

TABLE-S1-A. Calculated activity values for the full population with the different models

Iden	Activity	MLR				SVM				PPR				ANN			
		PaDEL		CODESSA		PaDEL		CODESSA		PaDEL		CODESSA		PaDEL		CODESSA	
		Recall	Pred	Recall	Pred	Recall	Pred	Recall	Pred	Recall	Pred	Recall	Pred	Recall	Pred	Recall	Pred
1	2.10	2.34	2.37	2.13	2.13	2.36	2.34	2.13	2.14	2.35	2.44	2.16	2.03	2.36	2.36	2.14	2.12
2	1.97	2.05	1.99	2.08	2.12	2.09	2.00	2.07	2.14	2.01	1.94	1.99	2.02	2.02	1.97	2.09	2.13
3	1.51	2.10	2.16	2.00	2.04	2.15	2.18	2.01	2.02	2.05	2.24	1.83	1.97	2.08	2.15	2.01	2.07
4	2.25	2.39	2.41	2.12	2.00	2.44	2.47	2.11	2.01	2.39	2.54	2.12	1.98	2.43	2.43	2.12	1.99
5	2.34	2.31	2.30	2.30	2.27	2.34	2.31	2.29	2.27	2.31	2.33	2.34	2.32	2.33	2.32	2.29	2.25
6	2.30	2.09	2.11	2.23	2.24	2.11	2.08	2.23	2.25	2.03	2.07	2.32	2.33	2.09	2.11	2.23	2.22
7	1.76	1.90	1.92	1.96	1.95	1.90	1.92	1.98	1.97	1.84	1.96	1.98	2.04	1.89	1.92	1.97	1.97
8	2.09	2.11	2.14	1.96	1.99	2.13	2.14	1.97	1.95	2.04	2.10	2.01	2.02	2.10	2.13	1.97	2.01
9	2.01	2.21	2.21	1.88	1.80	2.25	2.27	1.87	1.80	2.21	2.24	2.15	1.89	2.22	2.24	1.89	1.80
10	2.09	2.14	2.13	1.96	1.94	2.16	2.12	1.96	1.94	2.09	2.24	2.02	1.94	2.13	2.13	1.97	1.95
11	1.71	1.87	1.88	1.83	1.86	1.91	1.99	1.84	1.92	1.86	1.83	1.83	1.92	1.84	1.87	1.83	1.86
12	1.77	1.56	1.49	1.82	1.83	1.59	1.46	1.83	1.83	1.59	1.45	1.80	1.78	1.54	1.48	1.81	1.84
13	1.90	2.08	2.07	2.02	2.04	2.10	2.12	2.01	2.00	2.03	1.98	1.89	1.97	2.07	2.07	2.03	2.06
14	2.29	2.15	2.13	2.03	2.01	2.18	2.16	2.04	2.04	2.10	1.93	1.91	1.87	2.15	2.14	2.03	2.01
15	1.62	1.92	1.86	1.74	1.71	1.96	1.90	1.76	1.72	1.90	1.79	1.63	1.71	1.89	1.80	1.72	1.70
16	2.13	2.37	2.40	2.39	2.36	2.40	2.41	2.39	2.35	2.40	2.51	2.35	2.46	2.40	2.39	2.37	2.35
17	2.43	2.25	2.23	2.36	2.38	2.27	2.22	2.39	2.35	2.27	2.21	2.33	2.39	2.25	2.23	2.34	2.37
18	2.04	1.97	1.94	2.15	2.15	2.00	2.03	2.12	2.11	1.91	1.86	2.08	2.08	1.96	1.93	2.18	2.19
19	2.11	2.18	2.17	2.38	2.38	2.20	2.19	2.40	2.45	2.19	2.11	2.36	2.40	2.18	2.18	2.35	2.37
20	2.48	1.99	1.94	2.30	2.27	2.04	2.00	2.32	2.27	1.95	1.84	2.34	2.32	1.97	1.90	2.29	2.25
21	1.01	1.03	1.01	1.18	1.23	1.05	1.17	1.16	1.21	1.02	1.09	1.18	1.31	1.12	1.19	1.22	1.29
22	1.37	1.44	1.43	1.62	1.70	1.41	1.46	1.62	1.75	1.49	1.44	1.54	1.68	1.44	1.42	1.61	1.75
23	1.19	1.34	1.35	1.24	1.26	1.34	1.32	1.23	1.20	1.35	1.36	1.24	1.11	1.35	1.37	1.26	1.27
24	1.39	1.38	1.38	1.44	1.51	1.38	1.36	1.44	1.50	1.38	1.37	1.43	1.45	1.39	1.40	1.43	1.50
25	2.28	2.29	2.29	2.31	2.29	2.29	2.28	2.31	2.29	2.33	2.32	2.34	2.32	2.32	2.31	2.29	2.26
26	2.54	2.31	2.32	2.46	2.43	2.30	2.32	2.48	2.45	2.36	2.40	2.50	2.35	2.34	2.32	2.41	2.40
27	1.98	1.98	1.99	1.89	1.97	1.95	2.03	1.90	2.02	1.95	1.87	1.91	2.01	1.97	1.98	1.90	2.03
28	2.11	2.10	2.12	2.13	2.17	2.09	2.11	2.12	2.17	2.08	2.12	2.11	2.12	2.10	2.12	2.13	2.18
29	2.33	2.13	2.10	2.23	2.19	2.11	2.11	2.24	2.18	2.16	1.89	2.33	2.22	2.12	2.09	2.22	2.19
30	1.66	1.57	1.59	1.31	1.25	1.54	1.57	1.28	1.27	1.64	1.62	1.35	1.19	1.56	1.56	1.31	1.25
31	1.99	2.11	2.12	2.15	2.14	2.10	2.10	2.15	2.17	2.10	2.12	2.20	1.96	2.11	2.12	2.15	2.13
32	2.26	2.09	2.07	2.32	2.40	2.08	2.11	2.34	2.37	2.05	2.02	2.34	2.40	2.09	2.06	2.30	2.38
33	1.55	1.48	1.47	1.48	1.37	1.51	1.46	1.49	1.38	1.44	1.09	1.48	1.14	1.45	1.48	1.50	1.37
34	1.85	2.15	2.23	1.71	1.61	2.17	2.19	1.67	1.59	2.10	2.27	1.71	1.58	2.14	2.22	1.69	1.58
35	2.67	2.42	2.35	2.40	2.34	2.45	2.33	2.40	2.34	2.59	2.33	2.47	2.34	2.43	2.29	2.37	2.32
36	2.61	2.45	2.45	2.52	2.48	2.46	2.45	2.55	2.42	2.60	2.63	2.63	2.34	2.48	2.42	2.46	2.45
37	1.84	1.96	1.99	1.93	2.04	1.99	2.01	1.90	2.02	1.90	1.88	1.86	1.99	1.95	1.98	1.94	2.09
38	2.16	2.16	2.22	1.98	2.03	2.19	2.20	1.96	2.07	2.07	2.05	2.08	1.98	2.17	2.22	2.00	2.08
39	1.63	1.67	1.78	1.73	1.72	1.67	1.68	1.71	1.74	1.72	1.85	1.59	1.61	1.65	1.76	1.72	1.72
40	1.29	1.28	1.22	1.31	1.34	1.30	1.24	1.30	1.32	1.26	1.25	1.30	1.29	1.32	1.32	1.31	1.32
41	2.07	2.05	2.03	1.84	1.77	2.07	2.09	1.79	1.72	1.97	1.92	2.06	1.97	2.03	2.02	1.87	1.75
42	1.89	1.92	1.98	2.33	2.49	1.93	1.95	2.34	2.41	1.83	2.01	2.34	2.47	1.92	1.98	2.34	2.45
43	1.22	1.54	1.60	1.32	1.35	1.55	1.53	1.31	1.37	1.54	1.58	1.33	1.29	1.53	1.59	1.34	1.35
44	2.09	2.06	2.01	2.09	2.06	2.11	2.11	2.07	2.06	2.01	1.99	1.97	1.93	2.04	1.99	2.10	2.08

