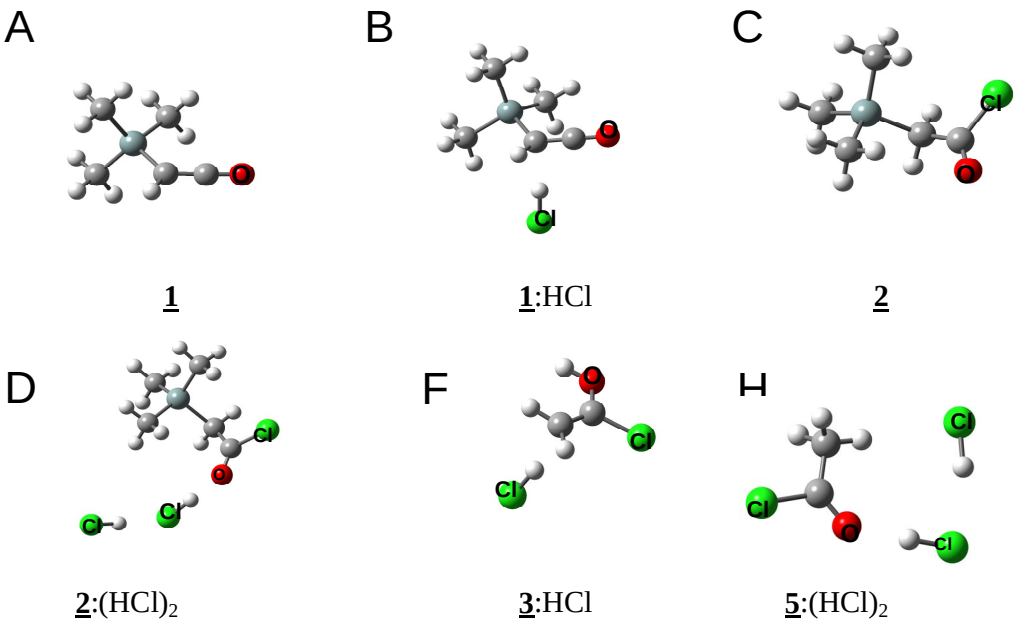

figure S1: Optimized structure of the main minima of reaction profile I.

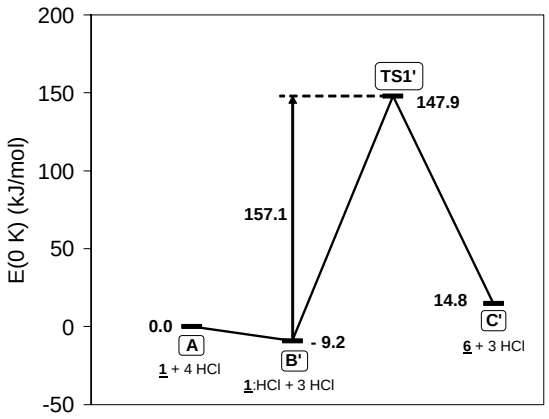

figure S2: Reaction profile II

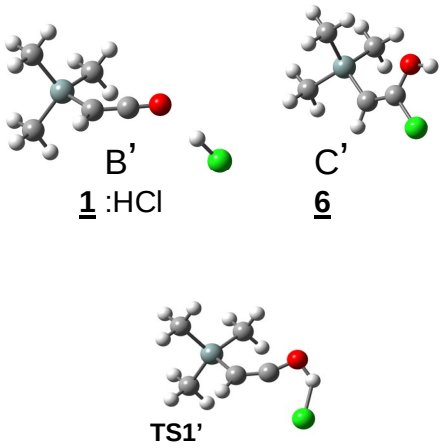

Figure S3

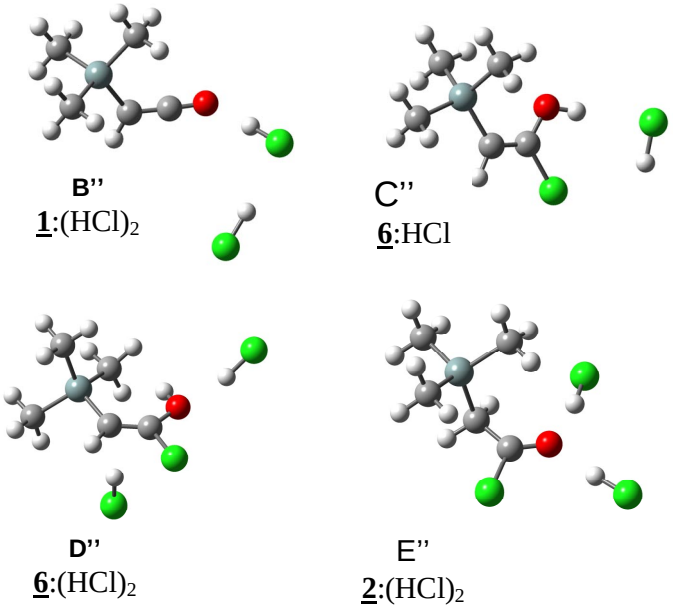

Figure S4

	1	**1**:HCl (**L** form)	**1**:HCl (**T** form)
Relative energy [a,b]	0.0	-10.6	-9.8
d(C=C) [a]	1.312	1.306	1.320
d(C=O) [a]	1.170	1.178	1.167
d(C-Si) [a]	1.880	1.889	1.901
d(C---H) [a]	-	-	2.065
d(O---H) [a]	-	2.018	-
d(H-Cl) [a]	-	1.293	1.316
θ(CCO) [a]	177.7	177.5	176.6
Charge at O[c]	- 0.40	- 0.36	- 0.36
Charge at C_2[c]	0.67	0.64	0.63
Charge at C_3[c]	- 0.94	- 0.90	- 0.74

Table S1

Structure	Electronic Energy (u.a.)	ZPE Correction (u.a.)	Relative energy ($kJ.mol^{-1}$)
A	-2404.164879	0.158547	0
B	-2404.169487	0.160638	-6.6
B'	-2404.170084	0.160242	-9.2
B"	-2404.174048	0.161885	-15.3
TS1	-2404.140784	0.161957	72.2
TS1'	-2404.110161	0.160144	147.9
TS1"	-2404.135983	0.161901	84.7
C	-2404.200709	0.166067	-74.4
C'	-2404.000690	0.165433	14.8
C"	-2404.169113	0.166763	10.5
D	-2404.212197	0.171282	-90.8
D"	-2404.173399	0.168632	4.1
TS2	-2404.162080	0.173306	46.1
TS2"	-2404.162911	0.161051	29.2
E	-2404.209263	0.171357	-82.9
E"	-2404. 213443	0.170004	-8
F	-2404.212310	0.173184	-86.1
TS3	-2404.199336	0.171800	-55.7
G	-2404.248234	0.171878	-183.9
H	-2404,252795	0.173558	-191.5

Table S2