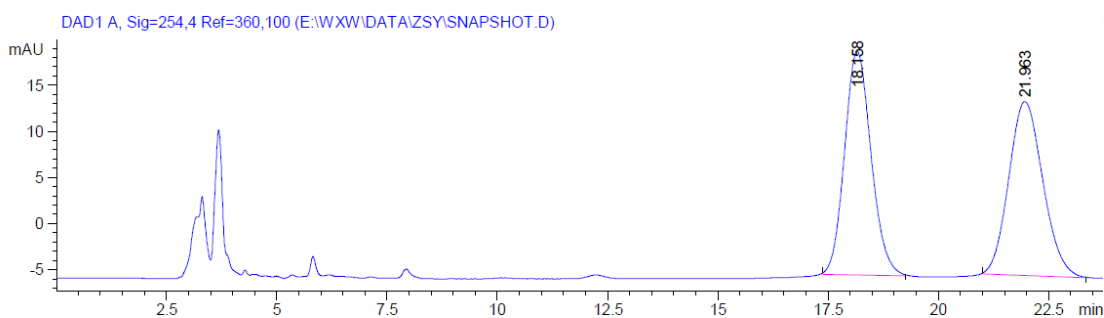
Totals : 8922.95166 482.12163



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	7.518	MM	0.2894	298.04272	17.16557	5.1118
2	8.398	VB	0.3206	5532.45410	261.69754	94.8882

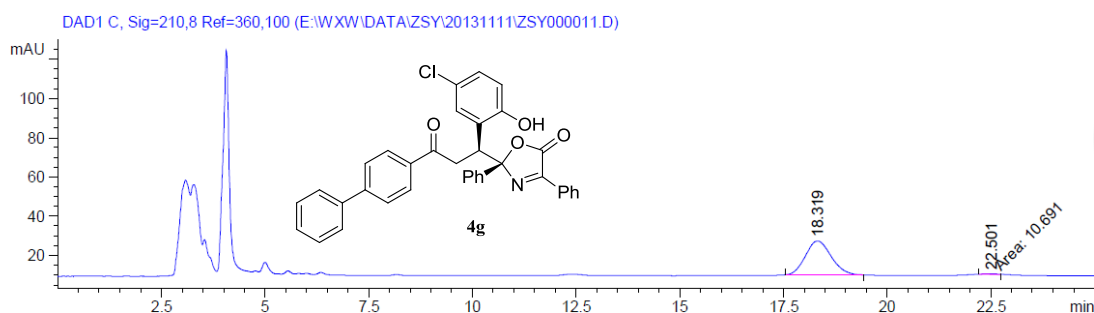
Totals : 5830.49683 278.86311

(R)-2-((S)-3-([1,1'-biphenyl]-4-yl)-1-(5-chloro-2-hydroxyphenyl)-3-oxopropyl)-2,4-diphenylloxazol-5(2H)-one 4g:



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	18.158	BB	0.6439	1012.84735	24.21730	50.0497
2	21.963	BB	0.8168	1010.83740	18.81401	49.9503

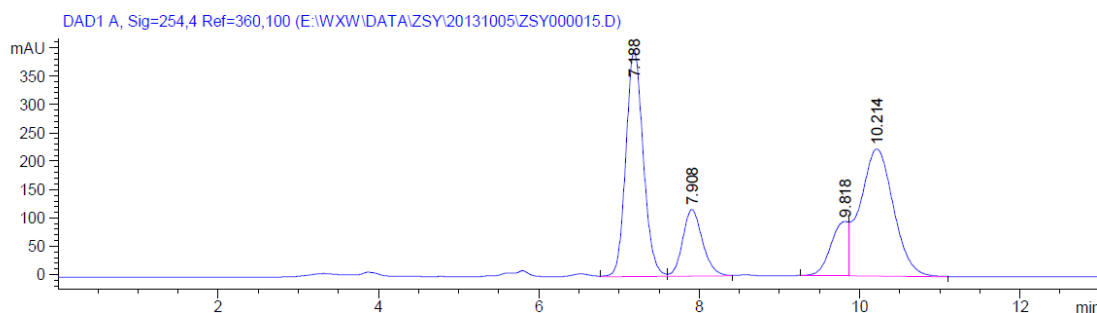
Totals : 2023.68475 43.03132



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	18.319	BB	0.6587	764.00110	17.45240	98.6200
2	22.501	MM	0.4260	10.69103	4.18257e-1	1.3800

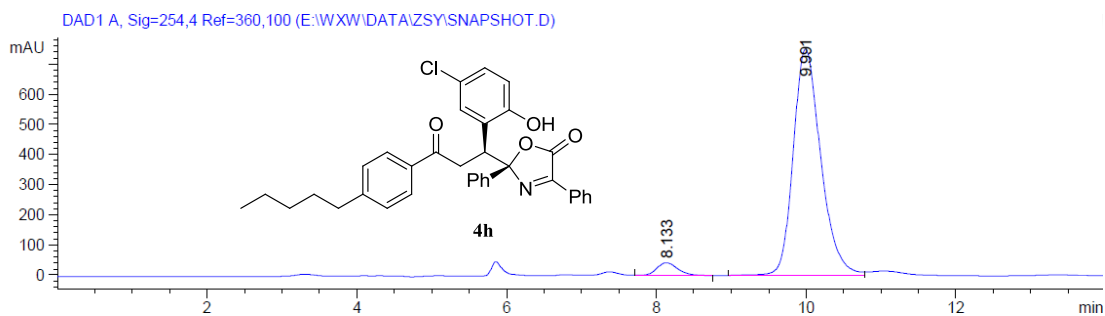
Totals : 774.69213 17.87066

(R)-2-((S)-1-(5-chloro-2-hydroxyphenyl)-3-oxo-3-(4-pentylphenyl)propyl)-2,4-diphenyloxazol-5(2H)-one 4h:



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	7.188	VV	0.2313	6000.66748	399.24829	37.5849
2	7.908	VB	0.2632	2028.69299	117.60777	12.7066
3	9.818	BV	0.2373	1455.97253	95.81074	9.1194
4	10.214	VB	0.4326	6480.29883	224.58270	40.5891

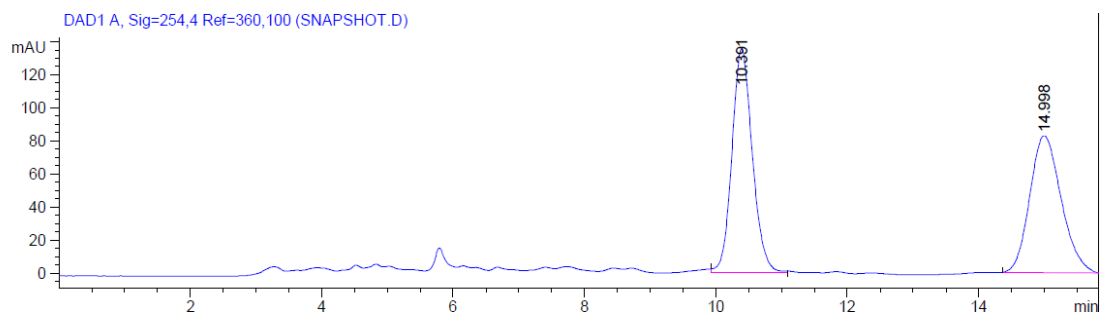
Totals : 1.59656e4 837.24950



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.133	VB	0.3095	903.14673	43.98979	4.4459
2	9.991	BV	0.3929	1.94108e4	752.71051	95.5541

