

Supplementary material

1. Table S1. Pearson's correlation matrix for descriptors collected in Table 1 and the experimental $\text{pIC}_{50} = -\log(\text{IC}_{50})$ values.
2. Table S2-S3. Effect of compound **3a** on cell cycle distribution in the RPMI 8226 and A549 cell lines cultures.
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4. ^1H , ^{13}C NMR and LC-ESI-HRMS spectra of compounds **3a-3h**.
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Table S1. Pearson's correlation matrix for descriptors collected in Table 1 and the experimental $\text{pIC}_{50} = -\log (\text{IC}_{50})$ values.

	logP	HBA	HBD	MW	NRB	TPSA	E_{HOMO}	E_{LUMO}	ΔE	η	S	IP	EA	X	pIC₅₀
logP	1.000														
HBA	-0.450	1.000													
HBD	-0.666	-0.124	1.000												
MW	0.355	0.036	-0.052	1.000											
NRB	-0.615	0.435	0.545	0.133	1.000										
TPSA	-0.864	0.749	0.432	-0.094	0.532	1.000									
E_{HOMO}	-0.128	-0.536	0.571	-0.264	0.078	-0.295	1.000								
E_{LUMO}	0.019	-0.648	0.575	-0.016	0.194	-0.397	0.872	1.000							
ΔE	0.129	-0.623	0.480	0.177	0.249	-0.408	0.626	0.928	1.000						
η	0.128	-0.623	0.481	0.176	0.249	-0.408	0.627	0.928	1.000	1.000					
S	-0.138	0.629	-0.479	-0.156	-0.228	0.412	-0.622	-0.925	-0.999	-0.999	1.000				
IP	0.128	0.536	-0.571	0.264	-0.078	0.295	-1.000	-0.872	-0.626	-0.627	0.622	1.000			
EA	-0.019	0.648	-0.575	0.016	-0.194	0.397	-0.872	-1.000	-0.928	-0.928	0.925	0.872	1.000		
X	0.030	0.630	-0.591	0.100	-0.161	0.375	-0.940	-0.987	-0.854	-0.855	0.851	0.940	0.987	1.000	
pIC₅₀	-0.472	-0.459	0.694	-0.282	0.260	0.134	0.410	0.384	0.298	0.299	-0.295	-0.410	-0.384	-0.404	1.000

Table S2. Effect of compound **3a** on cell cycle distribution in the RPMI 8226 cell line culture. After the treatment with various concentrations of compound 1 for 24 and 48 h, the cells were stained with propidium iodide and analyzed by flow cytometry. * $p < 0.05$, ** $p < 0.01$, and $p < 0.001^{***}$ in comparison to the control; one-way ANOVA test

Concentration (μM)	24 h				48 h			
	Cell cycle distribution [% of cells]							
	Sub-G1	G0/G1	S	G2	Sub-G1	G0/G1	S	G2
0	11.56±5.5	41.93±6.15	26.36±2.04	20.35±3.78	8.6±2.85	40.57±1.8	28.8±1.53	22.71±1.92
2.5	15.53±2.23	41.14±1.03	21.59±1.77	22.35±1.19	21.49±0.94**	35.8±1.49	26.22±0.97	16.99±2
5	21.32±6.2*	38.23±6.83	18.68±2.58	21.31±4.02	25.53±7.59***	40.3±3.15	19.12±2.51	15.23±5.04
10	23.53±7.04**	38.08±9.38	21.4±3.5	17.45±2.75	28.01±5.09***	38.5±2.77	18.61±4.5	18.78±2.32
20	24.09±2.62**	42.63±4.03	19.83±2.92	15.7±5.79	29.68±10.49***	31.66±10.94	20.74±2.14	17.47±1.42

Table S3. Effect of compound **3a** on cell cycle distribution in the A549 cell line culture. After the treatment with various concentrations of compound 1 for 24 and 48 h, the cells were stained with propidium iodide and analyzed by flow cytometry. * $p < 0.05$, and $p < 0.001^{***}$ in comparison to the control; one-way ANOVA test

Concentration (μM)	24 h				48 h			
	Cell cycle distribution [% of cells]							
	sub-G1	G0/G1	S	G2/M	sub-G1	G0/G1	S	G2/M
0	8.29±4.27	64.55±2.73	13.13±2.69	14.49±2.12	13.81±4.87	70.70±6.85	7.22±2.75	8.41±1.53
2.5	8.81±3.73	64.49±1.89	12.39±2.34	14.68±2.11	11.98±3.62	73.22±1.97	6.07±1.54	8.91±2.22
5	8.94±3.39	65.90±2.36	12.18±2.45	13.62±2.25	15.74±6.03	68.55±8.03	6.81±2.66	9.05±1.72
10	13.23±7.01	66.51±4.46	9.82±2.73	11.43±2.88	16.15±6.33	68.54±6.87	7.07±2.63	8.44±1.47
20	22.36±12.24***	66.45±9.20	5.23±2.38*	7.16±2.15	27.32±6.78***	63.07±6.59*	4.61±1.21	5.19±0.93
40	35.46±9.33***	41.03±2.93***	11.34±0.58	12.87±5.29	75.27±4.12***	16.49±3.46***	6.05±0.87	2.19±0.38

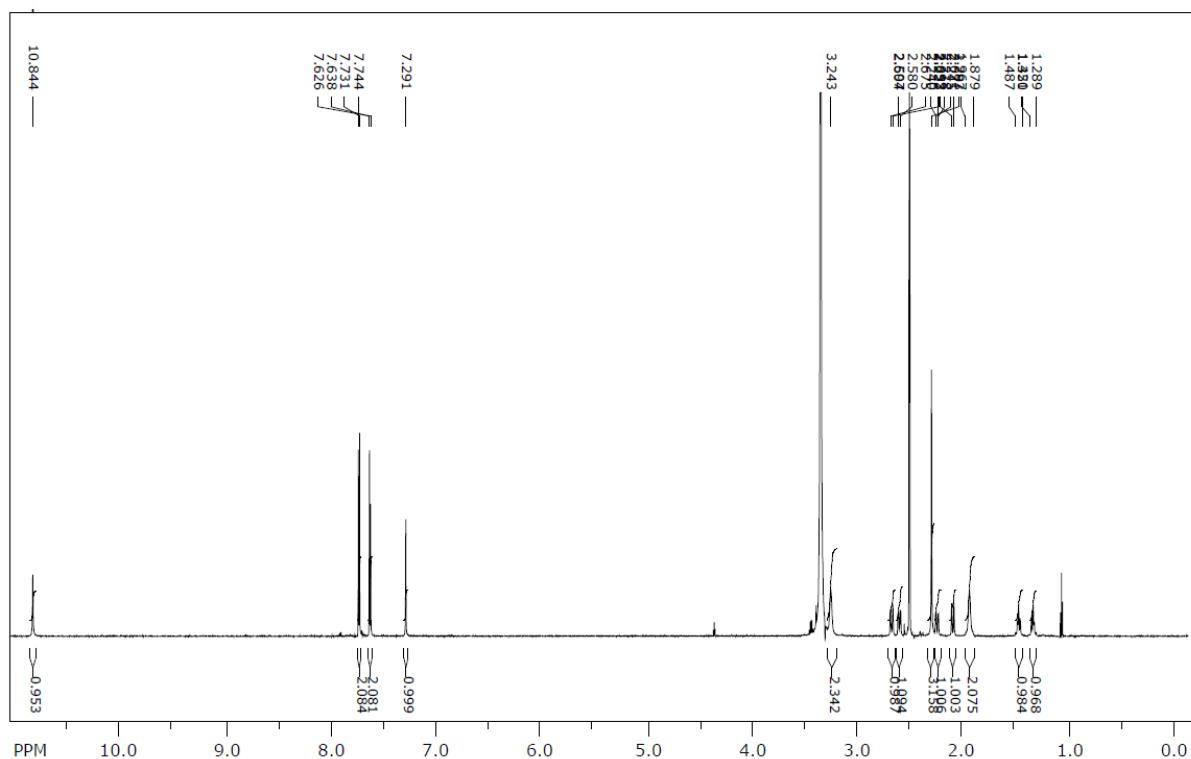
Table S4. Effects of compound **3a** on apoptosis (early + late apoptosis) induction in the RPMI 8226 cells. After the 24-h and 48-h exposure, the cells were stained with AnnexinV-FITC/propidium iodide and examined with flow cytometry. Statistically significant at $p < 0.01^{**}$ or at $p < 0.001^{***}$ in comparison to the vehicle control; one-way ANOVA test.

