Electronic Supplementary Material (ESI) for Environmental Science: Nano.
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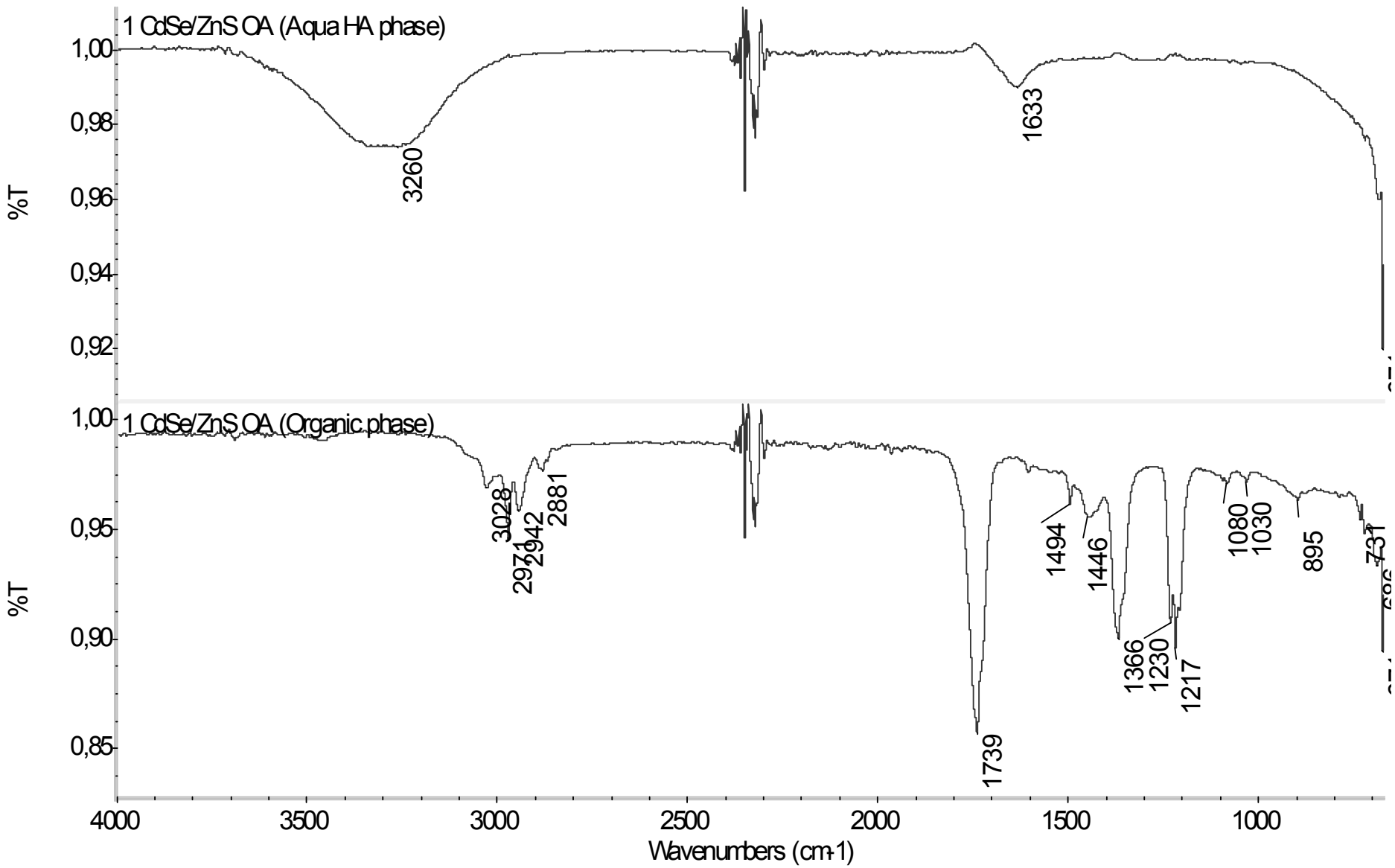
Supporting Information

