Supporting Information (Table S1 –S5)

Table S1 Melting point, empirical formula, yield and elemental analysis data of reported silatranes

Silatrane	M. pt (°C)/ (b. pt. (°C, P; mm Hg)	Empirical formula	Yield (%)	Found/Calculated (%)				Ref.
				C	H	N	Si	
1	(138-140, 1.5)	$C_{12}H_{26}N_2O_3Si$	90	45.45/45.34	10.36/10.99	11.55/11.75	11.43/11.78	29
2	141-142	$C_{15}H_{24}N_2O_4Si$	94	58.29/58.48	7.73/7.84	9.35/9.08	9.15/9.10	29
3	98-99	$C_{21}H_{36}N_6O_3Si$	98	56.42/56.22	8.28/8.09	18.52/18.73	6.08/6.26	29
4	NR	$C_{24}H_{42}N_6O_3Si$	93	58.34/58.74	8.16/8.63	17.01/17.13	5.91/5.72	29
5	125-126	$C_{21}H_{32}N_4O_3Si$	95	60.32/60.54	7.51/7.74	13.62/13.45	6.67/6.74	29
6	(191-192, 2.5)	$C_{14}H_{31}N_3O_3Si$	98	52.42/52.96	9.62/9.84	13.11/13.23	8.52/8.84	29
7	NR	$C_{29}H_{49}N_9O_3Si$	85	58.41/58.06	8.52/8.23	20.84/21.01	4.54/4.68	29
8	NR	$C_{32}H_{55}N_9O_3Si$	94	60.61/60.25	8.24/8.06	19.55/19.76	4.43/4.40	29
9	96-97	$C_{31}H_{40}N_6O_3Si$	80	65.19/65.01	7.17/7.04	14.50/14.67	5.09/4.90	30
10	81-82	$C_{23}H_{30}N_8O_3Si$	85	55.92/55.85	5.97/6.11	22.43/22.65	5.49/5.68	30
11	Viscous liquid	$C_{17}H_{28}N_6O_3Si$	83	52.22/52.02	7.27/7.19	21.21/21.41	7.10/7.16	30
12	NR	$C_{26}H_{34}N_4O_3Si$	92	65.39/65.24	7.27/7.16	11.56/11.71	6.10/5.87	30
13	135-136	$C_{22}H_{29}N_5O_3Si$	91	60.39/60.11	6.72/6.65	16.11/15.93	6.21/6.39	30
14	Viscous	$C_{19}H_{28}N_4O_3Si$	85	58.61/58.73	7.13/7.26	14.37/14.42	7.14/7.23	30
15	(185-187, 3)	$C_{11}H_{24}N_2O_3Si$	89	50.95/50.74	9.15/9.29	10.70/10.76	NR	31
16	(230-232, 5)	$C_{13}H_{29}N_3O_3Si$	92	51.23/51.45	9.83/9.63	13.99/13.85	NR	31
17	(232-234, 1.5)	$C_{15}H_{34}N_4O_3Si$	93	52.21/51.98	9.71/9.88	15.98/16.16	NR	31
18	(170-172, 2)	$C_{11}H_{22}NO_3ClSi$	93	46.98/47.20	8.10/7.92	4.19/5.01	NR	31
19	85-87	$C_{10}H_{19}NO_3Si$	79	52.61/52.37	8.55/8.35	6.01/6.11	NR	31

20	Viscous liquid	$C_{13}H_{26}N_2O_4Si$	83	51.49/51.63	8.88/8.67	9.14/9.26	NR	31
21	185-187	$C_{12}H_{25}N_3O_4Si$	91	47.19/47.50	8.17/8.30	14.10/13.85	NR	31
22	(230-232, 5)	$C_{16}H_{29}NO_4Si$	89	58.92/58.68	9.11/8.93	4.33/4.28	NR	31
23	(240-241, 6)	$C_{14}H_{27}N_3O_3Si$	86	53.39/53.64	8.91/8.68	13.21/13.40	NR	31
24	170-171	$C_{36}H_{66}N_6O_{12}Si_3$	84	50.53/50.32	7.94/7.74	9.62/9.78	NR	31
25	140-141	$C_{11}H_{22}N_2O_4Si$	85	48.39/48.15	7.73/8.08	10.23/10.12	10.43/10.13	32
26	123-124	$C_{14}H_{28}N_2O_4Si$	82	53.39/53.14	8.63/8.92	9.23/8.85	9.23/8.87	32
27	195-197	$C_{10}H_{21}N_3O_4Si$	91	43.39/43.62	7.43/7.69	15.42/15.26	9.93/10.19	32
28	56-58 (254-255, 1)	$C_{13}H_{27}N_3O_4Si$	90	49.39/49.18	8.43/8.57	13.42/13.24	8.24/8.84	32
29	115-117	$C_{14}H_{25}NO_4Si$	90	56.39/56.16	8.63/8.42	4.42/4.68	9.24/9.37	32
30	(208-210, 2.5)	$C_{17}H_{31}NO_4Si$	88	59.49/59.79	9.33/9.15	4.42/4.10	8.34/8.22	32
31	92-94	$C_{12}H_{23}N_3O_3Si$	95	50.79/50.50	8.35/8.12	14.90/14.72	9.72/9.83	32
32	82-84 (248-249, 5)	$C_{15}H_{29}N_3O_3Si$	82	55.39/55.01	8.75/8.93	13.09/12.83	8.72/8.57	32
33	118-120	$C_{30}H_{54}N_6O_{12}Si_3$	95	46.29/46.49	6.85/7.02	11.09/10.84	10.72/10.87	32
34	80-82	$C_{39}H_{72}N_6O_{12}Si_3$	85	52.29/51.97	7.85/8.05	8.19/9.32	9.42/9.30	32
35	(250-252, 2)	$C_{13}H_{30}N_4O_3Si$	90	49.21/49.03	9.63/9.49	17.81/17.59	8.95/8.82	33
36	(228-230, 1.5)	$C_{16}H_{36}N_4O_3Si$	92	53.21/53.30	9.83/10.06	15.81/15.54	7.95/7.79	33
37	(231-233, 1.5)	$C_{15}H_{34}N_4O_3Si$	93	52.21/51.98	9.71/9.88	15.98/16.16	8.23/8.10	33
38	Viscous liquid	$C_{14}H_{31}N_4O_3ClSi$	87	46.07/45.81	8.71/8.51	15.38/15.26	7.56/7.65	33
39	90-92	$C_9H_{21}N_3O_3Si$	94	43.22/43.70	8.56/8.56	16.49/16.99	10.89/11.35	34
42	151	$C_{14}H_{23}N_3O_3Si$	98	54.32/54.34	7.07/7.49	13.46/13.57	9.12/9.08	39
43	205-206	$C_{15}H_{20}N_2O_3Si$	98	59.90/59.91	6.35/6.59	10.00/9.03	9.19/9.95	40, 41
44	203-206	$C_{11}H_{18}N_2O_3Si$	96	51.42/51.94	7.01/7.13	11.32/11.01	10.87/11.04	40, 42

45	303-305	$C_{19}H_{22}N_2O_3Si$	92	63.90/64.38	6.94/6.26	8.51/7.90	7.34/7.00	40, 43
46	230-231	$C_{16}H_{22}N_2O_3Si$	92	60.95/60.34	7.56/6.97	8.67/8.80	8.82/8.84	40
47	209-211	$C_{13}H_{18}N_4O_3Si$	96	51.12/50.96	6.35/5.92	18.71/18.29	10.29/9.17	44-46
48	275	$C_{13}H_{18}N_4O_3Si$	94	50.79/50.96	6.18/5.92	17.56/18.29	9.07/9.17	44-46
49	270-272, 266-268[a]	$C_8H_{18}N_3O_3ClSSi$	82, 87[a]	31.87/32.04	6.17/6.03	14.23/14.01	9.17/9.36	47
50	246-248, 240-242[a]	$C8H_{18}N_3O_3ISSi$	86, 90[a]	24.41/24.55	4.58/4.64	10.14/10.74	6.87/7.18	47
51	240-242, 235-237[a]	$C_{10}H_{22}N_3O_3ISSi$	84, 91[a]	28.35/28.64	5.14/5.29	9.87/10.02	6.54/6.70	47
52	244-246	$C_{14}H_{22}N_3O_3BrSSi$	70	29.14/28.78	5.56/4.83	10.40/10.06	NR	47
53	245-247, 240-242[a]	$C_{14}H_{22}N_3O_3ISSi$	83, 87[a]	40.38/40.00	4.97/5.28	9.54/10.00	6.32/6.68	47
54	270-272	$C_{10}H_{22}N_3O_3ClSSi$	86	36.34/35.96	5.02/4.74	9.06/8.98	NR	47
55	308-310, 312-315[a]	$C_{10}H_{22}N_3O_3ISSi$	88, 79[a]	36.54/36.85	5.81/6.18	12.67/12.89	8.23/8.62	47
56	NR	$C_{11}H_{22}N_2O_3Si$	96	50.92/51.13	8.66/8.58	10.71/10.84	11.12/10.87	48
57	121–122	$C_{14}H_{25}N_3O_3Si$	85	53.72/53.98	8.40/8.09	13.43/13.49	9.25/9.02	48
58	267	$C_{11}H_{18}N_2O_5Si$	89	46.02/46.14	6.08/6.34	9.99/9.78	9.63/9.81	49
59	238	$C_{12}H_{20}N_2O_5Si$	90	47.86/47.98	6.62/6.71	9.39/9.32	9.46/9.34	49
60	127	$C_{14}H_{19}O_3N_3Si$	97	55.04/55.05	6.47/6.27	14.00/13.76	8.92/9.19	49,50
65	229	$C_{17}H_{25}N_3O_4Si$	88	56.14/56.17	6.82/6.93	11.58/11.56	7.71/7.73	54
66	> 280	$C_{19}H_{24}O_5N_2Si$	-	58.12/58.74	6.10/6. 23	7.02/7.21	NR	55
67	(115-116, 0.02)	$C_{12}H_{24}NO_3ClSi$	78	49.12/49.05	8.50/8.23	4.97/4.77	9.59/9.56	56
68	(121-122, 0.02)	$C_{12}H_{25}NO_3SSi$	80	49.98/49.45	8.93/8.64	5.09/4.81	9.40/9.64	56
69	(128-129 , 0.02)	$C_{16}H_{29}NO_5Si$	71	55.33/55.95	8.85/8.51	4.79/4.08	8.02/8.18	56
70	(145-146, 0.01)	$C_{14}H_{31}N_3O_3Si$	84	51.91/52.96	9.55/9.84	13.01/13.23	8.21/8.85	56
71	92–94	$C_{10}H_{21}NO_4Si$	72	49.22/48.56	9.02/8.56	5.78/5.66	10.83/11.35	56

72	(123–125, 0.02)	$C_{17}H_{35}NO_4Si$	75	59.62/59.09	10.67/10.21	4.15/4.05	8.36/8.13	56
73	117–119	$C_{15}H_{23}NO_4Si$	37	58.47/58.21	7.21/7.49	4.43/4.53	8.73/9.07	56
78	170-172	$C_{20}H_{24}N_2O_5Si$	98	60.34/59.98	6.43/6.04	NR	NR	59
80	157-159	$C_8H_{17}NO_3SeSi$	62	34.18/34.03	5.87/6.07	4.78/4.96	9.67/9.95	63
81	169-171	$C_{13}H_{19}NO_3TeSi$	50	39.54/39.73	5.06/4.87	3.44/3.56	6.87/7.15	63
82	263 (dec)	$C_{14}H_{28}N_2O_6SeSi_2$	43	36.73/36.91	6.37/6.20	6.03/6.15	12.16/12.33	63
83	NR	$C_{14}H_{28}N_2O_6TeSi_2$	24	33.28/33.35	5.77/5.60	5.48/5.56	11.25/11.14	63
84	275-277	$C_{14}H_{28}N_2O_6Se_2Si_2$	90	32.35/32.43	5.56/5.44	5.39/5.40	10.68/10.83	63
85	140	$C_{21}H_{40}N_4O_8Si_2$	97	47.35/47.34	8.24/7.57	10.18/10.51	10.05/10.54	64
86	60	$C_{26}H_{42}N_4O_8Si_2$	94	52.52/52.50	7.61/7.12	8.82/9.41	9.33/9.44	64
87	184-187, 194-195[a]	$C_{10}H_{22}N_3O_3ClSi$	79, 75 [a]	38.29/38.17	7.86/8.18	14.56/14.84	9.78/10.27	65
88	184-186, 175-177[a]	$C_9H_{22}N_3O_3ISi$	84, 76[a]	28.38/29.00	5.47/5.89	11.21/11.69	6.95/7.46	65
89	220-223.5	$C_{11}H_{17}NO_4Si$	79	51.94/51.74	6.89/6.71	5.34/5.48	NR	66
90	176-179	$C_{11}H_{21}NO_5Si$	49	47.90/47.99	7.63/7.69	5.13/5.09	NR	68
91	188-189	$C_{11}H_{16}N_2O_4Si$	17	48.23/49.24	5.98/6.01	10.12/10.44	NR	68
92	170-172	$C_{13}H_{20}N_2O_4Si$	60	52.68/52.68	6.88/6.80	9.40/9.45	NR	68
93	159-160	$C_{19}H_{32}N_3O_8Si$	17	NR	NR	NR	NR	69
96	196	$C_{11}H_{16}N_2O_4Si$	95	49.80/49.23	6.10/6.01	10.77/10.44	10.65/10.47	71
98	> 255	$C_{26}H_{25}NO_3Si$	54	73.28/73.04	6.13/5.89	3.09/3.28	NR	73
99	> 250	$C_{26}H_{25}NO_3Si$	73	72.82/73.04	5.82/5.89	3.29/3.28	NR	73
100	> 250	$C_{26}H_{25}NO_3Si$	75	72.65/73.04	5.92/5.89	2.98/3.28	NR	73
101	210	$C_{19}H_{22}NO_3ClSi$	76	60.50/60.71	5.88/5.90	3.80/3.73	NR	73
102	> 255	$C_{19}H_{22}NO_3ClSi$	79	60.52/60.71	5.76/5.90	3.83/3.73	NR	73

103	> 255	$C_{19}H_{22}NO_3ClSi$	83	60.58/60.71	5.86/5.90	3.85/3.73	NR	73
104	NR	$C_{18}H_{21}NO_3Si$	75	65.61/66.02	6.04/6.46	4.04/4.28	NR	73
105	NR	$C_{12}H_{17}NO_3Si$	80	56.96/57.34	5.57/6.82	5.67/5.57	NR	73
106	NR	$C_{21}H_{28}N_2O_2Si$	80	68.15/68.44	7.55/7.66	7.73/7.60	NR	74
107	NR	$C_{21}H_{27}N_2O_2FSi$	80	65.60/65.25	7.03/7.04	7.43/7.25	NR	74
108	NR	$C_{21}H_{27}N_2O_2ClSi$	80	62.35/62.59	6.55/6.75	6.89/6.95	NR	74
109	NR	$C_{21}H_{27}N_2O_2BrSi$	80	56.37/56.37	6.33/6.08	6.16/6.26	NR	74
110	NR	$C_{21}H_{27}N_2O_2ClSi$	80	62.42/62.59	6.85/6.75	7.08/6.95	NR	74
111	NR	$C_{22}H_{30}N_2O_2SSi$	79	63.58/63.73	7.01/7.29	6.86/6.76	NR	74
112	NR	$C_{22}H_{30}N_2O_3Si$	80	66.30/66.30	7.59/7.59	7.13/7.03	NR	74
113	NR	$C_{21}H_{26}N_2O_2Cl_2Si$	80	57.55/57.66	6.40/5.99	6.39/6.40	NR	74
114	NR	$C_{23}H_{32}N_2O_4Si$	79	64.45/64.45	7.42/7.52	6.41/6.55	NR	74
115	(153-156, 7)	$C_{10}H_{25}N_3O_2Si$	89	48.37/48.55	10.43/10.18	16.77/16.98	NR	75
116	(162-165, 10)	$C_{12}H_{29}N_3O_2Si$	94	52.12/52.32	10.33/10.61	15.48/15.25	NR	75
117	(173-176, 10)	$C_{13}H_{31}N_3O_2Si$	91	53.82/53.94	10.58/10.79	14.16/14.52	NR	75
118	(182-185, 10)	$C_{14}H_{33}N_3O_2Si$	73	55.10/55.40	10.61/10.96	13.61/13.84	NR	75
119	(190-192, 10)	$C_{15}H_{35}N_3O_2Si$	85	56.65/56.74	11.35/11.11	13.22/13.23	NR	75
120	(242-245, 7)	$C_{16}H_{29}N_3O_2Si$	84	59.40/59.32	9.04/9.08	12.99/12.81	NR	75
121	NR	$C_{10}H_{21}NO_6Si$	90	NR	NR	NR	NR	78
122	84	$C_{11}H_{16}NO_2FSi$	73	54.51/54.74	6.89/6.68	6.01/5.80	NR	79-82
124	204-207	$C_{12}H_{17}NO_3Si$	86	57.37/57.35	6.65/6.77	5.81/5.57	NR	79-82
126	60–61	$C_5H_{12}NO_2FSi$	45	36.61/36.34	7.20/7.27	8.13/8.48	NR	82
127	60-61	$C_5H_{12}NO_3FSi$	12	36.61/36.34	7.20/7.27	8.13/8.48	NR	79-82

128	61	$C_{17}H_{21}NO_2Si$	53	68.46/68.19	7.01/7.07	4.67/4.68	9.38/9.51	79-82
129	180	$C_4H_9NO_2F_2Si$	47	28.39/28.01	5.36/5.73	8.28/8.39	NR	82
130	84	$C_{11}H_{16}NO_2FSi$	71	54.51/54.74	6.89/6.68	6.01/5.80	NR	82
131	NR	$C_{10}H_{21}NO_3Si$	NR	NR	NR	NR	NR	84
132	182- 184	$C_{15}H_{23}NO_3Si$	NR	NR	NR	NR	NR	84
133	NR	$C_{10}H_{18}N_2O_3SSi$	70	43.70/43.77	6.59/6.61	10.20/10.21	10.17/10.23	87
134	228–229	$C_{14}H_{29}N_2O_6PSi$	85	44.28/44.21	7.69/7.63	8.08/8.16$^{(P)}$	NR	88
135	186–188	$C_{20}H_{33}N_2O_6PSi$	83	52.57/52.63	7.29/7.24	6.85/6.80$^{(P)}$	NR	88
136	210–211	$C_{20}H_{32}N_2O_6ClPSi$	78	48.86/48.93	6.60/6.52	6.38/6.32$^{(P)}$	NR	88
137	209–210	$C_{21}H_{35}N_2O_6PSi$	76	53.58/53.62	7.41/7.45	6.63/6.60$^{(P)}$	NR	88
138	205–206	$C_{21}H_{35}N_2O_7PSi$	70	51.79/51.85	7.18/7.20	6.42/6.38$^{(P)}$	NR	88
139	249–250	$C_{20}H_{31}N_2O_6Cl_2PSi$	79	45.66/45.71	5.87/5.90	5.94/5.90$^{(P)}$	NR	88
140	179-180	$C_{14}H_{29}N_2O_5PSSi$	80	42.38/42.42	7.37/7.32	7.86/7.83$^{(P)}$	NR	88
141	156-158	$C_{20}H_{33}N_2O_5PSSi$	79	50.80/50.85	7.05/6.99	6.63/6.57$^{(P)}$	NR	88
142	165-167	$C_{20}H_{32}N_2O_5ClPSSi$	77	47.31/47.38	6.37/6.32	6.15/6.12$^{(P)}$	NR	88
143	167-168	$C_{21}H_{35}N_2O_5PSSi$	75	51.78/51.85	7.25/7.20	6.34/6.38$^{(P)}$	NR	88
144	163-164	$C_{21}H_{35}N_2O_6PSSi$	65	50.27/50.20	6.91/6.97	6.23/6.18$^{(P)}$	NR	88
145	184-185	$C_{20}H_{31}N_2O_5Cl_2PSSi$	74	44.39/44.36	5.70/5.73	5.77/5.73$^{(P)}$	NR	88
146	166-167	$C_{20}H_{34}N_4O_9FPSi$	41	43.35/43.48	6.20/6.16	9.95/10.14	NR	89
147	161-162	$C_{21}H_{36}N_4O_9FPSi$	51	44.61/44.52	6.21/6.36	10.24/9.89	NR	89
148	156-157	$C_{22}H_{38}N_4O_9FPSi$	49	45.83/45.52	6.69/6.55	9.57/9.66	NR	89
149	152-154	$C_{22}H_{38}N_4O_9FPSi$	48	45.66/45.52	6.25/6.55	9.61/9.66	NR	89
150	147-149	$C_{25}H_{36}N_4O_9FPSi$	50	48.96/48.86	5.92/5.86	9.25/9.12	NR	89