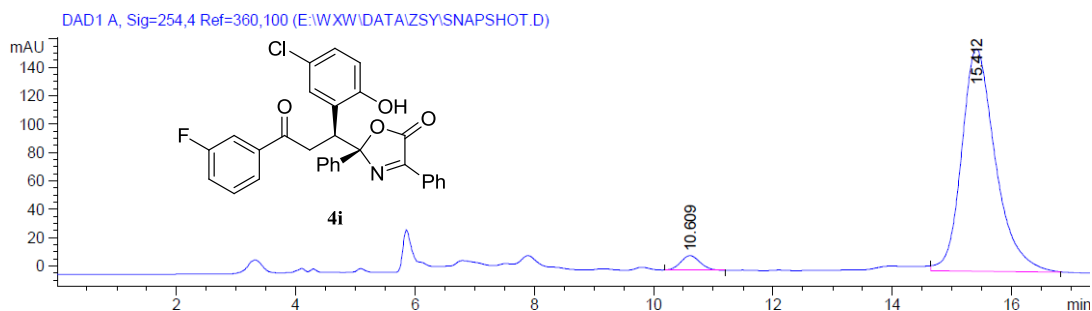
Totals : 2.03139e4 796.70030

(R)-2-((S)-1-(5-chloro-2-hydroxyphenyl)-3-(3-fluorophenyl)-3-oxopropyl)-2,4-diphenyloxazol-5(2H)-one 4i:



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	10.391	BB	0.3318	2912.35791	134.95784	51.3595
2	14.998	BBA	0.5159	2758.17505	82.94743	48.6405

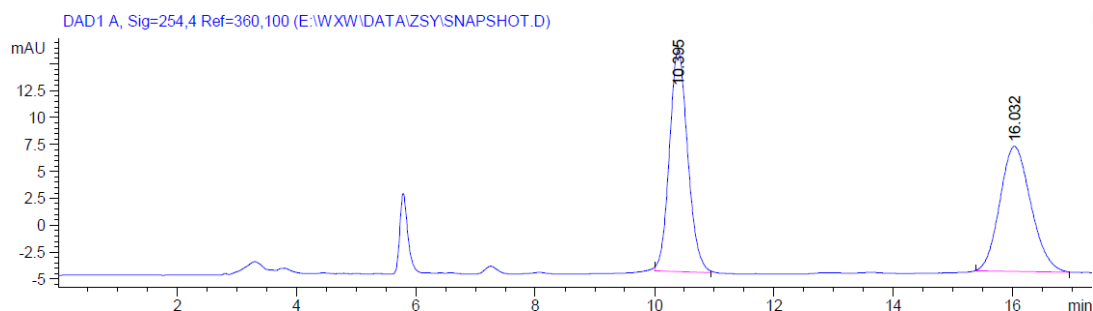
Totals : 5670.53296 217.90527



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	10.609	BB	0.3474	229.39139	10.23819	3.5867
2	15.412	BB	0.5974	6166.27197	156.60374	96.4133

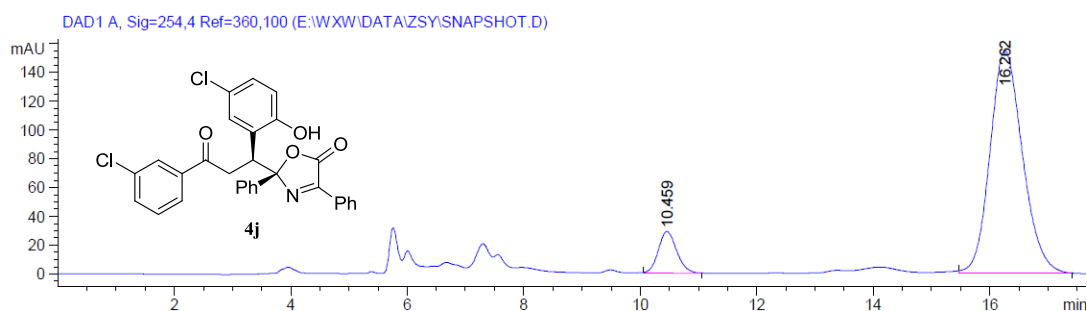
Totals : 6395.66336 166.84193

(R)-2-((S)-1-(5-chloro-2-hydroxyphenyl)-3-(3-chlorophenyl)-3-oxopropyl)-2,4-diphenyloxazole-1-oxide 4j:



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	10.395	BB	0.3278	437.18451	20.58600	50.9853
2	16.032	BB	0.5477	420.28717	11.62799	49.0147

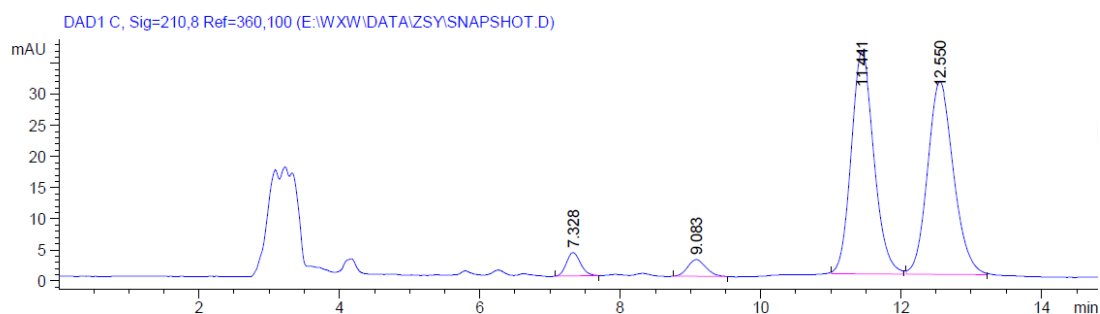
Totals : 857.47168 32.21399



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	10.459	BB	0.3393	639.25317	28.98220	9.6128
2	16.262	BB	0.5972	6010.73486	154.72745	90.3872

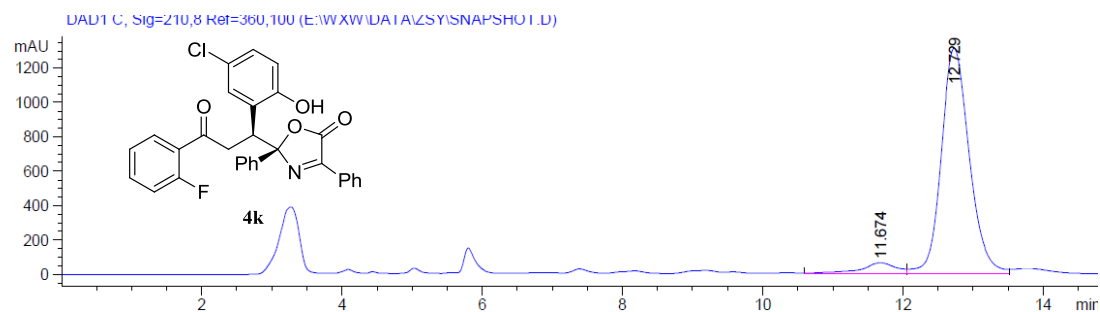
Totals : 6649.98804 183.70965

(R)-2-((S)-1-(5-chloro-2-hydroxyphenyl)-3-(2-fluorophenyl)-3-oxopropyl)-2,4-diphenyloxazol-5(2H)-one 4k:



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	7.328	BB	0.2098	51.40912	3.75279	3.0150
2	9.083	BB	0.2707	48.73916	2.69919	2.8584
3	11.441	BB	0.3450	808.07220	35.85072	47.3909
4	12.550	BB	0.3958	796.90112	31.01489	46.7357