45	1.99	1.91	1.84	1.89	1.82	1.95	1.81	1.93	1.87	1.85	1.81	2.02	2.02	1.91	1.85	1.90	1.84
46	1.77	2.09	2.10	1.72	1.58	2.12	2.07	1.71	1.60	2.04	2.06	1.68	1.48	2.09	2.10	1.73	1.55
47	2.42	2.22	2.22	2.41	2.47	2.28	2.27	2.40	2.48	2.26	2.25	2.35	2.45	2.23	2.23	2.38	2.43
48	1.66	1.97	2.00	1.80	1.85	2.02	2.03	1.77	1.87	1.90	1.86	1.77	2.11	1.97	2.00	1.80	1.88
49	2.15	1.84	1.85	1.88	1.82	1.88	1.86	1.88	1.85	1.87	1.84	1.87	1.67	1.84	1.84	1.89	1.82
50	2.06	1.81	1.78	2.14	2.17	1.88	1.83	2.12	2.17	1.88	1.75	2.11	2.15	1.77	1.72	2.15	2.17
51	1.88	1.81	1.80	1.66	1.58	1.84	1.71	1.62	1.60	1.86	1.89	1.55	1.62	1.81	1.81	1.65	1.56
52	1.66	1.91	1.93	2.14	2.18	1.95	1.97	2.12	2.19	1.87	1.97	2.04	2.11	1.89	1.92	2.15	2.19
53	2.44	2.14	2.15	2.29	2.30	2.18	2.21	2.27	2.30	2.14	2.14	2.34	2.31	2.14	2.14	2.28	2.30
54	2.30	2.20	2.18	2.25	2.17	2.26	2.28	2.24	2.21	2.23	2.14	2.31	2.17	2.20	2.17	2.24	2.18
55	1.80	2.02	1.99	2.07	2.02	2.08	2.02	2.05	2.04	1.95	1.92	1.99	1.94	2.01	1.99	2.08	2.05
56	1.70	1.57	1.57	1.80	1.82	1.65	1.74	1.77	1.81	1.58	1.57	1.84	1.80	1.54	1.56	1.79	1.81
57	1.53	1.57	1.68	1.69	1.79	1.57	1.73	1.66	1.76	1.62	1.77	1.57	1.71	1.58	1.68	1.68	1.80
58	1.43	1.43	1.43	1.68	1.73	1.47	1.47	1.65	1.76	1.42	1.35	1.55	1.68	1.44	1.44	1.67	1.75
59	2.69	2.45	2.40	2.22	2.13	2.49	2.49	2.20	2.17	2.67	2.52	2.27	2.15	2.47	2.39	2.22	2.14
60	2.45	2.34	2.29	2.14	2.10	2.39	2.31	2.13	2.12	2.37	2.30	2.08	2.00	2.35	2.28	2.15	2.11
61	2.48	2.32	2.33	1.83	1.71	2.36	2.34	1.82	1.72	2.33	2.38	2.19	1.59	2.33	2.32	1.84	1.68
62	2.35	2.19	2.21	2.46	2.58	2.23	2.21	2.41	2.66	2.19	2.16	2.42	2.59	2.20	2.22	2.43	2.49
63	2.05	2.30	2.34	2.14	2.14	2.36	2.39	2.12	2.24	2.32	2.36	2.03	2.07	2.30	2.34	2.13	2.13
64	1.81	1.73	1.68	1.57	1.48	1.77	1.75	1.53	1.39	1.85	1.79	1.55	1.49	1.70	1.64	1.55	1.46
65	2.13	1.72	1.66	1.92	1.84	1.76	1.67	1.93	1.86	1.80	1.66	2.16	2.03	1.70	1.64	1.95	1.87
66	1.91	2.12	2.13	2.18	2.18	2.18	2.22	2.16	2.18	2.04	2.08	2.13	2.37	2.11	2.13	2.20	2.19
67	1.73	2.08	2.11	1.97	2.04	2.12	2.11	1.95	1.99	2.02	1.96	1.83	2.00	2.08	2.10	1.99	2.05
68	1.10	1.08	1.05	1.27	1.48	1.13	1.09	1.16	1.29	1.08	0.98	1.24	1.36	1.14	1.13	1.28	1.52
69	1.87	1.86	1.93	1.88	1.80	1.87	1.90	1.86	1.82	1.86	1.88	1.86	2.06	1.86	1.92	1.86	1.76
70	2.35	2.28	2.27	2.19	2.19	2.31	2.29	2.18	2.19	2.31	2.29	2.21	2.23	2.27	2.24	2.20	2.20
71	1.25	1.23	1.21	1.16	1.16	1.29	1.47	1.06	1.04	1.25	1.24	1.20	1.24	1.24	1.26	1.16	1.26
72	1.60	1.58	1.56	1.66	1.80	1.60	1.58	1.66	1.70	1.62	1.55	1.60	1.74	1.58	1.55	1.64	1.82
73	1.50	1.39	1.45	1.62	1.72	1.40	1.37	1.56	1.65	1.38	1.49	1.53	2.13	1.39	1.44	1.54	1.68
74	2.46	2.36	2.33	2.29	2.27	2.39	2.39	2.28	2.30	2.38	2.42	2.34	2.30	2.37	2.32	2.28	2.27

TABLE-S1-B. Calculated activity values for the reduced population with the different models