151	144-145	$C_{25}H_{35}N_4O_9ClFPSi$	67	46.14/46.26	5.25/5.40	8.97/8.64	NR	89
152	152-153	$C_{25}H_{34}N_4O_9Cl_2FPSi$	57	44.07/43.92	5.20/4.98	7.96/8.20	NR	89
153	163-165	$C_{25}H_{34}N_4O_9Cl_2FPSi$	46	43.79/43.92	5.11/4.98	8.43/8.20	NR	89
154	116-118	$C_{11}H_{25}N_2O_6PSi$	70	38.70/38.82	7.22/7.35	8.30/8.21	NR	90
155	112-113	$C_{13}H_{29}N_2O_6PSi$	75	42.42/42.39	7.78/7.88	7.70/7.60	NR	90
156	134-135	$C_{15}H_{33}N_2O_6PSi$	48	45.51/45.45	8.42/8.35	7.13/7.07	NR	90
157	96-98	$C_{15}H_{33}N_2O_6PSi$	67	45.52/45.45	8.32/8.35	7.15/7.07	NR	90
158	142-144	$C_{17}H_{37}N_2O_6PSi$	40	48.20/48.11	8.52/8.73	6.63/6.60	NR	90
159	114-115	$C_{11}H_{25}N_2O_5PSSi$	73	36.94/37.08	7.24/7.02	7.90/7.87	NR	90
160	117-118	$C_{13}H_{29}N_2O_5PSSi$	82	40.82/40.63	7.40/7.55	7.35/7.29	NR	90
161	135-137	$C_{15}H_{33}N_2O_5PSSi$	72	43.78/43.69	7.78/8.01	6.59/6.80	NR	90
162	179-181	$C_{15}H_{33}N_2O_5PSSi$	65	43.42/43.69	8.12/8.01	6.94/6.80	NR	90
163	175-177	$C_{17}H_{37}N_2O_5PSSi$	60	46.71/46.36	8.28/8.41	6.52/6.36	NR	90
164	141-142	$C_{15}H_{24}N_2O_3Si$	49	58.74/58.44	7.44/7.79	9.31/9.09	NR	96
165	142-144	$C_{15}H_{23}N_2O_3ClSi$	50	52.34/52.63	6.86/6.72	8.32/8.18	NR	96
166	130-131	$C_{16}H_{26}N_2O_3Si$	63	60.02/59.62	8.06/8.07	8.82/8.70	NR	96
167	132-134	$C_{16}H_{26}N_2O_3Si$	45	59.89/59.62	8.31/8.07	8.69/8.70	NR	96
168	136-138	$C_{16}H_{26}N_2O_4Si$	70	56.51/56.80	7.68/7.69	8.22/8.26	NR	96
169	146-147	$C_{17}H_{28}N_2O_4Si$	62	57.65/57.93	8.13/7.95	7.96/7.93	NR	96
170	138-140	$C_{16}H_{26}N_2O_3Si$	80	59.88/59.62	8.25/8.07	8.59/8.70	NR	96
171	142-143	$C_{15}H_{23}N_3O_5Si$	43	50.76/50.99	6.44/6.52	11.41/11.90	NR	96
172	168-170	$C_{15}H_{22}N_4O_7Si$	73	45.29/45.23	5.43/5.53	14.33/14.41	NR	96
173	152-154	$C_{16}H_{21}N_4O_7FeSi$	82	41.13/41.20	4.35/4.51	11.96/12.02	NR	96

174	184-185	$C_{16}H_{19}N_2F_5O_4Si$	63	NR	NR	NR	NR	97
179	305 (dec)	$C_{14}H_{22}NO_3TeISi$	91	31.28/31.43	4.23/4.15	2.69/2.62	4.97/5.25	63
180	222-224/221-223[a]	$C_{15}H_{31}N_2O_6SeISi_2$	85/76 [a]	30.21/31.15	5.39/5.23	4.42/4.68	9.23/9.40	63
181	228	$C_{15}H_{31}N_2O_6TeISi_2$	87	27.69/27.88	4.92/4.84	4.39/4.34	8.38/8.69	63
182	318 (dec)	$C_{21}H_{42}N_3O_9SeISi_3$	88	32.81/32.73	5.63/5.49	5.36/5.45	10.65/10.94	63
183	126-127	$C_{16}H_{22}NO_3ISiTe$	97	34.40/34.40	4.30/3.90	2.50/2.50	4.7/5.0	98
184	110-112	$C_{13}H_{26}NO_3ISi_2Te$	94	28.20/28.10	4.60/4.70	2.49/2.50	9.1/9.4	98
185	210-212	$C_9H_{20}NO_3ISiTe$	84	22.70/ 22.90	4.20/4.30	3.00/3.00	5.6/5.9	98
186	173-174	$C_9H_{20}NO_3ISeSi$	85	25.30/25.50	4.70/4.80	3.40/3.30	6.7/6.6	98
187	NR	$C_{11}H_{23}NO_4Si$	79	50.12/50.54	8.92/8.87	5.13/5.36	NR	73
188	NR	$C_{23}H_{31}NO_4Si$	59	66.43/66.79	7.81/7.56	3.15/3.39	NR	73
189	170-172	$C_8H_{15}NO_5Si$	63, 60[a]	41.90/41.19	6.15/6.48	5.71/6.00	12.28/12.04	99
190	220-222	$C_{13}H_{17}NO_5Si$	76, 61[a]	53.20/52.86	5.32/5.80	4.23/4.74	9.07/9.51	99
191	>340 subl. pt	$C_6H_{12}NO_5FSi$	90	37.69/37.29	5.86/6.26	7.66/7.25	14.01/14.53	99
192	245 (dec)	$C_{23}H_{25}NO_5FeSi$	79	57.43/57.63	5.26/5.26	3.00/2.92	NR	100
193	236 (dec)	$C_{20}H_{24}NO_5Cl_3FeSi$	67	43.76/43.78	4.52/4.41	2.47/2.55	NR	100
194	195-196	$C_{20}H_{25}NO_6FeSi$	35	52.46/52.30	5.48/5.49	3.07/3.05	NR	100
195	213-214	$C_{18}H_{23}NO_5FeSi$	82	51.76/51.81	5.62/5.55	3.30/3.36	NR	100
196	202-203	$C_{21}H_{26}NO_5Cl_3FeSi$	66	44.86/44.82	4.52/4.66	2.63/2.49	NR	100
197	NR	$C_{16}H_{31}NO_4Si$	66	57.89/58.32	9.47/9.48	3.86/4.25	NR	73
198	NR	$C_{22}H_{35}NO_4Si$	27	64.89/65.15	8.57/8.70	3.56/3.45	NR	73
199	161-163	$C_{12}H_{18}N_2O_4Si$	56	49.61/51.04	6.44/6.42	9.50/9.92	NR	101
200	121-122	$C_{12}H_{18}N_2O_4Si$	44	50.38/51.04	6.76/6.42	9.54/9.92	NR	101

201	157-160	$C_{12}H_{18}N_2O_4Si$	48	49.83/51.04	6.65/6.42	9.67/9.92	NR	101
202	130-134	$C_{13}H_{20}N_2O_4Si$	25	52.03/52.68	6.97/6.80	9.22/9.45	NR	101
203	250-255	$C_{18}H_{23}NO_3FeSi$	90	56.30/56.10	6.00/6.00	3.80/3.60	NR	102
204	220–223	$C_{42}H_{42}N_2O_4ClOsP_2Si$	83	56.00/56.07	4.11/4.47	1.63/1.42	NR	103
205	175–179	$C_{60}H_{60}NO_3OsP_3Si$	63	60.88/60.72	5.10/5.14	1.15/1.17	NR	103
206	214-217	$C_{43}H_{42}NO_4ClOsP_2Si$	94	54.99/54.22	4.77/4.44	1.42/1.47	NR	104
207	NR	$C_{13}H_{16}NO_3F_3Si$	53	NR	NR	NR	NR	105
208	NR	$C_{15}H_{21}NO_5Si$	67	NR	NR	NR	NR	105
209	NR	$C_{14}H_{19}NO_4Si$	83	NR	NR	NR	NR	105
210	NR	$C_{12}H_{16}NO_3BrSi$	74	NR	NR	NR	NR	105
211	NR	$C_{14}H_{19}NO_3Si$	83	NR	NR	NR	NR	105
213	176–178	$C_{61}H_{63}NO_3IOsP_3Si$	78	54.35/53.92	4.92/4.74	1.00/1.01	NR	103
214	NR	$C_{61}H_{61}NO_6F_3OsP_3SSi$	86	56.56/56.17	4.99/4.71	1.25/1.07	NR	103
215	209-212	$C_{45}H_{45}F_3NO_7ClOsP_2SSi$	76	47.12/47.15	3.91/4.00	1.24/1.21	NR	104
216	253-254	$C_{50}H_{42}N_3O_2OsP_3Si$	63	53.18/53.03	4.28/4.25	1.21/1.41	NR	104
218	180 (dec)	$C_{19}H_{38}N_4O_8SSi_2$	60	NR	7.05/7.50	8.81/10.41	10.51/10.40	109
219	259–261	$C_{14}H_{17}NO_3Si$	44	NR	NR	NR	NR	112
221	215-220 (dec)	$C_{18}H_{23}NO_3FeSi$	90, 50[a], 75[b], 30[c]	56.50/56.10	6.20/6.00	3.30/3.60	NR	102
222	245-246	$C_{14}H_{18}N_2O_5Si$	37	52.40/52.20	5.50/5.60	8.40/8.70	NR	102
224	164 (dec)	$C_{15}H_{21}NO_6Si$	NR	NR	NR	NR	NR	59
225	104-106	$C_{10}H_{17}NO_3Si$	91	53.37/52.84	7.67/7.54	NR	NR	59
226	77-80	$C_{15}H_{25}NO_5Si$	94	55.50/55.02	8.14/7.70	NR	NR	60
227	77-80	$C_{15}H_{25}NO_5Si$	94	55.50/55.02	8.14/7.70	NR	NR	60

229	300	$C_{13}H_{21}NO_3Si_2$	61	52.61/52.85	7.22/7.16	4.87/4.74	NR	66
230	350	$C_{28}H_{27}NO_3Si_2$	45	69.98/69.82	5.72/5.65	2.66/2.91	NR	66
231	Viscous liquid	$C_{58}H_{91}NO_3Si$	52	NR	NR	NR	NR	113
232	NR	$C_{69}H_{99}NO_7Si_3$	24	72.65/72.77	8.87/8.76	1.21/1.23	NR	114
233	NR	$C_{75}H_{103}NO_7Si_3$	65	74.37/74.15	8.84/8.55	1.17/1.15	NR	114
234	183	$C_{20}H_{12}NO_3Br_3Si$	NR	41.29/41.27	2.28/2.08	2.42/2.41	NR	115
235	245	$C_{20}H_{12}NO_3I_3Si$	NR	33.48/33.22	1.32/1.67	1.92/1.94	NR	115
236	>210	$C_{28}H_{33}NO_3Si$	84	73.69/74.06	7.86/8.02	2.79/2.79	NR	116
237	>170	$C_{28}H_{33}NO_4Si$	60	70.54/71.78	7.63/7.77	2.74/2.70	NR	116
238	215-220	$C_{33}H_{35}NO_3Si$	87	75.10/75.97	6.85/6.76	2.60/2.68	NR	116
239	>240	$C_{28}H_{30}NO_3\ Cl_3Si$	89	60.24/59.74	5.69/5.37	2.47/2.49	NR	116
240	227-229	$C_{33}H_{35}NO_4BrSi$	50	NR	NR	NR	NR	117
241	250-252	$C_{28}H_{32}NO_3ClSi$	66	67.64/68.07	6.79/6.53	2.77/2.83	NR	117
242	205-208	$C_{37}H_{48}NO_4Si$	51	74.65/74.84	7.36/7.30	2.34/2.36	NR	117
243	171-174	$C_{29}H_{33}NO_3Si$	77	73.18/74.30	7.03/6.95	2.48/2.48	NR	117
244	117-119	$C_{29}H_{33}NO_3Si$	65	72.83/73.19	7.53/7.38	2.76/2.75	NR	117
245	128-131	$C_{34}H_{37}NO_3Si$	48	76.58/76.46	7.56/7.24	2.43/2.54	NR	117
246	180-181	$C_{34}H_{38}N_2O_3Si$	78	73.64/74.15	6.93/6.95	5.41/5.09	NR	117
247	> 240	$C_{37}H_{50}NO_3ClSi$	64	71.12/71.64	8.25/8.12	2.20/2.26	NR	118
248	238-241 (dec)	$C_{36}H_{48}NO_3ClSi$	15	NR	NR	NR	NR	118
249	224-227	$C_{36}H_{49}NO_4Si$	50	73.33/73.97	9.11/8.71	2.07/2.28	NR	118
250	> 250	$C_{42}H_{53}NO_3Si$	50	77.52/77.85	8.39/8.24	2.06/2.16	NR	118
251	248-250	$C_{37}H_{51}NO_3Si$	81	76.51/76.38	9.96/9.29	2.19/2.23	NR	118

252	> 240	$C_{42}H_{53}NO_3Si$	7	NR	NR	NR	NR	118
253	200-202	$C_{28}H_{30}N_2O_3SSi$	89	66.92/67.00	5.99/6.00	5.49/5.58	5.55/5.57	119

[(P)] Value for P; [a,b,c], alternate method

Table S2 IR data of reported silatranes

Silatrane	IR (cm^{-1})	Ref.
2	3440 m, 3425 m, 1650 w (ν N-H), 885 m, 918 vs (ν C-N), 1120 s, 1098 s, 1068 m, 1082 vs, 945 vs (ν Si-O-C-C), 780 m, 760 s δ_{as} (SiO_3), 622 s (δ_s SiO_3) and (ν_s Si-C), 588 s (δ Skel), 360 w (ν Si←N)	29
3	1565 m, 1550 m, 1210 m, 1195 m (pyrazole moiety), 1128 s, 1105 s, 1055 vs, 1015 vs, 940 vs (ν Si-O-C-C), 917 vs, 885 m (ν C-N), 780 s, 765 vs (δ_{as} SiO_3) 620 s (δ_s SiO_3), (ν_s Si-C) 580 s (δ Skel) 360 w (ν Si←N)	29
5	1565 w, 1550 s, 1215 m, 1205 m (pyrazole moiety), 1130 s, 1105 s, 1055 s, 1020 vs, 948 vs, (ν Si-O-C-C), 918 vs, 885 m (ν C-N), 780 s, 770 s (δ_{as} SiO_3), 635 s (δ_s SiO_3), (ν_s Si-C), 575 s (δ Ske1), 360 w (ν Si←N)	29
7	1572 w, 1552 s, 1205 m (pyrazole moiety), 1090-1130 b, 1020 w, 942 vs (ν Si-O-C-C), 915 vs, 885 m (ν C-N), 760-810 b (δ_{as} SiO_3), 620 m (δ_s SiO_3), (ν Si-C), 588 m (δ Ske1) 365 w (ν Si←N)	29
10	3144 w, 3005 m, 1614 m, 1570 w, 1217 s (heterocyclic moiety), 1128 vs, 1100 vs, 1055 s, 1004 m, 940 m (ν Si-O-C-C), 915 vs, 880 w (ν C-N), 775 m, 747 s (δ_{as} SiO_3), 620 m (δ_s SiO_3), (ν Si-C) 585 m (ν Si←N)	30
15	1385 m, 1357 m, 1277 s, 1175 m, 1140 vs, 1102 vs, 1059 s, 1009 s, 990 m, 928 m, 902 s, 880 s, 815 vs, 780 vs, 759 vs, 721 s, 672 m, 628 m, 575 m	31
16	1400 w, 1357 m, 1278 s, 1176 m, 1135 vs, 1107 vs, 1059 s, 1009 s, 985 m, 930 m, 902 s, 885 s, 820 vs, 785 vs, 766 vs, 721 s, 673 m, 627 m, 575 m	31
17	1380 m, 1357 m, 1276 s, 1177 m, 1150 vs, 1104 vs, 1059 s, 1008 s, 986 s, 928 s, 904 s, 884 s, 813 vs, 794 vs, 763 vs, 720 s, 674 w, 628 m, 576 m	31
18	1380 w, 1358 m, 1272 s, 1180 m, 1135 vs, 1105 vs, 1058 s, 1008 s, 970 s, 940 m, 904 s, 880 m, 810 s, 773 s, 760 s, 720 m, 670 m, 620 m, 580 m	31
19	1400 m, 1360 w, 1273 m, 1180 m, 1140 s, 1097 vs, 1050 w, 1000 s, 980 m, 939 m, 900 m, 881 m, 830 m, 780 s, 760 s, 725 s, 673 s, 635 m, 575 m	31
20	1400 w, 1371 m, 1292 m, 1197 m, 1130 vs, 1095 vs, 1035 vs, 1003 s, 972 s, 920 m, 903 m, 880 m, 810 m, 782 s, 760 s, 725 m, 693 m, 630 m, 580 m	31
21	1400 w, 1347 m, 1272 m, 1202 m, 1135 vs, 1096 vs, 1027 vs, 1001 s, 975 s, 935 w, 902 m, 880 w, 830 w, 780 m, 760 s, 720 m, 673 s, 634 m, 590 m	31
22	1380 m, 1361 m, 1278 s, 1170 m, 1140 vs, 1108 vs, 1059 s, 1008 s, 985 s, 927 s, 900 s, 884 s, 813 vs, 795 vs, 769 vs, 725 s, 680 s, 626 m, 575 m	31

23	1400 m, 1361 m, 1280 s, 1176 m, 1145 vs, 1106 vs, 1058 s, 1008 s, 985 s, 927 s, 905 s, 880 m, 815 vs, 798 vs, 770 vs, 719 s, 673 s, 631 m, 572 m	31
25	3212 s (ν_{as} NH), 3088 s (ν_s NH), 2970 vs (ν_{as} CH_3), 2878 s (ν_s CH_3), 1665 vs (ν C=O), 1550 m (δ NH), 1439 s, 1381 m (δ CH_3C), 1340 w (ω CH_2N), 1279 m (ω CH_2O), 1190 w (τ CH_2O) 1117 vs, 1091 vs (ν C-O), 1050 w, 1022 s (ν_{as} NC_3), 943 m (ν C-C), 915 s (ν_s NC_3) 880 w (ν C-N), 783 s, 760 s (ν_{as} Si-O), 717 m, 680 w, 625 m (ν_s Si-O), 585 m (ν Si←N)	32
26	3296 s (ν_{as} NH), 3094 s (ν_s NH), 2975 vs (ν_{as} CH_3), 2879 s (ν_s CH_3), 1636 vs (ν C=O), 1559 m (δ NH), 1440 s, 1372 s (δ CH_3C), 1330 vw (ω CH_2N), 1285 m (ω CH_2O), 1197 w (τ CH_2O), 1121 vs, 1109 vs (ν C-O), 1060 vs, 1023 vs (ν_{as} NC_3), 970 s (ν C-C), 920 w (ν_s NC_3) 880 w (ν C-N), 780 s, 760 s (ν_{as} Si-O), 715 m, 680 w, 625 m (ν_s Si-O), 587 m (ν Si←N)	32
27	3417 s (ν_{as} NH), 3336 s (ν_s NH), 1630 vs (ν C=O), 1529 m (δ NH 1° and δ NH 2°), 1370 m, 1335 s (ω CH_2N), 1275 m (ω CH_2O), 1183 m (τ CH_2O), 1120 vs, 1085 vs (ν C-O), 1050 vw, 1020 s (ν_{as} NC_3), 945 s (ν C-C), 910 s (ν_s NC_3) 880 w (ν C-N), 783 s, 763 vs (ν_{as} Si-O), 715 s, 670 vw, 615 m (ν_s Si-O), 586 m (ν Si←N)	32
28	3425 s (ν_{as} NH), 3359 s (ν_s NH), 2970 vs (ν_{as} CH_3), 2875 vs (ν_s CH_3), 1637 vs (ν C=O), 1568 m (δ NH 1° and δ NH 2°), 1461 s, 1379 m (δ CH_3C), 1350 m, (ω CH_2N), 1266 m (ω CH_2O), 1180 w (τ CH_2O), 1158 vs, 1110 vs (ν C-O), 1068 vs, 1020 s (ν_{as} NC_3), 979 vs (ν C-C), 910 vw (ν_s NC_3) 882 s (ν C-N), 774 vs (ν_{as} Si-O), 725 s, 670 m, 615 m (ν_s Si-O), 570 m (ν Si←N)	32
29	1646 m, 1547 m (epoxycyclohexane ring),1361m, 1340 w (ω CH_2N), 1275s (ω CH_2O), 1180 m (τ CH_2O), 1130 vs, 1100 vs (ν C-O), 1050 vw, 1010 s (ν_{as} NC_3), 942 s (ν C-C), 911 s (ν_s NC_3), 880 s (ν C-N), 780 vs, 760 vs (ν_{as} Si-O), 720 s, 680 vw, 619 s (ν_s Si-O), 586 m (ν Si←N)	32
30	2970 vs (ν_{as} CH_3), 2869 s (ν_s CH_3), 1650 w, 1542 w (epoxycyclohexane ring), 1454 s, 1376 m (δ CH_3C), 1343 m, (ω CH_2N), 1269 m (ω CH_2O), 1180 m (τ CH_2O), 1156 vs, 1112 vs (ν C-O), 1067 vs, 1013 vs (ν_{as} NC_3), 975 vs (ν C-C), 920 w (ν_s NC_3), 882 s (ν C-N), 771 vs, 760 s (ν_{as} Si-O), 728 s, 680 w, 656 m (ν_s Si-O), 579 m (ν Si←N)	32
31	1660 m, 1602 m (imidazoline ring), 1368 m, 1330 vw (ω CH_2N), 1283 m (ω CH_2O), 1170 w (τ CH_2O), 1125 vs, 1096 vs (ν C-O), 1050 vw, 1023 s (ν_{as} NC_3), 950 s (ν C-C), 917 s (ν_s NC_3), 880 w (ν C-N), 771 vs, 761 vs (ν_{as} Si-O), 715 m, 680 w, 632 m (ν_s Si-O), 585 m (ν Si←N)	32
32	2970 vs (ν_{as} CH_3), 2868 s (ν_s CH_3), 1665 w, 1601 s (imidazoline ring), 1461 s, 1378 m (δ CH_3C), 1379 m, 1330 w (ω CH_2N), 1241 m (ω CH_2O), 1186 m (τ CH_2O), 1152 vs, 1114 vs (ν C-O), 1067 s, 1010 w (ν_{as} NC_3), 965 s (ν C-C), 910 w (ν_s NC_3), 880 s (ν C-N), 799 s, 761 vs (ν_{as} Si-O), 723 s, 660 vw, 640 m (ν_s Si-O), 570 m (ν Si←N)	32
33	1686 vs (ν C=O), 1368 m, 1340 vw (ω CH_2N), 1282 m (ω CH_2O), 1180 w (τ CH_2O), 1130 vs, 1103 vs (ν C-O), 1050 vs, 1023 s (ν_{as} NC_3), 940 m (ν C-C), 917 s (ν_s NC_3), 880 w (ν C-N), 780 vs, 761 vs (ν_{as} Si-O), 730 s, 680 vw, 625 m (ν_s Si-O), 580 m (ν Si←N)	32
34	2969 vs (ν_{as} CH_3), 2874 s (ν_s CH_3), 1688 vs (ν C=O), 1463 s, 1376 m (δ CH_3C), 1335 m (ω CH_2N), 1270 m (ω CH_2O), 1180 m (τ CH_2O), 1156 vs, 1112 vs (ν C-O), 1064 s, 1010 w (ν_{as} NC_3), 973 s (ν C-C), 910 vw (ν_s NC_3), 881 s (ν C-N), 771 vs, 761 vs (ν_{as} Si-O), 725 m, 661 w, 610 vw (ν_s Si-O), 577 m (ν Si←N)	32