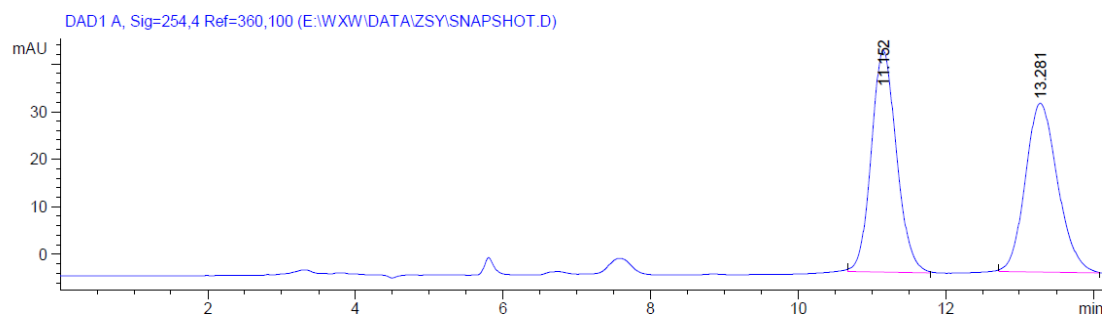
Totals : 1705.12161 73.31759



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	11.649	VV	0.5795	673.79822	15.86538	8.1261
2	12.729	VV	0.4246	7617.94287	273.80069	91.8739

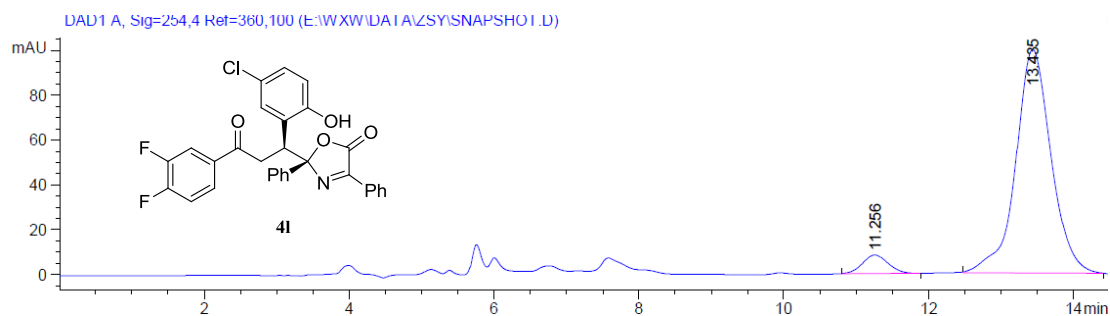
Totals : 8291.74109 289.66607

(R)-2-((S)-1-(5-chloro-2-hydroxyphenyl)-3-(3,4-difluorophenyl)-3-oxopropyl)-2,4-diphenyloxazol-5(2H)-one 4l:



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	11.152	BB	0.3650	1107.30457	46.63414	50.5840
2	13.281	BB	0.4689	1081.73523	35.56060	49.4160

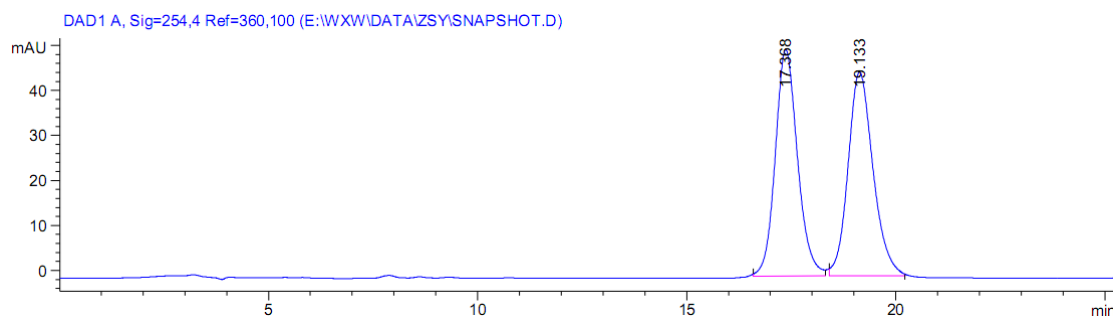
Totals : 2189.03979 82.19474



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	11.256	BB	0.3846	204.26151	8.25716	5.6864
2	13.435	BB	0.5146	3387.85034	99.65593	94.3136

Totals : 3592.11185 107.91309

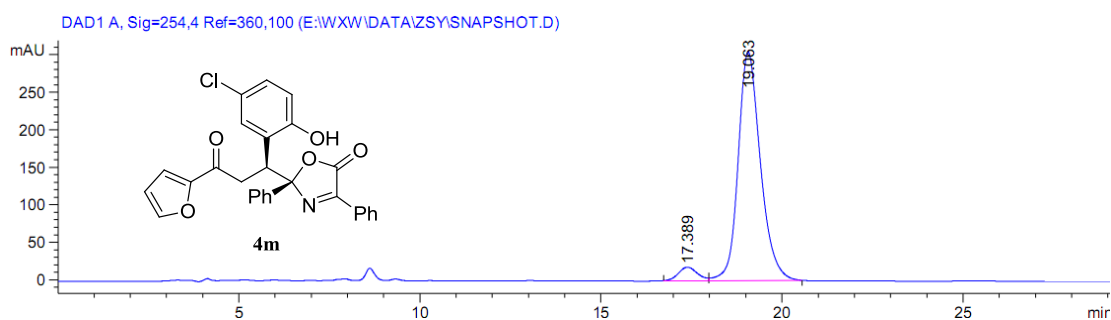
(R)-2-((S)-1-(5-chloro-2-hydroxyphenyl)-3-(furan-2-yl)-3-oxopropyl)-2,4-diphenyloxazol-5(2H)-one 4m:



Signal 1: DAD1 A, Sig=254,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	17.368	BB	0.5668	1860.26318	50.37998	49.7461
2	19.133	BB	0.6300	1879.24963	45.29940	50.2539

Totals : 3739.51282 95.67938

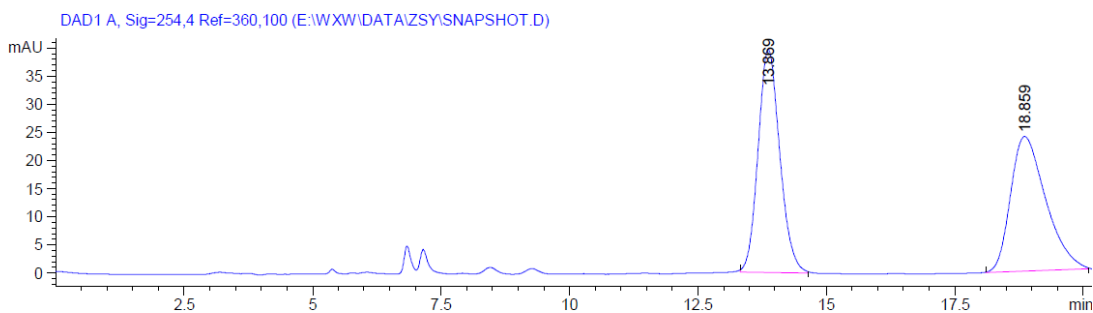


Signal 1: DAD1 A, Sig=254,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	17.389	BV	0.5568	659.62708	18.11646	4.8331
2	19.063	VB	0.6449	1.29884e4	304.92648	95.1669

