Supplementary Data Hydrogen-bonding geometry (Å, °) for structures **5**, **6**, and **7**.

Donor-H···Acceptor	Donor-H	H···Acceptor	Donor···Acceptor	Donor-H···Acceptor
5				
C(33)-H(33B)···S(1)	0.99	2.51	2.983(4)	109
C(53)-H(53B)···S(2)	0.99	2.47	2.892(4)	105
6				
C(33)-H(33B)···S(1)	0.99	2.44	2.898(6)	108
C(53)-H(53B)···S(2)	0.99	2.48	2.947(6)	108
C(56)-H(56A)···(Br1^{ii})	0.98	2.89	3.788(9)	154
C(53)-H(53A)···(Br1^{ii})	0.99	2.78	3.763(6)	174
C(33)-H(33B)···(Br2^{iii})	0.99	2.87	3.739(6)	147
C(34)-H(34A)···(Br1^{iv})	0.98	2.88	3.847(8)	169
7				
C(33)-H(33B)···S(1A)	0.99	2.37	2.872(17)	110
C(53)-H(53A)···S(2A)	0.99	2.53	2.957(7)	106
C(53)-H(53B)···Cl(1A^{v})	0.99	2.56	3.526(7)	164
C(33)-H(33B)···Cl(2A^{vi})	0.99	2.80	3.561(7)	134
C(38)-H(38C)···Cl(1A^{vii})	0.98	2.56	3.490(15)	158
C(56)-H(56B)···Cl(2A^{viii})	0.98	2.62	3.494(16)	148
C(33)-H(33B)···S(1B)	0.99	2.42	2.841(24)	105
C(53)-H(53A)···S(2B)	0.99	2.25	2.818(7)	115
C(57)-H(57B)···Cl(1B^{ix})	0.99	2.11	2.779(15)	123
C(58)-H(58B)···Cl(1B^{ix})	0.98	2.98	3.394(21)	107
C(1)-H(1)···Cl(2B^{x})	0.95	2.93	3.551(8)	124

Symmetry codes: (iv) x-1, y, z-1; (v) x, 1/2-y, 1/2+z; (vi) 1-x, y-1/2, 3/2-z; (viii) x-1, y, z-1; (ix) x, 1/2-y, 1/2+z; (x) 1-x, y-1/2, 3/2-z; (xi) x-1, 1/2-y, z-1/2; (xii) –x, 1-y, 1-z; (xiii) x-1, y, z.