Iden	Activity	MLR		SVM		PPR		ANN	
		PaDEL	CODESSA	PaDEL	CODESSA	PaDEL	CODESSA	PaDEL	CODESSA

		Recall	Pred	Recall	Pred	Recall	Pred	Recall	Pred	Recall	Pred	Recall	Pred	Recall	Pred	Recall	Pred
1	2.10	2.21	2.21	2.04	2.01	2.20	2.21	2.03	2.00	2.20	2.34	2.09	2.08	2.21	2.22	2.05	2.02
2	1.97	1.98	1.96	1.93	1.93	1.98	1.94	1.92	1.91	2.01	2.00	1.94	1.95	1.99	1.98	1.95	1.95
3	1.51	1.80	1.83	1.85	1.91	1.81	1.79	1.85	1.90	1.74	1.85	1.88	1.96	1.78	1.83	1.86	1.95
4	2.25	2.28	2.28	2.11	2.08	2.26	2.25	2.09	2.03	2.26	2.28	2.17	2.10	2.28	2.28	2.12	2.09
5	2.34	2.31	2.31	2.37	2.35	2.30	2.30	2.34	2.32	2.32	2.38	2.35	2.37	2.31	2.30	2.35	2.33
6	2.30	2.14	2.13	2.41	2.40	2.14	2.14	2.40	2.41	2.23	2.34	2.28	2.32	2.16	2.16	2.38	2.38
7	1.76	1.83	1.80	1.80	1.82	1.84	1.84	1.79	1.69	1.76	1.74	1.81	1.70	1.80	1.80	1.80	1.82
8	2.09	2.14	2.14	2.22	2.27	2.13	2.13	2.20	2.23	2.17	2.15	2.22	2.33	2.14	2.13	2.24	2.28
9	2.01	2.07	2.07	1.93	1.89	2.05	2.08	1.92	1.88	2.07	2.08	1.90	1.91	2.07	2.07	1.94	1.90
10	2.09	2.04	1.99	1.86	1.84	2.03	1.99	1.86	1.83	2.02	1.98	1.85	1.82	2.03	1.96	1.87	1.83
11	1.71	1.79	1.82	1.66	1.66	1.81	1.84	1.68	1.69	1.71	1.64	1.64	1.59	1.77	1.80	1.65	1.65
12	1.77	1.80	1.82	1.69	1.69	1.82	1.86	1.70	1.64	1.79	1.78	1.67	1.66	1.78	1.80	1.68	1.67
13	1.90	1.85	1.85	2.09	2.11	1.86	1.84	2.09	2.08	1.85	1.89	2.12	2.18	1.84	1.86	2.12	2.16
14	2.29	2.20	2.18	2.17	2.14	2.19	2.17	2.15	2.14	2.23	2.20	2.20	2.33	2.20	2.18	2.18	2.15
15	1.62	1.61	1.61	1.65	1.65	1.64	1.64	1.68	1.64	1.56	1.56	1.64	1.63	1.58	1.57	1.65	1.63
16	2.13	2.20	2.22	2.22	2.23	2.18	2.20	2.24	2.30	2.21	2.34	2.22	2.20	2.21	2.23	2.23	2.24
17	2.43	2.38	2.39	2.30	2.26	2.35	2.41	2.32	2.30	2.38	2.35	2.44	2.29	2.36	2.36	2.30	2.26
18	2.04	2.28	2.31	2.28	2.31	2.26	2.26	2.27	2.31	2.28	2.32	2.26	2.36	2.29	2.32	2.26	2.29
19	2.11	2.40	2.40	2.40	2.43	2.37	2.37	2.41	2.40	2.39	2.38	2.31	2.34	2.37	2.37	2.36	2.38
20	2.48	2.19	2.15	2.29	2.28	2.17	2.13	2.30	2.29	2.23	2.15	2.42	2.35	2.19	2.15	2.29	2.28
21	1.01	1.17	1.22	1.15	1.17	1.20	1.23	1.12	1.13	1.17	1.23	1.10	1.23	1.21	1.26	1.19	1.24
22	1.37	1.46	1.48	1.54	1.59	1.47	1.52	1.48	1.57	1.45	1.46	1.53	1.61	1.44	1.45	1.51	1.55
23	1.19	1.08	1.07	1.09	1.05	1.13	1.08	1.11	1.12	1.12	1.14	1.03	1.06	1.16	1.16	1.15	1.11
24	1.39	1.24	1.18	1.52	1.57	1.28	1.24	1.50	1.56	1.25	1.19	1.48	1.61	1.25	1.22	1.49	1.55
25	2.28	2.39	2.36	2.25	2.24	2.34	2.36	2.23	2.21	2.39	2.43	2.22	2.21	2.38	2.36	2.25	2.24
26	2.54	2.50	2.51	2.23	2.20	2.44	2.49	2.23	2.22	2.45	2.38	2.21	2.23	2.46	2.47	2.23	2.21
27	1.98	1.90	1.93	1.97	1.99	1.87	1.96	1.91	2.03	1.89	1.90	1.98	2.11	1.89	1.91	1.96	1.99
28	2.11	2.16	2.17	2.26	2.33	2.12	2.12	2.23	2.26	2.21	2.18	2.21	2.44	2.17	2.17	2.26	2.31
29	2.33	2.30	2.30	2.31	2.26	2.25	2.29	2.28	2.24	2.28	2.31	2.34	2.10	2.30	2.30	2.31	2.26
30	1.66	1.54	1.48	1.41	1.35	1.53	1.50	1.35	1.33	1.49	1.44	1.39	1.33	1.50	1.43	1.39	1.33
31	1.99	2.19	2.19	2.15	2.12	2.15	2.20	2.12	2.10	2.22	2.33	2.19	2.18	2.20	2.21	2.16	2.13
32	2.26	2.27	2.26	2.43	2.49	2.23	2.29	2.37	2.41	2.24	2.27	2.33	2.36	2.28	2.27	2.39	2.39
38	2.16	1.94	1.95	2.02	2.00	1.95	1.96	2.03	2.00	2.00	1.95	2.10	2.13	1.96	1.96	2.05	2.07
39	1.63	1.70	1.68	1.60	1.57	1.73	1.65	1.60	1.65	1.65	1.65	1.58	1.62	1.69	1.67	1.60	1.57
40	1.29	1.32	1.34	1.33	1.38	1.35	1.41	1.40	1.37	1.35	1.36	1.33	1.36	1.34	1.36	1.32	1.34
44	2.09	1.87	1.85	2.17	2.18	1.88	1.84	2.14	2.15	1.90	1.84	2.21	2.28	1.88	1.85	2.18	2.19
45	1.99	1.91	1.89	2.22	2.19	1.89	1.91	2.21	2.19	1.90	1.89	2.21	2.18	1.91	1.90	2.22	2.19
46	1.77	1.95	1.97	1.95	1.93	1.96	1.98	1.93	1.88	2.00	2.09	1.99	2.02	1.96	1.99	1.97	1.93
47	2.42	2.35	2.36	2.34	2.30	2.32	2.29	2.34	2.36	2.38	2.35	2.35	2.24	2.36	2.36	2.33	2.30
48	1.66	1.82	1.85	1.79	1.78	1.81	1.81	1.82	1.80	1.73	1.88	1.82	1.84	1.82	1.88	1.78	1.80
53	2.44	2.21	2.25	2.30	2.30	2.19	2.17	2.29	2.28	2.24	2.26	2.39	2.44	2.22	2.27	2.30	2.32
54	2.30	2.40	2.41	2.46	2.48	2.36	2.42	2.45	2.48	2.39	2.39	2.25	2.34	2.39	2.39	2.41	2.42
59	2.69	2.36	2.36	2.37	2.35	2.33	2.37	2.33	2.33	2.36	2.35	2.44	2.35	2.35	2.34	2.34	2.32
60	2.45	2.43	2.46	2.19	2.16	2.40	2.43	2.15	2.13	2.41	2.38	2.22	2.16	2.41	2.44	2.20	2.17
61	2.48	2.41	2.40	2.08	2.05	2.38	2.40	2.04	2.00	2.40	2.35	2.15	2.18	2.39	2.39	2.10	2.06
62	2.35	2.49	2.61	2.31	2.32	2.45	2.61	2.24	2.51	2.44	2.45	2.34	2.36	2.46	2.49	2.31	2.31
63	2.05	2.10	2.11	2.29	2.36	2.09	2.11	2.27	2.32	2.13	2.13	2.22	2.44	2.12	2.14	2.29	2.33
64	1.81	1.95	1.96	1.96	1.91	1.91	2.00	1.92	1.88	1.93	1.98	1.92	1.90	1.95	1.97	1.94	1.90
70	2.35	2.11	2.04	2.20	2.18	2.08	2.06	2.21	2.21	2.18	2.04	2.20	2.17	2.14	2.06	2.19	2.16