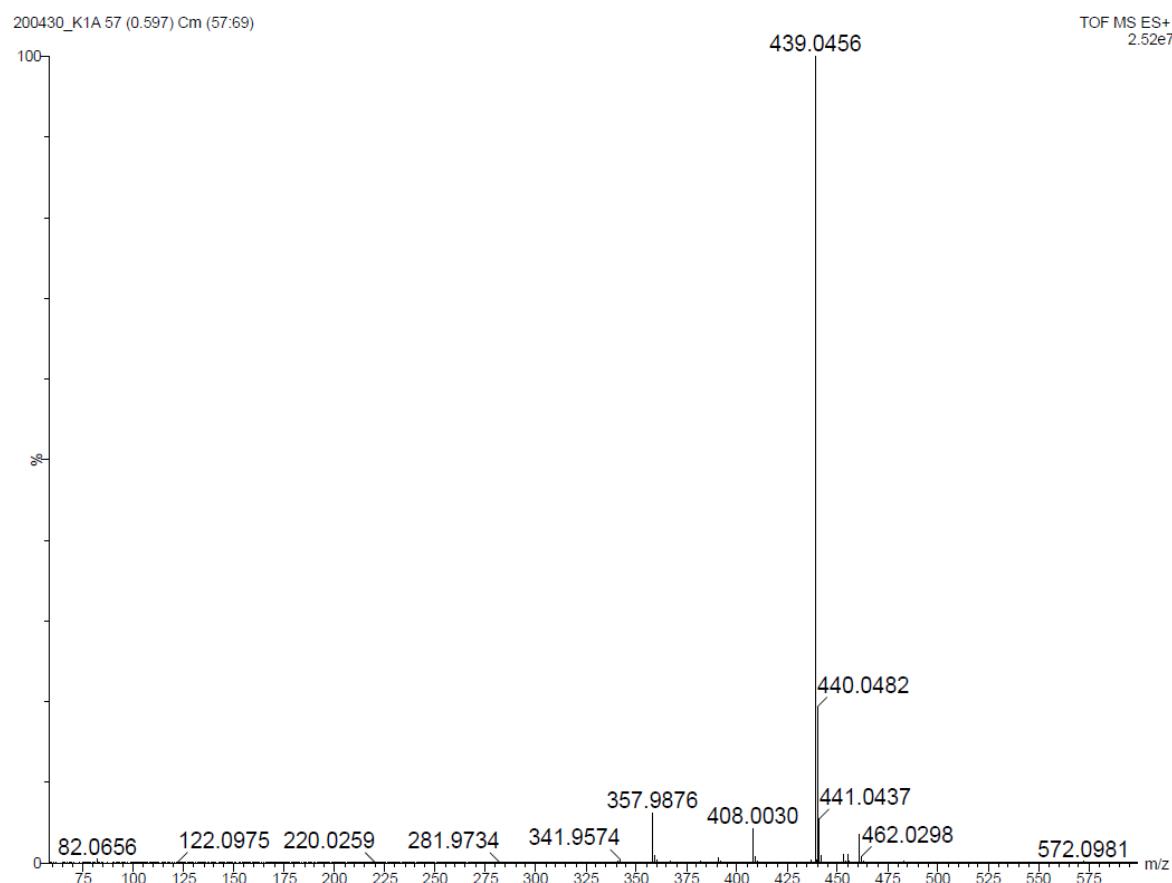
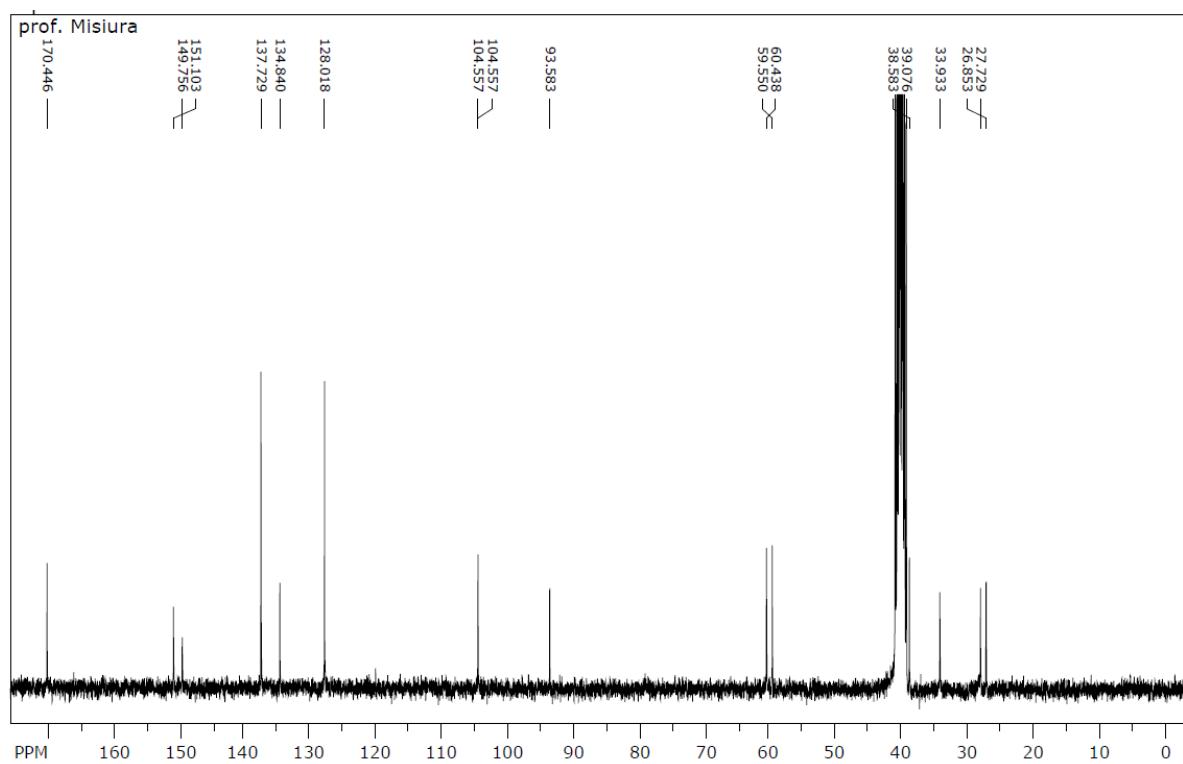
Concentration [μM]	24 hours		48 hours	
	Apoptosis [% of cells ± SD]	Necrosis [% of cells ± SD]	Apoptosis [% of cells ± SD]	Necrosis [% of cells ± SD]
0	14.33 ± 0.87	5.03 ± 0.86	12.99 ± 2.44	5.48 ± 2.25
2.5	19.53 ± 2.64**	3.62 ± 0.87	20.93 ± 1.83***	5.54 ± 0.44
5	22.23 ± 6.01***	6.35 ± 2.57	31.71 ± 11.36***	7.53 ± 2.61
10	39.58 ± 9.33***	9.94 ± 2.73	58.25 ± 21.57***	11.08 ± 5.38
20	60.41 ± 0.99***	18.5 ± 2.38***	76.93 ± 14.34***	20.18 ± 11.99***

Table S5. Effects of compound **3a** on apoptosis (early + late apoptosis) induction in the A549 cells. After the 24-h and 48-h exposure, the cells were stained with AnnexinV-FITC/propidium iodide and examined with flow cytometry. Statistically significant at $p < 0.01^{**}$ or at $p < 0.001^{***}$ in comparison to the vehicle control; one-way ANOVA test.