35	3350 s (ν_{as} NH), 3291 s (ν_s NH), 2933 vs (ν_{as} CH_2), 2880 vs (ν_s CH_2O), 2821 s, (ν_s CH_2N), 1600 m (δ NH_2) 1480 m (δ_s CH_2N), 1461 s (δ_s CH_2O), 1368 m (ω CH_2N), 1282 s (ω CH_2O), 1180 m (τ CH_2O), 1130 vs, 1100 vs (ν C-O), 1060 s, 1023 s (ν_{as} NC_3), 940 s (ν C-C), 911 s (ν_s NC_3), 878 w (ν C-N), 810 m, 780 vs, 760 vs (ν_{as} Si-O), 725 s, 670 w, 615 m (ν_s Si-O), 585 m (ν Si←N)	33
36	3362 s (ν_{as} NH), 3305 s (ν_s NH), 2970 vs (ν_{as} CH_3), 2930 (ν_{as} CH_2), 2890 vs (ν_s CH_2O), 2820 s (ν_s CH_2N), 1599 m (δ NH_2) 1465 m (δ_s CH_2N), 1461 s (δ_s CH_2O), 1381 m (ω CH_2N), 1275 s (ω CH_2O), 1180 m (τ CH_2O), 1132 vs, 1095 vs (ν C-O), 1060 s, 1023 s (ν_{as} NC_3), 945 s (ν C-C), 910 s (ν_s NC_3), 883 w (ν C-N), 813 m, 780 vs, 759 vs (ν_{as} Si-O), 725 s, 670 w, 614 m (ν_s Si-O), 580 m (ν Si←N)	33
37	3359 s (ν_{as} NH), 3299 s (ν_s NH), 2975 (ν_{as} CH_3), 2922 vs (ν_{as} CH_2), 2872 vs (ν_s CH_2O), 2821 s, (ν_s CH_2N), 1600 m (δ NH_2) 1480 m (δ_s CH_2N), 1457 s (δ_s CH_2O), 1357 m, (ω CH_2N), 1276 s, (ω CH_2O), 1177 m (τ CH_2O), 1130 vs, 1104 vs (ν C-O), 1059 s, 1008 s (ν_{as} NC_3), 928 s (ν C-C), 904 s (ν_s NC_3), 884 w (ν C-N), 813 m, 780 vs, 763 vs (ν_{as} Si-O), 721 s, 674 w, 628 m (ν_s Si-O), 576 m (ν Si←N)	33
38	3354 s (ν_{as} NH), 3301 s (ν_s NH), 2930 vs (ν_{as} CH_2), 2878 vs (ν_s CH_2O), 2821 s (ν_s CH_2N), 1632 m (δ NH_2) 1479 m (δ_s CH_2N), 1457 s (δ_s CH_2O), 1362 m (ω CH_2N), 1276 s (ω CH_2O), 1180 m (τ CH_2O), 1133 vs, 1098 vs (ν C-O), 1042 s, 1003 s (ν_{as} NC_3), 941 s (ν C-C), 921 s (ν_s NC_3), 879 w (ν C-N), 794 m, 780 vs, 760 vs (ν_{as} Si-O), 718 s, 694 w, 630 m (ν_s Si-O), 621 s (ν C-Cl), 580 m (ν Si←N)	33
42	3300 (NH), 2930, 2870 (CH_2O, CH_2N silatrane skeleton, CH_2), 1620, 1600, 1490, 1460 (C=C, C=N pyridine ring), 1560 (δ NH), 1125, 1095 (ν_{as} $Si(OC)_3$), (ν_{as} $N(C_3)_3$)	39
47	3064 vw, 1614 vw, 1588 vw, 1482 w, 1168 w, 1125 s, 784 s, 746 m, 665 w	44-46
48	3093 vw, 3059 vw, 1569 vw, 1483 w, 1169 w, 1123 s, 766 s, 730 m, 623 w	44-46
66	1678 (ν C=O), 1610 (ν C=N), 1094 (ν Si-O)	55
67	1464 m, 1380 s, 1160 s, 1115 s, 1098 m, 885 s, 780 s, 662 m, 428 w	56
68	1460 m, 1381 m, 1160 s, 1115 s, 1098 m, 885 s, 780 s, 660 m, 428 w	56
69	1460 m, 1380 m, 1158 s, 1116 s, 1100 m, 883 s, 775 s, 660 m, 423 w	56
70	1461 m, 1379 m, 1158 s, 1112 s, 1095 m, 886 s, 780 s, 662 w, 425 w	56
71	1464 m, 1378 m, 1162 s, 1115 s, 1098 s, 888 s, 791 s, 660 w, 425 w	56
72	1460 m, 1376 m, 1150 s, 1115 s, 1100 m, 886 s, 784 s, 672 w	56
73	1465 m, 1380 m, 1155 s, 1112 s, 1095 m, 885 s, 794 s, 440 w	56
77	2998 m, 2958 m, 2897 s, 2891 s, 1489 m, 1455 m, 1277 m, 1245 w, 1225 m, 1167 w, 1115, 1118 s, 1086 vs, 1048 m, 1029 vs, 938, 946 m, 913 m, 871, 877 w, 805, 811 vs, 767 w, 716 m, 648, 652 s, 625 w, 596 s, 492 m, 442 s	57
85	3400-3070 (NH), 1650 (C=O), 1530 (δ NH), 1120, 1100, 760 (Si-O-C), 620-580 (skeletal)	64

86	3400-3070 (NH), 1850 (C=O), 1640 (Ph), 1120, 1090, 780 (Si-O-C), 620-580 (skeletal)	64
87	3090, 3200 (ν NH_2), 1620 (δ NH_2), 865, 890, 915, 1065, 1150 (Si-O-C)	65
89	3058 w (CH), 2972 m, 2936 m, 2886 m, 2828 w (CH), 2150 m (C≡C), 1634 s (C=C), 1486 m (CH_2), 1457 m (OCH_3), 1275 s (C-O, CH_{2wag}), 1116 vs (CO), 1089 vs (Si-O-C)	66
96	1050–1120 (C–O–Si), 1400–1600 (pyridine ring)	71
98	2175 (C≡C)	73
99	2185 (C≡C)	73
100	2170 (C≡C)	73
106	3025, 3058, 1645, 1136, 1069, 534, 505	74
107	3062, 3039, 1648, 1136, 1069, 535, 505	74
108	3063, 3025, 1637, 1137, 1069, 535, 505	74
109	3062, 3024, 1635, 1137, 1069, 535, 505	74
110	3062, 3024, 1645, 1137, 1069, 537, 505	74
111	3023, 1641, 1135, 1069, 536, 506	74
112	3062, 1637, 1137, 1069, 536, 505	74
113	3062, 1647, 1137, 1069, 536, 505	74
114	3061, 1644, 1135, 1069, 536, 505	74
115	3299 (ν N-H), 1590 (δ NH_2), 1128 (ν_{as} Si-O), 799 (ν_s Si-O), 523 (ν Si←N)	75
116	3308 (ν N-H), 1592 (δ NH_2), 1133 (ν_{as} Si-O), 799 (ν_s Si-O), 531 (ν Si←N)	75
117	3308 (ν N-H), 1593 (δ NH_2), 1121 (ν_{as} Si-O), 800 (ν_s Si-O), 534 (ν Si←N)	75
118	3302 (ν N-H), 1590 (δ NH_2), 1124 (ν_{as} Si-O), 800 (ν_s Si-O), 536 (ν Si←N)	75
119	3298 (ν N-H), 1581 (δ NH_2), 1120 (ν_{as} Si- O), 799 (ν_s Si-O), 530 (ν Si←N)	75
120	3308 (ν N-H), 1598 (δ NH_2), 1135 (ν_{as} Si-O), 800 (ν_s Si-O), 528 (ν Si←N)	75

133	2121 (vs C=N), 456 (m NCS), 576 (m Si-N), 670 (m C=S), 625 (m SiO_3) (m Si–C), 725 vs, 770 (s SiO_3), 938 s, 975 s, 1085 s, 1115 s, 1152 (s Si–O–C–C), 1175 (m CH_2O), 1270 (m CH_2O), 1370 m, 1342 (m CH_2N)	87
134	3283 (N-H), 1263 (P=O), 1096, 1006 (P-O-C), 1052 (Si-O-C)	88
135	3210 (N-H), 1229 (P=O), 1098, 993 (P-O-C), 1051 (Si-O-C)	88
136	3234 (N-H), 1211 (P=O), 1089, 995 (P-O-C), 1045 (Si-O-C)	88
137	3215 (N-H), 1211 (P=O), 1095, 994 (P-O-C), 1047 (Si-O-C)	88
138	3243 (N-H), 1238 (P=O), 1091, 995 (P-O-C), 1045 (Si-O-C)	88
139	3235 (N-H), 1243 (P=O), 1097, 996 (P-O-C), 1048 (Si-O-C)	88
140	3219 (N-H), 1104, 1009 (P-O-C), 1035 (Si-O-C), 757 (P=S)	88
141	3231 (N-H), 1091, 1019 (P-O-C), 1027 (Si-O-C), 751 (P=S)	88
142	3238 (N-H), 1079, 1001 (P-O-C), 1028 (Si-O-C), 752 (P=S)	88
143	3237 (N-H), 1084, 1002 (P-O-C), 1028 (Si-O-C), 751 (P=S)	88
144	3233 (N-H), 1089, 1001 (P-O-C), 1031 (Si-O-C), 752 (P=S)	88
145	3229 (N-H), 1096, 1005 (P-O-C), 1027 (Si-O-C), 751(P=S)	88
146	3285 (N-H), 1717, 1679 (C=O), 1263 (P=O), 1089, 990 (P-O-C), 1065, 760 (Si-O), 585 (Si←N)	89
147	3280 (N-H), 1710, 1680 (C=O), 1270 (P=O), 1090, 980 (P-O-C), 1050, 760 (Si-O), 591 (Si←N)	89
148	3280 (N-H), 1710, 1675 (C=O), 1265 (P=O), 1085, 988 (P-O-C), 1050, 760 (Si-O), 583 (Si←N)	89
149	3278 (N-H), 1715, 1680 (C=O), 1265 (P=O), 1087, 990 (P-O-C), 1049, 760 (Si-O), 585 (Si←N)	89
150	3282 (N-H), 1710, 1670 (C=O), 1280 (P=O), 1110, 995 (P-O-C), 1050, 760 (Si-O), 583 (Si←N)	89
151	3285 (N-H), 1710, 1680 (C=O), 1280 (P=O), 1050, 990 (P-O-C), 1040, 760 (Si-O), 585 (Si←N)	89
152	3290 (N-H), 1705, 1670 (C=O), 1280 (P=O), 1115, 996 (P-O-C), 1050, 760 (Si-O), 580 (Si←N)	89
153	3280 (N-H), 1700, 1670 (C=O), 1277 (P=O), 1110, 990 (P-O-C), 1050, 760 (Si-O), 560 (Si←N)	89
154	3285 (N-H), 1275 (P=O), 1188 (P-O-C), 1010 (Si-O), 942 (P-N), 585 (Si←N)	90

155	3286 (N-H), 1273 (P=O), 1186 (P-O-C), 1010 (Si-O), 942 (P-N), 585 (Si←N)	90
156	3278 (N-H), 1276 (P=O), 1188 (P-O-C), 1010 (Si-O), 942 (P-N), 583 (Si←N)	90
157	3280 (N-H), 1373 (P=O), 1188 (P-O-C), 1010 (Si-O), 942 (P-N), 585 (Si←N)	90
158	3277 (N-H), 1279 (P=O), 1188 (P-O-C), 1010 (Si-O), 942 (P-N), 584 (Si←N)	90
159	3289 (N-H), 769 (P=S), 1186 (P-O-C), 1010 (Si-O), 942 (P-N), 583(Si←N)	90
160	3286 (N-H), 761 (P=S), 1186 (P-O-C), 1010 (Si-O), 942 (P-N), 582 (Si←N)	90
161	3278 (N-H), 765 (P=S), 1186 (P-O-C), 1010 (Si-O), 942 (P-N), 584 (Si←N)	90
162	3281 (N-H), 764 (P=S), 1186 (P-O-C), 1010 (Si-O), 942 (P-N), 584 (Si←N)	90
163	3280 (N-H), 760 (P=S), 1186 (P-O-C), 1010 (Si-O), 942 (P-N), 585 (Si←N)	90
183	1080, 1115 (Si-O-C), 1590 (C=C), 2145 (C=C), 3045 (C-H)	98
184	1090, 1125 (Si-O-C), 2150 (C=C)	98
192	1121, 1023 (ν Fc), 1682 (ν_{as} CO_2), 1318 (ν_s CO_2), 365 (δ ν CO_2), 1088 (ν Si-O), 588 (ν Si←N)	100
193	1121, 1022 (ν Fc), 1668 (ν_{as} CO_2), 1316 (ν_s CO_2), 353 (δ ν CO_2), 1092 (ν Si-O), 584 (ν Si←N)	100
194	1120, 1022 (ν Fc), 1660 (ν_{as} CO_2), 1377 (ν_s CO_2), 283 (δ ν CO_2), 1096 (ν Si-O), 592 (ν Si←N)	100
195	1115, 1024 (ν Fc), 1714 (ν_{as} CO_2), 1334 (ν_s CO_2), 380 (δ ν CO_2), 1085 (ν Si-O), 583 (ν Si←N)	100
196	1122, 1028 (ν Fc), 1676 (ν_{as} CO_2), 1318 (ν_s CO_2), 358 (δ ν CO_2), 1094 (ν Si-O), 578 (ν Si←N)	100
204	3433, 2025, 1585, 1571, 1401, 1257, 1220, 1127, 1070, 1090, 912, 829, 740, 690, 634	103
205	2037, 1586, 1573, 1401, 1257, 1224, 1127, 1065, 1088, 910, 832, 743, 697, 636, 520	103
206	1913, 1365, 1263, 1109, 998, 911, 878, 862, 702, 662, 608	104
213	1902, 1942, 1976, 2092, 2015, 1402, 1384, 1329, 1115, 1099, 1022, 939, 916, 860, 798	103
214	2105, 2059, 2033, 1586, 1384, 1328, 1125, 1085, 1079, 906, 863, 660	103
215	1924, 1279, 1259, 1225, 1157, 1063, 997, 982, 934, 911, 849, 832, 799, 708, 639	104

216	1877, 1588, 1402, 1384, 1383, 1267, 1119, 1019, 938, 912, 794, 747, 724, 638, 592	104
218	2970-2860 (ν_s CH_2O) (ν_s CH_2N), (ν CH_2), 1460 (δ_s NCH_2), 1105-1090 (ν_{as} $Si(OC)_3$), (ν_{as} NC_3), 1109-935 (ν C-C), 760 (ν_s $SiOC_3$)	109
219	2165 (ν C≡C)	112
229	2932 s, 2884 s (C-H), 2065 s (C≡C), 1488 w, 1451 m (CH_2), 1272 s ($CH_{2\ wag}$), 1253 s ($SiCH_3$), 1117 vs (CO), 1087 vs (Si-O-C)	66
230	3067 w, 3049 w, 3020 w (CH arom), 2973 m, 2930 m, 2879 m (CH), 2065 s (C≡C), 1588 m, 1483 s, 1429 s (phenyl), 1455 s (CH_2), 1269 s ($CH_{2\ wag}$), 1115 vs (Si-C_6H_5),1088 vs (Si-O-C)	66
231	1295 m (ν C-O), 916 m (ν Si-O-Ar), 826 m (ν Si-C), 595 m (ν Si←N)	113
253	2115 (NCS), 1060 (Si-OC), 486 (NCS)	119

Table S3 ^{1}H and ^{29}Si NMR data of reported silatranes

Silatrane	^{1}H; [^{29}Si]			Ref.
	OCH_2 (ppm)	NCH_2 (ppm)	R	
1	NR	2.16-3.05	$CDCl_3$; 1.53 (m, 2H, CCH_2C), 0.38 (t, 2H, $SiCH_2$), 1.15-1.25 (m, 9H, CH_3), 3.85 - 4.11 (m, 3H, OCH)	29
2	3.71	2.76	$CDCl_3$; 3.05 (m, 2H, NCH_2C),1.69 (m, 2H, CCH_2C), 0.46 (t, 2H, $SiCH_2$), 6.58 (m, 3H, m,p-Ph), 7.11 (m, 2H, o-Ph)	29
3	3.73	2.78	$CDCl_3$; 2.48 (t, 2H, NCH_2C),1.52 (m, 2H, CCH_2C), 0.25 (t, 2H, $SiCH_2$), 4.87 (s, 4H, NCH_2N), 2.17 (s, 6H, CH_3), 5.76 (s, 2H, =CH)	29
4	NR	2.23-2.59	$CDCl_3$; 1.51 (m, 2H, CCH_2C), 0.27 (t, 2H, $SiCH_2$), 1.13-1.21 (m, 9H, CH_3), 3.82-3.87 (m, 3H, OCH), 4.89 (s, 4H, NCH_2N), 2.14, 2.18 (s, 6H, CH_3), 5.76 (s, 2H, =CH)	29
5	3.73	2.78	$CDCl_3$; 3.03 (m, 2H, NCH_2C), 1.48 (m, 2H, CCH_2C), 0.42 (t, 2H, $SiCH_2$), 6.58 (m, 3H, m,p-Ph), 6.72 (m, 2H, o-Ph), 5.0 (s, 2H, NCH_2N), 2.13, 2.19 (s, 3H, CH_3), 5.70 (s, 1H, =CH)	29
6	NR	2.16-3.06	$CDCl_3$; 1.55 (m, 2H, CCH_2C), 0.39 (m, 2H, $SiCH_2$), 1.14-1.23 (m, 9H, CH_3), 3.86-4.12 (m, 3H, OCH)	29
7	3.63	2.60	$CDCl_3$; 2.48 (m, 6H, NCH_2C),1.48 (m, 2H, CCH_2C), 0.52 (m, 2H, $SiCH_2$), 4.81 (s, 6H, NCH_2N), 2.09, 2.17 (s, 9H, CH_3), 5.75 (s, 3H, =CH)	29
8	NR	2.83-3.26	$CDCl_3$; 1.42 (m, 2H, CCH_2C), 0.32 (m, 2H, $SiCH_2$), 1.24 (m, 9H, CH_3), 3.74-4.12 (m, 3H, OCH), 5.04 (s, 6H, NCH_2N), 2.12, 2.19 (s, 9H, CH_3), 5.79 (s, 3H, =CH)	29
9	3.78	2.75-3.10	$CDCl_3$; 0.50 (t, 2H, $SiCH_2$), 1.62 (m, 2H, CCH_2C), 4.82 (s, 4H, NCH_2N), 7.0-8.0 (m, 10H, Ph), 2.21, 6.13 (s, 2H, heterocycle)	30
10	3.72	2.80-3.04	$CDCl_3$; 0.44 (t, 2H, $SiCH_2$), 1.67 (m, 2H, CCH_2C), 5.61 (s, 4H, NCH_2N), 6.92-7.75 (m, 8H, heterocycle)	30
11	3.75	2.78-3.17	$CDCl_3$; 0.54 (t, 2H, $SiCH_2$), 1.58 (m, 2H, CCH_2C), 4.85 (s, 4H, NCH_2N), 6.90-7.62 (m, 6H, heterocycle)	30
12	3.78	2.75-3.0	$CDCl_3$; 0.45 (t, 2H, $SiCH_2$), 1.55 (m, 2H, CCH_2C), 5.22 (s, 2H, NCH_2N), 6.9-7.8 (m, 10H, Ph), 2.15 (s, 3H) 5.90 (s, 1H, heterocycle)	30
13	3.74	2.80-3.15	$CDCl_3$; 0.46 (t, 2H, $SiCH_2$), 1.72 (m, 2H, CCH_2C), 5.45 (s, 2H, NCH_2N), 6.53-7.80 (m, 9H, heterocycle)	30
14	3.75	2.71-2.95	$CDCl_3$; 0.49 (t, 2H, $SiCH_2$), 1.64 (m, 2H, CCH_2C), 5.30 (s, 2H, NCH_2N), 6.90-7.75 (m, 8H, heterocycle)	30
15	3.77-3.50	2.83-2.21	$CDCl_3$; 1.54-1.36 (m, 4H, $OCCH_2$), 0.94 (t, 3H, CH_3), 0.38 (t, 2H, $SiCH_2$)	31