74	2.46	2.42	2.45	2.27	2.26	2.37	2.36	2.27	2.22	2.43	2.43	2.26	2.19	2.41	2.43	2.26	2.25
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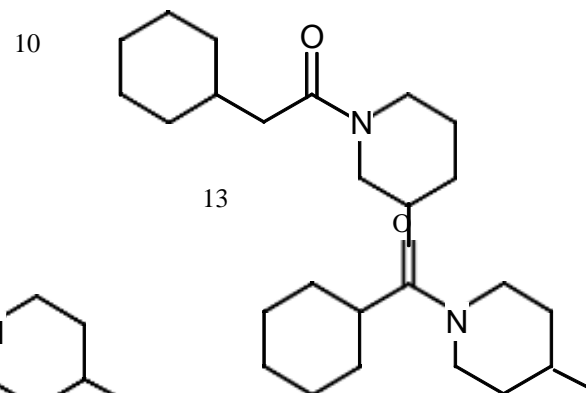
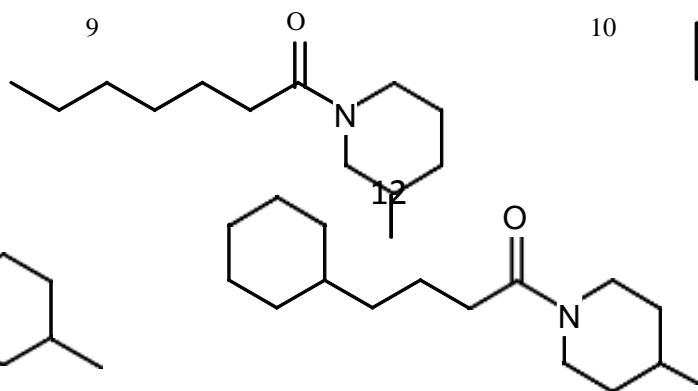
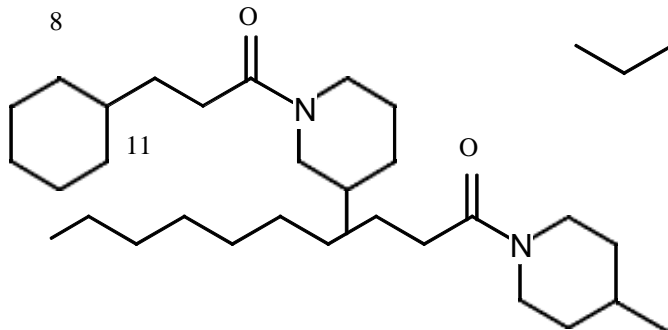
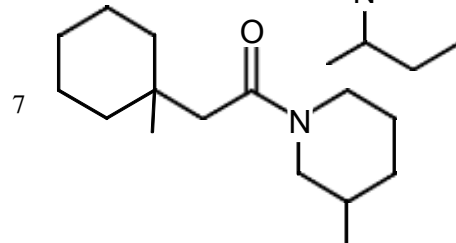
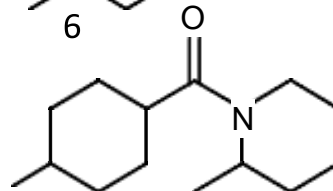
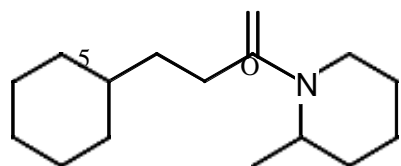
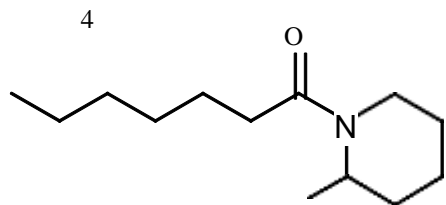
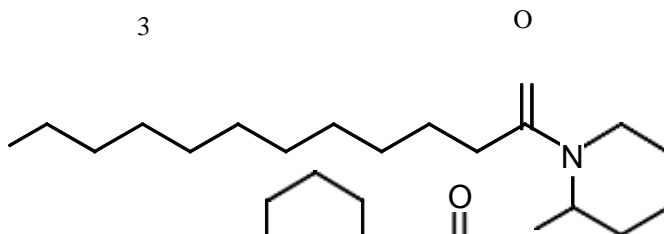
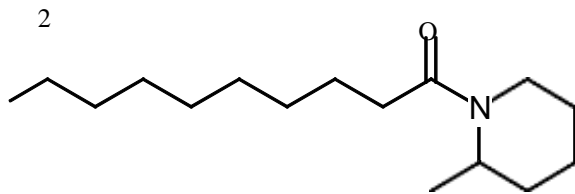
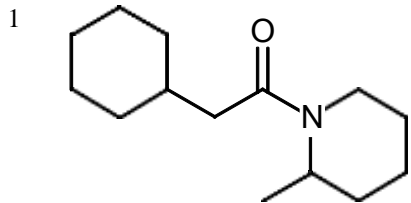