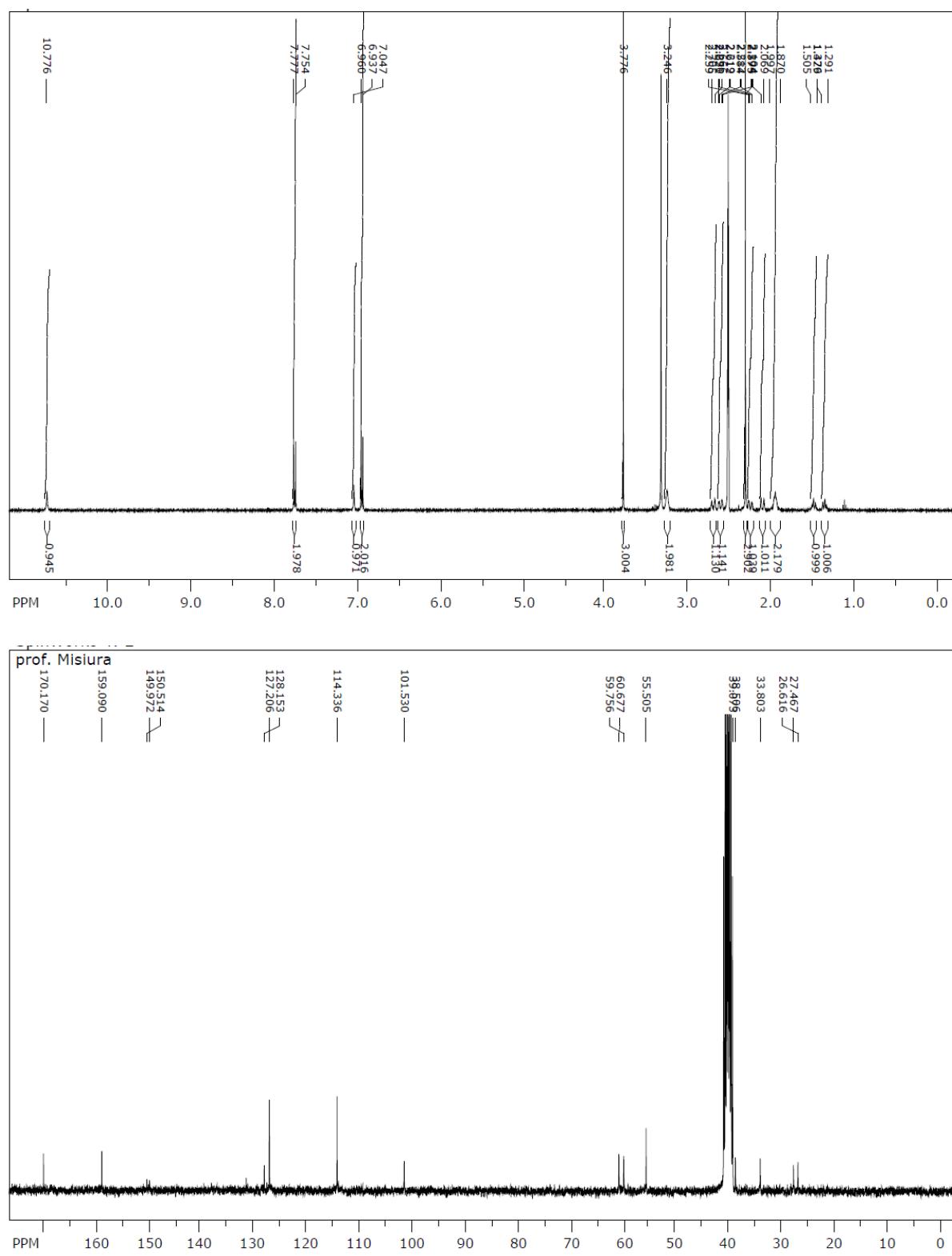
Concentration [μM]	24 hours		48 hours	
	Apoptosis [% of cells \pm SD]	Necrosis [% of cells \pm SD]	Apoptosis [% of cells \pm SD]	Necrosis [% of cells \pm SD]
0	14.14 \pm 1.77	4.72 \pm 1.29	13.65 \pm 3.71	5.01 \pm 2.20
2.5	14.30 \pm 2.21	4.79 \pm 1.14	18.41 \pm 3.95	4.11 \pm 1.44
5	14.82 \pm 2.42	4.40 \pm 1.66	22.48 \pm 8.36	4.93 \pm 4.26
10	18.18 \pm 2.52	4.87 \pm 1.35	27.17 \pm 11.71 **	4.09 \pm 2.58
20	23.43 \pm 4.57 **	4.56 \pm 1.90	40.20 \pm 9.87 ***	4.87 \pm 3.04
40	73.96 \pm 19.94 ***	7.89 \pm 1.10	89.43 \pm 6.65 ***	8.81 \pm 6.51