16	3.74-3.51	2.82-2.25	$CDCl_3$; 1.62-1.38 (m, 4H, $OCCH_2$), 0.95 (t, 3H, CH_3), 0.40 (t, 2H, $SiCH_2$)	31
17	3.61-3.49	2.71-2.09	$CDCl_3$; 1.36-1.27 (m, 2H, $OCCH_2$), 0.81 (t, 3H, CH_3), 0.23 (t, 2H, $SiCH_2$), 1.50-1.39 (m, 2H, CCH_2C)	31
18	3.54-3.28	2.32-1.63	$CDCl_3$; 1.37-1.12 (m, 2H, $OCCH_2$), 0.93 (t, 3H, CH_3), 0.89-0.84 (m, 2H, $SiCH_2$)	31
19	3.85-3.74	2.88-2.33	$CDCl_3$; 1.70-1.45 (m, 2H, $OCCH_2$), 0.98 (t, 3H, CH_3)	31
20	3.71-3.60	2.80-2.39	$CDCl_3$; 1.60-1.45 (m, 2H, $OCCH_2$), 0.95 (t, 3H, CH_3), 0.40 (t, 2H, $SiCH_2$), 1.50-1.41 (m, 2H, CCH_2C), 2.21-2.05 (m, 4H, CH_2N)	31
21	3.72-3.62	2.79-2.60	$CDCl_3$; 1.36-1.39 (m, 4H, $OCCH_2$), 0.94 (t, 3H, CH_3), 0.34 (t, 2H, $SiCH_2$)	31
22	3.77-3.67	2.83-2.26	$CDCl_3$; 1.25-1.41 (m, 2H, $OCCH_2$), 0.96 (t, 3H, CH_3), 0.37 (t, 2H, $SiCH_2$), 1.65-1.58 (m, 2H, CCH_2C), 3.07-3.18 (t, 2H, CH_2N)	31
23	3.81-3.55	2.79-2.24	$CDCl_3$; 1.52-1.40 (m, 6H, $OCCH_2$), 0.95 (q, 9H, CH_3), 0.41 (t, 6H, $SiCH_2$), 1.73-1.66 (m, 6H, CCH_2C)	31
25	3.87	3.24, 2.81	$CDCl_3$; 0.42 (t, 2H, CH_2Si), 1.62 (m, 2H, CCH_2C), 1.95 (s, 3H, CH_3), 6.65 (s, 1H, NH)	32
26	NR	2.55-2.91, 3.13	$CDCl_3$; 0.53 (t, 2H, CH_2Si), 1.05-1.21 (m, 9H, CH_3), 1.48 (m, 2H, CCH_2C), 2.01 (s, 3H, CH_3), 3.75-3.99 (m, 3H, OCH), 6.81 (s, 1H, NH)	32
28	NR	2.05-2.21, 2.52-2.99	$CDCl_3$; 0.30 (t, 2H, CH_2Si), 0.99-1.12 (m, 9H, CH_3), 1.48 (m, 2H, CCH_2C), 3.75-4.02 (m, 3H, OCH), 4.68 (s, 3H, $NH+NH_2$)	32
29	3.81	2.80	$CDCl_3$; 0.51 (t, 2H, CH_2Si), 0.93-2.25 (m, 9H, epoxycyclohexane ring), 1.78 (m, 2H, CCH_2C)	32
30	NR	2.49-3.03	$CDCl_3$; 0.30 (t, 2H, CH_2Si), 1.05-1.41 (m, 9H, CH_3), 1.58 (m, 2H, CCH_2C), 0.91-2.34 (m, 9H, epoxycyclohexane ring), 3.72-4.06 (m, 3H, OCH)	32
31	3.77	2.81, 3.20	$CDCl_3$; 0.38 (t, 2H, CH_2Si), 1.60 (m, 2H, CCH_2C), 3.32 (t, 4H, CH_2- imidazoline ring), 6.75 (s, 1H, CH)	32
32	NR	2.70-2.91, 3.16	$CDCl_3$; 0.45 (t, 2H, CH_2Si), 1.13-1.26 (m, 9H, CH_3), 1.68 (m, 2H, CCH_2C), 3.72-4.10 (m, 3H, OCH), 3.27 (t, 4H, CH_2-imidazoline ring), 6.93 (s, 1H, CH)	32
33	3.74	2.78, 3.17	$CDCl_3$; 0.38 (t, 6H, CH_2Si), 1.60 (m, 6H, CCH_2C)	32
34		2.09-2.41, 3.08	$CDCl_3$; 0.90 (t, 2H, CH_2Si), 1.08-1.15 (m, 27H, CH_3), 1.81 (m, 6H, CCH_2C), 3.61-3.97 (m, 9H, OCH)	32
35	3.76	2.30-2.87	$CDCl_3$; 1.39-1.57 (m, 2H, CH_2C), 0.29 (t, 2H, $SiCH_2$)	33
36		2.15-2.99	$CDCl_3$; 1.59-1.63 (m, 2H, CH_2C), 0.35 (t, 2H, $SiCH_2$), 1.05-1.25 (m, 9H, CH_3), 3.76-3.85 (m, 3H, OCH)	33

37	3.49-3.61	2.09-2.71	$CDCl_3$; 1.39-1.50 (m, 2H, CH_2C), 0.23 (t, 2H, $SiCH_2$), 1.27-1.36 (m, 2H, CH_2CH_3), 0.81 (t, 3H, CH_2CH_3)	33
39	3.59	2.29	$CDCl_3$; 1.43 (s, 6H, NCH_3), 4.2 (s, 2H, $SiCH_2$)	34
40	3.60	2.68	$CDCl_3$; 0.29 (t, 2H, $SiCH_2$), 1.18 (t, 1H, SH), 1.54 (m, 2H, CH_2), 2.32 (t, 2H, SCH_2)	35
42	3.44	2.42	$CDCl_3$; 0.48 (m, 2H, $SiCH_2$), 1.37 (m, 2H, CCH_2C), 2.50 (m, 2H, NCH_2), 4.3 (br/s, 1H, NH), 6.34 (dt, 1H, H-3 ring), 6.43 (ddd, 1H, H-5 ring), 7.23 (ddd, 1H, H-4 ring), 7.58 (dd, 1H, H-6 ring)	39
43	3.67	2.64	$CDCl_3$; 3.34 (s, CH_2), 6.34 (d, 3-H), 6.97 (dd, 6-H), 7.09 (dd, 5-H), 7.35 (d, 2-H), 7.39 (d, 7-H), 7.52 (d, 4-H); [-78.3]	40,41
44	3.77	2.83	$CDCl_3$; 3.26 (s, CH_2), 6.01 (t, 3-H, 4-H), 6.71 (t, 2-H, 5-H); [-78.4]	40,42
45	3.69	2.75	$CDCl_3$; 3.58 (s, CH_2), 7.12 (dd, 3-H), 7.39 (dd, 2-H), 7.59 (d, 1-H), 8.04 (d, 4-H); [-76.6]	40,43
47	3.76	2.86	$CDCl_3$; 4.04 (CH_2); [-80.4]	40-42
48	3.77	2.80	$CDCl_3$; 4.29 (CH_2); [-81.3]	40-42
49	3.69	2.94	DMSO-d_6; 1.83 (s, 2H, CH_2Si), 8.79, 9.07 (d, 4H, NH_2); [-81.87]	47
50	3.67	2.94	DMSO-d_6; 1.82 (s, 2H, CH_2Si), 8.54 (s, 4H, NH_2); [-82.12]	47
51	3.71	2.97	DMSO-d_6; 1.78 (s, 2H, CH_2Si), 2.89 (s, 6H, CH_3N), 8.31, 8.69 (d, 4H, NH); [-82.36]	47
52	3.68	2.93	DMSO-d_6; 1.92 (s, 2H, CH_2Si), 5.25, 9.40 (NH + NH_2), 7.28- 7.50 (m, 5H, Ph); [-82.06]	47
53	3.69	2.94	DMSO-d_6; 1.97 (s, 2H, CH_2Si), 8.95 (NH), 7.28- 7.51 (m, 5H, Ph); [-82.23]	47
54	3.69	2.93	DMSO-d_6; 1.93 (s, 2H, CH_2Si), 3.78 (s, 4H, CH_2CH_2), 10.07 (s, 2H, NH); [-82.25]	47
55	3.68	2.94	DMSO-d_6; 1.90 (s, 2H, CH_2Si), 3.80 (s, 4H, CH_2CH_2), 9.55 (s, 2H, NH); [-82.51]	47
58	3.74	2.80	$CDCl_3$; 2.60 (s, H-3,4), 2.90 (s, CH_2); [-78.7]	49
59	3.72	2.76	$CDCl_3$; 1.83 (m, H-4), 2.57 (t, H-3,5), 3.24 (s, CH_2); [-77.0]	49
66	3.74	2.15	$CDCl_3$; 6.9–7.60 (m, C_6H_5), 0.58 (t, $SiCH_2$), 1.45–1.38 (m, 2H, $–NCH_2CH_2CH_2$)	55
77	3.81	3.09	DMSO-d_6; [-95.4]	57
78	3.86	2.86	$CDCl_3$; 5.03 (dd, 1H, $C=CH_2$ cis), 5.42 (dd, 1H, $C=CH_2$ trans), 5.64 (d, 1H, $C=CH_2$), 5.74 (d, 1H, $C=CH_2$), 6.51 (dd, 1H, CH=C)	59
80	3.80	2.83	$CDCl_3$; 1.68 (s, 2H, CH_2Si), 1.98 (s, 3H, CH_3Se); [-73.72]	63

81	3.79	2.81	$CDCl_3$; 2.08 (s, 2H, CH_2Si), 7.19-7.39 (m, 5H, Ph); [-72.10]	63
82	3.76	2.80	$CDCl_3$; 1.72 (s, 4H, $2CH_2Si$); [-71.59]	63
84	3.78	2.80	$CDCl_3$; 2.38 (s, 4H, $2CH_2Si$); [-73.72]	63
85	3.71	3.57	0.89 (m, $SiCH_2$), 1.56 (m, CH_2C), 2.75 (t, CH_2NH), 4.52 (br/s, NH)	64
86	NR	3.30	0.82 (m, $SiCH_2$), 2.97 (t, CH_2NH), 3.70 (s, OCH_2), 4.48 (br/s, NH)	64
87	3.85	3.00	$CDCl_3$; 3.48 (s, 6H, $(CH_3)_2N^+$), 2.82 (s, 2H, CH_2Si), 6.2 (s, 2H, NH_2); [-84.8]	65
88	3.88	3.04	$CDCl_3$; 3.50 (s, 6H, $(CH_3)_2N^+$), 2.82 (s, 2H, CH_2Si), 6.2 (s, 2H, NH_2); [-85.0]	65
89	3.89	2.91	$CDCl_3$; 3.74 (s, 3H, CH_3OCH=), 4.57 (d, 1H, CHC≡C), 6.18 (d, 1H, CH_3OCH=); [-94.2]	66
90	2.82	3.80	($CDCl_3$); 1.50-2.09 (m, 4H, two 3-H, two 4-H) 3.24-4.21 (m, 5H, 2-H, two 5-H, CH_2); [-94.7]	68
91	2.96	3.92	($CDCl_3$); 7.10 (dd, 1H), 7.33 (m, 1H), 8.10 (dd, 1H), 8.39 (d, 1H)	68
92	2.87	3.85	($CDCl_3$); 2.49 (s, 3H CH_3), 4.88 (s, 3H, CH_2), 6.92 (m, 1H, 5-H), 7.46-7.58 (m, 2H, 3-H, 4-H); [-94.7]	68
93	-	-	D_2O; 7.48 (s, 1H, 6-H), 6.11 (t, 1H, 1'-H), 4.36 (m, 1H, 3'-H), 4.07 (m, 1H, 1''-H), 3.95–3.88 (m, 3H, 1''-H, 4'-H), 3.71 (dd, 1H, 5'a-H), 3.62 (dd, 1H, 5'b-H), 3.18–2.77 (m, 4H, 2''-H), 2.42–2.31 (m, 2''-H), 2.22–2.10 (m, 2H, 2'-H), 1.73 (s, 3H, 7-H), 1.13–1.03 (m, 9H, 3''-H); [-96.12, -96.14, -96.21, -96.24]	69
95	-	-	D_2O; [-90.1]	70
96	3.91	2.93	$CDCl_3$; 6.74, 6.77, 7.46, 8.16; [-100.8]	71
98	-	-	$CDCl_3$; 2.46–2.51 (m, 1H), 2.79–2.87 (m, 1H), 2.90–2.95 (m, 1H), 3.26–3.34 (m, 1H), 3.82–3.87 (m, 2H), 3.98–4.03 (m, 1H), 4.10–4.17 (m, 1H) [$(ABXY)_2$ system of NCH_2CH_2O protons], 4.43 (d, 1H, NCH(Ph)), 5.46 (d, 1H, OCH(Ph)), 6.98–7.00, 7.15–7.36, 7.54–7.57 (3 m, 15H, aromatic protons); [-94.3]	73
99	-	-	$CDCl_3$; 2.24–2.28 (m, 1H), 2.79–2.86 (m, 1H), 2.93–2.97 (m, 1H), 3.35–3.42 (m, 1H), 3.84–3.90 (m, 1H), 4.00–4.09 (m, 2H), 4.13–4.20 (m, 1H) [$(ABXY)_2$ system of NCH_2CH_2O protons], 3.77 (d, 1H, NCH(Ph)), 5.37 (d, 1H, OCH(Ph)), 7.14–7.19, 7.23–7.29, 7.34–7.36, 7.49–7.52 (4 m, 15H, aromatic protons); [-95.5]	73
100	-	-	$CDCl_3$; 2.67–2.79 (m, 4H, NCH_2), 3.65 (s, 2H, $NCH_2C(Ph)_2$), 3.69–3.75 (m, 2H), 3.80–3.86 (m, 2H) (OCH_2), 7.17–7.32, 7.59–7.60 (2 m, 15H, aromatic protons); [-96.5]	73
101	-	-	$CDCl_3$; 2.84 (s, 2H, $SiCH_2$), 2.45–2.50 (m, 1H), 2.78–2.87 (m, 1H), 2.90–2.95 (m, 1H), 3.20–3.27 (m, 1H), 3.70–3.82 (m, 2H), 3.92–3.97 (m, 1H), 4.04–4.10 (m, 1H) [$(ABXY)_2$ system of NCH_2CH_2O protons], 4.40 (d, 1H, NCH(Ph)), 5.38 (d, 1H, OCH(Ph)), 6.98– 7.00, 7.11–7.14, 7.18–7.26, 7.31–7.34 (4 m, 10H, aromatic protons); [-79.6]	73
102	-	-	$CDCl_3$; 2.76 (s, 2H, $SiCH_2$), 2.25–2.28 (m, 1H), 2.76–2.84 (m, 1H), 2.91–2.95 (m, 1H), 3.32–3.40 (m, 1H), 3.80–3.86 (m, 1H), 3.94–4.13 (m, 3H) [$(ABXY)_2$ system of NCH_2CH_2O protons], 3.71 (d, 1H, NCH(Ph)), 5.30 (d, 1H, OCH(Ph)),	73

			7.12–7.21, 7.26–7.28, 7.35–7.37 (3 m, 10H, aromatic protons); [-81.0]	
103	-	-	$CDCl_3$; 2.67–2.78 (m, 4H, NCH_2), 2.91 (s, 2H, $SiCH_2$), 3.64 (s, 2H, $NCH_2C(Ph)_2$), 3.64–3.69 (m, 2H), 3.76–3.82 (m, 2H) (OCH_2), 7.15–7.20 (m, 2H), 7.27–7.31 (m, 4H), 7.54–7.57 (m, 4H) (aromatic protons); [-82.2]	73
104	-	-	$CDCl_3$; 2.46–2.50 (m, 1H), 2.78–2.85 (m, 1H), 2.90–2.95 (m, 1H), 3.19–3.26 (m, 1H), 3.64–3.69 (m, 1H), 3.73–3.80 (m, 1H), 3.88–3.94 (m, 1H), 4.02–4.08 (m, 1H) [$(ABXY)_2$ system of NCH_2CH_2O protons], 4.24 (s, 1H, SiH), 4.39 (d, 1H, NCH(Ph)), 5.38 (d, 1H, OCH(Ph)), 7.00–7.02, 7.12–7.25, 7.30–7.33 (3 m, 10H, aromatic protons); [-82.9]	73
105	-	-	$CDCl_3$; 2.55–2.60 (m, 1H), 2.79–2.91 (m, 2H), 2.94–2.98 (m, 1H), 3.02–3.13 (m, 2H), 3.76–3.92 (m, 4H), 4.93 (dd, 1H) [$(ABXY)_2$ and ABX systems of NCH_2CH_2O and $NCH_2CH(Ph)O$ protons], 4.07 (s, 1H, SiH), 7.25–7.42 (m, 5H, aromatic protons); [-83.4]	73
106	3.88	3.52	$CDCl_3$; -0.04 (s, 3H, CH_3Si), 0.54 (t, 2H, CH_2Si), 1.75 (m, 2H, CH_2CSi), 6.70–7.45 (m, 10H, ArH), 8.08 (s, 1H, CH=N)	74
107	4.01	3.55	$CDCl_3$; 0.01 (s, 3H, CH_3Si), 0.64 (t, 2H, CH_2Si), 1.79 (m, 2H, CH_2CSi), 6.69–7.81 (m, 9H, ArH), 8.17 (s, 1H, CH=N)	74
108	3.95	3.55	$CDCl_3$; -0.05 (s, 3H, CH_3Si), 0.56 (t, 2H, CH_2-Si), 1.75 (m, 2H, CH_2CSi), 6.57–7.98 (m, 9H, ArH), 8.53 (s, 1H, CH=N)	74
109	3.95	3.55	$CDCl_3$; -0.06 (s, 3H, CH_3Si), 0.54 (t, 2H, CH_2Si), 1.74 (m, 2H, CH_2CSi), 6.57–8.02 (m, 9H, ArH), 8.55 (s, 1H, CH=N)	74
110	3.88	3.46	$CDCl_3$; -0.01 (s, 3H, CH_3Si), 0.49 (t, 2H, CH_2Si), 1.61 (m, 2H, CH_2CSi), 6.50–7.55 (m, 9H, ArH), 8.00 (s, 1H, CH=N)	74
111	3.94	3.56	$CDCl_3$; -0.06 (s, 3H, CH_3Si), 0.51 (t, 2H, CH_2Si), 1.71 (m, 2H, CH_2CSi), 2.48 (s, 3H, CH_3S), 6.57–7.65 (m, 9H, ArH), 8.09 (s, 1H, CH=N)	74
112	3.93	3.55	$CDCl_3$; -0.03 (s, 3H, CH_3Si), 0.56 (t, 2H, CH_2Si), 1.75 (m, 2H, CH_2CSi), 3.55 (m, 9H, CH_3O), 6.59–7.98 (m, 9H, ArH), 8.65 (s, 1H, CH=N)	74
113	3.99	3.55	$CDCl_3$; -0.01 (s, 3H, CH_3Si), 0.55 (t, 2H, CH_2Si), 1.77 (m, 2H, CH_2CSi), 6.61–7.83 (m, 8H, ArH), 8.08 (s, 1H, CH=N)	74
114	4.01	3.61-3.72	$CDCl_3$; 0.03 (s, 3H, CH_3Si), 0.60 (t, 2H, CH_2Si), 1.70 (m, 2H, CH_2CSi), 3.61-3.72 (s, 12H, CH_3O, CH_2N), 6.66–7.49 (m, 8H, ArH), 8.16 (s, 1H, CH=N)	74
115	-	-	$CDCl_3$; 0.0 (s, 3H), 0.5 (t, 2H), 1.2–1.6 (m, 6H), 2.4–2.9 (m, 10H), 3.6 (t, 4H)	75
116	-	-	$CDCl_3$; 0.0 (s, 3H), 0.5 (t, 2H), 1.5–1.6 (m, 5H), 2.5–2.7 (m, 12H), 3.7 (t, 4H), 1.0 (t, 3H)	75
117	-	-	$CDCl_3$; 0.1 (s, 3H), 0.6 (t, 2H), 1.4–1.7 (m, 7H), 2.4–2.8 (m, 12H), 3.7 (t, 4H), 0.9 (t, 3H)	75
118	-	-	$CDCl_3$; 0.0 (s, 3H), 0.5 (t, 2H), 1.3–1.5 (m, 9H), 2.4–2.8 (m, 12H) 3.6 (t, 4H), 0.9 (t, 3H)	75
119	-	-	$CDCl_3$; 0.1 (s, 3H), 0.7 (t, 2H), 1.3–1.6 (m, 11H), 2.3–2.8 (m, 12H), 3.6 (t, 4H), 0.9 (t, 3H)	75
120	-	-	$CDCl_3$; 0.0 (s, 3H), 0.6 (t, 2H), 1.4–1.7 (m, 5H), 2.5–2.9 (m, 6H), 3.7 (t, 4H), 4.0 (t, 4H), 6.7–7.4 (m, 5H)	75