Fig S1-b

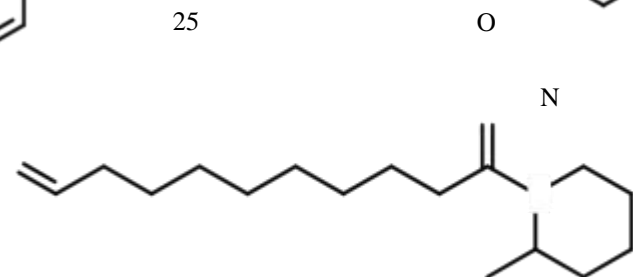
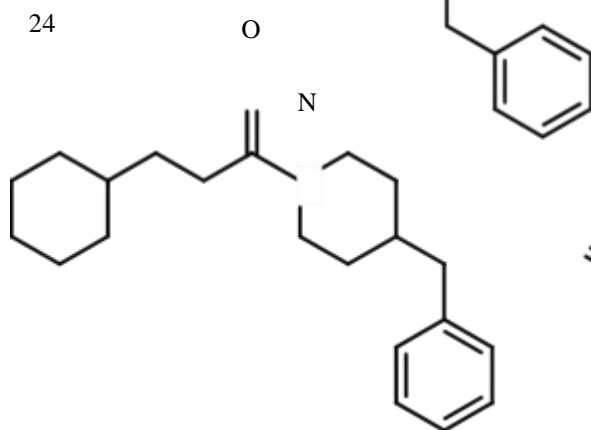
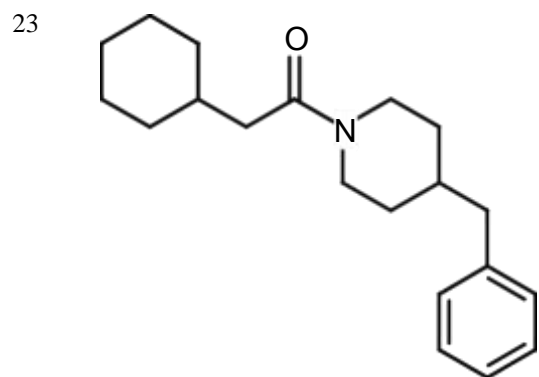
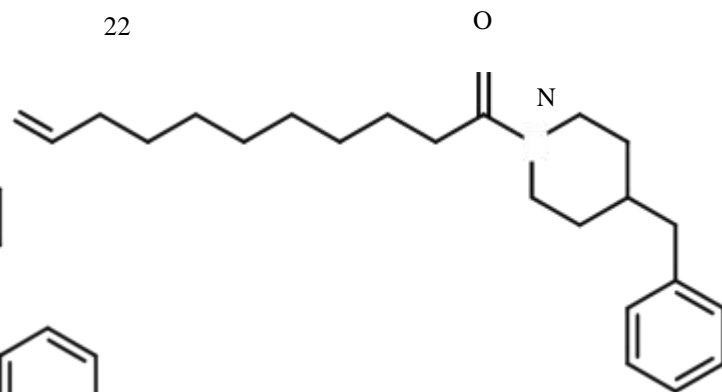
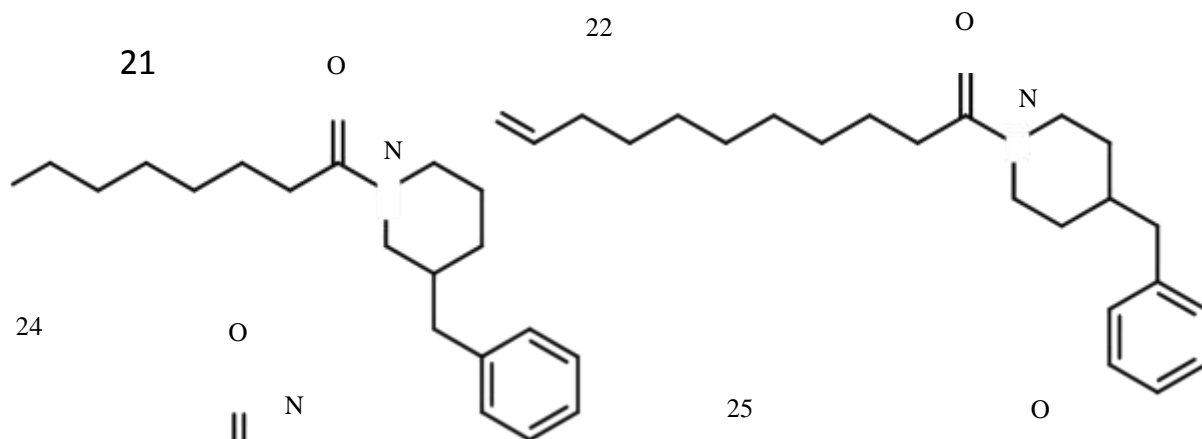
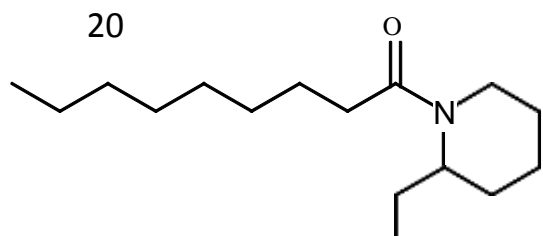
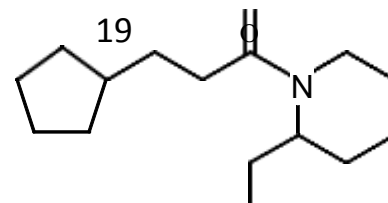
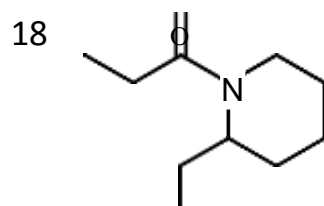
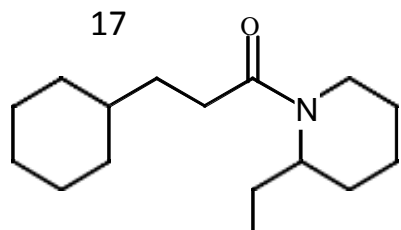
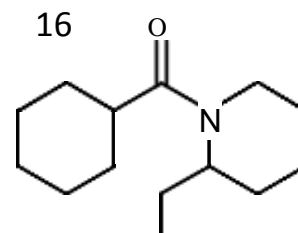
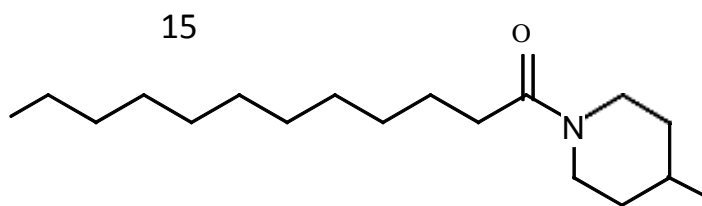
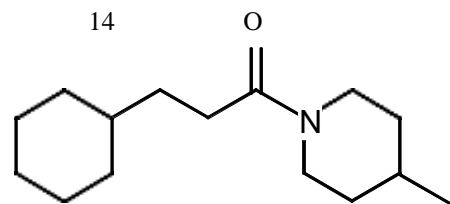
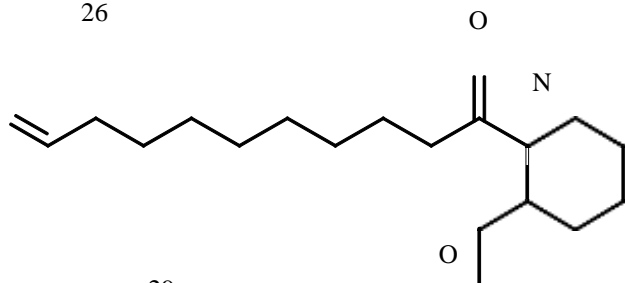
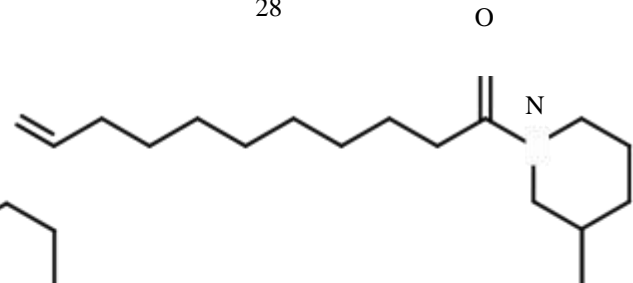