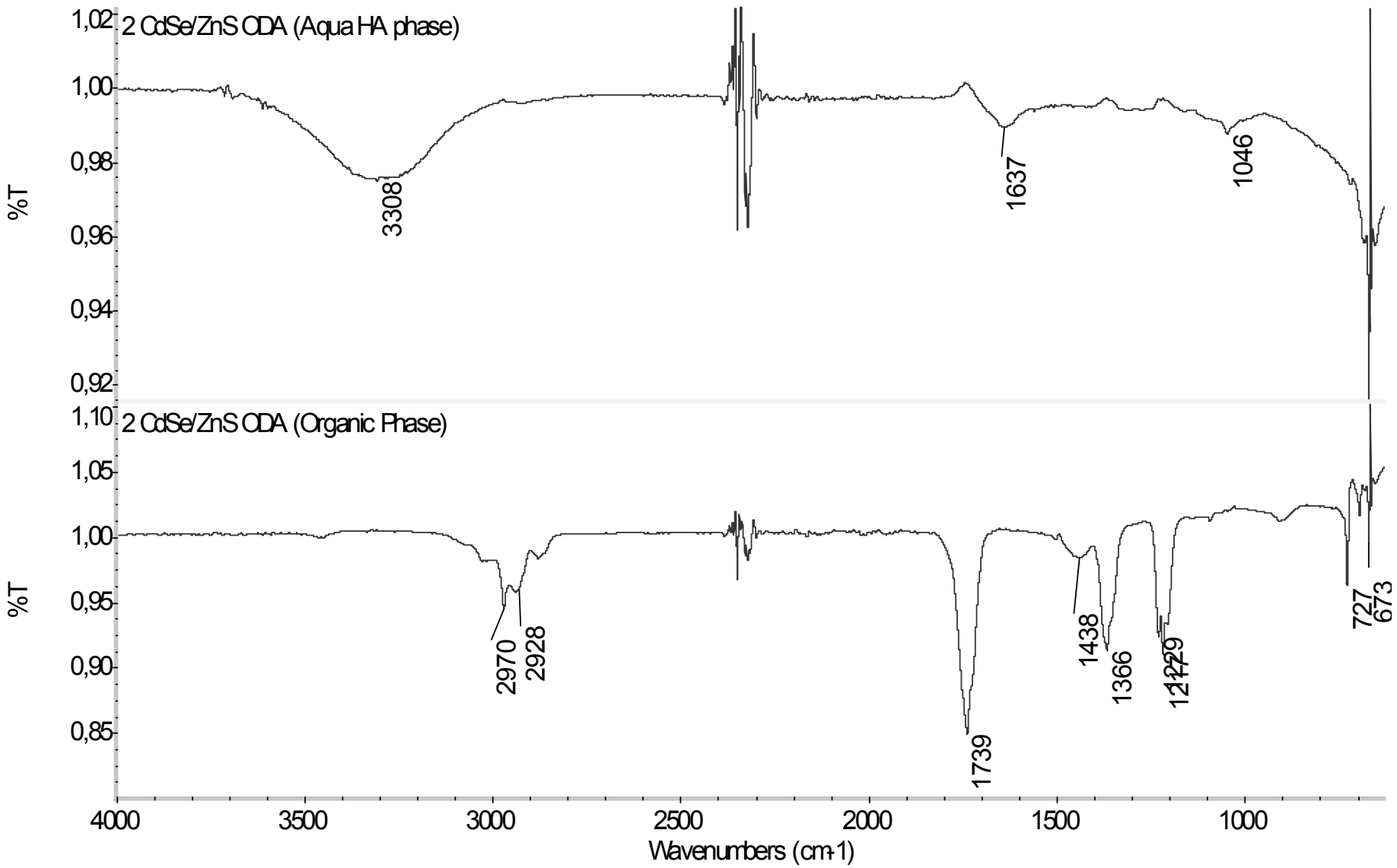
FTIR Results for QDs

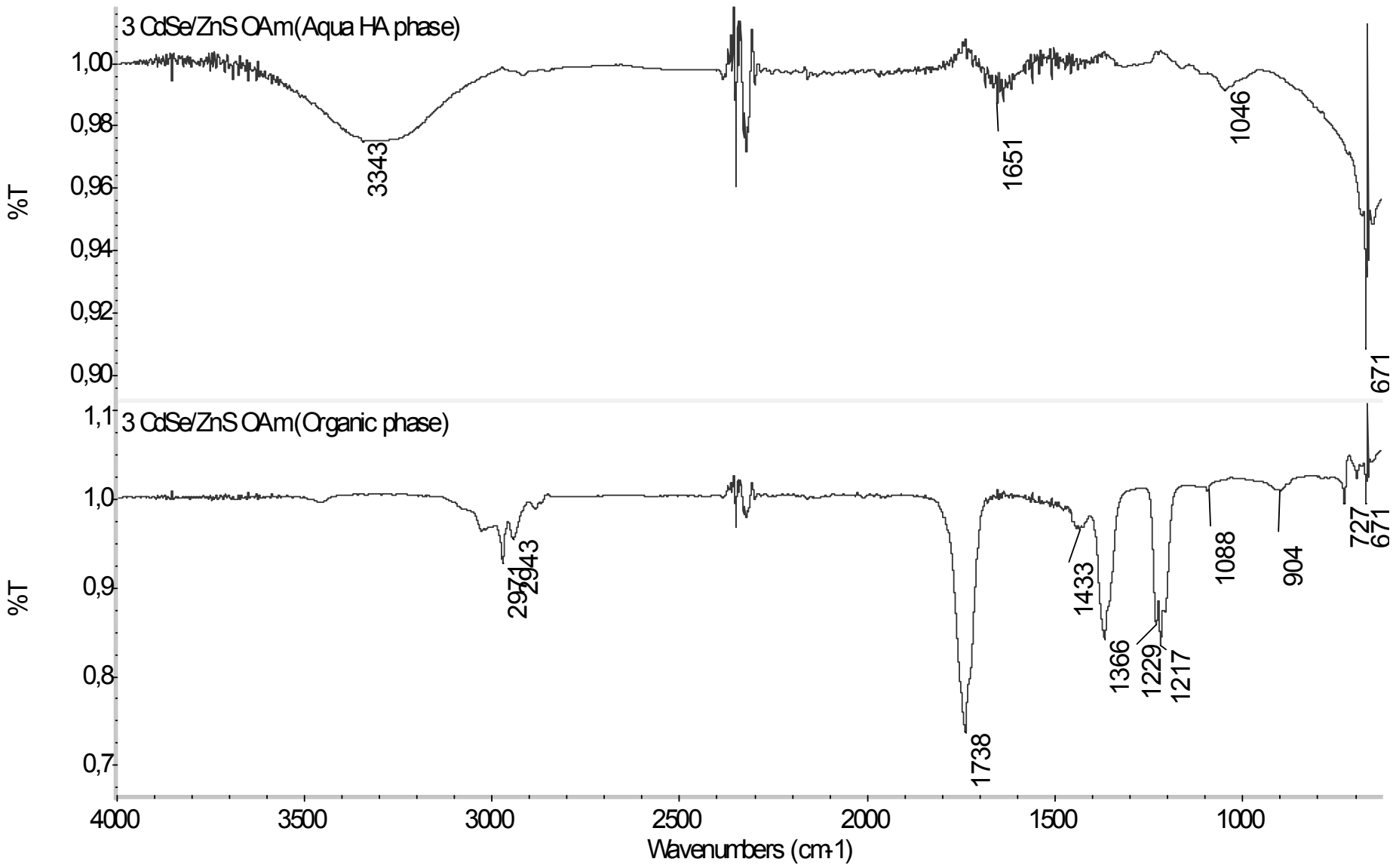
1. Cd- OA, Cd-ODA, Cd-OAm (organic phase and aqueous phase)

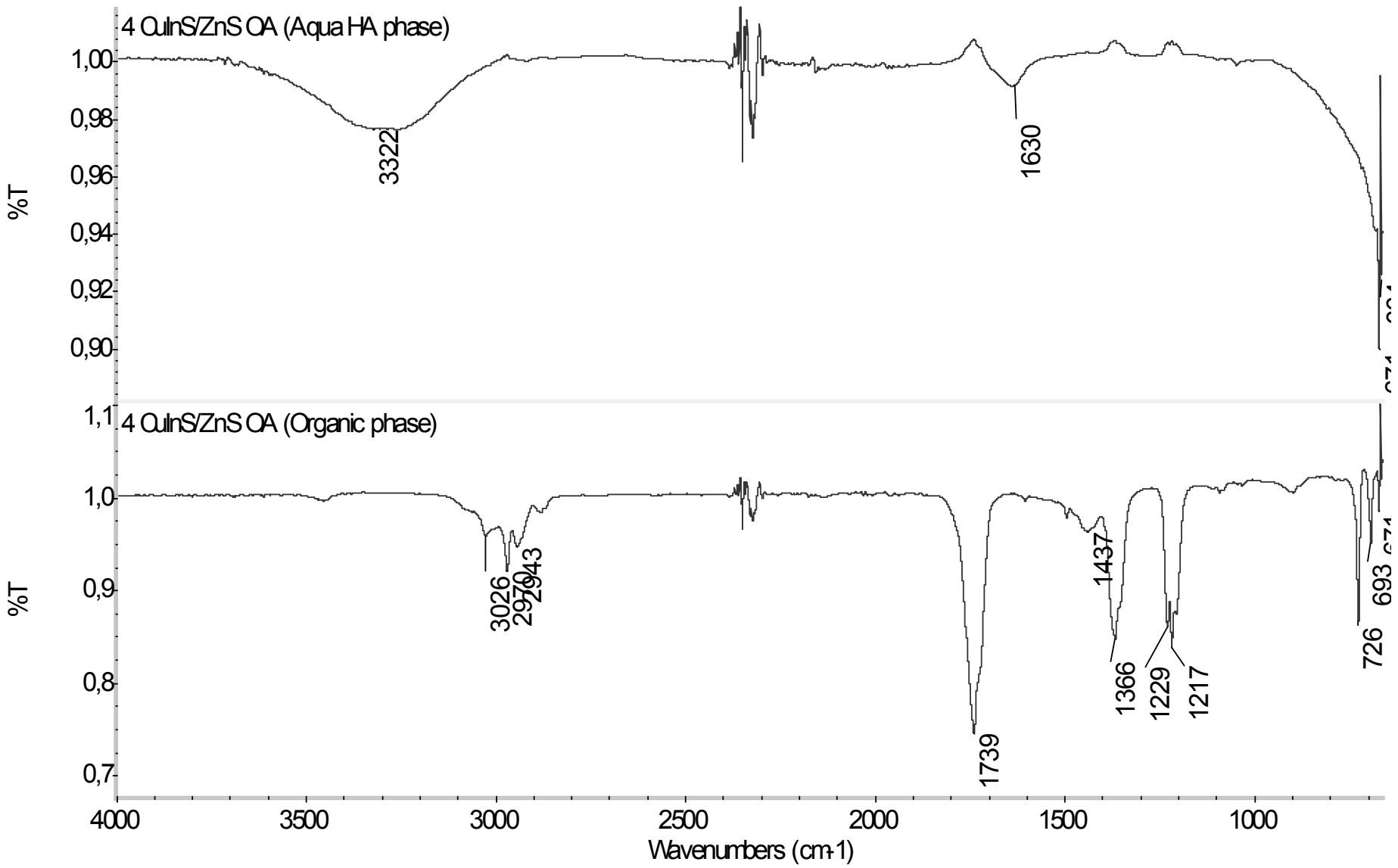
2. CIS-OA, CIS-ODA, CIS-OAm (organic phase and aqueous phase)