121	3.80	2.98	$CDCl_3$; 5.21 (1H, OH), 3.60 (2H, CH_2OH), 3.33 (2H, CH_2OSi); [-97.6]	78
122	4.05	2.65	$CDCl_3$; 1.69 (NMe); [-44.0]	79-82
124	3.92	2.93	DMSO-d_6; 7.24 (Si-Ph)	79-82
125	4.05	2.65	DMSO-d_6; 1.69 (s, 3H, NMe), 7.34, 7.65 (m, 10H, Ph); [-44.0]	82
126	3.53, 3.69	2.54, 2.87	DMSO-d_6; 0.06 (d, 3H, SiMe); [-82.1]	82
128	3.69, 3.53	2.87, 2.54	DMSO-d_6; 0.06 (SiPh); [-82.1]	79-82
129	3.61, 3.72	2.71, 2.91	DMSO-d_6; [-113.4]	82
130	3.95, 4.01	2.65, 2.74	DMSO-d_6; 1.67 (s, 3H, NMe), 7.32, 7.51 (m, 5H, Ph); [-80.3]	82
131	NR	NR	$CDCl_3$; 3.60 (dd, 3H), 3.43 (t, 3H), 3.06 (sept, 3H), 1.11 (d, 9H), -0.08 (s, 3H)	84
132	NR	NR	$CDC1_3$; 3.67 (dd, 3H), 3.48 (t, 3H), 3.12 (m, 3H), 1.18 (s, 9H)	84
133	3.76	2.82	$CDC1_3$; 0.42 (t, CH_2Si), 1.82 (q, CCH_2C), 3.44 (t, CH_2NCS)	87
134	3.76–3.98	2.63–2.76	DMSO-d_6; 4.93–4.97 (t, 1H, NH), 1.40–1.42 (m, 2H, CCH_2), 1.02 (s, 3H, CH_3), 0.87 (s, 3H, CH_3), 0.06–0.10 (t, 2H, $SiCH_2$)	88
135	3.32–3.63	2.51–2.80	DMSO-d_6; 7.31–7.39 (m, 5H, PhH), 5.32 (s, 1H, OCH), 5.21–5.27 (t, 1H, NH), 1.41–1.43 (m, 2H, CCH_2), 0.89 (s, 3H, CH_3), 0.70 (s, 3H, CH_3), 0.12–0.16 (t, 2H, $SiCH_2$)	88
136	3.29–3.60	2.52–2.79	DMSO-d_6; 7.39–7.47 (m, 4H, PhH), 5.30 (s, 1H, OCH), 5.18–5.24 (t, 1H, NH), 1.46–1.53 (m, 2H, CCH_2), 0.92 (s, 3H, CH_3), 0.73 (s, 3H, CH_3), 0.14–0.17 (t, 2H, $SiCH_2$)	88
137	3.34–3.63	2.51–2.80	DMSO-d_6; 7.20–7.21 (m, 4H, PhH), 5.26 (s, 1H, OCH), 5.20-5.23 (t, 1H, NH), 2.31 (s, 3H, $ArCH_3$), 1.45–1.54 (m, 2H, CCH_2), 0.93 (s, 3H, CH_3), 0.67 (s, 3H, CH_3), 0.12–0.16 (t, 2H, $SiCH_2$)	88
138	3.71	2.53–2.78	DMSO-d_6; 7.32–7.38 (m, 4H, PhH), 5.33 (s, 1H, OCH), 5.20–5.25 (t, 1H, NH), 3.30–3.62 (m, 8H, OCH_2), 1.48–1.56 (m, 2H, CCH_2), 0.86 (s, 3H, CH_3), 0.68 (s, 3H, CH_3), 0.11–0.15 (t, 2H, $SiCH_2$)	88
139	3.33–3.62	2.57–2.80	DMSO-d_6; 7.46–7.69 (m, 3H, PhH), 5.67 (s, 1H, OCH), 5.35–5.40 (t, 1H, NH), 1.44–1.50 (m, 2H, CCH_2), 1.00 (s, 3H, CH_3), 0.74 (s, 3H, CH_3), 0.12–0.16 (t, 2H, $SiCH_2$)	88
140	3.70–4.13	2.75–2.82	DMSO-d_6; 5.70–5.75 (t, 1H, NH), 1.43–1.46 (m, 2H, CCH_2), 1.14 (s, 3H, CH_3), 0.79 (s, 3H, CH_3), 0.07–0.11 (t, 2H, $SiCH_2$)	88
141	3.35–3.90	2.51–2.98	DMSO-d_6; 7.32–7.41 (m, 5H, PhH), 5.95–5.99 (t, 1H, NH), 5.35 (s, 1H, OCH), 1.51– 1.60 (m, 2H, CCH_2), 0.90 (s, 3H, CH_3), 0.73 (s, 3H, CH_3), 0.15–0.19 (t, 2H, $SiCH_2$)	88

142	3.36–3.85	2.52–2.93	DMSO-d_6; 7.41-7.49 (m, 4H, PhH), 5.91–5.97 (t, 1H, NH), 5.36 (s, 1H,OCH), 1.49–1.58 (m, 2H, CCH_2), 0.89 (s, 3H, CH_3), 0.72 (s, 3H, CH_3), 0.16–0.19 (t, 2H, $SiCH_2$)	88
143	3.43–3.88	2.51–2.96	DMSO-d_6; 7.17–7.22 (m, 4H, PhH), 5.91–5.96 (t, 1H, NH), 5.29 (s, 1H, OCH), 2.31 (s, 3H, $ArCH_3$),1.50–1.59 (m, 2H, CCH_2), 0.89 (s, 3H, CH_3), 0.70 (s, 3H, CH_3), 0.15–0.19 (t, 2H, $SiCH_2$)	88
144	3.32 3.67	2.54–2.90	DMSO-d_6; 7.31–7.37 (m, 4H, PhH), 5.91–5.97 (t, 1H, NH), 5.35 (s, 1H, OCH), 3.75 (s, 3H, OCH_3) 1.49–1.57 (m, 2H, CCH_2), 1.05 (s, 3H, CH_3), 0.72 (s, 3H, CH_3), 0.14–0.18 (t, 2H, $SiCH_2$)	88
145	3.33–3.94	2.51–2.94	DMSO-d_6; 7.45–7.70 (m, 3H, PhH), 6.04–6.08 (t, 1H, NH), 5.80 (s, 1H, OCH), 1.49– 1.55 (m, 2H, CCH_2), 1.48 (s, 3H, CH_3), 1.02 (s, 3H, CH_3), 0.14–0.18 (t, 2H, $SiCH_2$)	88
146	3.75	2.78	$CDCl_3$; 0.40 (t, 2H, CH_2Si), 1.60 (m, 2H, CH_2CSi), 1.79–2.60 (m, 4H, 3',4'-H of furanyl), 2.90 (m, 2H, $PNCH_2$), 3.45 (s, 1H, NH), 3.80– 4.00 (m, 4H, NCH_2CO, 5'-H of furanyl), 4.18–4.38 (m, 5H, $POCH_3$, $POCH_2$), 5.95 (d/br, 1H, 2'-H of furanyl), 7.42 (d, 1H, 6-H of uracil)	89
147	3.78	2.80	$CDCl_3$; 0.41 (t, 2H, CH_2Si), 1.30 (t, 3H, CH_3), 1.61 (m, 2H, CH_2CSi), 1.79–2.01 (m, 4H, 3',4'-H of furanyl), 2.92 (m, 2H, $PNCH_2$), 3.50 (s, 1H, NH), 3.83–4.05 (m, 4H, NCH_2CO, 5'-H of furanyl), 4.20–4.35 (m, 4H, $POCH_2C$, $POCH_2$), 5.94 (d/br, 1H, 2'H of furanyl), 7.44(d, 1H, 6-H of uracil)	89
148	3.75	2.80	$CDCl_3$; 0.35 (t, 2H, CH_2Si), 0.96 (t, 3H, CH_3), 1.32 (m, 2H, CH_2C), 1.58 (m, 2H, CH_2CSi), 1.80–1.98 (m, 4H, 3',4'-H of furanyl), 2.90 (m, 2H, $PNCH_2$), 3.48 (s, 1H, NH), 3.80–3.95 (m, 4H, NCH_2CO, 5'-H of furanyl), 4.20–4.37 (m, 4H, PO CH_2CC, $POCH_2$), 5.96 (d/br, 1H, 2'-H of furanyl), 7.50 (d, 1H, 6-H of uracil)	89
149	3.78	2.78	$CDCl_3$; 0.40 (t, 2H, CH_2Si), 1.18 (d, 6H, $2CH_3$), 1.60 (m, 2H, CH_2CSi), 1.78–2.00 (m, 4H, 3',4'-H of furanyl), 2.90 (m, 2H, $PNCH_2$), 3.50 (s, 1H, NH), 3.80–4.05 (m, 4H, NCH_2COP, 5'-H of furanyl), 4.22–4.40 (m, 3H, POCH, $POCH_2$), 6.02 (d/br, 1H, 2'-H of furanyl), 7.42 (d, 1H, 6-H of uracil)	89
150	3.75	2.80	$CDCl_3$; 0.42 (t, 2H, CH_2Si), 1.58 (m, 2H, CH_2CSi), 1.80–2.00 (m, 4H, 3',4'-H of furanyl), 2.90 (m, 2H, $PNCH_2$), 3.50 (s, 1H, NH), 3.80–4.00 (m, 4H, NCH_2COP, 5'-H of furanyl), 4.20–4.30 (m, 2H, $POCH_2$), 5.96 (d/br, 1H, 2'-H of furanyl), 7.22–7.50 (m, 6H, C_6H_5, 6-H of uracil)	89
151	3.75	2.86	$CDCl_3$; 0.38 (t, 2H, CH_2Si), 1.60 (m, 2H, CH_2CSi), 1.85– 2.10 (m, 4H, 3',4'-H of furanyl), 2.91 (m, 2H, $PNCH_2$), 3.56 (s, 1H, NH), 3.86–4.12 (m, 4H, NCH_2CO, 5'-H of furanyl), 4.21–4.28 (m, 2H, $POCH_2$), 5.93 (d/br, 1H, 2'-H of furanyl), 7.12–7.56 (m, 5H, C_6H_4, 6-H of uracil)	89
152	3.75	2.78	$CDCl_3$; 0.40 (t, 2H, CH_2Si), 1.58 (m, 2H, CH_2CSi), 1.80–2.05 (m, 4H, 3',4'-H of furanyl), 2.90 (m, 2H, $PNCH_2$), 3.50 (s, 1H, NH), 3.82–4.10 (m, 4H, NCH_2CO, 5'-H of furanyl), 4.20–4.28 (m, 2H, $POCH_2$), 6.02 (d/br, 1H, 2'-H of furanyl), 7.30–7.85 (m, 4H, C_6H_3, 6-H of uracil)	89
153	3.85	2.84	$CDCl_3$; 0.35 (t, 2H, CH_2Si), 1.50 (m, 2H, CH_2CSi), 1.82– 2.10 (m, 4H, 3',4'-H of furanyl), 2.95 (m, 2H, PN CH_2), 3.45 (s, 1H, NH), 3.80–4.15 (m, 4H, NCH_2CO, 5'-H of furanyl), 4.20–4.30 (m, 2H, $POCH_2$), 6.00 (d/br, 1H, 2'-H of furanyl), 7.35–7.88 (m, 4H, C_6H_3, 6-H of uracil)	89

154	-	-	0.4 (t, 2H, CH_2Si), 1.56 (m, 2H, CH_2CSi), 2.8 (m, 8H, NCH_2, 3×NCH_2), 3.24 (s, 6H, 2×CH_3O), 3.78~4.00 (m, 7H, NH, $SiOCH_2$)	90
155	-	-	0.4 (t, 2H, CH_2Si), 1.30 (t, 6H, 2×CH_3), 1.56 (m, 2H, CH_2CSi), 2.8 (m, 8H, $NHCH_2$, 3×NCH_2), 3.24 (q, 4H, CH_2O), 3.78~4.00 (m, 7H, NH, $SiOCH_2$)	90
156	-	-	0.42 (t, 2H, CH_2Si), 0.96 (t, 6H, 2×CH_3), 1.32–1.58 (m, 6H), 2.8 (m, 8H, NCH_2, 3×NCH_2), 3.70~4.02 (m, 11H, NH, CH_2O, $SiOCH_2$)	90
157	-	-	0.41 (t, 2H, CH_2Si). 1.18 (d, 12H, 4×CH_3), 1.56 (m, 2H, CH_2CSi), 2.8 (m, 8H, $NHCH_2$, 3×NCH_2), 3.78~4.03 (m, 9H, NH, CHO, $SiOCH_2$)	90
158	-	-	0.4 (t, 2H, CH_2Si), 0.83 (t, 6H, 2×CH_3), 1.26–1.64 (m, 10H), 2.8 (m, 8H, NCH_2, 3×NCH_2), 3.68–3.96 (m, 11H, NH, $SiOCH_2$)	90
159	-	-	0.43 (t, 2H, CH_2Si), 1.55–1.62 (m, 2H, CH_2CSi), 2.8 (m, 8H, NCH_2, 3×N CH_2), 3.68 (s, 6H, 2×CH_3O), 3.72~3.78 (m, 7H, NH, $SiOCH_2$)	90
160	-	-	0.4 (t, 2H, CH_2Si), 1.30 (t, 6H, 2×CH_3), 1.56 (m, 2H, CH_2CSi), 2.8 (m, 8H, NCH_2, 3×N CH_2), 3.24 (q, 4H, CH_2O), 3.78~4.00 (m, 7H, NH, $SiOCH_2$)	90
161	-	-	0.4 (t, 2H, CH_2Si), 1.30 (t, 6H, 2×CH_3), 1.56 (m, 2H, CH_2CSi), 2.8 (m, 8H, NCH_2, 3×N CH_2), 3.24 (q, 4H, CH_2O), 3.78~4.00 (m, 7H, NH, $SiOCH_2$)	90
162	-	-	0.4 (t, 2H, CH_2Si), 1.30 (t, 6H, 2×CH_3), 1.56 (m, 2H, CH_2CSi), 2.8 (m, 8H, NCH_2, 3×NCH_2), 3.24 (q, 4H, CH_2O), 3.78 ~ 4.00 (m, 7H, NH, $SiOCH_2$)	90
163	-	-	0.4 (t, 2H, CH_2Si), 1.30 (t, 6H, 2×CH_3), 1.56 (m, 2H, CH_2CSi), 2.8 (m, 8H, NH CH_2, 3×NCH_2), 3.24 (q, 4H, CH_2O), 3.78~4.00 (m, 7H, NH, $SiOCH_2$)	90
164	3.8	2.8	0.48 (t, 2H, $SiCH_2C$), 1.72 (m, 2H, CCH_2C), 3.1 (t, 2H, CCH_2N), 2.9 (1H, NHAr), 6.5-7.3 (m, 5H, Ar)	96
165	3.8	2.8	0.51 (t, 2H, $SiCH_2C$), 1.72 (m, 2H, CCH_2C), 3.1 (t, 2H, CCH_2N), 2.9 (1H, NHAr), 6.4-7.2 (m, 4H, Ar)	96
166	3.8	2.8	0.48 (t, 2H, $SiCH_2C$), 1.8 (m, 2H, CCH_2C), 3.1 (t, 2H, CCH_2N), 3.5 (1H, NHAr), 6.4-7.3 (m, 4H, Ar)	96
167	3.8	2.8	0.48 (t, 2H, $SiCH_2C$), 1.8 (m, 2H,C CH_2C), 3.1 (t, 2H, CCH_2N), 3.5 (1H, NHAr), 6.4-7.2 (m, 4H, Ar)	96
168	3.8	2.8	0.48 (t, 2H, $SiCH_2C$), 1.80 (m, 2H, CCH_2C), 3.2 (t, 2H, CCH_2N), 3.5 (1H, NHAr), 6.5-7.2 (m, 4H, Ar)	96
169	3.8	2.8	0.48 (t, 2H, $SiCH_2C$), 1.8 (m, 2H, CCH_2C), 3.2 (t, 2H, CCH_2N), 3.5 (1H, NHAr), 6.5-7.3 (m, 4H, Ar)	96
170	3.8	2.8	0.48 (t, 2H, $SiCH_2C$), 1.8 (m, 2H, CCH_2C), 3.1 (t, 2H, CCH_2N), 2.6 (1H, NHAr), 6.4-7.4 (m, 4H, Ar)	96

171	3.8	2.8	0.48 (t, 2H, $SiCH_2C$), 1.8 (m, 2H, CCH_2C), 3.3 (t, 2H, CCH_2N), 6.5 (1H, NHAr), 6.5-8.2 (m, 4H, Ar)	96
172	3.8	2.8	0.48 (t, 2H, $SiCH_2C$), 1.8 (m, 2H, CCH_2C), 3.3 (t, 2H, CCH_2N), 8.7 (1H, NHAr), 7.0-9.1 (m, 3H, Ar)	96
173	3.8	2.8	0.48 (t, 2H, $SiCH_2C$), 1.8 (m, 2H, CCH_2C), 3.5 (t, 2H, CCH_2N), 8.65 (1H, NHAr), 6.4-8.3 (m, 2H, Ar)	96
174	3.71	2.80	$CDCl_3$; 0.51 (t, 2H), 1.74 (t. t, 2H), 3.45 (q, 2H), 6.92 (s, 1H)	97
179	3.70	2.96	$CDCl_3$; 2.39, 2.50, (q, 2H, CH_2Si), 2.93 (s, 3H, CH_3), 7.60-7.90 (m, 5H, Ph); [-82.95], DMSO-d_6; [-84.23]	63
180	3.80	2.83	$CDCl_3$; 1.87, 2.07, (q, 4H, $2CH_2Si$); [-82.97]	63
181	3.85	2.98	CD_3OD; 1.99 (s, 2H, CH_2Si); [-77.60]	63
182	NR	NR	$CDCl_3$; [-80.34]	63
183	3.96	3.16	CD_3OD; 2.29, 2.41 (q, 2H, $SiCH_2$), 2.63 (s, 3H, CH_3Te^+), 7.57 (m, 5H, C_6H_5)	98
184	3.89	3.08	CD_3OD; 0.18 (s, 9H, Me_3Si), 2.35, 2.47 (q, 2H, CH_2Si), 2.68 (s, 3H, CH_3Te^+)	98
185	3.81	3.00	CD_3OD; 2.18 (s, 6H, $(CH_3)_2Te^+$), 1.81 (s, 2H, $SiCH_2$)	98
186	3.83	3.03	CD_3OD; 2.13 (s, 2H, $SiCH_2$), 2.65 (s, 9H, CH_3Se^+)	98
187	-	-	C_6D_6; 1.50 (s, 9H, tert-BuO), 1.92–2.02 (m, 4H), 3.51–3.56 (m, 2H), 3.63–3.68 (m, 2H) [$(ABXY)_2$ system of NCH_2CH_2O protons], 2.25 (br t, 2H), 3.07 (br t, 2H) [(AA'XX') system of $NCH_2CH_2OCH_2Si$ protons], 3.92 (s, 2H, OCH_2Si); [-73.6]	73
188	-	-	C_6D_6; 1.60 (s, 9H, tert-BuO), 1.77-1.82, 2.38-2.44, 2.612.61–2.67, 2.92–2.99, 3.17–3.23, 3.28–3.34, 3.54–3.59, 3.67–3.74 (8m, 8H, $(ABXY)_2$ system of NCH_2-CH_2O protons), 3.97–4.16 (m, 2H, AB system of OCH_2Si protons), 4.26 (d, 1H, NCH(Ph)), 5.69 (d, 1H, OCH(Ph)), 6.91–6.95, 7.03–7.06, 7.26–7.29 (3m, 10H, aromatic protons); [-73.1]	73
192	3.98	3.00	$CDCl_3$; 4.05 (s, 5H, C_5H_5), 4.40, 4.74 (s, 2H, C_5H_4), 7.35-7.38 (d, 2H, aromatic), 7.95-7.98 (d, 2H, aromatic)	100
193	3.95	2.96	$CDCl_3$; 4.08 (s, 5H, C_5H_5) 4.27, 4.41 (s, 2H each, C_5H_4), 6.04-6.12 (d, 1H, aromatic), 7.42-7.50 (d, 1H, aromatic)	100
194	3.95	3.04	$CDCl_3$; 4.18 (s, 5H, C_5H_5), 4.44, 4.78 (s, 2H, C_5H_4), 2.75, 3.00 (m, 2H, acid)	100
195	3.90	2.95	$CDCl_3$; 4.24 (s, 5H, C_5H_5), 4.24 (s, 4H, C_5H_4), 3.19 (s, 2H, acid)	100
196	3.95	2.97	$CDCl_3$; 4.07 (s, 5H, C_5H_5), {4.27 (s, 2H,) 4.47(s, 2H) C_5H_4}, {2.48 (s, 3H), 6.14(s, 1H)}	100
197	3.77	2.78	$CDCl_3$; 0.74 (d, 0.83–0.85 (m), 0.71–0.98 (m), 1.07–1.14 (m), 1.23–1.40 (m), 1.49–1.58 (m), 2.09–2.14 (m), 2.29–2.37 (m), 3.46–3.53 (m) (19H, protons of menthoxy group), (t, 6H, NCH_2), (t, 6H, OCH_2)	73
198	-	-	$CDCl_3$; 0.68 (d, 3H), 0.85 (d, 6H), 0.71–1.02 (m, 3H), 1.12–1.19 (m, 1H), 1.30–1.40 (m, 1H), 1.50–1.59 (m, 2H), 2.17–2.23 (m, 1H), 2.42–2.46 (m, 1H), 3.56–3.62 (m, 1H) (protons of menthoxy group), 2.42–2.47 (m, 1H), 2.75–2.79 (m,	73