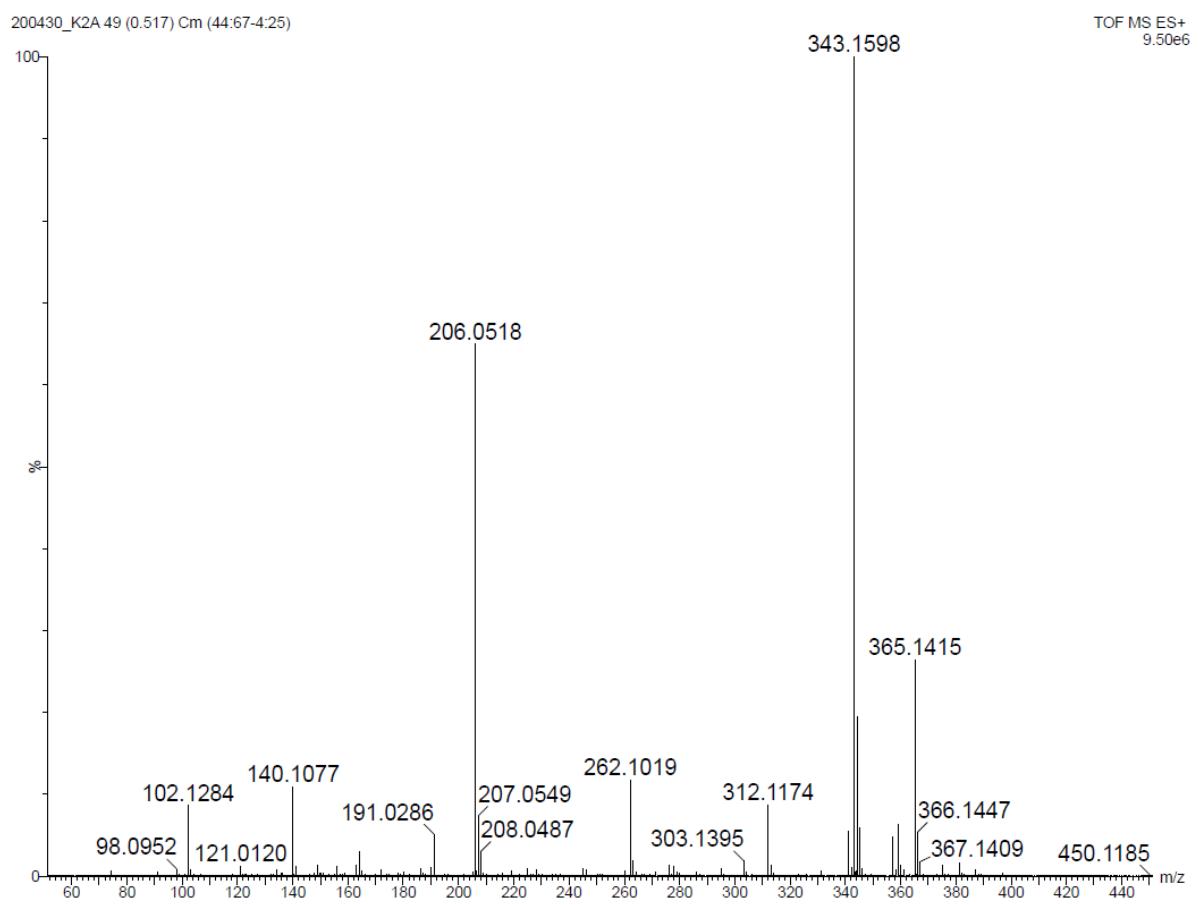
3a



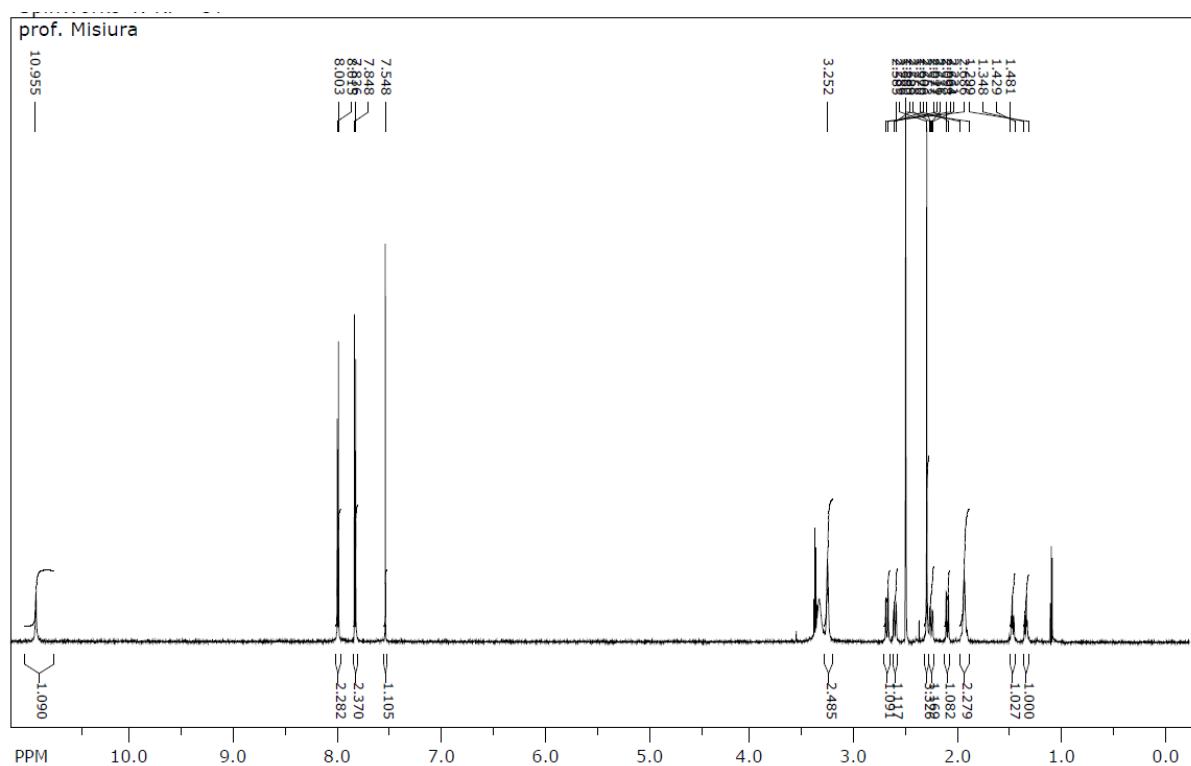


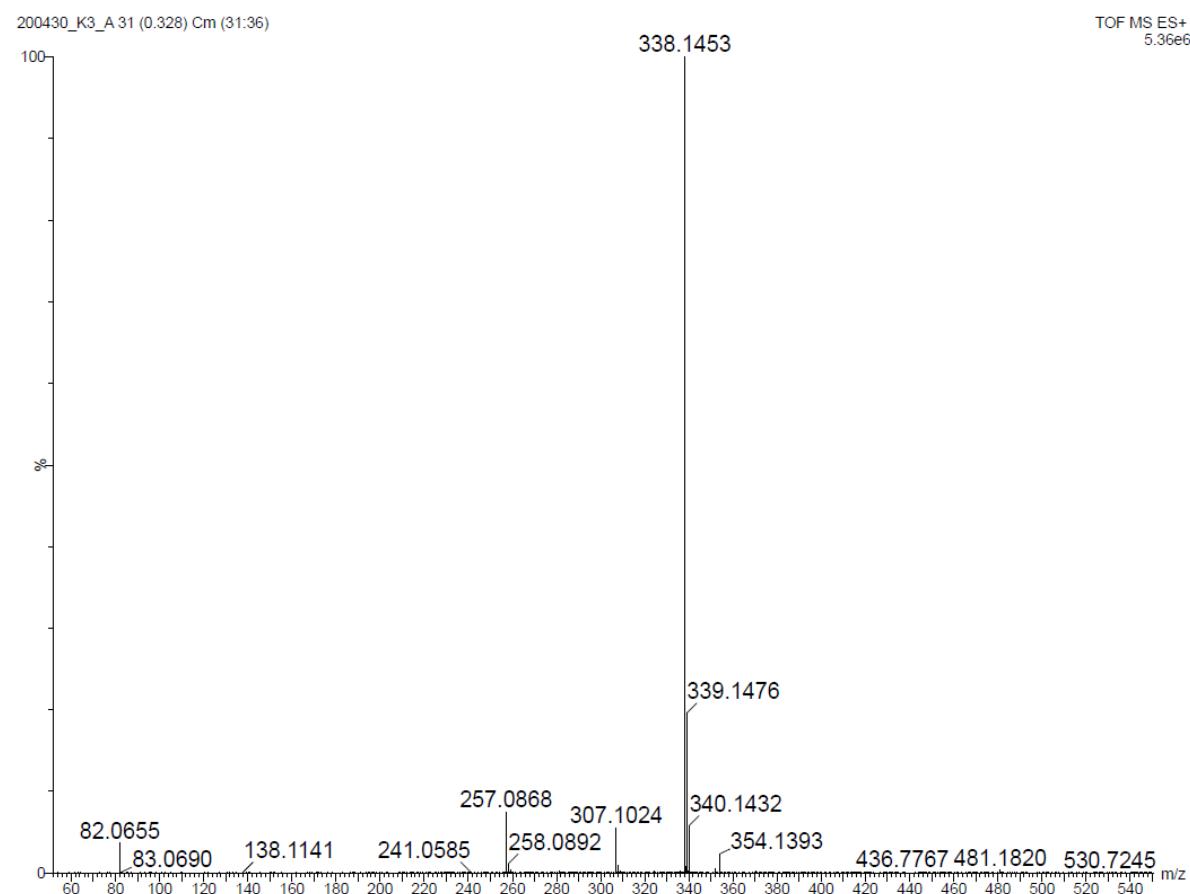
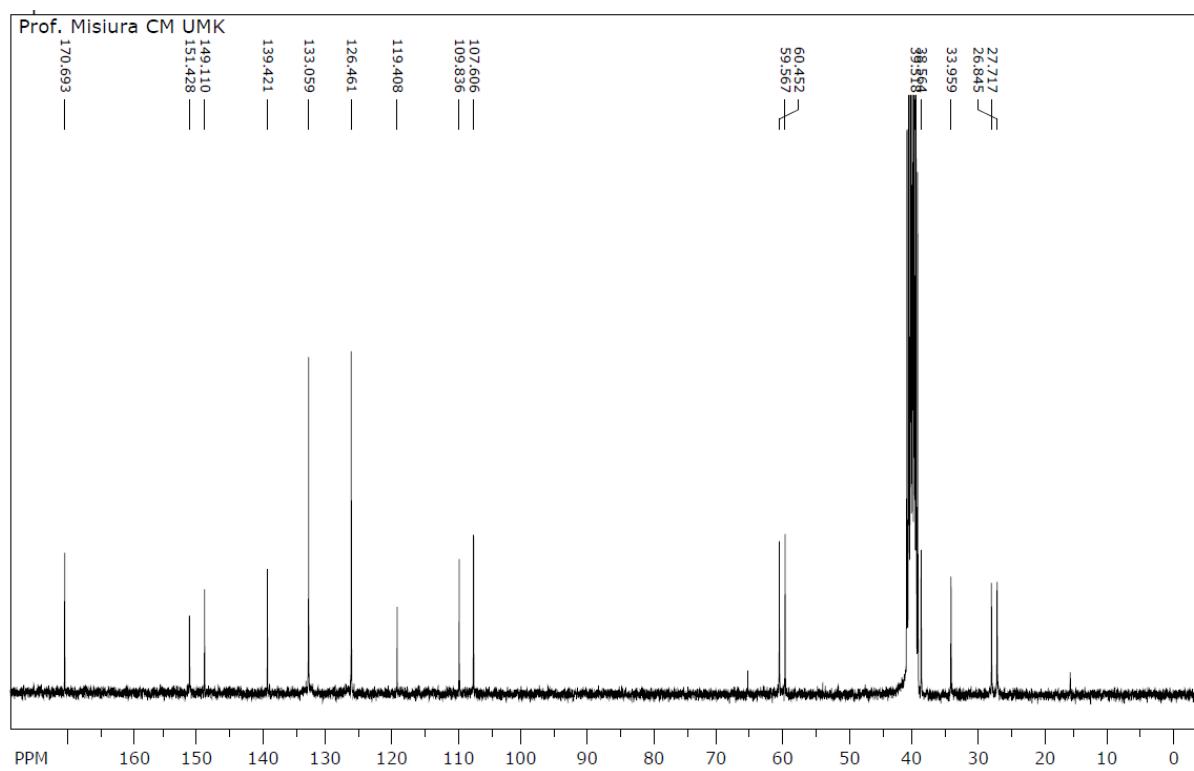
3b