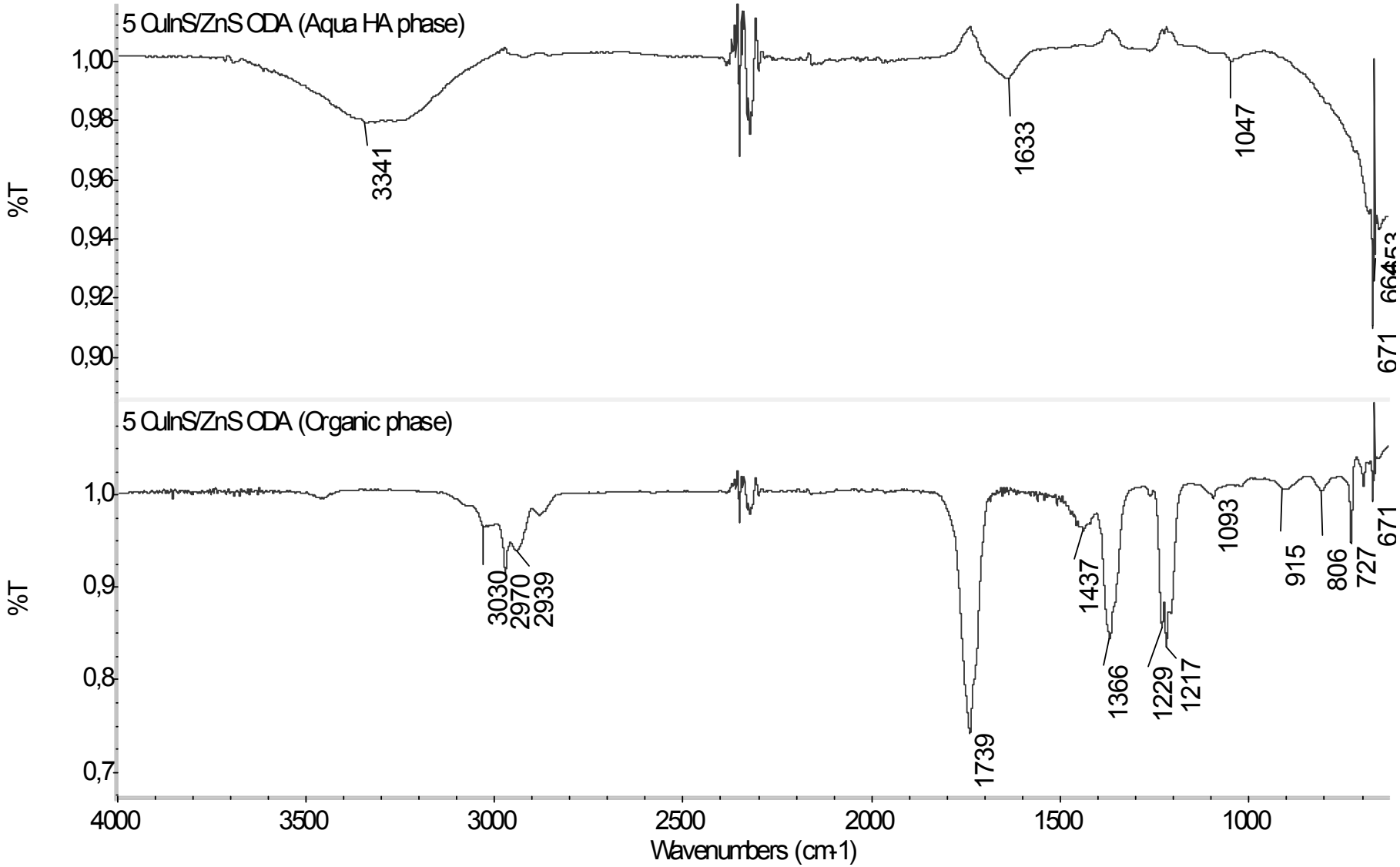
3. InP-OA, InP-ODA, InP-OAm (organic phase and aqueous phase)