Fig S1-c

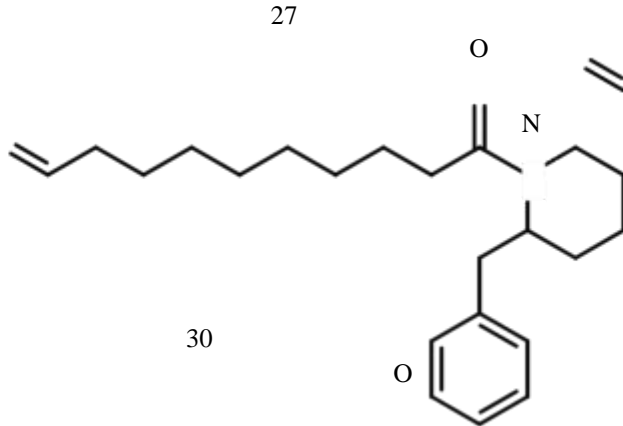
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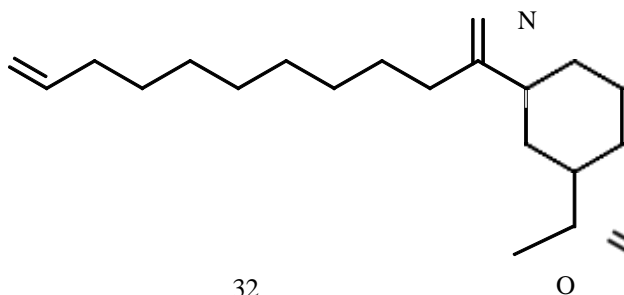
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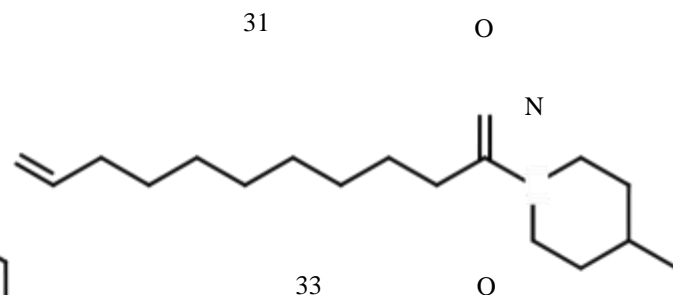
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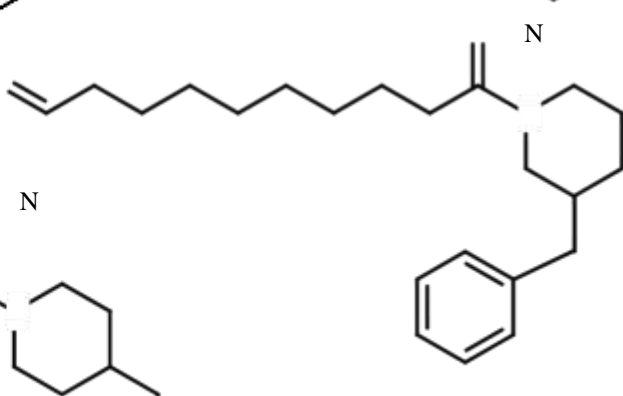
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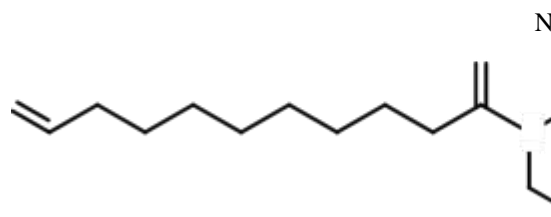
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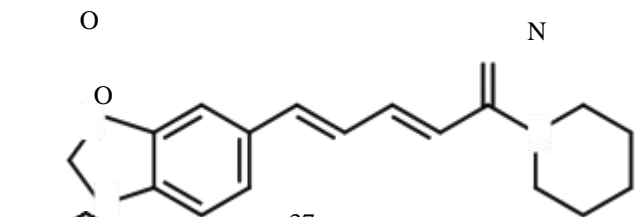
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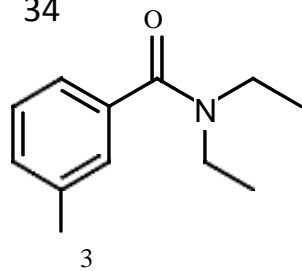
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33

