

SWCNT (n, m)	Chiral angle ($^{\circ}$)	Diameter (nm)	Frequency (THz)			
			F–Fr (1st)	F–Fr (2nd)	S–S (1st)	S–S (2nd)
(9, 0)	0.00	0.7047	0.02795	0.17515	0.07845	0.31381
(8, 2)	10.89	0.7177	0.02858	0.17912	0.08023	0.32092
(7, 3)	17.00	0.6960	0.02753	0.17249	0.07726	0.30905
(6, 4)	23.41	0.6826	0.02689	0.16852	0.07548	0.30192
(5, 5)	30.00	0.6781	0.02668	0.16719	0.07489	0.29955