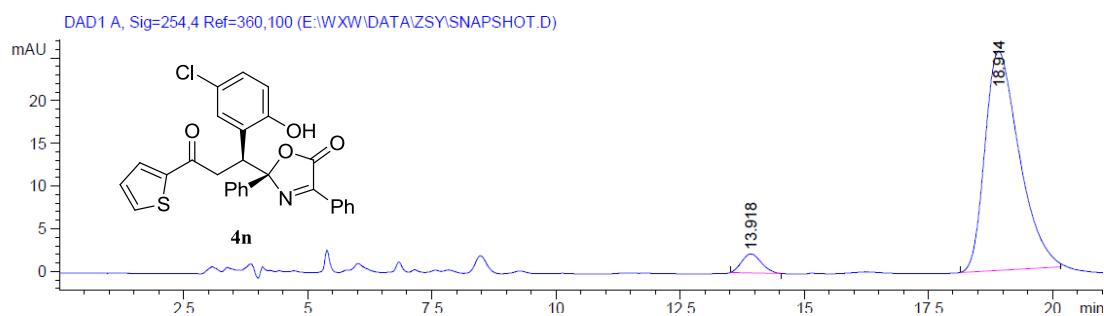
Totals : 1.36481e4 323.04294

(R)-2-((S)-1-(5-chloro-2-hydroxyphenyl)-3-oxo-3-(thiophen-2-yl)propyl)-2,4-diphenyloxazol-5(2H)-one 4n:



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	13.869	BB	0.4516	1161.77478	39.68060	50.4949
2	18.859	BB	0.7087	1139.00037	23.95658	49.5051

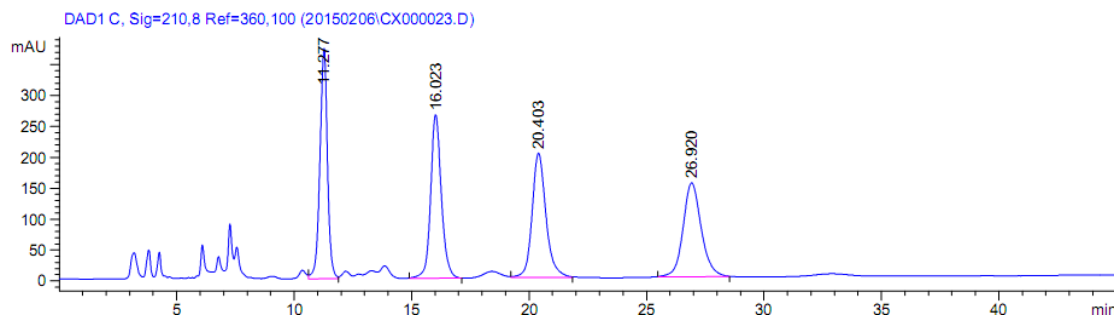
Totals : 2300.77515 63.63718



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	13.918	BB	0.4165	62.80612	2.24437	4.8496
2	18.914	BB	0.7220	1232.26538	25.67003	95.1504

Totals : 1295.07150 27.91440

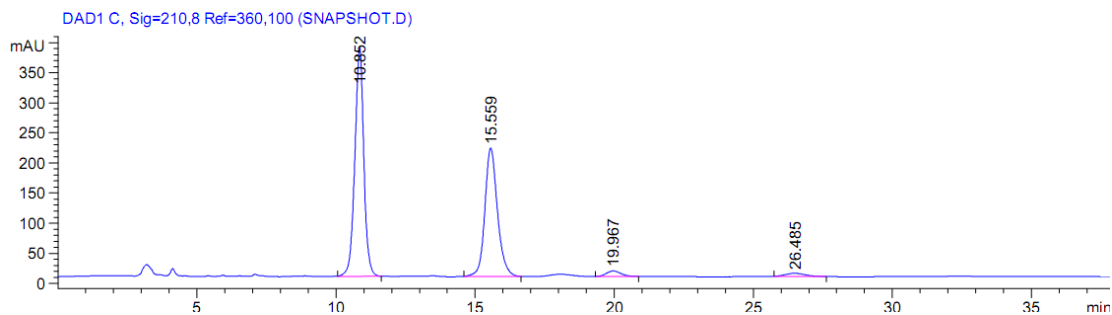
(R)-2-((R)-1-(2-hydroxyphenyl)-3-oxobutyl)-2,4-diphenyloxazol-5(2H)-one 4o:



Signal 2: DAD1 C, Sig=210,8 Ref=360,100

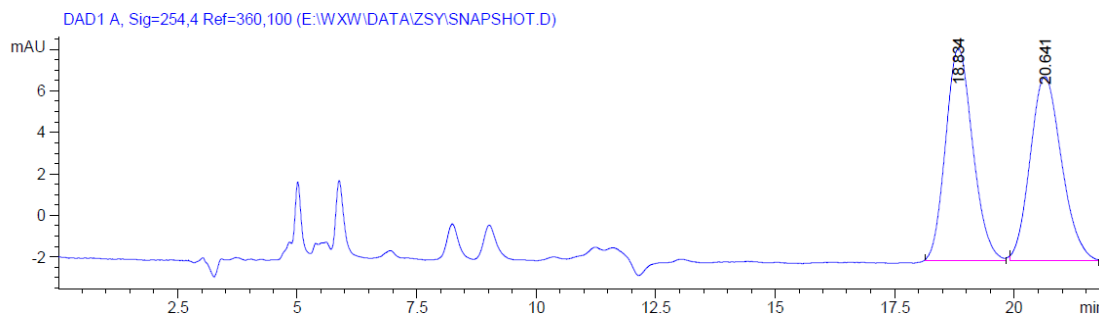
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	11.277	VV	0.3382	8305.47363	372.35892	25.0200
2	16.023	BB	0.4797	8388.65332	264.75119	25.2706
3	20.403	VB	0.6224	8278.40820	201.03572	24.9385
4	26.920	BB	0.8199	8222.81738	152.29443	24.7710

Totals : 3.31954e4 990.44026



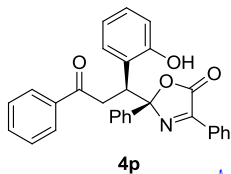
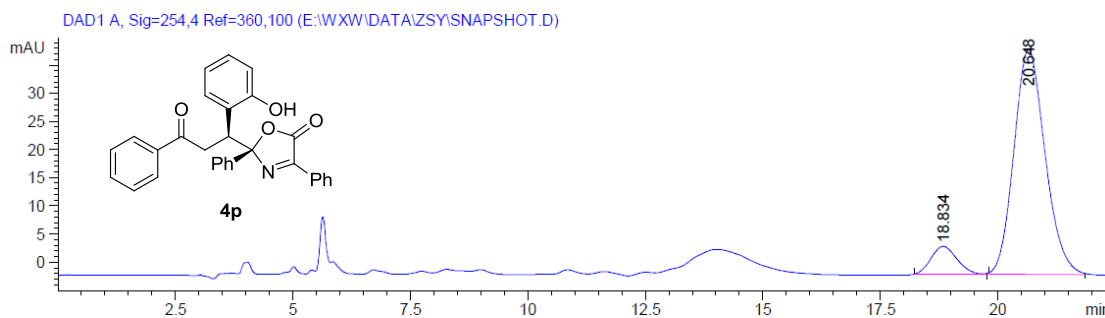
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	10.852	BB	0.3422	8531.89453	379.59662	53.5308
2	15.559	BB	0.4793	6769.18359	213.82991	42.4712
3	19.967	BB	0.5668	346.85751	9.22258	2.1763
4	26.485	BB	0.7716	290.36166	5.55714	1.8218

(R)-2-((S)-1-(2-hydroxyphenyl)-3-oxo-3-phenylpropyl)-2,4-diphenyloxazol-5(2H)-one 4p:



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	18.834	BB	0.5988	405.75568	10.22869	50.0549
2	20.641	BB	0.6722	404.86493	8.87493	49.9451

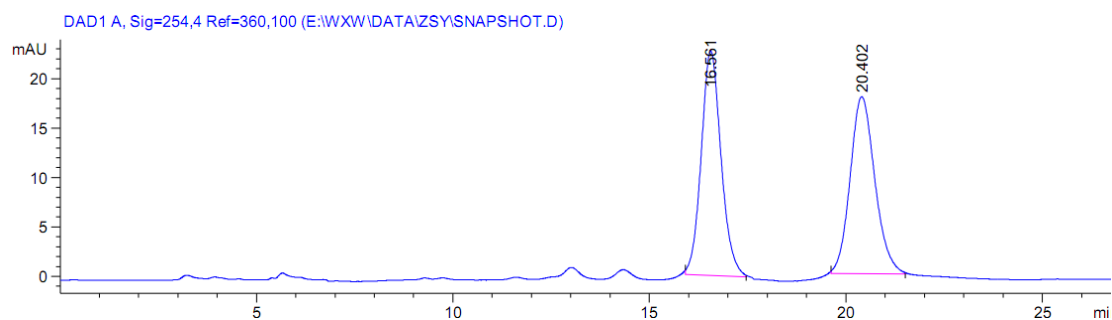
Totals : 810.62061 19.10362



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	18.834	BB	0.5633	190.54471	4.94727	9.3940
2	20.648	BB	0.7092	1837.82275	39.91592	90.6060

Totals : 2028.36746 44.86319

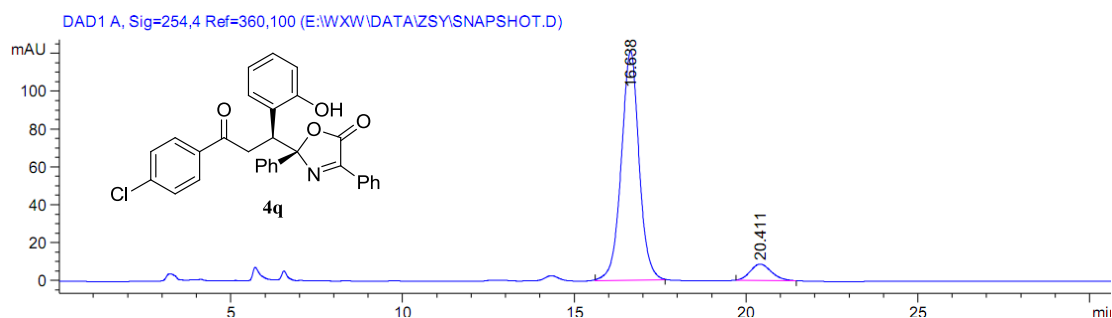
(R)-2-((S)-3-(4-chlorophenyl)-1-(2-hydroxyphenyl)-3-oxopropyl)-2,4-diphenyloxazol-5(2H)-one 4q:



Signal 1: DAD1 A, Sig=254,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	16.561	BB	0.5352	797.14575	22.72779	50.4466
2	20.402	BB	0.6643	783.03064	17.90201	49.5534

Totals : 1580.17639 40.62980

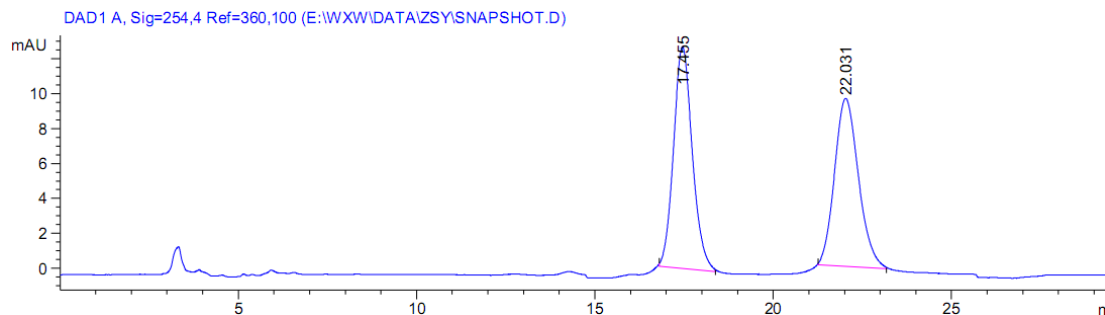


Signal 1: DAD1 A, Sig=254,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	16.638	BB	0.5482	4363.21729	121.13003	92.1681
2	20.411	BB	0.6420	370.75818	8.68640	7.8319

Totals : 4733.97546 129.81643

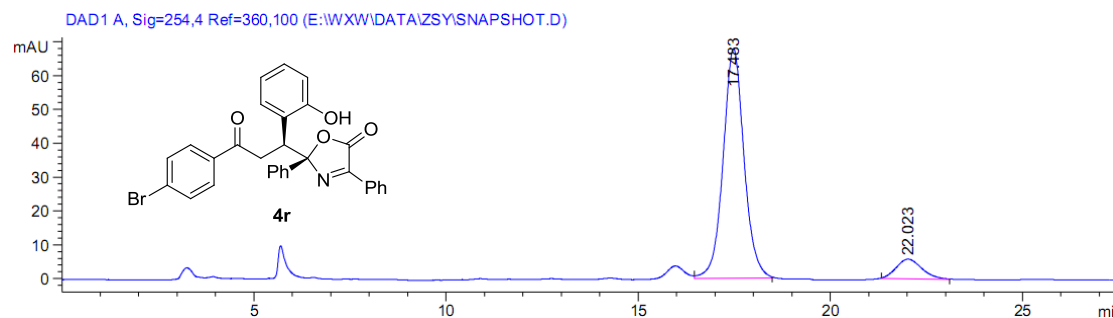
(R)-2-((S)-3-(4-bromophenyl)-1-(2-hydroxyphenyl)-3-oxopropyl)-2,4-diphenyloxazol-5(2H)-one 4r:



Signal 1: DAD1 A, Sig=254,4 Ref=360,100

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	17.455	BB	0.5562	464.09714	12.70448	50.8405
2	22.031	BB	0.6996	448.75284	9.63178	49.1595