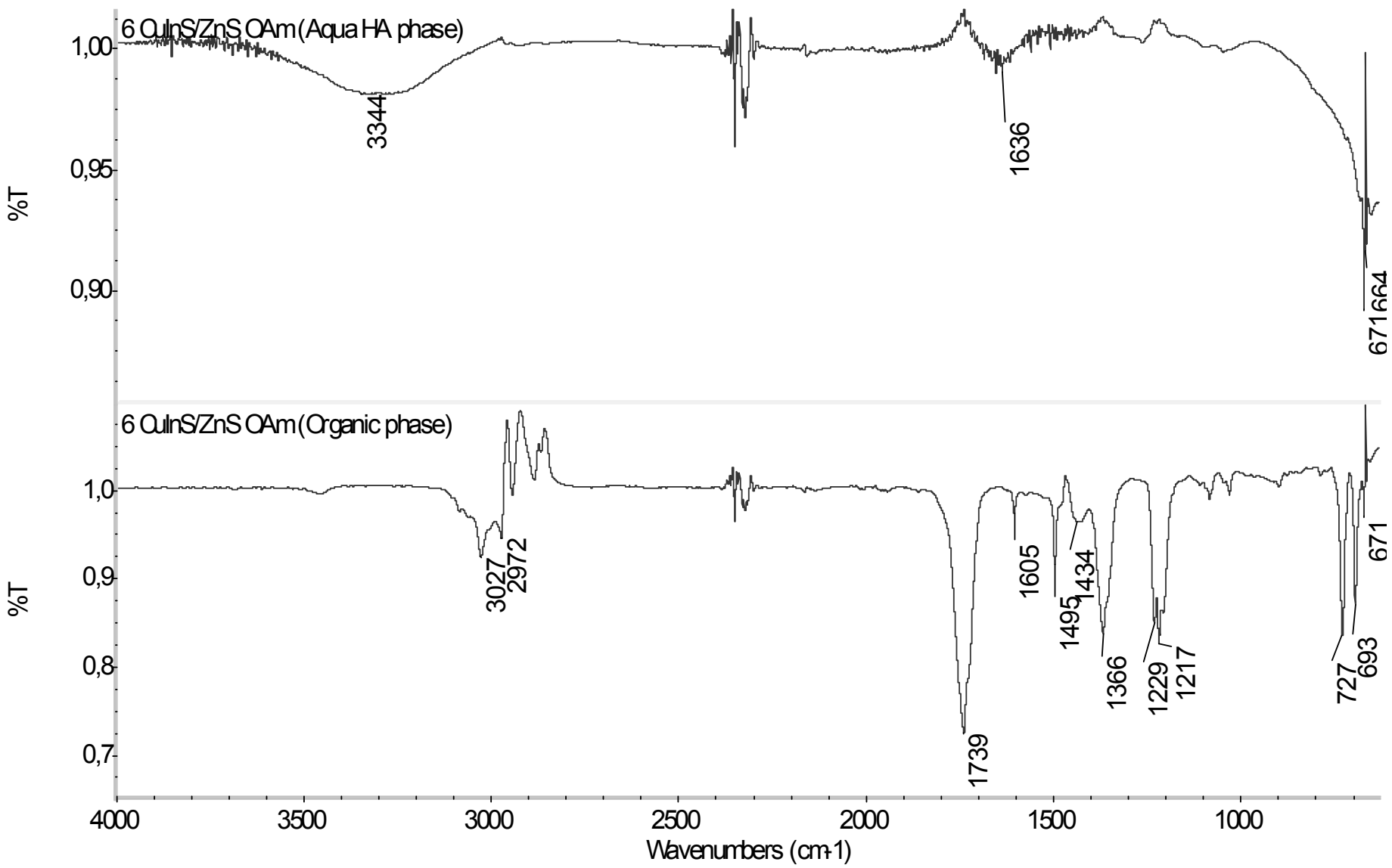

1 CdSe/ZnS OA (Aqua HA phase)
1,00
0,98
0,96
0,94
0,92
%T
3260
1633
1 CdSe/ZnS OA (Organic phase)
1,00
0,95
0,90
0,85
%T
3028
2971
2942
2881
1739
1494
1446
1366
1230
1217
1080
1030
895
731
4000
3500
3000
2500
2000
1500
1000
Wavenumbers (cm-1)