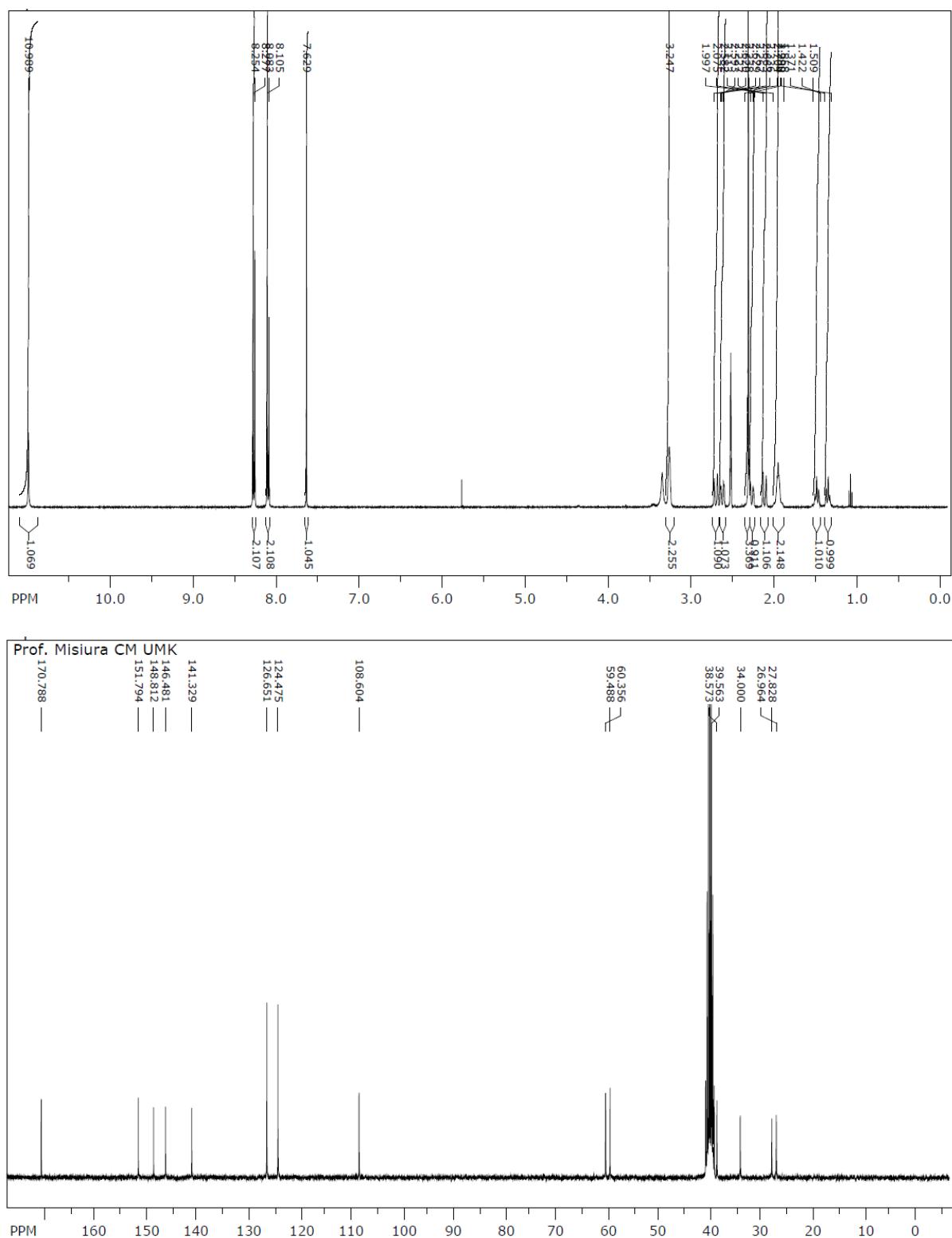


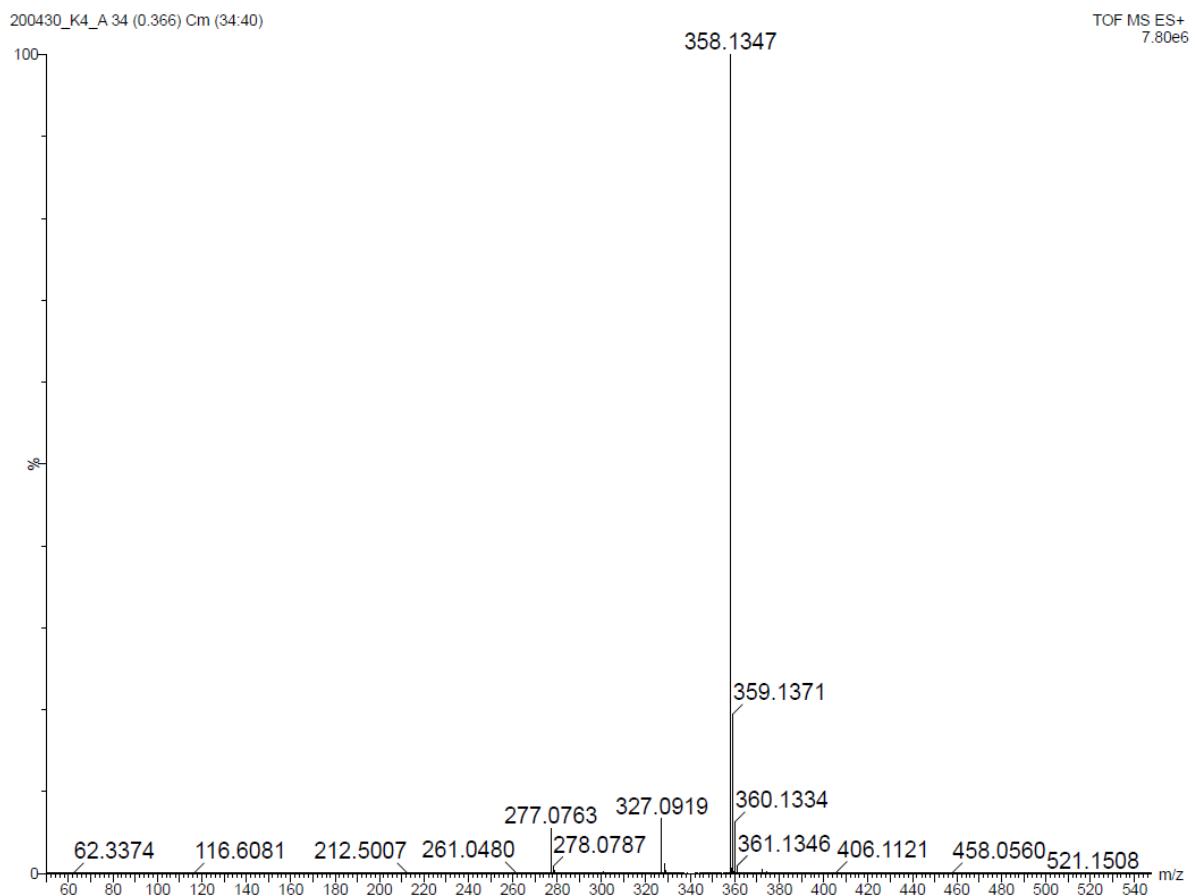
3c