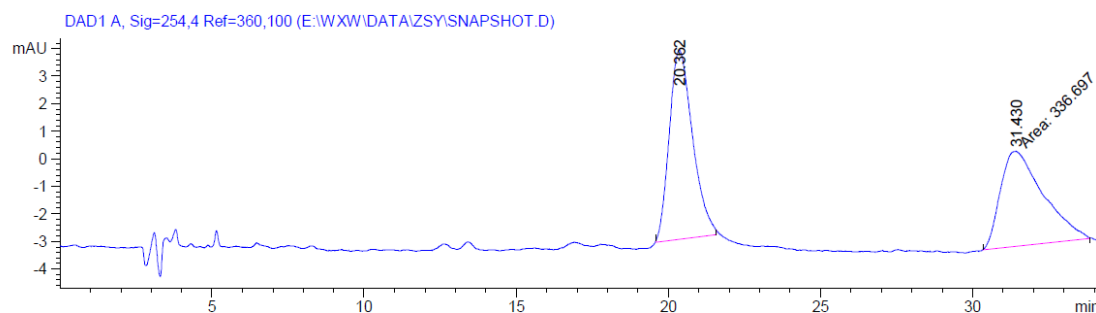
Totals : 912.84998 22.33625



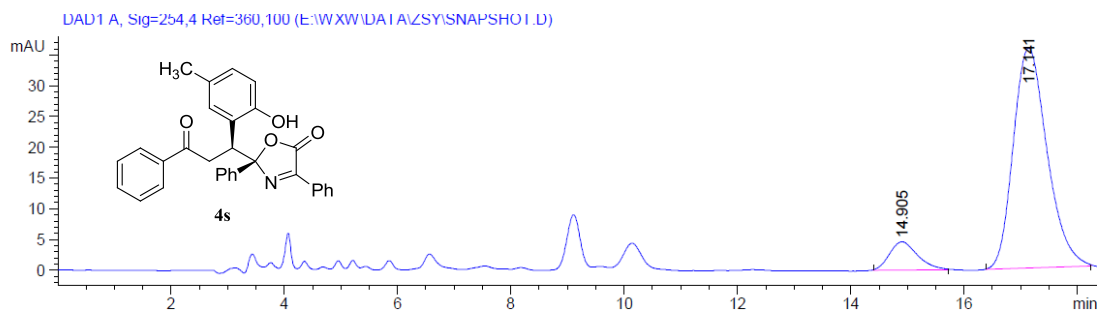
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	17.483	VB	0.5742	2572.49316	67.87194	90.6596
2	22.023	BB	0.6823	265.03549	5.76581	9.3404

Totals : 2837.52866 73.63775

(R)-2-((S)-1-(2-hydroxy-5-methylphenyl)-3-oxo-3-phenylpropyl)-2,4-diphenyloxazol-5(2H)-one 4s:

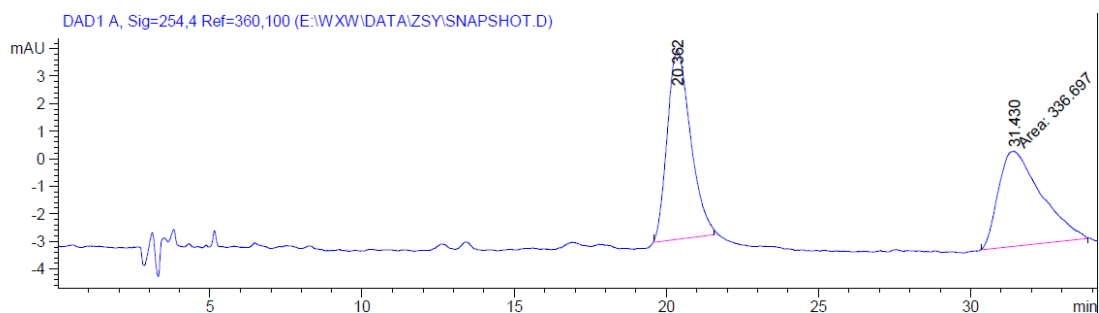


Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	20.362	BB	0.7562	365.21555	6.86967	52.0315
2	31.430	MM	1.6225	336.69739	3.45866	47.9685
Totals :				701.91293	10.32833	

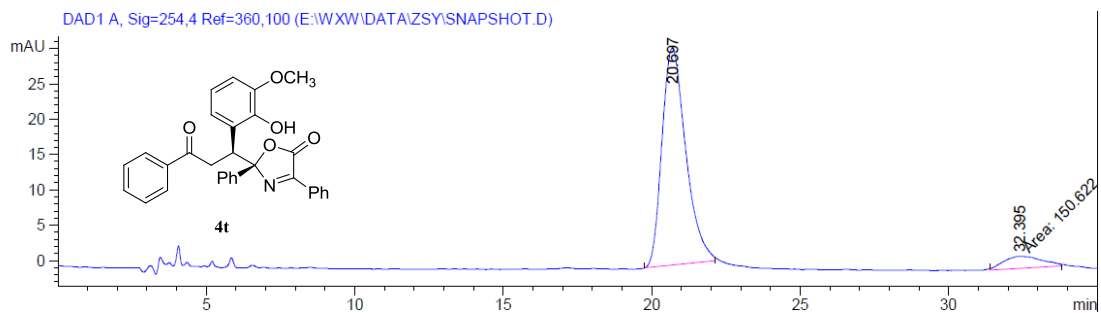


Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	14.905	BB	0.5207	160.82855	4.61386	9.7987
2	17.141	BB	0.6415	1480.48987	35.72097	90.2013
Totals :				1641.31842	40.33484	

(R)-2-((S)-1-(2-hydroxy-3-methoxyphenyl)-3-oxo-3-phenylpropyl)-2,4-diphenyloxazol-5(2H)-one 4t:



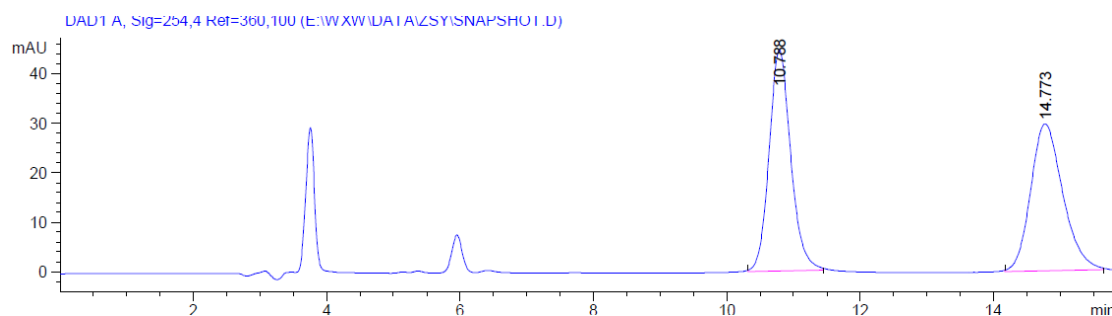
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	20.362	BB	0.7562	365.21555	6.86967	52.0315
2	31.430	MM	1.6225	336.69739	3.45866	47.9685
Totals :				701.91293	10.32833	



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	20.697	BB	0.8417	1708.51855	30.67898	91.8983
2	32.395	MM	1.4689	150.62170	1.70907	8.1017

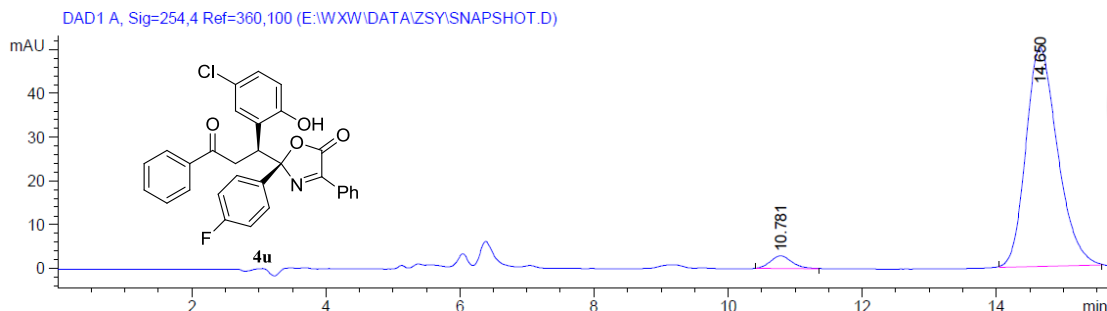
Totals : 1859.14026 32.38805

(R)-2-((S)-1-(5-chloro-2-hydroxyphenyl)-3-oxo-3-phenylpropyl)-2-(4-fluorophenyl)-4-phenyl oxazol-5(2H)-one 4u:



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	10.788	BB	0.3430	1008.60913	44.73605	50.3825
2	14.773	BB	0.5121	993.29333	29.70720	49.6175