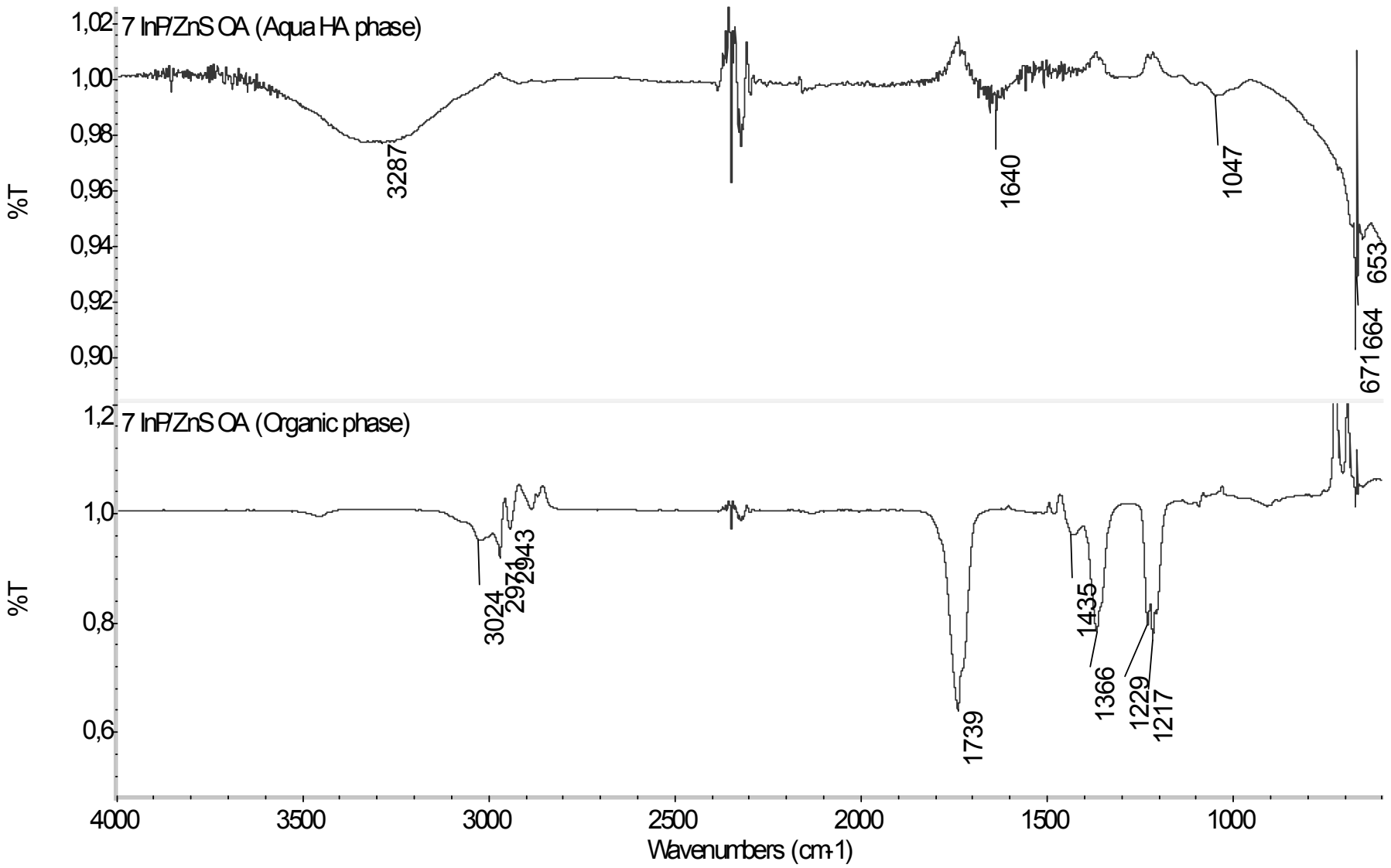

2 CdSe/ZnS ODA (Aqua HA phase)
%T
1,02
1,00
0,98
0,96
0,94
0,92
3308
1637
1046
2 CdSe/ZnS ODA (Organic Phase)
%T
1,10
1,05
1,00
0,95
0,90
0,85
2970
2928
1739
1438
1366
1229
1177
727
673
4000
3500
3000
2500
2000
1500
1000
Wavenumbers (cm-1)