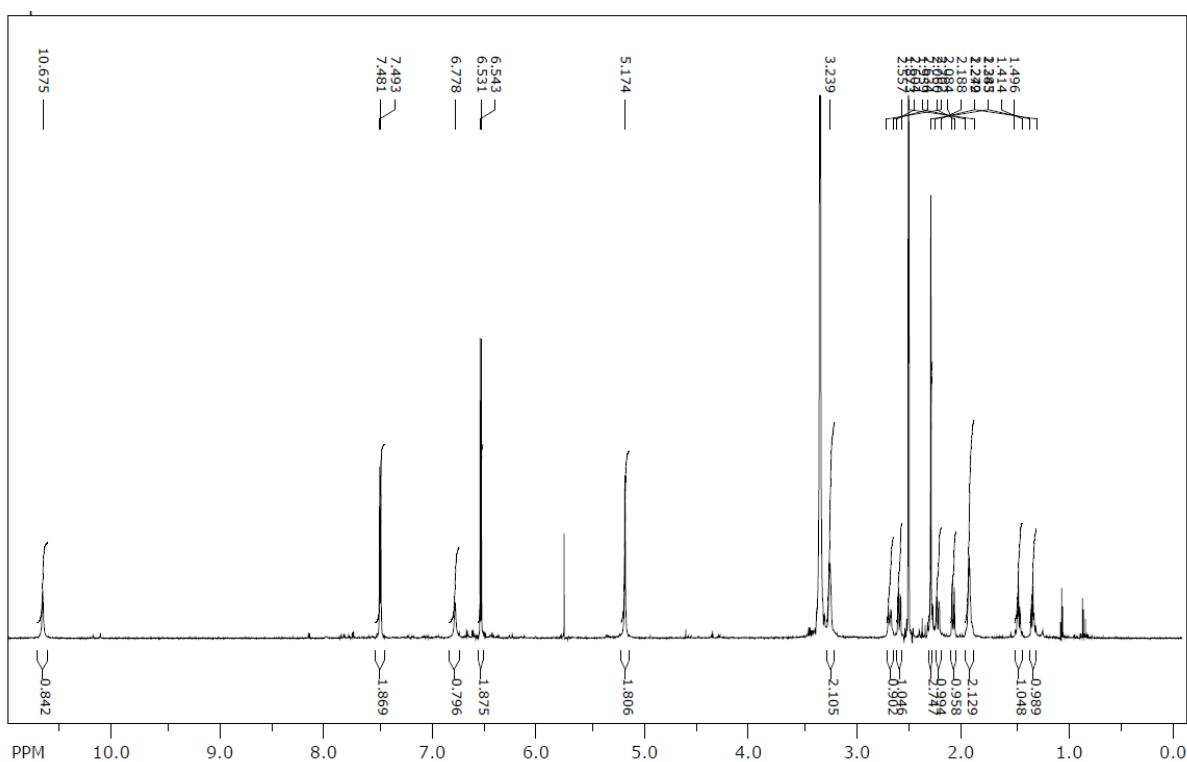


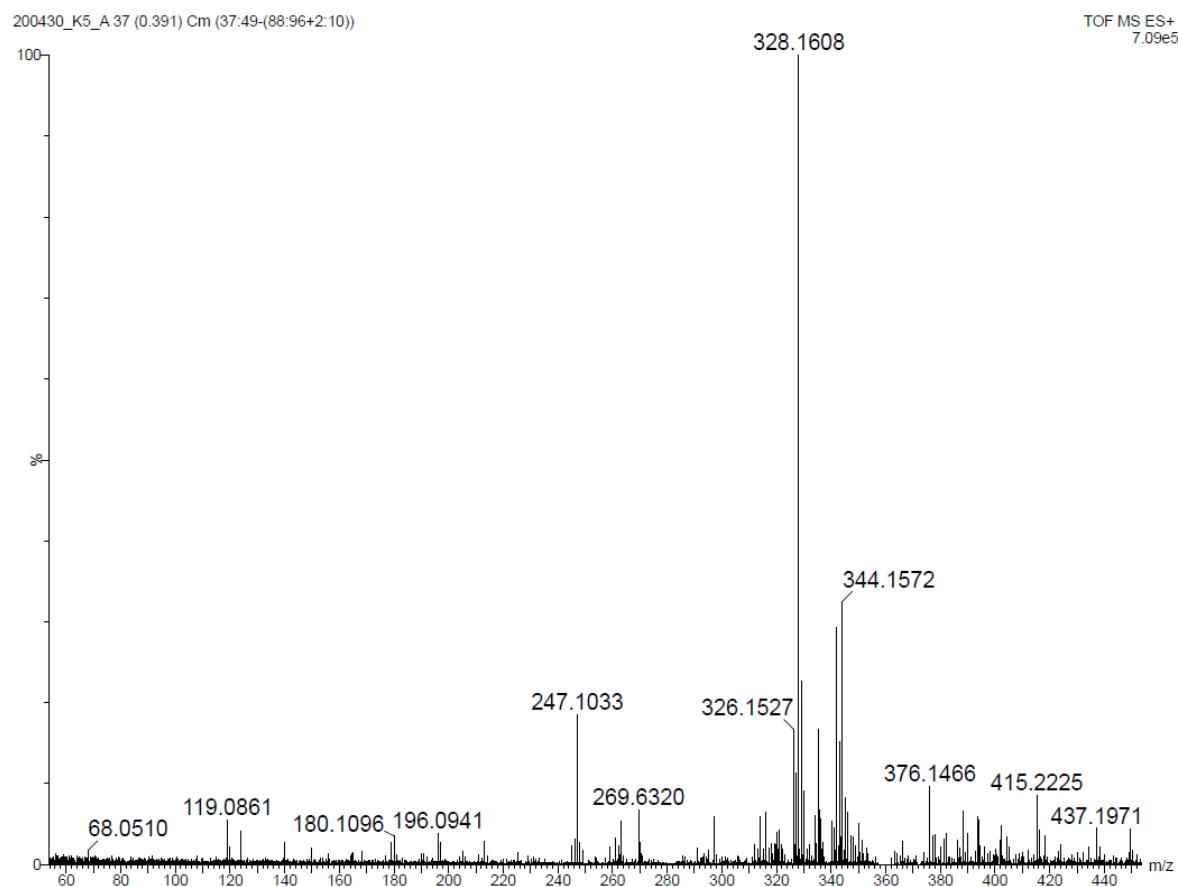
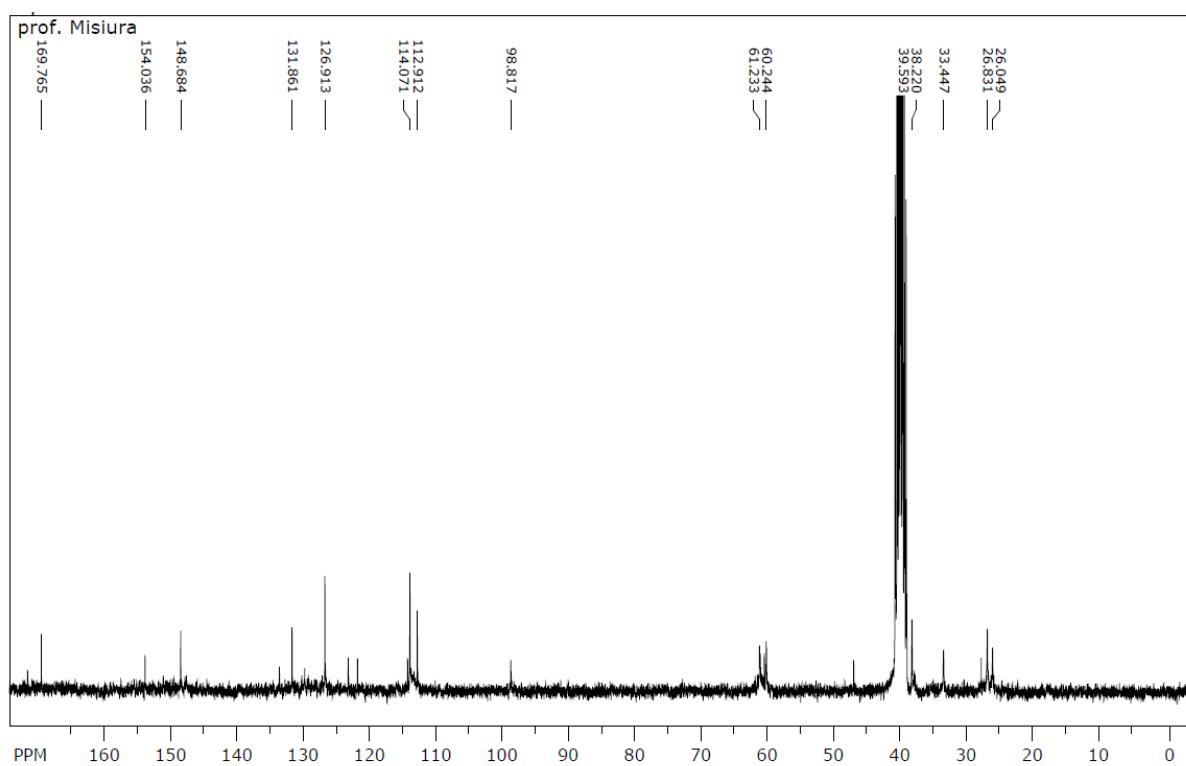
3d