Totals : 2001.90247 74.44325

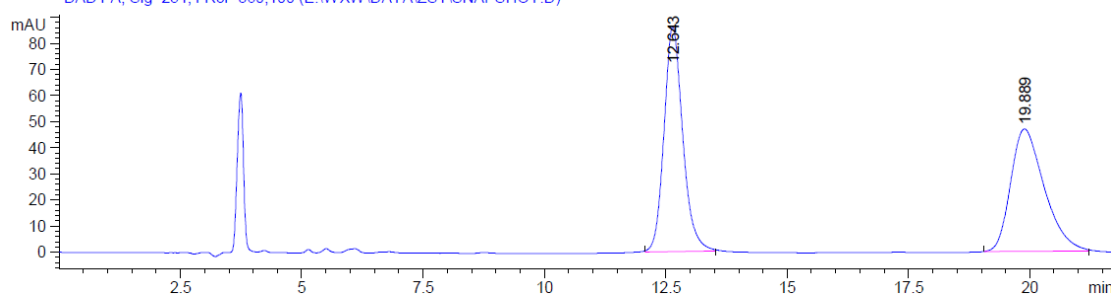


Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	10.781	BB	0.3491	66.32739	2.94076	3.8704
2	14.650	BB	0.5076	1647.37695	50.10408	96.1296

Totals : 1713.70435 53.04484

(R)-2-((S)-1-(5-chloro-2-hydroxyphenyl)-3-oxo-3-phenylpropyl)-2-(4-chlorophenyl)-4-phenyl oxazol-5(2H)-one 4v:

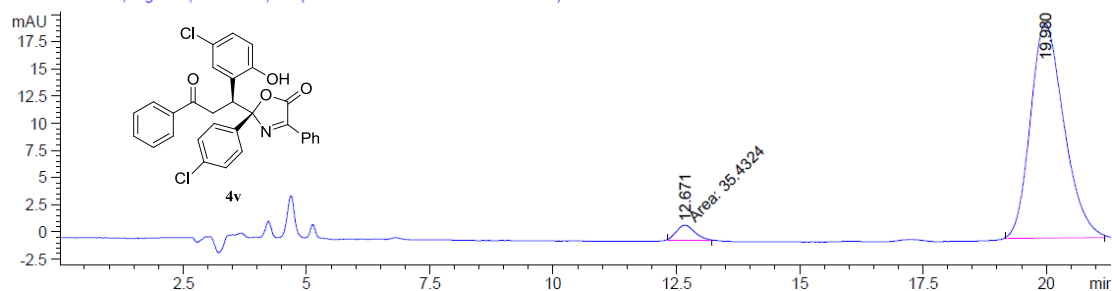
DAD1 A, Sig=254,4 Ref=360,100 (E:\WXW\DATA\ZSY\SNAPSHOT.D)



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	12.643	BB	0.4092	2311.32764	86.10265	50.6205
2	19.889	BB	0.7348	2254.66162	46.90391	49.3795

Totals : 4565.98926 133.00656

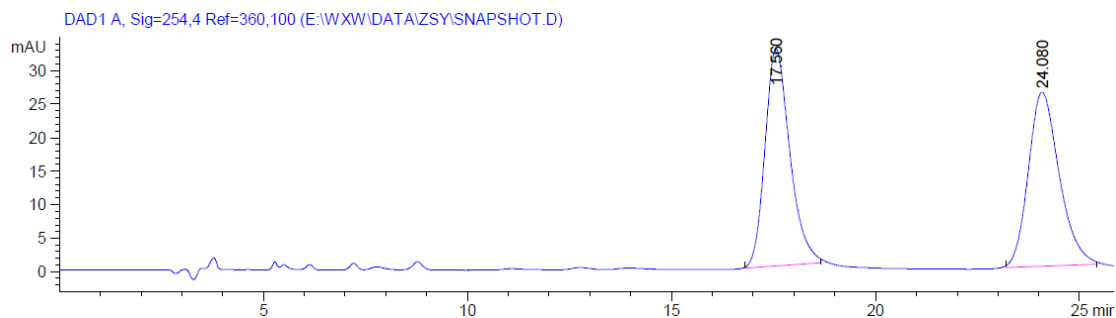
DAD1 A, Sig=254,4 Ref=360,100 (E:\WXW\DATA\ZSY\SNAPSHOT.D)



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	12.671	MM	0.4309	35.43245	1.37051	3.6571
2	19.980	BB	0.7109	933.43420	19.76682	96.3429

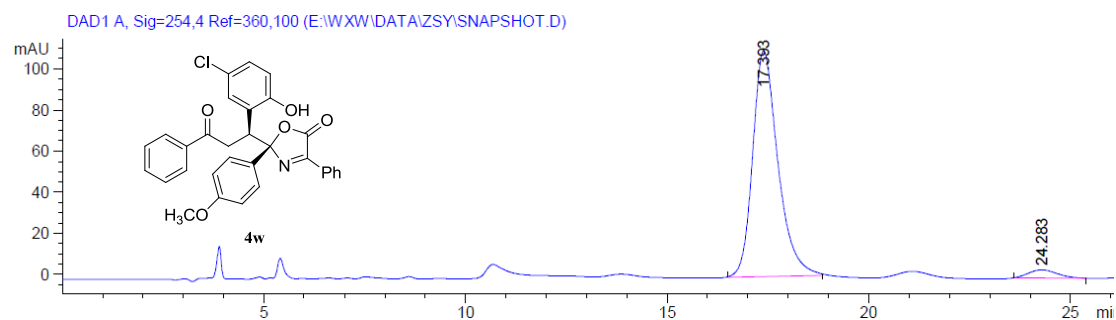
Totals : 968.86665 21.13732

(R)-2-((S)-1-(5-chloro-2-hydroxyphenyl)-3-oxo-3-phenylpropyl)-2-(4-methoxyphenyl)-4-phenyloxazol-5(2H)-one 4w:



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	17.560	BB	0.6477	1370.44861	32.38824	50.1658
2	24.080	BB	0.7841	1361.38745	25.94932	49.8342

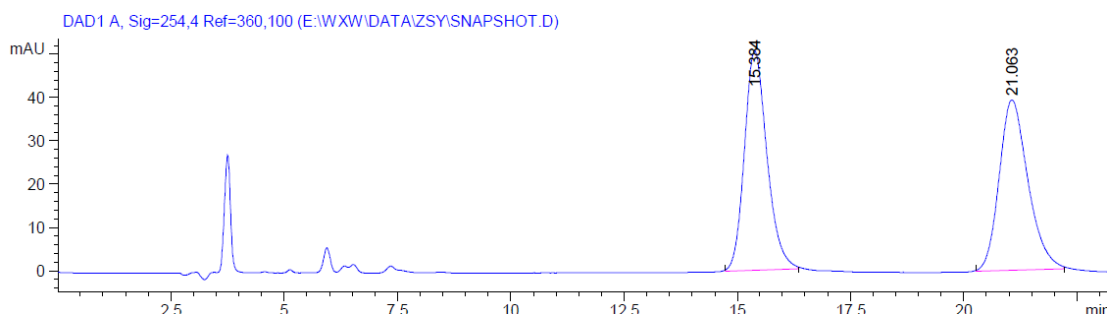
Totals : 2731.83606 58.33756



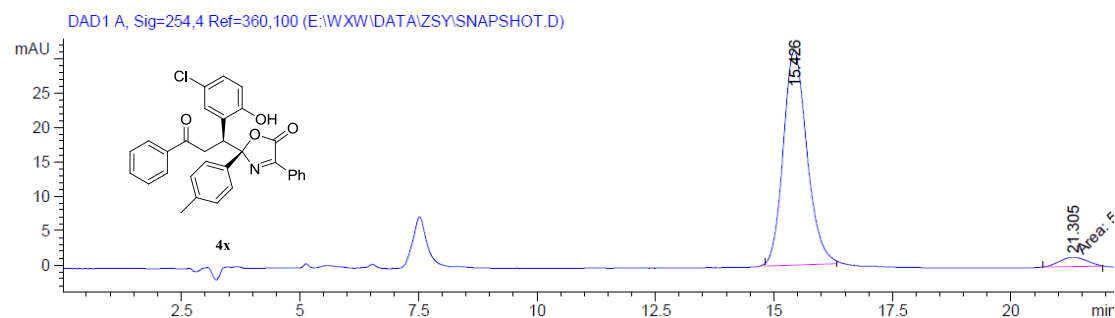
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	17.393	BB	0.6546	4787.62793	109.82763	95.9939
2	24.283	BB	0.6560	199.79886	3.95105	4.0061

