

## Supplementary

**Table 1.** FTIR data of studied diamonds.

Sample, Data Point	N <sub>total</sub> , ppm	A, ppm	B, ppm	%B	B2, cm <sup>-2</sup>	$\alpha_{3107}$ , cm <sup>-1</sup>
Hi-51 (rim)	430	168	261	61	16.8	0.4
Hi-51 (intermediate)	324	118	206	63	12.5	0.4
Hi-51 (center)	470	150	320	68	19.8	0.4
Hi-51 (intermediate)	490	156	335	68	22.0	0.3
Hi-51 (rim)	596	182	413	69	26.6	0.1
HI-39 (rim)	249	93	156	63	8.8	0.5
HI-39 (intermediate)	541	175	365	68	24.1	0.6
HI-39 (center)	490	155	335	68	21.7	0.2
HI-39 (intermediate)	393	124	269	69	16.9	0.4
HI-39 (rim)	362	129	233	64	11.4	0.7

N<sub>total</sub>, ppm—total nitrogen contents; A, ppm—nitrogen concentrations in form A-centers; B, ppm—nitrogen concentrations in form B-centers; B2, cm<sup>-2</sup>—integrated intensity of the main band of B2-centers (platelets),  $\alpha_{3107}$ , cm<sup>-1</sup>—intensity of the 3107 cm<sup>-1</sup> absorption band corresponded to a C-H vibration.