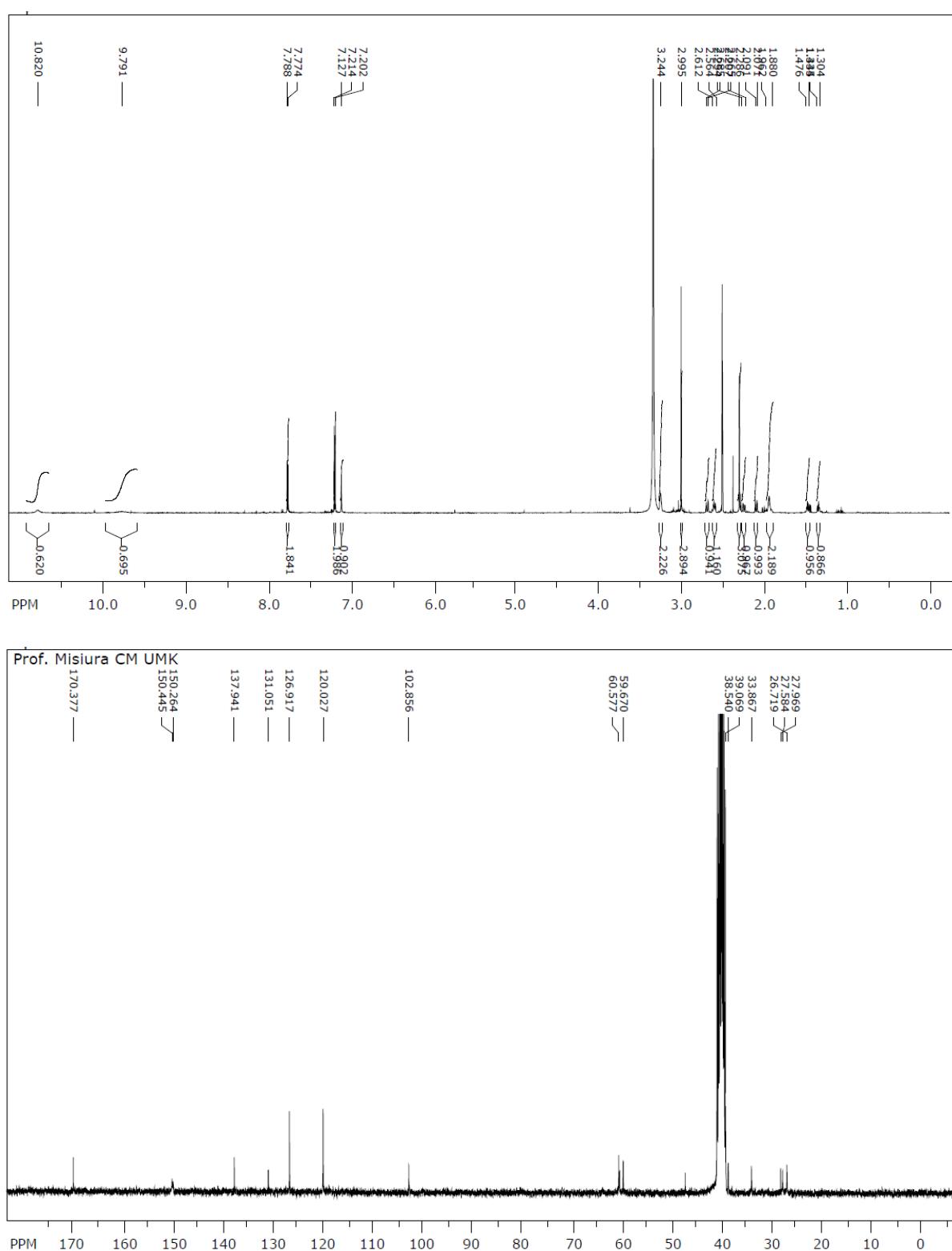


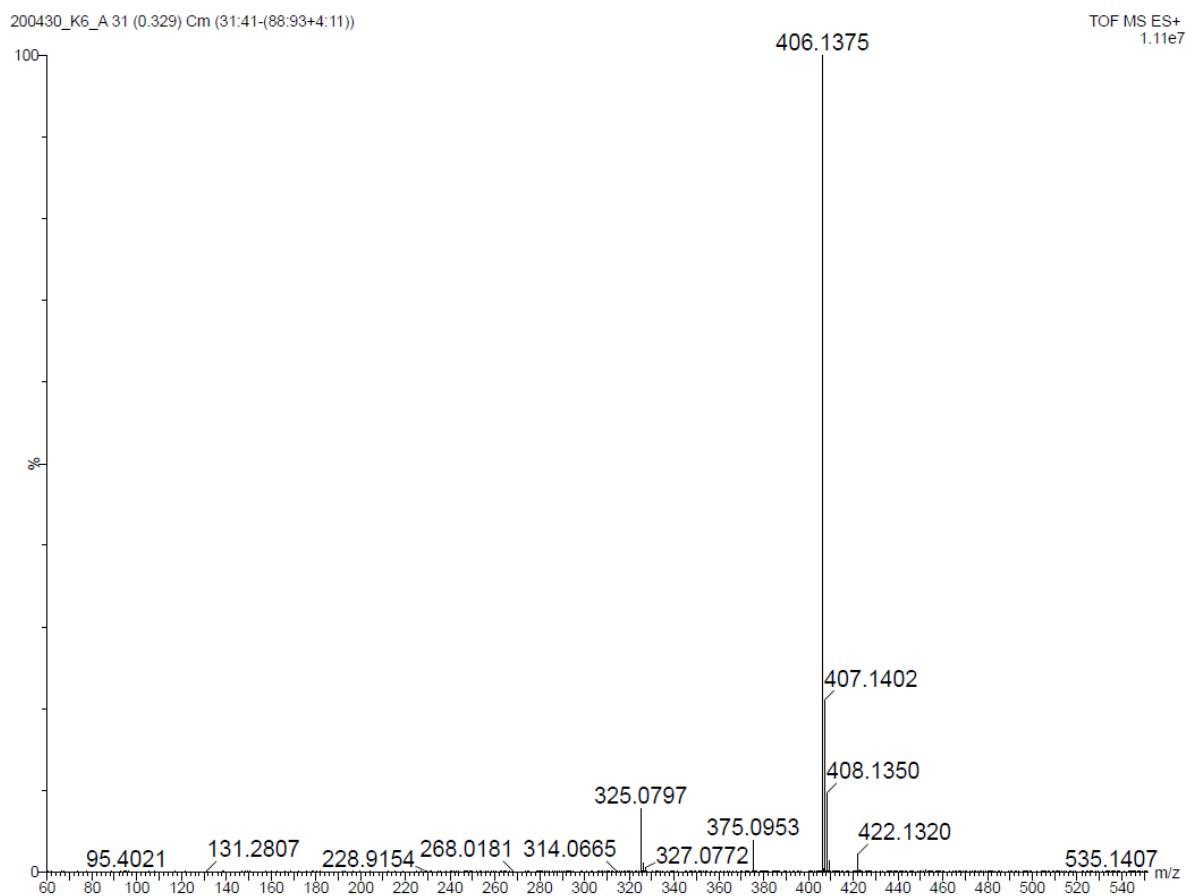
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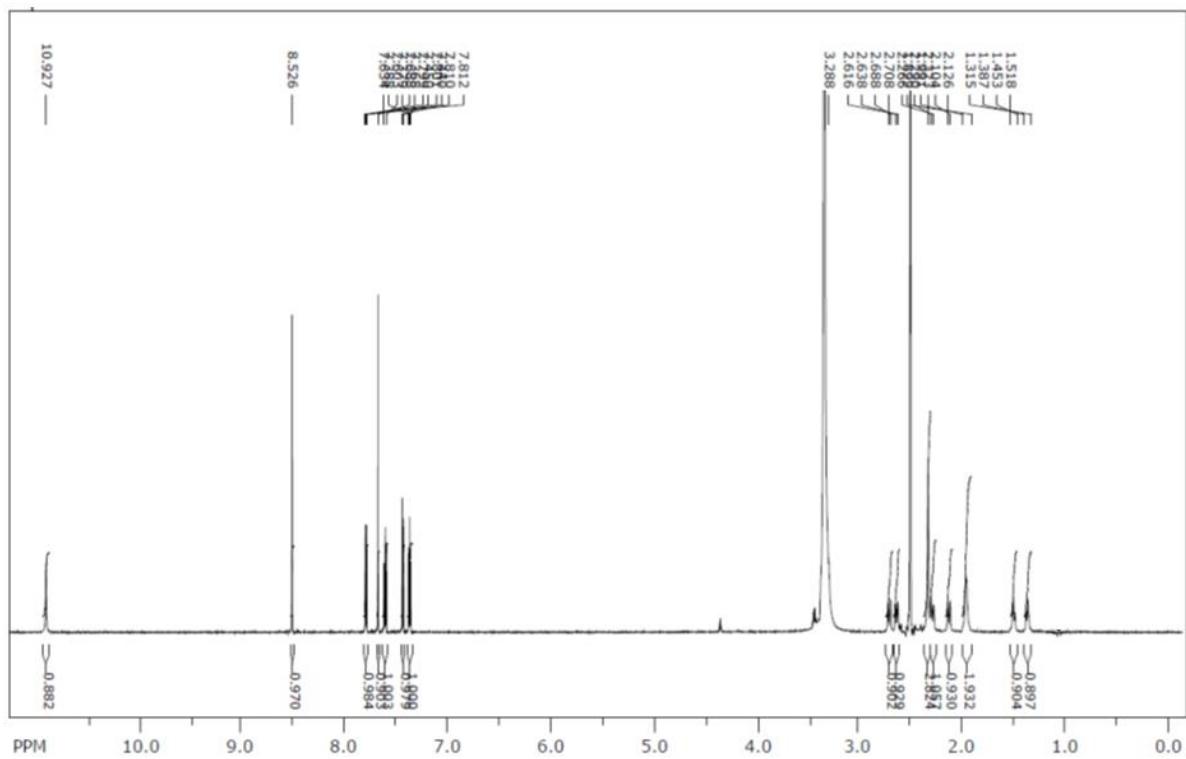