			2H), 2.88–3.00 (m, 2H), 3.05–3.09 (m, 1H), 3.71–3.91 (m, 4H), 4.91 (dd, 1H) [$(ABXY)_2$ and ABX systems of NCH_2CH_2O and $NCH_2CH(Ph)O$ protons], 7.23–7.27, 7.30–7.36 (2 m, 5H, aromatic protons); [-94.6]	
199	3.87	2.89	$CDCl_3$; 4.91 (s, Py-CH_2O), { 8.44 (H-6), 7.61 (H-4), 6.93-7.22 (H-3, H-5) m, pyridine ring}	101
200	3.84	2.89	$CDCl_3$; 4.78 (s, Py-CH_2O), { 8.51 (H-2), 8.33 (H-6), 7.71 (H-4), 7.13 (H-5) m, pyridine ring}	101
201	3.91	2.88	$CDCl_3$; 4.80 (s, Py-CH_2O), { 8.44 (H-2, H-6), 7.33 (H-3, H-5) m, pyridine ring}	101
202	3.87	2.87	$CDCl_3$; 4.89 (s, Py-CH_2O), {6.71 (H-4), 6.71-7.56 (H-3, H-5) m, pyridine ring}	101
203	3.81	2.81	$CDCl_3$; 6.77 (d, 1H, =CH(1)), 5.85 (d, 1H, =CH(2)), 4.31, 4.09 (2s, 2H each, Fc), 4.06 (s, 5H, unsubst. cp)	102
204	3.85	3.62	$CDCl_3$; -10.52 (m, 1H, OsH), 10.55 (s/br, 1H, NH), 6.97–7.33 (m, 30H, PPh_3); [-3.40]	103
205	3.57	3.79	$CDCl_3$; -10.62 (m, 3H, OsH), 3.42 (s, 3H, CH_3), 6.97–7.33 (m, 30H, PPh_3); [-3.50]	103
206	3.30	2.63	$CDCl_3$; 7.34-7.66 (m, 30H, PPh_3); [-65.00]	104
207	3.92	2.96	$CDCl_3$; 7.49 (d, 2H), 7.84 (d, 2H)	105
208	3.92	2.95	$CDCl_3$; 1.37 (t, 3H), 4.34 (q, 2H), 7.80 (d, 2H), 7.93 (d, 2H)	105
209	3.93	2.96	$CDCl_3$; 2.56 (s, 3H), 7.83 (d, 2H), 7.85 (d, 2H)	105
210	3.90	2.93	$CDCl_3$; 7.38 (d, 2H), 7.59 (d, 2H)	105
211	3.88	2.89	$CDCl_3$; 6.34 (d, 1H), 7.12 (d, 1H), 7.1-7.5 (m, 5H)	105
213	3.1-3.5	2.5-2.9	$CDCl_3$; -9.64 (dd, 0.1H, OsH (isomer C), -7.63 (t, 0.45H, OsH (isomer A), -7.12 (t [overlapping dd], 0.45H, OsH (isomer B), 7.10–7.71 (m, 30H, PPh_3); [-39.10]	103
214	3.48	2.84	$CDCl_3$; -11.19 (m, 3H, OsH), 6.95–7.36 (m, 30H, PPh_3); [-15.22]	103
215	3.75	3.45	$CDCl_3$; 3.30 (s, 3H, CH_3), 7.39-7.58 (m, 30H, PPh_3); [-49.44]	104
216	3.49	2.71	$CDCl_3$; 7.18-7.68 (m, 30H, PPh_3); [-87.41]	104
221	3.85	2.85	$CDCl_3$; 5.91, 5.76 (2d, 1H each, $=CH_2$), 4.47 (t, 2H, Fc-α), 4.11 (t, 2H, Fc-β), 4.09 (s, 5H, unsubst. cp)	102
222	3.35	1.80	C_6D_6; 1.61 (s, 3H, Me), 4.18, 4.95, 5.00 (3s, 1H each, cp)	102
223	3.88	2.92	$CDCl_3$; 6.58, 7.15 (2d, 1H each, =CH), 7.54, 8.11 (2d, 2H each, aromatic)	102
224	3.77	2.81	$CDCl_3$; 2.28−2.40 (m, 1H, H−7), 2.44−2.59 (m, 2H, H−4, 7), 2.66 (d. d, 1H, H−4), 2.87−3.19 (m, 2H, H−3a, 7a), 6.43	59

			(t, 1H, H−6), 7.29 (d, 2H, H−11), 7.33 (t, 1H, H−13), 7.41 (t, 2H, H−12)	
225	3.32	1.83	C_6D_6; 0.78 (s, 3H, H−10), 1.55 (ddd, 1H, H−4), 2.21−2.34 (m, 2H, H−7,7a), 2.44 (dd, 1H, H−4), 3.20 (d, 1H, H−7), 6.63 − 6.82 (m, 1H, H−5)	59
225	3.30	1.81	C_6D_6; 0.97 (s, 3H, H−10), 1.72−1.79 (m, 1H, H−7), 2.03 (dt, 1H, H−4), 2.15 (d.d, 1H, H−7a), 2.53 (ddd, 1H, H−7), 3.08 (d, 1H, H−4)	59
226	3.80	2.82	$CDCl_3$; 1.23 (t, 4H), 1.66-1.54 (m, 1H), 2.00-1.91 (m, 1H), 2.20-2.10 (m, 1H), 2.36-2.23 (m, 3H), 2.52-2.44 (m, 1H), 4.10 (q, 2H), 6.24 (m, 1H)	60
227	3.74	2.78	-	60
229	3.87	2.92	$CDCl_3$; 0.12 (s, 9H, $Si(CH_3)_3$); [-16.7, $Si(CH_3)_3$, -96.4 ($Si(OCH_2CH_2)_3N$)]	66
230	3.85	2.89	$CDCl_3$; 7.30-7.67, (m, 15H, C_6H_5); [-28.8 ($Si(C_6H_5)_3$), -96.9 ($Si(OCH_2CH_2)_3N$)]	66
231	-	-	$CDCl_3$; 7.45 (d, 3H, Ar), 6.8 (m, 6H, Ar), 2.5 (t, 6H, $ArCH_2$), 1.6-1.2 (m, 64H, C_2H_4+C_6H_{12}+$C_{10}H_{20}$+$C_{14}H_{28}$), 0.8 (m, 14H, 4 × CH_3 + $SiCH_2$)	113
232	-	-	$CDCl_3$; 0.00 (s, 6H), 0.04(s, 6H), 0.44 (t, 2H), 0.58 (s, 3H), 0.74-1.95 (m, 60H), 2.34 (d, 2H), 3.85 (t, 2H), 4.69 (m, 1H), 5.30 (d, 1H), 6.77 (d, 2H), 6.80 (m, 3H), 6.88 (m, 3H), 7.00 (m, 3H), 7.62 (dd, 3H), 7.87 (d, 2H); [-57.67, -20.64, 7.92, 9.08 (DEPT)]	114
233	-	-	$CDCl_3$; 0.01 (s, 6H), 0.05 (s, 6H), 0.47 (t, 2H), 0.60 (s, 3H), 0.76-1.95 (m, 60H), 2.38 (d, 2H), 3.87 (t, 2H), 4.74 (m, 1H), 5.33 (d, 1H), 6.81-6.92 (m, 8H), 7.00 (m, 3H), 7.45 (d, 2H), 7.51 (d, 2H), 7.64 (dd, 3H), 7.97 (d, 2H); [-57.67, -20.63, 7.95, 9.08 (DEPT)]	114
234	-	-	$CDCl_3$; 6.18 (m 3H), 7.09 (dd, 3H), 7.23 (d, 3H), 7.51 (d, 3H); [-71.25]	115
235	-	-	$CDCl_3$; 6.06 (m, 3H), 7.19 (dd, 3H), 7.27 (d, 3H), 7.32(d, 3H); [-71.75]	115
236	-	3.40	$CDCl_3$; 0.70 (s, 3H, SiMe), 2.20 (s, 9H, arylMe), 2.21 (s, 9H, arylMe), 6.71 (s, 3H, aryl), 6.86 (s, 3H, aryl); CD_2Cl_2: 290 K; 0.70 (s, 3H, SiMe), 2.21 (s, 18H, arylMe), 3.38 (s, 6H, NCH_2), 6.75 (s, 3H, aryl), 6.90 (s, 3H, aryl); CD_2Cl_2: 190 K; 0.72 (s, 3H, SiMe), 2.21 (s, 9H, arylMe), 2.23 (s, 9H, arylMe), 2.83 (d, 3H, NCH_2), 3.89 (d, 3H, NCH_2), 6.81 (s, 3H, aryl), 6.95 (s, 3H, aryl); [-74.5]	116
237	-	3.50	$CDCl_3$; 2.21 (s 9H, arylMe), 2.30 (s, 9H, arylMe), 3.89 (s, 3H, OMe), 6.65 (s, 3H, aryl), 6.88 (s, 3H, aryl); CD_2Cl_2: 293 K; 2.21 (s, 9H, arylMe), 2.28 (s, 9H, arylMe), 3.46 (s, 6H, NCH_2), 3.86 (s, 3H, OMe), 6.71 (s, 3H, aryl), 6.92 (s, 3H, aryl); CD_2Cl_2: 183 K) 2.23 (s, 18H, arylMe), 3.07 (d, 3H, NCH_2), 3.75 (s, 3H, OMe), 4.31 (d, 3H, NCH_2), 6.70 (s, 3H, aryl), 6.97 (s, 3H, aryl); [-119.0]	116
238	-	3.61	$CDCl_3$; 2.10 (s, 9H, arylMe), 2.21 (s, 9H, arylMe), 6.67 (s, 3H, aryl), 6.87 (s, 3H, aryl), 7.37 (m, 3H, SiPh), 8.11 (m, 2H, SiPh); CD_2Cl_2: 293 K; 2.09 (s, 9H, arylMe), 2.21 (s, 9H, arylMe), 3.60 (s, 6H, NCH_2), 6.70 (s, 3H, aryl), 6.89 (s, 3H, aryl), 7.35 (m, 3H, SiPh), 8.11 (m, 2H, SiPh); CD_2Cl_2: 183 K) 2.12 (s, 9H, arylMe), 2.24 (s, 9H, arylMe), 3.10 (d, 3H,	117

			NCH_2), 4.40 (d, 3H, NCH_2), 6.73 (s, 3H, aryl), 6.95 (s, 3H, aryl), 7.36 (m, 3H, SiPh), 8.12 (d, 2H, SiPh); [-110.7]	
239	-	3.14	$CDCl_3$; 2.23 (s, 9H, arylMe), 2.32 (s, 9H, arylMe), 4.53 (d, 3H, NCH_2), 6.62 (s, 3H, aryl), 6.96 (s, 3H, aryl); $C_6D_5CD_3$: 290 K; 2.13 (s, 9H, arylMe), 2.29 (d, 3H, NCH_2), 2.50 (s, 9H, arylMe), 4.10 (d, 3H, NCH_2), 6.14 (s, 3H, aryl), 6.75 (s, 3H, aryl); $C_6D_5CD_3$: 363 K; 2.12 (s, 9H, arylMe), 2.46 (s, 9H, arylMe), 2.50 (s/br, 3H, NCH_2), 4.20 (s/br, 3H, NCH_2), 6.24 (s, 3H, aryl), 6.81 (s, 3H, aryl); [-140.8]	117
240	-	3.71	$CDCl_3$; 2.06 (s, 9H, arylMe), 2.22 (s, 9H, arylMe), 6.62 (s, 3H, aryl), 6.91 (s, 3H, aryl), 7.04 (d, 2H, aryl), 7.28 (d, 2H, aryl); CD_2Cl_2: 288 K; 2.04 (s, 9H, arylMe), 2.22 (s, 9H, arylMe), 3.73 (s, 6H, NCH_2), 6.66 (s, 3H, aryl), 6.92 (s, 3H, aryl), 7.02 (d, 2H, aryl), 7.29 (d, 2H, aryl); CD_2Cl_2: 190 K; 1.97 (s, 9H, arylMe), 2.16 (s, 9H, arylMe), 3.13 (d, 3H, NCH_2), 4.41 (d, 3H, NCH_2), 6.64 (s, 3H, aryl), 6.89 (s, 3H, aryl), 6.97 (d, 2H, aryl), 7.25 (d, 2H, aryl); [-142.5]	117
241	-	3.63	$CDCl_3$; 2.21 (s, 9H, arylMe), 2.26 (s, 9H, arylMe), 3.15 (s, 2H, CH_2Cl), 6.61 (s, 3H, aryl), 6.91 (s, 3H, aryl); CD_2Cl_2: 290 K; 2.21 (s, 9H, arylMe), 2.24 (s, 9H, arylMe), 3.14 (s, 2H, CH_2Cl), 3.63 (s/br, 6H, NCH_2), 6.65 (s, 3H, aryl), 6.92 (s, 3H, aryl); CD_2Cl_2: 205 K; 2.23 (s, 18H, arylMe), 3.08 (d, 3H,NCH_2), 3.12 (s, 2H, CH_2Cl), 4.32 (d, 3H, NCH_2), 6.68 (s, 3H, aryl), 6.95 (s, 3H, aryl); [-123.8]	117
242	-	3.61	$CDCl_3$; 1.29 (s, 9H, t-Bu), 2.04 (s, 9H, arylMe), 2.21 (s, 9H, arylMe), 6.64 (s, 3H, aryl), 6.87 (s, 3H, aryl), 7.11 (d, 2H, aryl), 7.22 (d, 2H, aryl); CD_2Cl_2: 290 K; 1.30 (s, 9H, t-Bu), 2.02 (s, 9H, arylMe), 2.21 (s, 9H, arylMe), 3.64 (s, 6H, NCH_2), 6.67 (s, 3H, aryl), 6.89 (s, 3H, aryl), 7.07 (d, 2H, aryl), 7.23 (d, 2H, aryl); CD_2Cl_2: 210 K; 1.30 (s, 9H, t-Bu), 1.99 (s, 9H, arylMe), 2.22 (s, 9H, arylMe), 3.18 (d, 3H, NCH_2), 4.46 (d, 3H, NCH_2), 6.69 (s, 3H, aryl), 6.91 (s, 3H, aryl), 7.17 (m, 4H, aryl); [-136.0]	117
243	-	3.43	$CDCl_3$; 2.20 (s, 9H, arylMe), 2.23 (s, 9H, arylMe), 6.09-6.57 (m, 3H, vinyl), 6.70 (s, 3H, aryl), 6.85 (s, 3H, aryl); CD_2Cl_2: 290 K; 2.21 (s, 9H, arylMe), 2.22 (s, 9H, arylMe), 3.40 (s, 6H, NCH_2), 6.1-6.6 (m, 3H, vinyl), 6.73 (s, 3H, aryl), 6.89 (s, 3H, aryl); CD_2Cl_2: 185 K; 2.21 (s, 18H, arylMe), 2.76 (d, 3H, NCH_2), 3.95 (d, 3H, NCH_2), 6.1-6.6 (m, 3H, vinyl), 6.74 (s, 3H, aryl), 6.89 (s, 3H, aryl); [-97.2]	117
244	-	3.43	$CDCl_3$; 2.20 (s, 9H, arylMe), 2.23 (s, 9H, arylMe), 6.09-6.57 (m, 3H, vinyl), 6.69 (s, 3H, aryl), 6.86 (s, 3H, aryl); [-97.2]	117
245	-	3.48	$CDCl_3$; 2.00 (s, 9H, arylMe), 2.19 (s, 9H, arylMe), 2.71 (s, 2H, CH_2Ph), 6.64 (s, 3H, aryl), 6.83 (s, 3H, aryl), 7.08 (m, 1H, Ph), 7.21 (t, 2H, Ph), 7.53 (d, 2H, Ph); CD_2Cl_2: 290 K; 2.02 (s, 9H, arylMe), 2.20 (s, 9H, arylMe), 2.71 (s, 2H, CH_2Ph), 3.48 (s, 6H, NCH_2), 6.68 (s, 3H, aryl), 6.86 (s, 3H, aryl), 7.08 (m, 1H, Ph), 7.22 (t, 2H, Ph), 7.53 (d, 2H, Ph); CD_2Cl_2: 180 K; 1.95 (s, 9H, arylMe), 2.12 (s, 9H, arylMe), 2.43 (s/br, 1H, CH_2Ph), 2.58 (s/br, 1H, CH_2Ph), 2.83 (br, 3H, NCH_2), 4.07 (d, 3H, NCH_2), 6.60 (s, 3H, aryl), 6.82 (s, 3H, aryl), 7.00 (m, 1H, Ph), 7.15 (t, 2H, Ph), 7.45 (d, 2H, Ph); [-101.3]	117
246	-	3.48	$CDCl_3$; 1.56 (m, 2H, $SiCH_2$), 2.21 (s, 9H, arylMe), 2.29 (s, 9H, arylMe), 3.32 (m, 2H, CH_2Py), 6.68 (s, 3H, aryl), 6.87 (s, 3H, aryl), 7.12 (m, 1H, Py), 7.27 (d, 1H, Py), 7.63 (td, 1H, Py), 8.59 (m, 1H, Py); CD_2Cl_2: 290 K; 1.54 (m, 2H, $SiCH_2$), 2.21 (s, 9H, arylMe), 2.29 (s, 9H, arylMe), 3.30 (m, 2H, CH_2Py), 3.47 (s, 6H, NCH_2), 6.73 (s, 3H, aryl), 6.90 (s, 3H, aryl), 7.12 (m, 1H, Py), 7.28 (d, 1H, Py), 7.62 (m, 1H, Py), 8.53 (m, 1H, Py) ; CD_2Cl_2: 180 K; 1.30 (br, 2H, $SiCH_2$), 2.14 (s/br, 18H, arylMe), 2.82 (br, 3H, NCH_2), 3.15 (br, 2H, CH_2Py), 4.02 (br, 3H, NCH_2), 6.62 (s, 3H, aryl), 6.84 (s, 3H, aryl), 7.13 (m, 1H, Py), 7.27 (br, 1H, Py), 7.66 (br, 1H, Py), 8.49 (br, 1H, Py); [-91.3]	117

247	-	2.94	$CDCl_3$; 1.41 (s, 27H, t-butyl), 2.26 (s, 9H, arylMe), 3.21 (s, 2H,CH_2Cl), 4.37 (d, 3H, NCH_2), 6.62 (s, 3H, aryl), 7.08(s, 2H, aryl); $C_6D_5CD_3$: 300 K; 1.53 (s, 27H, t-butyl), 2.20 (s, 9H, arylMe), 2.36 (d, 3H, NCH_2), 3.58 (s, 2H, CH_2Cl), 4.27 (d, 3H, NCH_2), 6.26 (s, 3H, aryl), 7.09 (s, 2H, aryl); $C_6D_5CD_3$: 370 K; 1.53 (s, 27H, t-butyl), 2.18 (s, 9H, arylMe), 2.5 (br, 3H, NCH_2), 3.52 (s, 2H, CH_2Cl), 4.3 (br, 3H, NCH_2), 6.33 (s, 3H, aryl), 7.12 (s, 2H, aryl); [-132.5]	118
248	-	3.01	$CDCl_3$; 1.45 (s, 27H, t-butyl), 2.25 (s, 9H, arylMe), 4.36 (d, NCH_2), 6.65 (s, 3H, aryl), 7.10 (s, 3H, aryl); $C_6D_5CD_3$: 293 K; 1.62 (s, 27H, t-butyl), 2.20 (s, 9H, arylMe), 2.31 (d, 3H, NCH_2), 4.16 (d, NCH_2), 6.26 (s, 3H, aryl), 7.11 (s, 3H, aryl); $C_6D_5CD_3$: 370 K; 1.59 (s, 27H, t-butyl), 2.19 (s, 9H, arylMe), 2.5 (br, 3H, NCH_2), 4.2 (br, NCH_2), 6.34 (s, 3H, aryl), 7.12 (s, 3H, aryl)	118
249	-	2.87	$CDCl_3$; 1.42 (s, 27H, t-butyl), 2.26 (s, 9H, arylMe), 4.27 (d, NCH_2), 6.65 (s, 3H, aryl), 7.06 (s, 3H, aryl) ; $C_6D_5CD_3$: 295 K; 1.56 (s, 27H, t-butyl), 2.21 (s, 9H, arylMe), 2.35 (br, 3H, NCH_2), 4.15 (br, NCH_2), 6.37 (s, 3H, aryl), 7.09 (s, 3H, aryl); $C_6D_5CD_3$: 370 K; 1.54 (s, 27H, t-butyl), 2.20 (s, 9H, arylMe), 3.35 (br, 6H, NCH_2), 6.44 (s, 3H, aryl), 7.11 (s, 3H, aryl); [-141.8]	118
250	-	2.98	$CDCl_3$; 1.24 (s, 27H, t-butyl), 2.26 (s, 9H, arylMe), 4.51 (d, NCH_2), 6.64 (s, 3H, aryl), 7.08 (s, 3H, aryl), 7.26 (m, 3H, SiPh), 8.15 (m, 2H, SiPh) ; $C_6D_5CD_3$: 303 K; 1.38 (s, 27H, t-butyl), 2.21 (s, 9H, arylMe), 2.46 (d, 3H, NCH_2), 4.47 (d, NCH_2), 6.31 (s, 3H, aryl), 7.12 (s, 3H, aryl), 7.33 (m, 1H, SiPh), 7.48 (m, 2H, SiPh), 8.49 (dd, 8.2, 2H, SiPh); $C_6D_5CD_3$: 373 K; 1.36 (s, 27H, t-butyl), 2.19 (s, 9H, arylMe), 3.6 (br, 6H, NCH_2), 6.38 (s, 3H, aryl), 7.12 (s, 3H, aryl), 7.28 (m, 1H, SiPh), 7.41 (m, 2H, SiPh), 8.42 (d, 2H, SiPh); [-133.1]	118
251	-	2.85	$CDCl_3$; 0.54 (s, 3H, SiMe), 1.38 (s, 27H, t-butyl), 2.25 (s, 9H, arylMe), 4.27 (d, NCH_2), 6.63 (s, 3H, aryl), 7.05 (s, 3H, aryl); $C_6D_5CD_3$: 293 K; 1.02 (s, 3H, SiMe), 1.51 (s, 27H, t-butyl), 2.21 (s, 9H, arylMe), 2.36 (d, 3H, NCH_2), 4.23 (d, NCH_2), 6.34 (s, 3H, aryl), 7.10 (s, 3H, aryl) ; $C_6D_5CD_3$: 373 K; 0.94 (s, 3H, SiMe), 1.50 (s, 27H, t-butyl), 2.20 (s, 9H, arylMe), 2.6 (br, 3H, NCH_2), 4.2 (br, 3H, NCH_2), 6.41 (s, 3H, aryl), 7.10 (s, 3H, aryl); [-119.8]	118
252	-	3.04	$CDCl_3$; 1.45 (s, 27H, t-butyl), 2.26 (s, 9H, arylMe), 4.61 (d, NCH_2), 6.61 (s, 3H, aryl), 7.15 (s, 3H, aryl); [-142.3]	118
253	-	4.20	$CDCl_3$; 2.2 (s, 9H, arylMe), 6.9 (s, 3H, arylH), 6.9 (s, 3H, arylH); [−149.3] (t, $^1J_{Si\text{-}N}$ =33.4 Hz)	119