Totals : 4987.42679 113.77868

(R)-2-((S)-1-(5-chloro-2-hydroxyphenyl)-3-oxo-3-phenylpropyl)-4-phenyl-2-(p-tolyl)oxazol-5(2H)-one 4x:

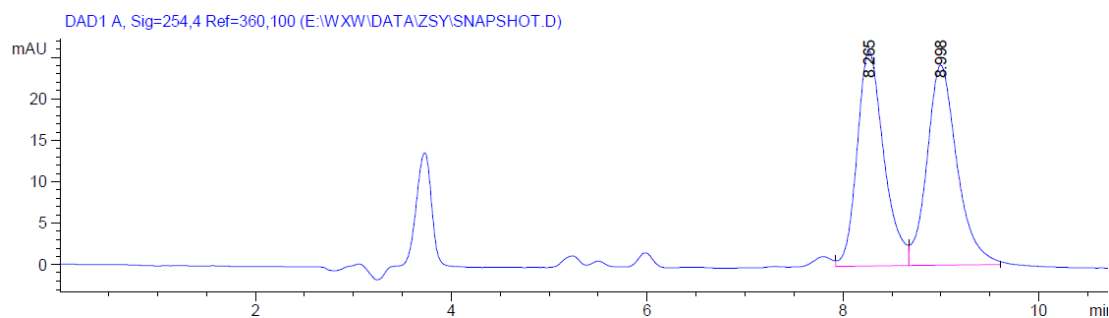


Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	15.384	BB	0.5283	1762.74756	50.86429	50.2966
2	21.063	BB	0.6734	1741.95825	39.43139	49.7034
Totals :				3504.70581	90.29568	



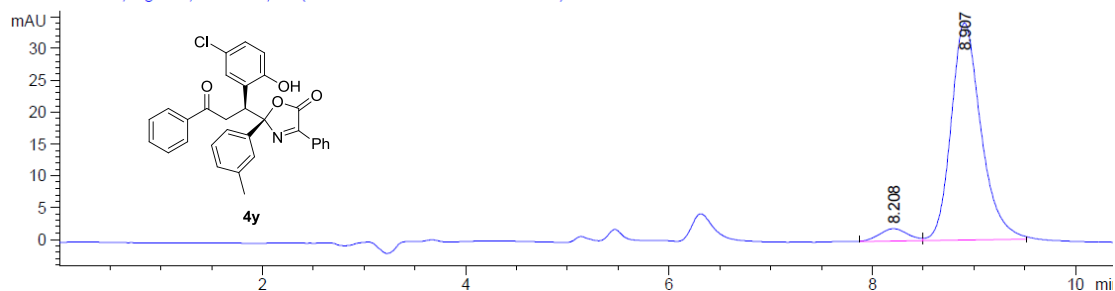
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	15.426	BB	0.5274	1082.51367	31.15401	95.1902
2	21.305	MM	0.6720	54.69764	1.35649	4.8098
Totals :				1137.21132	32.51050	

(R)-2-((S)-1-(5-chloro-2-hydroxyphenyl)-3-oxo-3-phenylpropyl)-4-phenyl-2-(m-tolyl)oxazol-5(2H)-one 4y:



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.265	VV	0.2871	492.73190	26.00286	48.8232
2	8.998	VB	0.3215	516.48523	24.15354	51.1768
Totals :				1009.21713	50.15641	

DAD1 A, Sig=254,4 Ref=360,100 (E:\WXW\DATA\ZSY\SNAPSHOT.D)

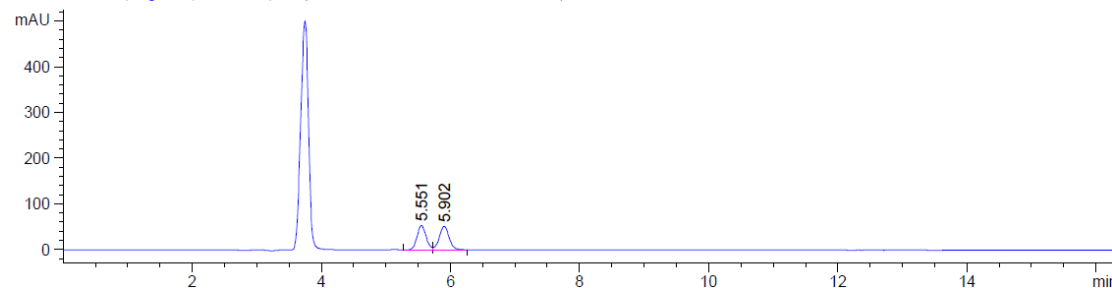


Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	8.208	BV	0.2865	36.46616	1.92953	4.9785
2	8.907	VB	0.3080	696.01282	34.11446	95.0215

Totals : 732.47898 36.04399

**(R)-2-(tert-butyl)-2-((S)-1-(5-chloro-2-hydroxyphenyl)-3-oxo-3-phenylpropyl)-4-phenyloxazo
l-5(2H)-one 4z:**

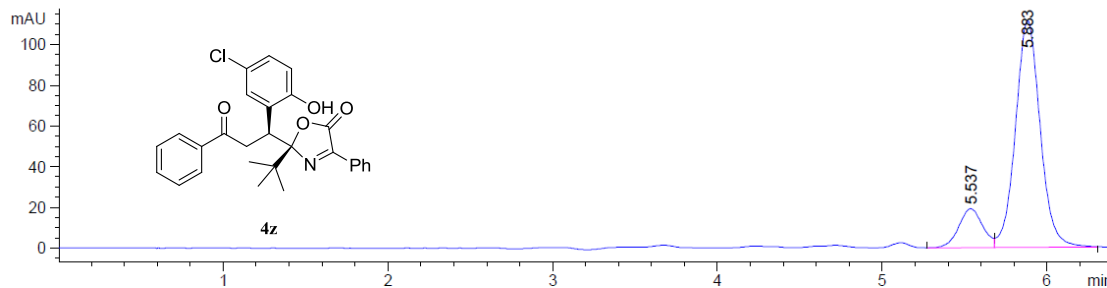
DAD1 A, Sig=254,4 Ref=360,100 (E:\WXW\DATA\ZSY\SNAPSHOT.D)



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	5.551	VV	0.1512	530.14221	53.67393	48.8868
2	5.902	VB	0.1624	554.28534	51.97208	51.1132

Totals : 1084.42755 105.64601

DAD1 A, Sig=254,4 Ref=360,100 (E:\WXW\DATA\ZSY\SNAPSHOT.D)



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	5.537	VV	0.1559	193.25290	19.12744	14.3013
2	5.883	VB	0.1594	1158.04004	111.30754	85.6987
Totals :				1351.29294	130.43498	