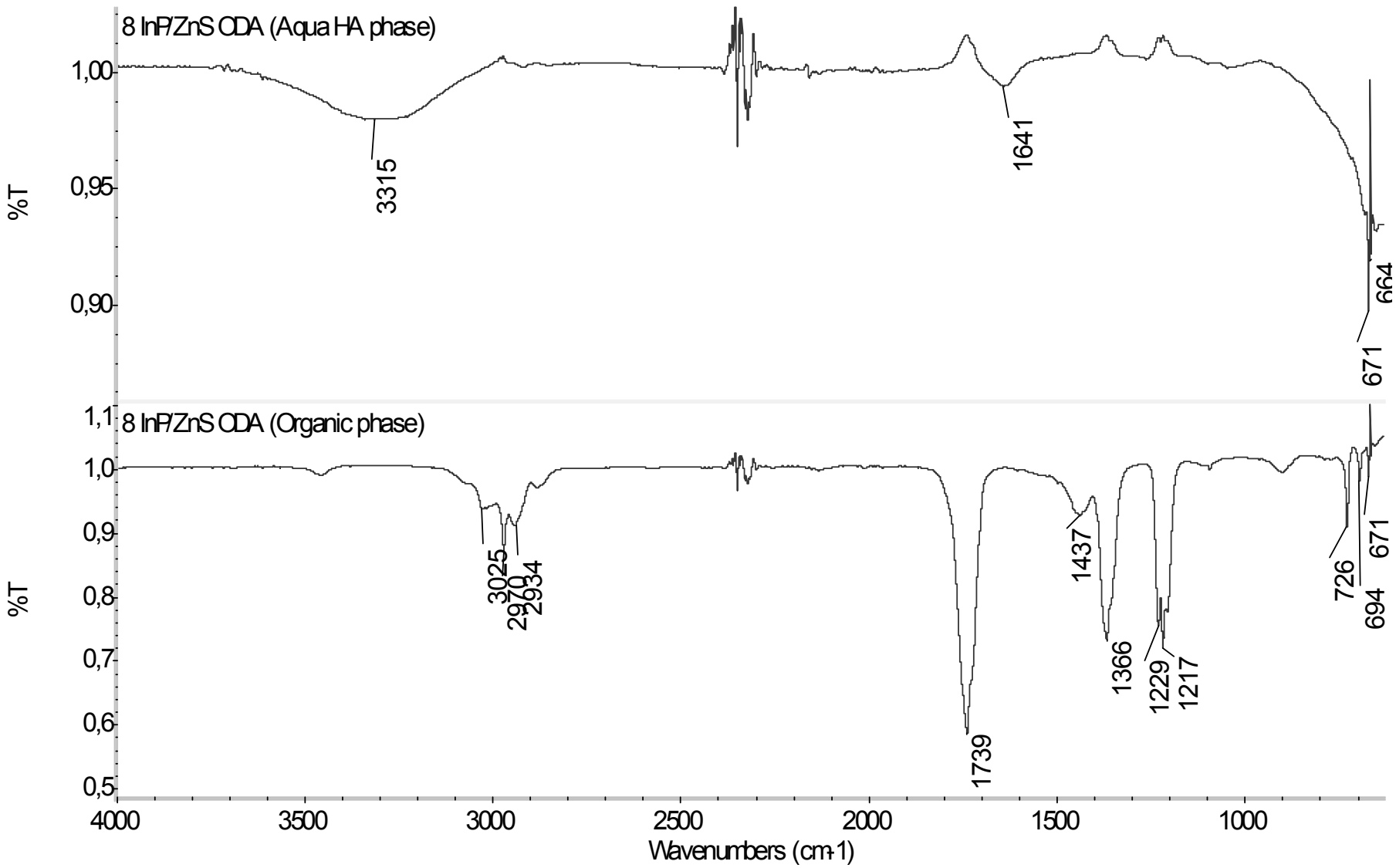

3 CdSe/ZnS OAm(Aqua HA phase)
%T
1,00
0,98
0,96
0,94
0,92
0,90
3343
1651
1046
671
3 CdSe/ZnS OAm(Organic phase)
%T
1,1
1,0
0,9
0,8
0,7
2971
2943
1738
1433
1366
1229
1217
1088
904
727
671
4000
3500
3000
2500
2000
1500
1000
Wavenumbers (cm-1)