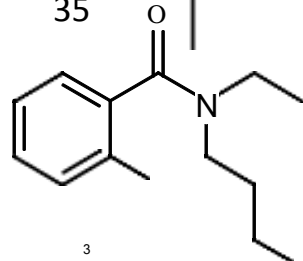


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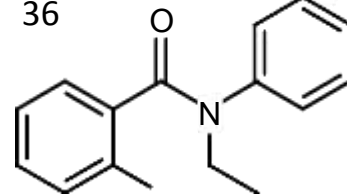
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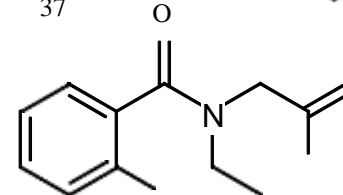
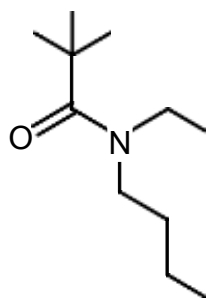
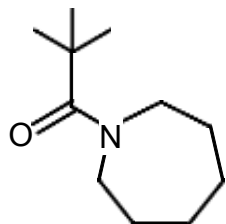


Fig S1-d

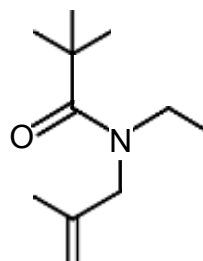
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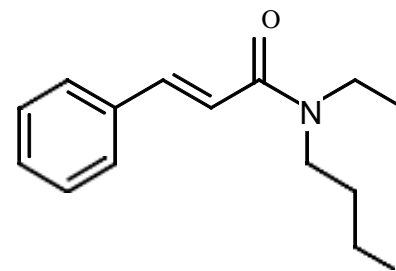
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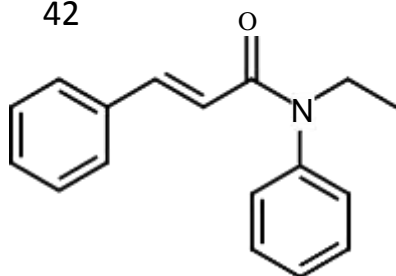
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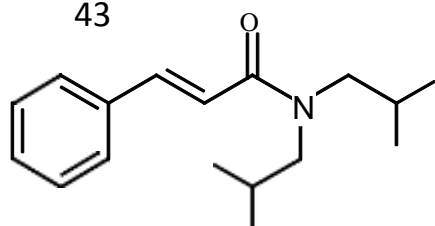
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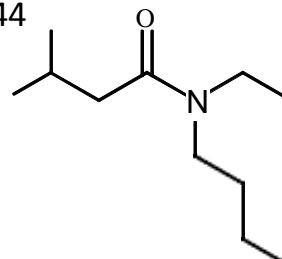
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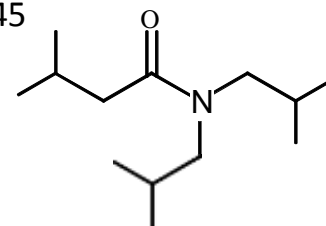
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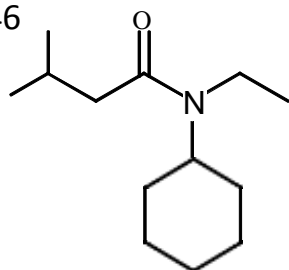
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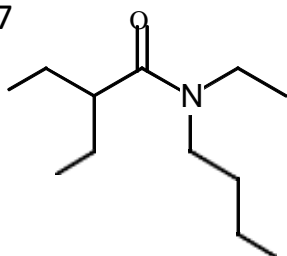
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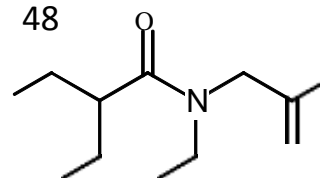
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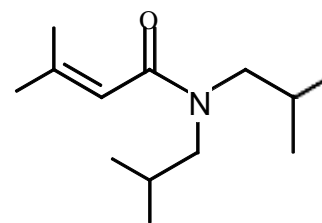
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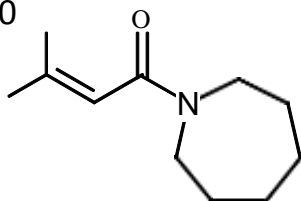
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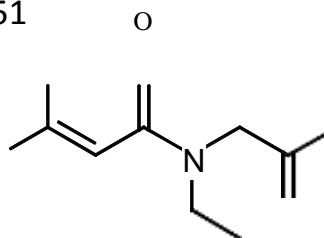
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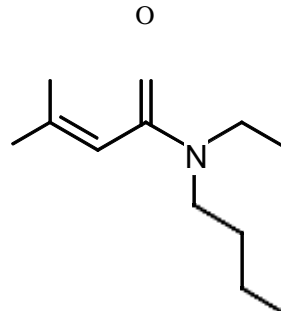
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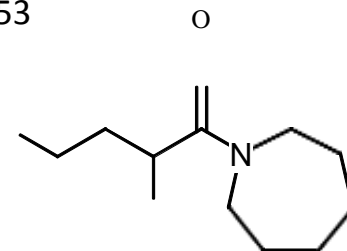