Table S4 ^{13}C NMR data of reported silatranes

Silatrane	Solvent, ^{13}C	Ref
	Solvent; δ (ppm), J (Hz)	
1	$CDCl_3$; 45.35 (NCH_2C), 29.54 (CCH_2C), 13.15 ($SiCH_2$), 20.26, 20.38, 20.57, 23.12 (CH_3), 58.73, 63.18, 64.90, 65.29 (NCH_2), 61.50, 64.76, 65.03, 66.54 (OCH)	29
2	$CDCl_3$; 46.89 (NCH_2C), 24.65 (CCH_2C), 13.40 ($SiCH_2$), 50.94 (NCH_2), 57.63 (OCH_2), 112.57, 116.27, 129.14, 148.96 (Ph)	29
3	$CDCl_3$; 52.0 (NCH_2C), 30.80 (CCH_2C), 22.25 ($SiCH_2$), 50.92 (NCH_2), 57.59 (OCH_2), 65.09 (NCH_2N), 10.72, 13.36 (CH_3), 105.35 (C-4), 139.71 (C-3), 146.82 (C-5) pyrazolyl moiety	29
4	$CDCl_3$; 52.31 (NCH_2C), 22.31 (CCH_2C), 13.68 ($SiCH_2$), 20.24, 20.44, 20.66, 23.10 (CH_3), 58.67, 62.77, 63.67, 65.16 (NCH_2), 61.86, 63.33, 64.75, 66.32 (OCH), 64.92 (NCH_2N), 10.91, 13.45 (CH_3), 105.45 (C-4), 139.89 (C-3), 147.11 (C-5) pyrazolyl moiety	29
5	$CDCl_3$; 47.88 (NCH_2C), 21.98 (CCH_2C), 13.00 ($SiCH_2$), 50.91 (NCH_2), 57.52 (OCH_2), 112.51, 116.75, 127.03, 148.20 (Ph), 64.98 (NCH_2N), 10.69, 13.21 (CH_3), 105.25 (C-4), 139.70 (C-3), 146.78 (C-5) pyrazolyl moiety	29
6	$CDCl_3$; 42.80 (NCH_2C), 25.31 (CCH_2C), 13.61 ($SiCH_2$), 20.30, 20.40, 20.71, 23.12 (CH_3), 58.81, 61.77, 64.63, 65.11 (NCH_2), 61.58, 63.24, 64.96, 66.72 (OCH)	29
7	$CDCl_3$; 47.5 (NCH_2C), 31.83 (CCH_2C), 20.42 ($SiCH_2$), 50.83 (NCH_2), 57.19 (OCH_2), 65.29 (NCH_2N), 10.64, 13.33 (CH_3), 105.45 (C-4), 139.46 (C-3), 147.09 (C-5) pyrazolyl moiety	29
8	$CDCl_3$; 52.25 (NCH_2C), 27.76 (CCH_2C), 12.03 ($SiCH_2$), 20.10, 20.24, 20.55, 23.14 (CH_3), 58.58, 61.39, 63.03, 64.59 (NCH_2), 60.89, 62.85, 63.87, 65.74 (OCH), 69.02 (NCH_2N), 10.96, 13.31 (CH_3), 105.46 (C-4), 140.05 (C-3), 147.38 (C-5) pyrazolyl moiety	29
9	$CDCl_3$; 12.30 ($SiCH_2$), 23.22 (CCH_2C), 45.40 (NCH_2C), 50.91 (NCH_2), 58.12 (OCH_2), 65.22 (NCH_2N), 112.11, 116.21, 129.13, 148.32 (Ph), 13.45, 105.71, 140.10, 147.22 (heterocycle)	30
10	$CDCl_3$; 18.24 ($SiCH_2$), 28.00 (CCH_2C), 53.31 (NCH_2C), 51.20 (NCH_2), 58.36 (OCH_2), 64.40 (NCH_2N), 109.80, 120.02, 124.13, 127.79, 133.0, 146.1 (heterocycle)	30
11	$CDCl_3$; 11.10 ($SiCH_2$), 22.0 (CCH_2C), 48.10 (NCH_2C), 51.18 (NCH_2), 58.12 (OCH_2), 64.20 (NCH_2N), 122.51, 136.53 (heterocycle)	30
12	$CDCl_3$; 12.31 ($SiCH_2$), 21.71 (CCH_2C), 53.10 (NCH_2C), 50.97 (NCH_2), 57.91 (OCH_2), 65.32 (NCH_2N), 112.10, 116.37, 129.27, 148.11 (Ph), 13.33, 105.55, 140.17, 147.11 (heterocycle)	30
13	$CDCl_3$; 12.87 ($SiCH_2$), 22.27 (CCH_2C), 53.12 (NCH_2C), 50.56 (NCH_2), 57.27 (OCH_2), 65.04 (NCH_2N), 113.19, 115.90, 128.87, 148.10 (Ph), 110.10, 119.15, 123.22, 127.05, 132.33, 145.72 (heterocycle)	30
14	$CDCl_3$; 13.10 ($SiCH_2$), 23.10 (CCH_2C), 48.90 (NCH_2C), 50.71 (NCH_2), 57.87 (OCH_2), 65.47 (NCH_2N), 112.19, 116.81, 128.77, 148.55 (Ph),	30

	122.72, 137.10 (heterocycle)	
15	$CDCl_3$; 68.5 (OCH), 57.6 (OCH_2), 56.0, 51.8, 51.3 (NCH_2), 27.6 ($OC\underline{C}H_2$), 9.6 (CH_3), 12.9 ($SiCH_2$), 29.5 ($C\underline{C}H_2C$), 45.3 (CH_2N)	31
16	$CDCl_3$; 69.5 (OCH), 57.3 (OCH_2), 55.5, 52.3, 51.7 (NCH_2), 27.4 ($OC\underline{C}H_2$), 9.9 (CH_3), 10.6 ($SiCH_2$), 23.4 ($C\underline{C}H_2C$), 41.4 (CH_2N)	31
17	$CDCl_3$; 67.4 (OCH), 56.5 (OCH_2), 54.9, 52.1, 51.5 (NCH_2), 26.8 ($OC\underline{C}H_2$), 9.0 (CH_3), 12.6 ($SiCH_2$), 24.2 ($C\underline{C}H_2C$), 40.7 (CH_2N)	31
18	$CDCl_3$; 68.5 (OCH), 57.5 (OCH_2), 55.8, 51.7, 51.2 (NCH_2), 28.3 ($OC\underline{C}H_2$), 9.9 (CH_3), 15.0 ($SiCH_2$), 30.0 ($C\underline{C}H_2C$)	31
19	$CDCl_3$; 68.4 (OCH), 57.3 (OCH_2), 56.0, 51.8, 51.2 (NCH_2), 27.9 ($OC\underline{C}H_2$), 9.6 (CH_3)	31
20	$CDCl_3$; 68.3 (OCH), 57.5 (OCH_2), 55.9, 52.1, 51.3 (NCH_2), 26.9 ($OC\underline{C}H_2$), 9.7 (CH_3), 12.9 ($SiCH_2$), 25.2 ($C\underline{C}H_2C$), 43.2 (CH_2N)	31
21	$CDCl_3$; 67.5 (OCH), 57.5 (OCH_2), 55.8, 51.8, 51.2 (NCH_2), 27.1 ($OC\underline{C}H_2$), 9.5 (CH_3), 12.6 ($SiCH_2$), 24.1($C\underline{C}H_2C$)	31
22	$CDCl_3$; 68.5 (OCH), 57.5 (OCH_2), 56.0, 51.8, 51.3 (NCH_2), 27.8 ($OC\underline{C}H_2$), 9.6 (CH_3), 13.1 ($SiCH_2$), 24.2 ($C\underline{C}H_2C$), 48.0 (CH_2-N)	31
23	$CDCl_3$; 68.5 (OCH), 57.6 (OCH_2), 56.0, 51.9, 51.4 (NCH_2), 27.8 ($OC\underline{C}H_2$), 9.7 (CH_3), 13.0 ($SiCH_2$), 23.4 ($C\underline{C}H_2C$), 45.7 (CH_2-N)	31
25	$CDCl_3$; 11.60 ($SiCH_2$), 23.70 (CH_3), 24.30 ($C\underline{C}H_2C$), 44.3 (CH_2N), 51.0 (NCH_2), 57.70 (OCH_2), 171.30 (C=O)	32
26	$CDCl_3$; 12.30 ($SiCH_2$), 20.09, 20.21, 20.45, 23.01 (CH_3-atrane), 23.20 (CH_3), 25.10 ($C\underline{C}H_2C$), 42.70 (CH_2N), 58.53, 61.33, 62.65, 63.75, 64.48, 64.73, 65.38, 66.58 (OCH, NCH_2), 170.60 (C=O)	32
28	$CDCl_3$; 12.97 ($SiCH_2$), 20.01, 20.12, 20.37, 22.90 (CH_3), 24.94 ($C\underline{C}H_2C$), 43.06 (CH_2N), 58.43, 61.24, 62.95, 63.87, 64.50, 64.63, 65.14, 66.33 (OCH, NCH_2), 158.57 (C=O)	32
29	$CDCl_3$; 12.80 ($SiCH_2$), 25.0 ($C\underline{C}H_2C$), 26.32, 31.27, 35.41, 52.01, 52.81, 53.33 (epoxycyclo-hexane ring), 51.20, (NCH_2), 57.90 (OCH_2)	32
30	$CDCl_3$; 13.10 ($SiCH_2$), 20.01, 20.11, 20.44, 22.83 (CH_3), 24.01 ($C\underline{C}H_2C$), 25.34, 31.74, 35.44, 51.81, 52.56, 53.10 (epoxycyclohexane ring), 58.61, 61.37, 61.57, 63.08, 64.67, 64.89, 66.57, 67.04 (OCH, NCH_2)	32
31	$CDCl_3$; 11.70 ($SiCH_2$), 25.20 ($C\underline{C}H_2C$), 41.70 (CH_2N), 51.30 (NCH_2) 57.70 (OCH_2), 50.20 (C-5), 54.70 (C-4), 157.30(C-2) imidazoline ring	32
32	$CDCl_3$; 13.10 ($SiCH_2$), 20.01, 20.11, 20.44, 22.83 (CH_3), 24.01 ($C\underline{C}H_2C$), 43.06 (CH_2N), 51.30 (C-5), 55.10 (C-4), 156.10(C-2) imidazoline ring, 58.52, 61.27, 61.37, 63.08, 64.12, 64.43, 66.17, 66.84 (OCH, NCH_2)	32
33	$CDCl_3$; 13.90 ($SiCH_2$), 24.90 ($C\underline{C}H_2C$), 44.25 (CH_2N), 51.20 (NCH_2), 57.80 (OCH_2), 148.71 (C=O)	32
34	$CDCl_3$; 14.21 ($SiCH_2$), 20.71, 20.95, 21.21, 23.41 (CH_3), 24.51 ($C\underline{C}H_2C$), 46.31 (CH_2N), 59.08, 61.83, 62.52, 63.73, 65.44, 65.59, 66.30, 67.39 (OCH, NCH_2), 149.33 (C=O)	32
35	$CDCl_3$; 40.97, 48.46, 48.89, 52.11, 52.50 (NH_2CH_2, $NHCH_2$), 28.11 ($\underline{C}H_2C$), 11.64 ($SiCH_2$), 51.40 (NCH_2), 58.41 (OCH_2)	33

36	$CDCl_3$; 41.54, 48.93, 49.22, 52.30, 52.82 (NH_2CH_2, $NHCH_2$), 25.02 ($\underline{C}H_2C$), 13.43 ($SiCH_2$), 58.72, 63.27, 65.15, 66.11, (NCH_2), 61.49, 64.75, 65.60, 67.30, (OCH), 20.13, 20.31, 20.54, 22.98 (CH_3)	33
37	$CDCl_3$; 40.69, 48.12, 48.34, 50.24, 50.75 (NH_2CH_2, $NHCH_2$), 24.23 ($\underline{C}H_2C$), 12.59 ($SiCH_2$), 51.45, 52.08, 54.88, (NCH_2), 67.39 (OCH), 56.48 (OCH_2), 26.80 ($\underline{C}H_2CH_3$), 9.0 (CH_2 $\underline{C}H_3$)	33
40	$CDCl_3$; 15.6 (s, $SiCH_2$); 28.0 (s, CH_2) ; 30.1 (s, SCH_2) ; 50.5 (s, NCH_2) ; 57.2 (s, OCH_2)	35
43	$CDCl_3$; 50.97 (NCH_2), 57.20 (OCH_2), 98.67 (C^3), 110.39 (C^7), 118.05 (C^6), 120.09 (C^4), 120.14 (C^5), 128.01 (C^9), 130.13 (C^2), 137.65 (C^8), 34.69 (CH_2)	40,41
44	$CDCl_3$; 40.65 (CH_2), 51.23 (NCH_2), 57.31 (OCH_2), 106.03 (C^3, C^4), 122.50 (C^2, C^5), 36.27 (CH_2)	40,42
45	$CDCl_3$; 51.24 (NCH_2), 57.24 (OCH_2), 110.70 (C^1, C^8), 117.24 (C^3, C^6), 119.53 (C^4, C^5), 22.33 (C^{4a}), 124.67 (C^2, C^7), 141.70 (C^{8a})	40,43
47	$CDCl_3$; 40.05 (CH_2), 51.22 (NCH_2), 57.09 (OCH_2)	40-42
48	$CDCl_3$; 49.19 (CH_2), 51.30 (NCH_2), 57.31 (OCH_2)	40-42
49	DMSO-d_6; 16.71 (CSi), 50.58 (CN), 57.24 (OC), 175.65 (NCS)	47
50	DMSO-d_6; 16.50 (CSi), 50.14 (CN), 56.78 (OC), 174.50 (NCS)	47
51	DMSO-d_6; 15.74 (CSi), 30.08, 30.56 (CH_3N), 50.07 (CN), 56.74 (OC), 171.20 (NCS)	47
52	DMSO-d_6; 16.78 (CSi), 50.10 (CN), 56.78 (OC), 125.73 (C_o), 127.98 (C_p), 129.83 (C_m), 135.46 (C_i), 173.37 (NCS)	47
53	DMSO-d_6; 16.79 (CSi), 50.06 (CN), 56.73 (OC), 125.68 (C_o), 127.99 (C_p), 129.81 (C_m), 135.25 (C_i), 173.11 (NCS)	47
54	DMSO-d_6; 16.61 (CSi), 45.00 (C-C), 50.18 (CN), 56.71 (OC), 174.16 (NCS)	47
55	DMSO-d_6; 16.66 (CSi), 44.98 (C-C), 50.09 (CN), 56.66 (OC), 174.16 (NCS)	47
58	$CDCl_3$; 28.31 (C-3,4), 30.34 (CH_2), 51.23 (NCH_2), 57.36 (OCH_2), 177.47 (C=O)	49
59	$CDCl_3$; 17.43 (C-4), 31.05 (CH_2), 33.25 (C-3, 5), 51.35 (NCH_2) 57.57 (OCH_2), 172.41 (C=O)	49
66	CDCl3; 120–156 (phenyl ring), 187.9 (C=O), 57.2 (OCH_2), 9.3 ($SiCH_2$), 50.5 (NCH_2), 16.2 ($NCH_2\underline{\mathbf{C}}H_2$)	55
67	$CDCl_3$; 63.9 (OCH sym), 67.3, 65.5, 65.4 (OCH asym), 59.5 (NCH_2 sym), 65.7, 62.3, 62.3 (NCH_2 asym), 20.9 (CH_3 sym), 23.8, 21.3, 21.0 (CH_3 asym), 48.8 ($ClCH_2$), 29.6 ($C\underline{\mathbf{C}}H_2C$), 14.6 ($SiCH_2$)	56
68	$CDCl_3$; 63.2 (OCH sym), 66.6, 64.9, 64.7 (OCH asym), 58.7 (NCH_2 sym), 65.0, 61.5, 61.5 (NCH_2 asym), 20.3 (CH_3 sym), 23.1, 20.7, 20.4 (CH_3 asym), 30.6 (SCH_2), 28.3 (CCH_2C), 16.1 ($SiCH_2$)	56

69	$CDCl_3$; 63.2 (OCH_2 sym), 66.6, 64.9, 64.8 (OCH_2 asym), 58.6 (NCH_2 sym), 65.2, 61.5, 61.4 (NCH_2 asym), 20.2 (CH_3 sym), 23.1, 20.5, 20.3 (CH_3 asym), 167.5 (COO), 136.7 (CH_2=C), 124.6 (CH_2=C), 67.9 ($COCH_2$), 24.3 (CCH_2C), 18.3 (=CCH_3), 12.5 ($SiCH_2$)	56
70	$CDCl_3$; 63.3 (OCH sym), 66.8, 65.0, 64.9 (OCH asym), 58.9 (NCH_2 sym), 65.2, 61.8, 61.6 (NCH_2 asym), 20.3 (CH_3 sym), 23.1, 20.7, 20.4 (CH_3 asym), 53.0, 52.6, 42.1(NCH_2), 25.3 ($C\underline{\mathbf{C}}H_2C$), 13.6 ($SiCH_2$)	56
71	$CDCl_3$; 63.9 (OCH_2 sym), 67.0, 65.4, 65.3 (OCH_2 asym), 59.6 (NCH_2 sym), 65.7, 62.4, 62.1 (NCH_2 asym), 20.9 (CH_3 sym), 23.9, 21.2, 21.0 (CH_3 asym), 51.5 (OCH_3)	56
72	$CDCl_3$; 63.4 (OCH sym), 66.5, 65.0, 64.9 (OCH asym), 59.0 (NCH_2 sym), 65.1, 61.8, 61.6 (NCH_2 asym), 20.2 (CH_3 sym), 23.2, 20.6, 20.4 (CH_3 asym), 63.2 (CH_2OSi) 32.7, 31.8, 29.6, 29.3, 25.9, 22.6, (RCH_2), 14.1 (RCH_3)	56
73	$CDCl_3$; 63.7 (OCH sym), 68.0, 65.8, 64.0 (OCH asym), 59.2 (NCH_2 sym), 66.6, 65.9, 65.9 (NCH_2 asym), 20.4 (CH_3 sym), 22.8, 20.7, 20.5 (CH_3 asym), 156.4, 128.6, 120.5, 119.6 (PhC)	56
77	DMSO-d_6; 56.6 (OCH_2), 50.5 (NCH_2), 131.2 (CF_3), 325.8 ^{1}J(CF)	57
78	$CDCl_3$; 51.3, 57.8 (CH_2CH_2), 115.1 (CH=CH_2), 128.3 (C=CH_2), 143.0 (CH=CH_2), 149.6 (C=CH_2)	59
80	$CDCl_3$; 7.44 (CH_3Se), 11.28 (CH_2Si), 51.10 (CH_2N), 57.60 (CH_2O)	63
81	$CDCl_3$; -8.98 (CSi), 50.99 (NC), 57.54 (OC), 116.27 (C_i), 125.96 (C_o), 128.57 (C_m), 135.61 (C_p)	63
82	$CDCl_3$; 12.46 (CSi), 51.30 (CN), 57.86 (CO)	63
83	$CDCl_3$; 16.31 (CSi), 50.79 (CN), 57.27 (CO)	63
87	$CDCl_3$; 59.8 (Me_2N^+), 64.0 (CH_2Si), 50.8 (NCH_2), 57.1 (CH_2O)	65
88	$CDCl_3$; 60.7 (Me_2N^+), 64.7 (CH_2Si), 51.1 (NCH_2), 57.4 (CH_2O)	65
89	$CDCl_3$; 51.0 (CH_2N), 57.5 (OCH_2), 60.2 (CH_3OCH=), 86.5 ($\underline{\mathbf{C}}HC{\equiv}C$), 91.7 ($\underline{\mathbf{C}}{\equiv}CSi$), 98.9 ($C{\equiv}\underline{\mathbf{C}}Si$), 156.0 ($CH_3O\underline{\mathbf{C}}H$=)	66
93	$CDCl_3$; 164.13, 150.31, 136.89, 136.84, 110.33, 110.26, 86.00, 85.91, 65.62, 70.72, 70.38, 66.34, 66.26, 64.95, 64.92, 64.84, 64.78, 63.53, 62.37, 62.19, 61.67, 61.56, 60.89, 58.88, 58.83, 40.31, 23.50, 23.40, 20.46, 20.26, 20.23, 14.19, 14.12, 12.61	69
94	$CDCl_3$; 51.45, 57.71, 116.01, 113.94, 138.26, 147.69, 162.87	69
98	$CDCl_3$; 50.22, 50.31 (NCH_2), 57.47, 58.19 (OCH_2), 66.94 (NCH(Ph)), 75.27 (OCH(Ph)), 96.15 (SiC≡), 96.86 (PhC≡), 124.14, 127.33, 127.46, 127.52, 127.57, 127.60, 128.31, 129.24, 131.32, 131.64, 132.41, 139.02 (ring)	73
99	$CDCl_3$; 47.47, 47.75 (NCH_2), 57.28 (OCH_2), 69.11 (NCH(Ph)), 72.54 (OCH(Ph)), 96.07 (SiC≡), 96.83 (PhC≡), 124.20, 126.66, 127.46, 127.61, 127.77, 128.13, 128.95, 129.51, 130.16, 131.36, 132.42, 139.92 (aromatic carbons).	73