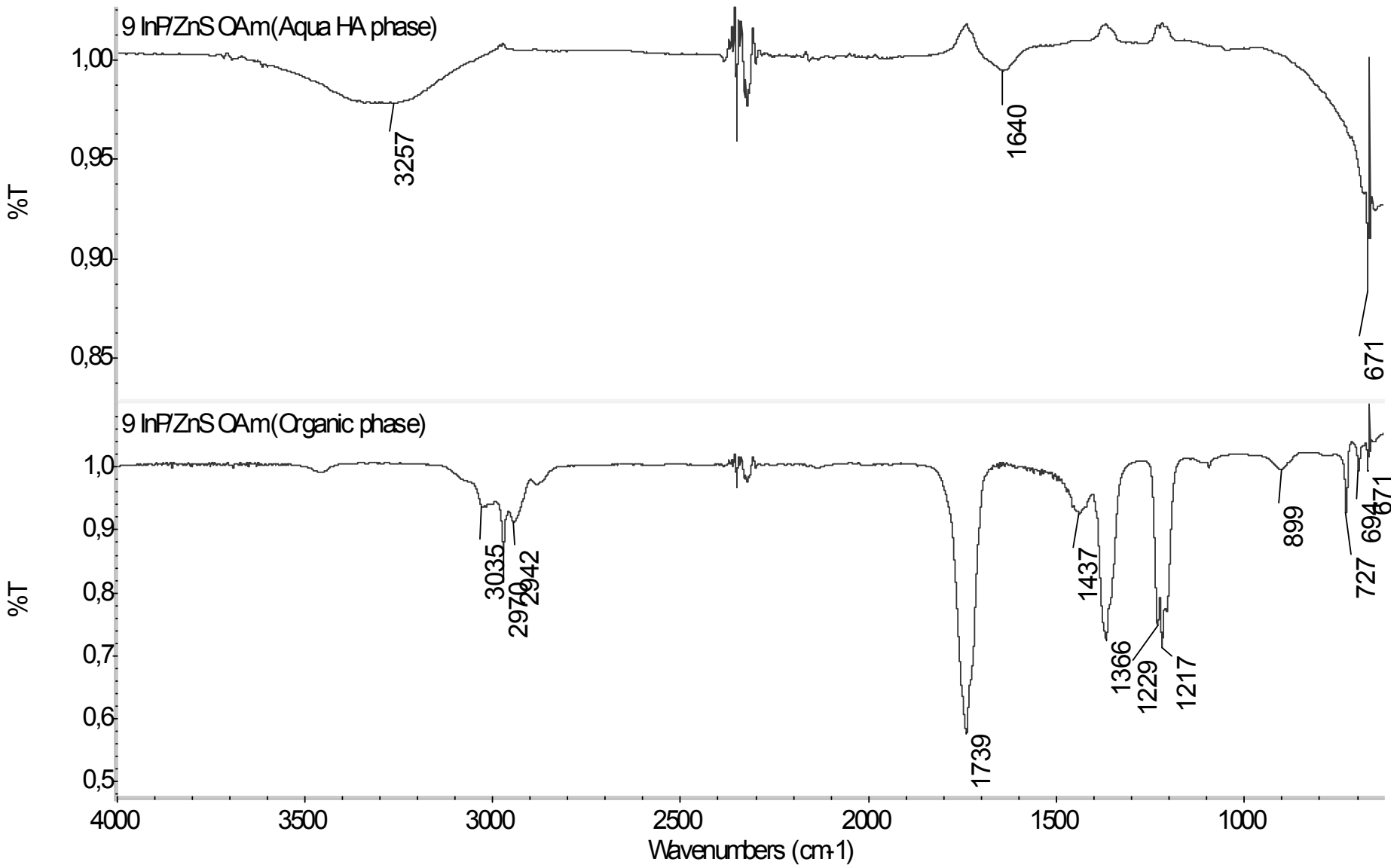

4 CuInS/ZnS OA (Aqua HA phase)
%T
1,00
0,98
0,96
0,94
0,92
0,90
3322
1630
4 CuInS/ZnS OA (Organic phase)
%T
1,1
1,0
0,9
0,8
0,7
3026
2970
2943
1739
1437
1366
1229
1217
726
693
4000
3500
3000
2500
2000
1500
1000
Wavenumbers (cm-1)


5 CuInS/ZnS ODA (Aqua HA phase)
%T
1,00
0,98
0,96
0,94
0,92
0,90
3341
1633
1047
671
5 CuInS/ZnS ODA (Organic phase)
%T
1,0
0,9
0,8
0,7
3030
2970
2939
1739
1437
1366
1229
1217
1093
915
806
727
671
4000
3500
3000
2500
2000
1500
1000
Wavenumbers (cm-1)


6 CuInS/ZnS OAm (Aqua HA phase)
1,00
0,95
0,90
%T
3344
1636
671
664
6 CuInS/ZnS OAm (Organic phase)
1,0
0,9
0,8
0,7
%T
3027
2972
1739
1605
1495
1434
1366
1229
1217
727
693
671
4000
3500
3000
2500
2000
1500
1000
Wavenumbers (cm-1)


7 InP/ZnS OA (Aqua HA phase)
%T
1,02
1,00
0,98
0,96
0,94
0,92
0,90
3287
1640
1047
653
664
671
7 InP/ZnS OA (Organic phase)
%T
1,2
1,0
0,8
0,6
3024
2971
2943
1739
1435
1366
1229
1217
4000
3500
3000
2500
2000
1500
1000
Wavenumbers (cm-1)


8 InP/ZnS ODA (Aqua HA phase)
%T
1,00
0,95
0,90
3315
1641
671
664
8 InP/ZnS ODA (Organic phase)
%T
1,1
1,0
0,9
0,8
0,7
0,6
0,5
3025
2970
2934
1739
1437
1366
1229
1217
726
694
671
4000
3500
3000
2500
2000
1500
1000
Wavenumbers (cm-1)


9 InP/ZnS OAm (Aqua HA phase)
%T
1,00
0,95
0,90
0,85
3257
1640
671
9 InP/ZnS OAm (Organic phase)
%T
1,0
0,9
0,8
0,7
0,6
0,5
3035
2970
2942
1739
1437
1366
1229
1217
899
727
694
671
4000
3500
3000
2500
2000
1500
1000
Wavenumbers (cm-1)