Fig S1-e

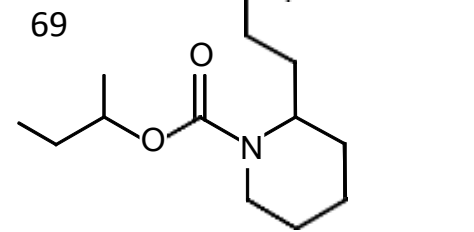
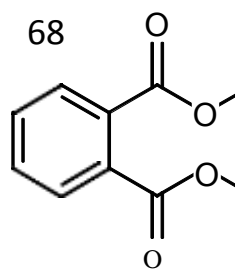
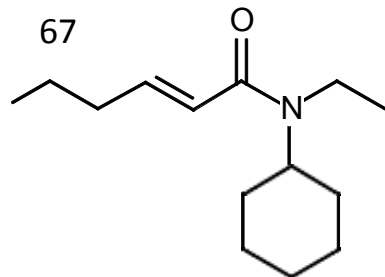
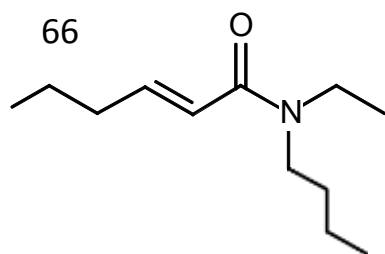
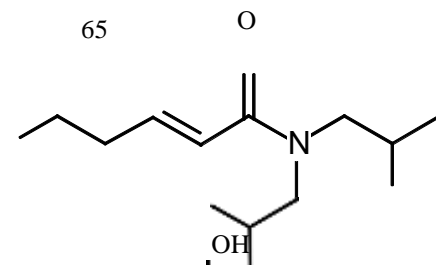
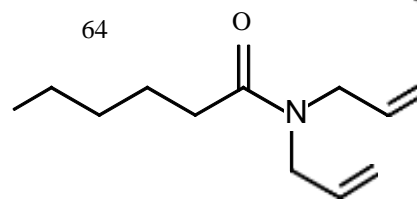
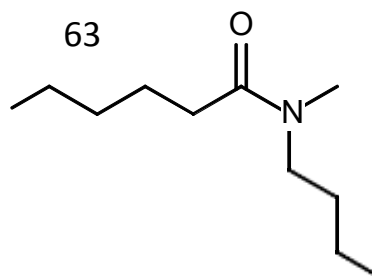
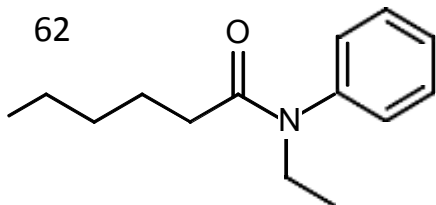
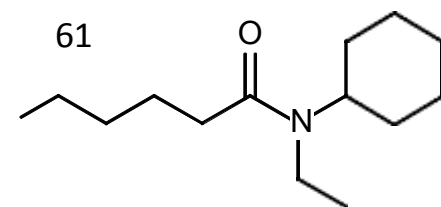
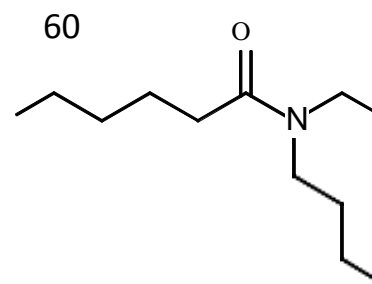
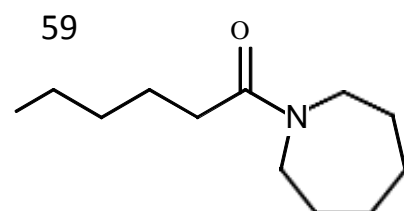
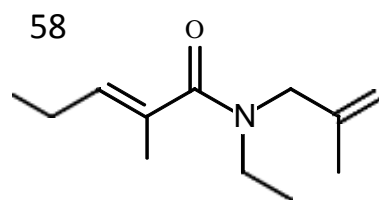
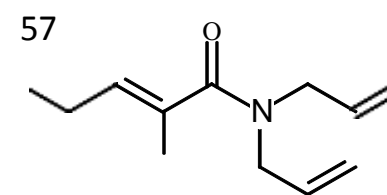
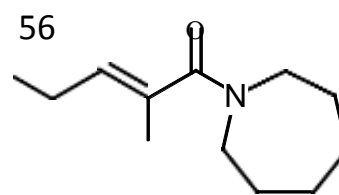
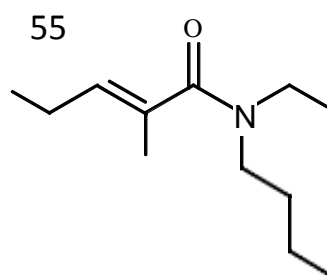
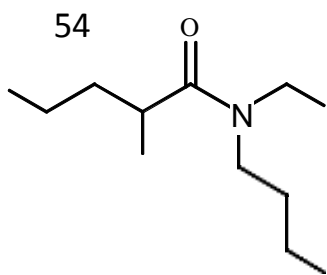
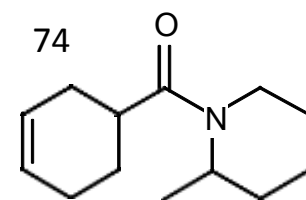
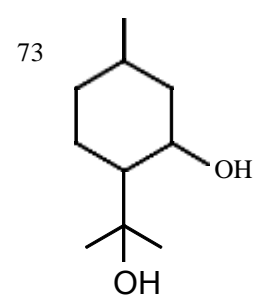
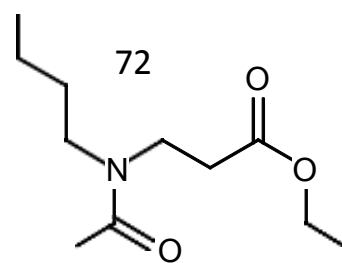
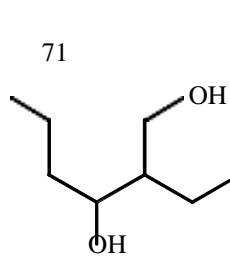
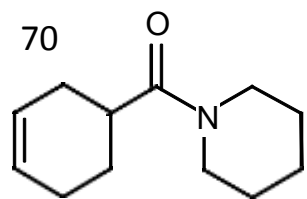
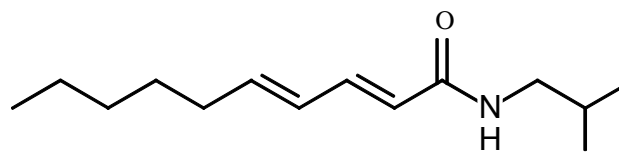


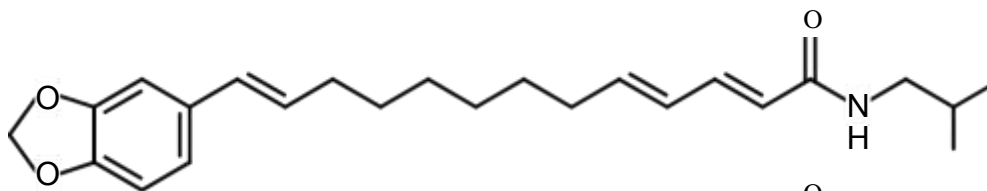
Fig S1-f



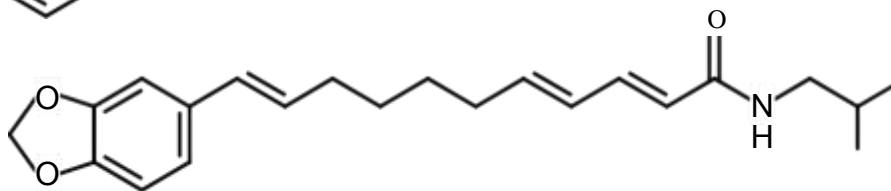
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78

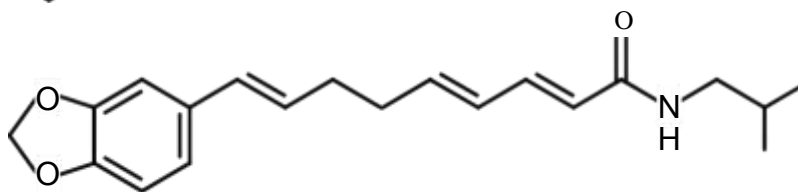


Fig S2