100	DMSO-d_6; 51.83 (NCH_2), 56.86 (OCH_2), 59.86 ($NCH_2C(Ph)_2$), 77.01 ($OC(Ph)_2$), 94.26 (SiC≡), 100.89 (PhC≡), 124.40, 124.95, 126.72, 127.54, 128.23, 128.39, 131.32, 147.16 (aromatic carbons)	73
101	$CDCl_3$; 31.54 ($SiCH_2$), 50.31, 50.49 (NCH_2), 57.38, 58.00 (OCH_2), 67.11 (NCH(Ph)), 74.74 (OCH(Ph)), 127.33, 127.46, 127.58, 128.31, 129.22, 131.32, 131.80, 139.30 (aromatic carbons)	73
102	$CDCl_3$; 31.42 ($SiCH_2$), 47.47, 47.76 (NCH_2), 57.05, 57.12 (OCH_2), 69.19 (NCH(Ph)), 71.93 (OCH(Ph)), 126.34, 127.69, 128.15, 128.92, 129.47, 130.12, 131.45, 140.28 (aromatic carbons)	73
103	$CDCl_3$; 31.70 ($SiCH_2$), 52.65 (NCH_2), 57.38 (OCH_2), 61.34 ($NCH_2C(Ph)_2$), 125.08, 127.02, 128.49, 146.76 (aromatic carbons)	73
104	$CDCl_3$; 50.32, 50.73 (NCH_2), 57.09, 57.81 (OCH_2), 67.34 (NCH(Ph)), 74.80 (OCH(Ph)), 127.24, 127.48, 127.55, 128.28, 129.12, 131.35, 132.12, 139.48 (aromatic carbons)	73
105	$CDCl_3$; 51.40, 51.97 (NCH_2), 57.09, 57.14 (OCH_2), 58.28 ($NCH_2CH(Ph)$), 69.22 (ICH(Ph)), 125.38, 127.81, 128.56, 141.13 (aromatic carbons)	73
122	$CDCl_3$; 42.28 (NR), 55.60 (NCH_2), 61.51 (OCH_2)	79-82
124	$CDCl_3$; 51.22 (NCH_2), 57.85 (OCH_2)	79-82
125	DMSO-d_6; 42.28 (NMe), 55.60 (NCH_2), 61.51 (OCH_2), 127.64 (C_o), 128.63 (C_p), 133.51 (C_m), 138.49 (C_i)	82
126	DMSO-d_6; 0.73 (SiMe,) 43.94 (NCH_2), 58.51 (OCH_2)	82
128	DMSO- d_6; 43.94 (NCH_2), 58.51 (OCH_2)	79-82
129	DMSO-d_6; 43.63 (NCH_2), 57.71 (OCH_2)	82
130	DMSO-d_6; 42.95 (NMe), 54.10 (NCH_2), 59.83 (OCH_2), 127.93 (C_o), 128.96 (C_p), 131.86 (C_m), 134.05 (C_i)	82
131	$CDCl_3$; 64.4, 49.4, 14.5, -2.6	84
132	$CDCl_3$; 140.1, 134.0, 138.1, 127.3, 64.2, 49.8, 14.5	84
133	$CDCl_3$; 55.47 (OCH_2), 48.91 (NCH_2), 11.35 ($SiCH_2$), 24.29 (CCH_2C), 45.88 (CH_2NCS), 177.05 (NCS)	87
174	$CDCl_3$; −47.417, −38.863, −27.089, 12.856, 23.412, 43.013, 50.989, 57.550, 156.880	97
179	$CDCl_3$; 24.55 (CSi), 29.49 (CH_3), 49.92 (CN), 56.72 (CO), 124.33 (C_i), 129.35 (C_o), 129.79 (C_m), 131.66 (C_p)	63
180	$CDCl_3$; 23.41 (CH_3), 29.75 (CSi), 50.84 (CN), 57.13 (CO)	63
182	CD_3OD; 30.56 (CH_2Si), 52.39 (CH_2N), 58.72 (CH_2O)	63
187	C_6D_6; 32.07 ($OC(CH_3)_3$), 53.59 ($2NCH_2$), 58.92 ($NCH_2CH_2OCH_2Si$), 60.26 ($2OCH_2$), 67.63, 67.70 ($NCH_2CH_2OCH_2Si$), 71.25 ($OC(CH_3)_3$)	73

188	C_6D_6; 32.34 ($OC(CH_3)_3$), 52.88 (NCH_2CH_2O), 59.66 ($NCH_2CH_2OCH_2Si$), 62.29 (NCH_2CH_2O), 67.37 (OCH_2Si), 68.47 ($NCH_2CH_2OCH_2Si$), 70.64 (NCH(Ph)), 71.67 ($OC(CH_3)_3$), 77.75 (OCH(Ph)), 126.77, 127.24, 127.72, 127.80, 128.03, 131.29, 136.13, 141.59 (aromatic carbons)	73
197	$CDCl_3$; 15.71, 21.52, 22.42, 22.86, 24.98, 31.76, 34.91, 44.76, 50.25, 71.44 (carbons of menthoxy group), 51.54 (NCH_2), 58.04 (OCH_2)	73
198	$CDCl_3$; 16.02, 21.52, 22.43, 22.98, 24.94, 31.83, 34.97, 44.97, 50.25, 71.68 (carbons of menthoxy group), 51.87, 52.31 (NCH_2), 58.10 (OCH_2), 58.87 ($NCH_2CH(Ph)$), 69.98 (ICH(Ph)), 125.20, 127.45, 128.32, 141.63 (aromatic carbons)	73
203	$CDCl_3$; 140.5 (CH=(1)), 126.3 (=CH(2)), 86.0 (Fe-*ipso*), 69.0 (unsubst. cp), 68.0, 66.8 (Fc-α, β), 57.7 (OCH_2), 51.0 (NCH_2)	102
204	$CDCl_3$; 53.34 (CH_2N), 61.55 (OCH_2), 126.96 (PPh_3),128.15 (PPh_3), 133.99 (PPh_3), 133.99 (PPh_3)	102
205	$CDCl_3$; 57.29 (CH_2N), 62.60 (CH_3), 65.48 (OCH_2), 127.12 (PPh_3), 128.22 (PPh_3), 133.52 (PPh_3), 134.05 (PPh_3)	102
204	CDCl3; 53.55 (CH_2N), 61.42 (OCH_2), 127.96 (PPh_3), 128.22 (PPh_3), 133.97 (PPh_3), 134.01 (PPh_3)	103
206	$CDCl_3$; 52.89 (CH_2N), 61.75 (OCH_2), 127.86 (PPh_3 ortho-C), 129.71 (PPh_3 para-C), 134.82 (PPh_3 meta-C)	104
207	$CDCl_3$; 50.71, 57.35, 123.40, 124.65, 129.00, 134.37, 147.89	105
208	$CDCl_3$; 14.33, 51.06, 57.62, 60.89, 128.13, 129.34, 134.08, 148.53, 167.45	105
209	$CDCl_3$; 26.66, 51.06, 57.60, 126.95, 134.33, 136.17, 149.31, 199.13	105
210	$CDCl_3$; 51.04, 57.61, 122.35, 130.22, 135.94, 141. 03	105
211	$CDCl_3$; 51.01, 57.65, 126.61, 126.98, 127.99, 128.73, 139.35, 142.69	105
212	$CDCl_3$; 63.6 (CH_2OH), 62.6 (CH_2OSi), 57.8 ($NCH_2\underline{C}H_2$), 50.9 (NCH_2)	111
213	$CDCl_3$; 52.49 (CH_2N), 52.71 (CH_2N), 52.84 (CH_2N), 60.13 (OCH_2), 61.09 (OCH_2), 127.0–128.0 (PPh_3), 128.6–129.3 (PPh_3), 133.1–134.2 (PPh_3), 189.35 (CO isomer A), 186.57 (CO isomer A) 187.68 (CO isomer B), 182.95 (CO isomer B) 188.68 (CO isomer C)	103
215	$CDCl_3$; 58.12 (CH_2N), 63.95 (CH_3), 66.66 (OCH_2), 128.22 (PPh_3 ortho-C), 130.33 (PPh_3 para-C), 134.35 (PPh_3 meta-C), 131.41 (PPh_3 ipso-C)	104
216	$CDCl_3$; 50.37 (CH_2N), 56.63 (OCH_2), 127.27 (PPh_3 ortho-C), 129.54 (PPh_3 para-C), 132.14 (PPh_3 ipso-C), 134.77 (PPh_3 meta-C)	104
219	50.87 (NCH_2), 57.44 (OCH_2), 96.86 (CSi), 101.62 (PhC), 124.03, 127.48, 127.60, 132.32 (aromatic C)	112
221	$CDCl_3$; 147.0 (C=), 122.9 (=CH_2), 89.2 (Fc-ipso), 69.3 (unsubst. cp), 67.7, 67.4 (Fc-α, β), 58.1 (OCH_2), 51.5 (NCH_2)	102
222	C_6D_6; 13.3 (CH_3), 50.7 (CH_2N), 57.4 (CH_2O), 83.9, 90.9, 91.8 (CH (cp)), 92.5, 103.1 (Cq (cp)), 227.6 (CO)	102
223	$CDCl_3$; 51.0 (CH_2N), 57.4 (CH_2O), 136.4, 139.8 (=CH), 123.6, 126.8 (CH arom.), 145.9, 146.5 (Cq)	102

224	$CDCl_3$; 24.4 (C−7), 27.6 (C−4), 39.76 (C−3a/7a), 39.81 (C−3a/7a), 51.0 (C−9), 57.5 (C−8), 126.8 (C−11), 128.1 (C−13), 128.8 (C−12), 132.5 (C−10), 134.3 (C−6), 142.8 (C−5), 179.6 (C−1/3), 179.7 (C−1/3)	59
225	C_6D_6; 23.9 (C−10), 28.0 (C−7), 33.1 (C−4), 46.0 (C−3a), 47.45 (C−7a), 50.6 (C−9), 57.5 (C−8), 133.5 (C−5), 143.81 (C−6), 173.7 (C−1), 178.2 (C−3)	59
225	C_6D_6; 23.6 (C−10), 24.2 (C−7), 36.9 (C−4), 45.2 (C−3a), 47.50 (C−7a), 133.0 C−6), 143.77 (C−5), 174.2 (C−1), 177.6 (C−3)	59
226	$CDCl_3$; 176.8, 138.9, 132.6, 60.1, 58.0, 51.2, 39.7, 29.0, 27.7, 26.0, 14.4	60
227	$CDCl_3$; 177.0, 137.7, 133.7, 57.9, 40.3, 30.6, 26.3, 25.2, 14.4	60
229	$CDCl_3$; -0.3 ($Si(CH_3)_3$), 51.2 (CH_2N), 57.4 (OCH_2), 80.3, 82.8, 88.2, 89.7 (Si**C**≡**CC**≡**C**Si).	66
230	$CDCl_3$; 51.1(CH_2N), 57.5 (OCH_2), 77.2, 80.0, 90.4, 94.1 (Si**C**≡**CC**≡**C**Si), 128.0 (C-2,6), 130.0 (C-4), 133.1 (C-1), 135.6 (C-3,5)	66
231	$CDCl_3$; 151.5 ($ArC_2C_2{\cdot}C_{2''}$), 136.4 ($ArC_5C_5{\cdot}C_{5''}$), 136.2 ($ArC_1C_1{\cdot}C_{1''}$), 128.4 ($ArC_6C_6{\cdot}C_{6''}$), 126.2 ($ArC_4C_4{\cdot}C_{4''}$), 117.2 ($ArC_3C_3{\cdot}C_{3''}$), 35.3-33.8 ($ArCH_2$), 33.2-22.1 $(CH_2)_n$, 14.0-13.8 (CH_3), 13.5 ($Si\text{-}CH_2$)	113
232	$CDCl_3$; -0.14, 0.46, 5.23, 10.37, 11.84, 18.45, 18.70, 19.37, 21.03, 22.55, 22.82, 23.35, 23.81, 24.28, 25.93, 27.92, 28.00, 28.22, 29.09, 29.34, 29.41, 29.54, 29.59, 31.86, 31.91, 33.47, 35.78, 36.17, 36.63, 37.03, 38.27, 39.50, 39.72, 42.29, 50.01, 56.10, 56.67, 68.16, 74.14, 113.93, 117.76, 121.83, 122.64, 122.93, 126.57, 128.82, 131.48, 136.59, 139.76, 153.77, 162.80, 165.81	114
233	$CDCl_3$; -0.15, 0.46, 5.23, 10.36, 11.84, 14.12, 18.45, 18.70, 19.37, 21.02, 22.55, 22.64, 22.82, 23.35, 23.81, 24.27, 26.00, 27.89, 28.00, 28.23, 29.38, 29.43, 29.57, 29.60, 31.58, 31.85, 31.92, 33.48, 35.78, 36.16, 36.63, 37.02, 38.23, 39.50, 39.71, 42.29, 50.01, 56.10, 56.67, 68.09, 74.48, 114.87, 117.75, 121.83, 122.74, 126.32, 126.56, 128.27, 128.82, 130.03, 132.18, 136.58, 139.67, 145.07, 153.77, 159.37, 165.95	114
234	$CDCl_3$; 121.67, 122.51, 125.62, 127.19, 130.64, 134.83, 135.84, 153.81, 29	115
235	$CDCl_3$; 93.77, 127.48, 127.51, 130.67, 131.63, 135.49, 135.80, 153.64	115
253	$CDCl_3$; 16.2 (aryl-CH_3), 20.6 (aryl-CH_3), 56.8 (NCH_2), 129.0 (t, $^1J_{CN}$ = 12.8 Hz, NCS) ; 124.8, 128.2, 129.3, 129.9, 132.0, 151.3 (aryl-C)	119

Table S5 Mass spectroscopic data of reported silatranes

Silatrane	m/z (% intensity, fragment)	Ref.
47	174 (100, Sil^+), 144 (7), 130 (1)	45
48	174 (100, Sil^+), 144 (7), 130 (1)	45
67	293.2 (5), 295.2 (2, M^+), 216.1 (100, M^+- $Cl(CH_2)_3$)	56
68	291.2 (2, M^+), 216.2 (100, M^+-$HS(CH_2)_3$)	56
69	343.3 (3, M^+), 216.2 (100, M^+-$CH_2{=}C(CH_3)COO(CH_2)_3$)	56
70	216.2 (100, M^+- $H_2N(CH_2)_2NH(CH_2)_3$), 287.3 (30, M^+-NH_2CH_2)	56
71	247.1 (15, M^+), 216.1 (100, M^+-CH_3O)	56
72	345.2 (7, M^+), 216.1 (100, M^+-$C_8H_{17}O$)	56
73	309.4 (9, M^+), 216.1 (100, M^+-C_6H_5O)	56
77	243 (9, M^+), 193 (68, M-$CF_2)^+$, 174 (100, Sil^+), 150 (85, $C_4H_9FNO_2Si^+$)	57
78	227.09 (M^+)	59
89	255 (63, M^+), 240 (23, M-H_3^+), 224 (61, M-OCH_3^+), 174 (26, Sil^+), 162 (100, $CH_3OCH{=}CHC{\equiv}C)_2^+$)	66
90	275 (2, M^+), 244 (2), 232 (2), 204 (15, M-$C_4H_7O^+$), 192 (5), 174 (100, Sil^+), 162 (5), 148 (5), 130 (6), 116 (4), 102 (6), 89 (5), 79 (6), 71 (5, $C_4H_7O^+$), 63 (7), 55 (5), 43 (13), 41 (12), 31 (2)	68
91	268 (21, M^+), 237 (5), 174 (100, Sil^+), 152 (5), 138 (5), 130 (6), 102 (5), 88 (4), 78 (4), 63 (5), 45 (6)	68
92	296 (15, M^+), 281 (1, M-Me^+), 266 (27), 265 (26), 198 (10), 184 (25), 174 (100, Sil^+), 160 (18), 106 (7, $MeC_5H_3NCH_2^+$), 77 (7, $C_5H_3N^+$), 63 (8), 42 (9), 30 (2)	68
93	458.2 (14, M^++1), 234.1 (100), 216.1 (66)	69
98	427 (M^+), 321 (M^+-PhCHO), 244 (M^+-PhCHO-Ph)	73
99	427 (M^+), 321 (M^+-PhCHO), 244 (M^+-PhCHO-Ph)	73
100	427 (M^+), 280 (M^+-PhCCSi-H_2O), 245 (M^+-Ph_2CO)	73
101	375 (M^+), 326 (M^+-CH_2Cl), 269 (M^+-PhCHO), 234 (M^+-PhCHO-Cl), 192 (M^+-PhCHO-$SiCH_2Cl$), 148 ($N(CH_2CH_2O)$-$CHPh^+$)	73

102	375 (M^+), 326 (M^+-CH_2Cl), 269 (M^+-PhCHO), 234 (M^+-PhCHO-Cl), 220 (M^+-PhCHO-CH_2Cl), 192 (M^+-PhCHO-$SiCH_2Cl$), 148 ($N(CH_2CH_2O)$-$CHPh^+$)	73
104	327 (M^+), 221 (M^+-PhCHO), 177 (M^+-PhCHO-CH_2CH_2O), 130 (M^+-CH(Ph)CH(Ph)O-H), 77 (Ph^+)	73
105	251 (M^+), 145 (M^+-PhCHO), 101 (M^+-$CH_2CH(Ph)O$-CH_2O), 77 (Ph^+)	73
133	297 (M+Na), 313 (M+K), 174 (silatranyl ion)	87
134	380 (14.9, M), 336 (50.4), 322 (93.8), 207 (7.2), 174 (100), 149 (2.9), 129 (51.0)	88
135	456 (1.3, M^+), 411 (5.9), 313 (1.0), 283 (2.0), 254 (4.1), 174 (100), 129 (4.9), 91 (10.8)	88
136	490.5 (19.2, M^+), 460 (11.2), 313 (27.7), 281 (37.1), 254 (69.0), 174 (100), 129 (25.4), 91 (12.0)	88
137	470 (0.1, M^+), 313 (2.5), 281 (5.6), 254 (24.3), 174 (100), 129 (9.0), 91 (11.0)	88
138	486 (3.0, M^+), 313 (4.1), 281 (7.2), 254 (20.5), 174 (100), 129 (11.3), 91 (16.6)	88
139	525 (0.2, M^+), 313 (1.6), 281 (7.1), 254 (21.5), 174 (100), 129 (5.1), 91 (3.1)	88
140	396 (2.1, M^+), 353 (5.3), 339 (26.0), 223 (7.4), 174 (100), 129 (14.2)	88
141	472 (3.9, M^+), 329 (3.3), 299 (3.4), 270 (6.2), 174 (100), 129 (8.0), 91 (16.9)	88
142	506.5 (6.2, M^+), 329 (2.5), 299 (0.8), 270 (4.1), 174 (100), 129 (6.4), 91 (3.6)	88
143	486 (0.2, M^+), 329 (1.5), 299 (0.2), 270 (4.7), 174 (100), 129 (6.5), 91 (6.8)	88
144	502 (1.2, M^+), 329 (2.3), 299 (0.7), 270 (6.2), 174 (100), 129 (7.5), 91 (11.8)	88
145	541 (0, M^+), 329 (0.6), 299 (1.5), 270 (6.7), 174 (100), 129 (7.8), 91 (2.6)	88
146	552 (1.07, M^+), 174 (100, Sil^+), 156 (60.5), 130 (35.2), 71 (20.6), 58 (25.3)	89
147	567 (1.31, M + 1), 174 (100, Sil^+), 156 (97), 130 (41), 71 (22), 58 (31.3)	89
148	580 (1.16, M^+), 174 (100, Sil^+), 156 (54.2), 130 (40.6), 71 (34.6), 58 (23.4)	89
149	580 (1.21, M^+), 174 (100, Sil^+), 156 (50.2), 130 (20.2), 71 (40.35), 58 (28.3)	89
150	614 (0.05, M^+), 174 (100), 156 (57.3), 130 (10.5), 71 (14), 58 (20.1)	89
151	648 (0.1, M^+), 174 (100, Sil^+), 156 (34), 130 (27.5), 71 (46), 58 (12)	89

152	683 (weak, M^+), 174 (100, Sil^+), 156 (15), 130 (34), 71 (78), 58 (23)	89
153	683 (0.1, M^+), 174 (100, Sil^+), 156 (64), 130 (45), 71 (28), 58 (39.5)	89
155	368 (M^+, 2.5), 130 (100)	90
165	917 (M^+)	96
166	968.1853	96
167	997.1406	96
170	323.12 (M^+)	96
174	449 (M+Na)	97
187	203 (16) (M^+-C_4H_{10}), 188 (100) (M^+ - tert-BuO)	73
188	413 (5) (M^+), 383 (8) (M^+-CH_2O), 355 (31) (M^+-C_4H_{10}), 340 (100) (M^+-tert-BuO), 307 (16) (M^+-PhCHO), 250 (40) (M^+-PhCHO-tert-Bu), 234 (17) (M^+-PhCHO-tert-BuO), 222 (76), 204 (9) (M^+-PhCHO-tert-BuO-CH_2O), 179 (47), 148 (65), 104(41), 91 (78)	73
197	329 (M^+), 244 (M^+-C_6H_{13}), 174 (M^+-MenthO)	73
198	405 (M^+), 320 (M^+-C_6H_{13}), 299 (M^+-PhCHO), 250 (M^+-MenthO), 162 ($N(CH_2)_2CH_2CH(Ph)O^+$)	73
199	282 (26, M^+), 252 (40), 251 (36), 198 (10), 175 (13), 174 (100, Sil^+), 170 (23), 160 (18), 152 (11), 130 (11), 92 (12), 40 (13)	101
200	282 (27, M^+), 2.51 (8), 175 (15), 174 (100, Sil^+), 160 (10), 130 (8), 92 (11)	101
201	282 (29, M^+), 251 (5), 239 (11), 175 (14), 174 (100, Sil^+), 160 (11), 152 (10), 132 (10), 130 (8), 92 (8)	101
202	296 (14, M^+), 266 (40), 265 (39), 184 (35), 174 (100, Sil^+), 160 (25), 40 (70)	101
205	1168.3353	103
207	319.08 (M^+)	105
209	293.11 (M^+)	105
210	331.01 (M^+)	105
211	277.11 (M^+)	105
212	236 $(M + H)^+$	111

213	948.2044	103
214	1156.3270	103
224	339.13 (M^+)	59
225	350.14 $(M + Na)^+$	59
226	350.14 $(M + Na)^+$	60
229	295 (90, M^+), 280 (100, M - CH_3^+), 265 (30, M-2CH_3^+), 222 (25, M -$Si(CH_3)_3^+$), 174 (16, SiI^+), 73 (29, $Si(CH_3)_3^+$)	66
230	481 (42, M^+), 404 (7, M-$C_6H_5^+$), 307 (16, M-SiI^+), 259 (24, $Si(C_6H_5)_3^+$), 174 (100, SiI^+), 105 (21, $C_6H_5Si^+$)	66
232	1161.28 $(M + Na)^+$	114
233	1237.88 $(M + Na)^+$	114
234	583.94 (M^+), 582.95 (M^+)	115
253	502, (3.75, M^+), 444 (100, M-NCS)$^+$	119

$SiI^+ = [Si(OCH_2CH_2)_3N]^+$