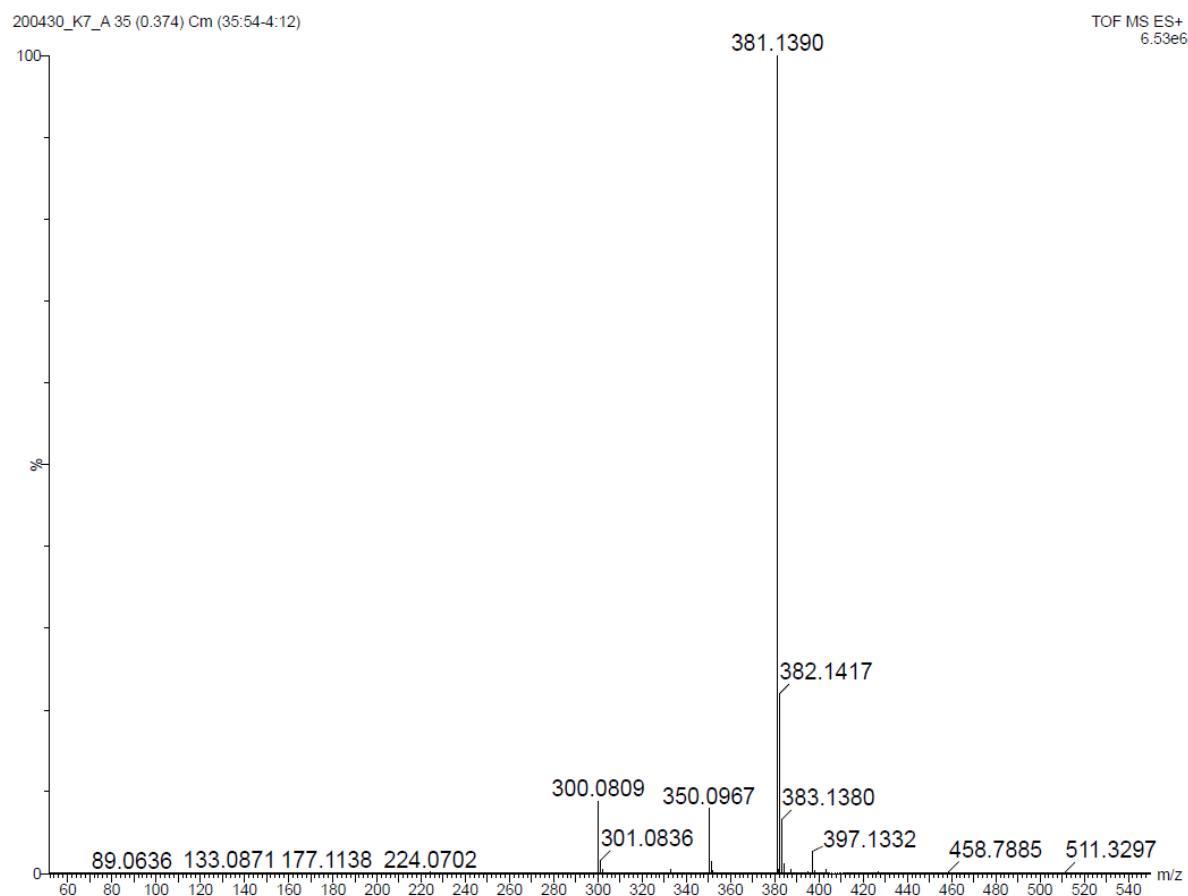
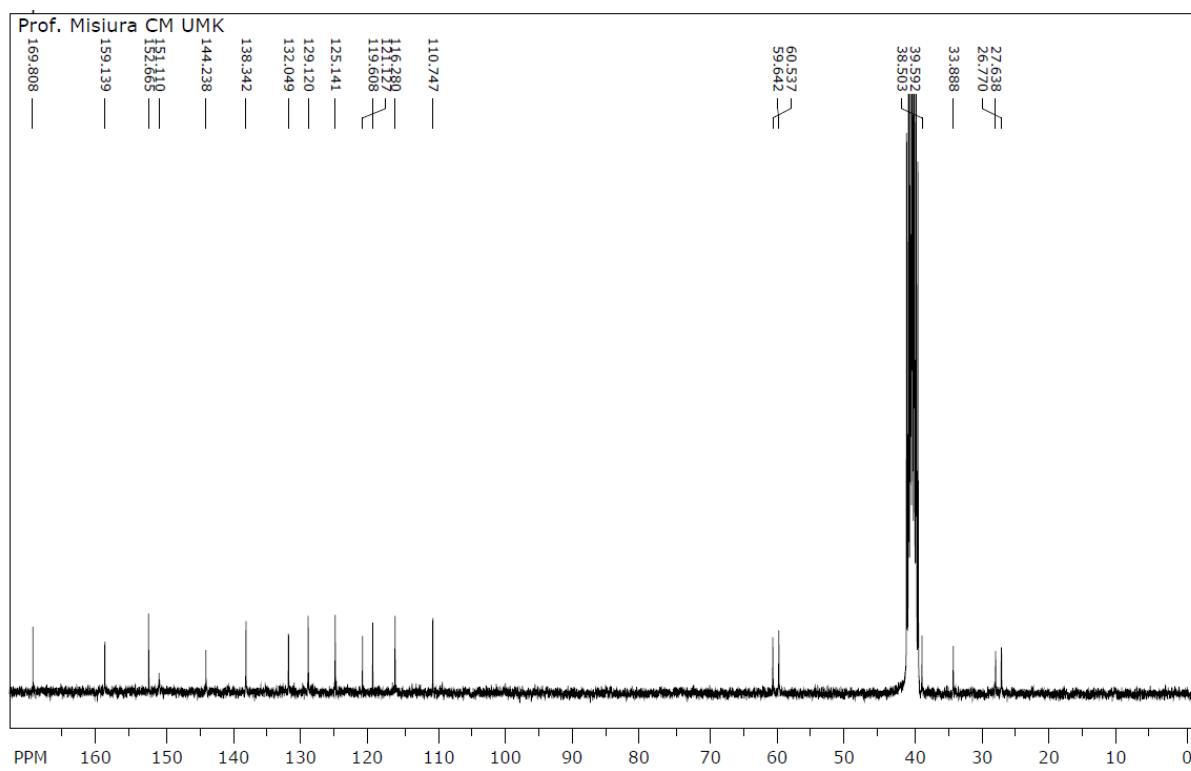
3f



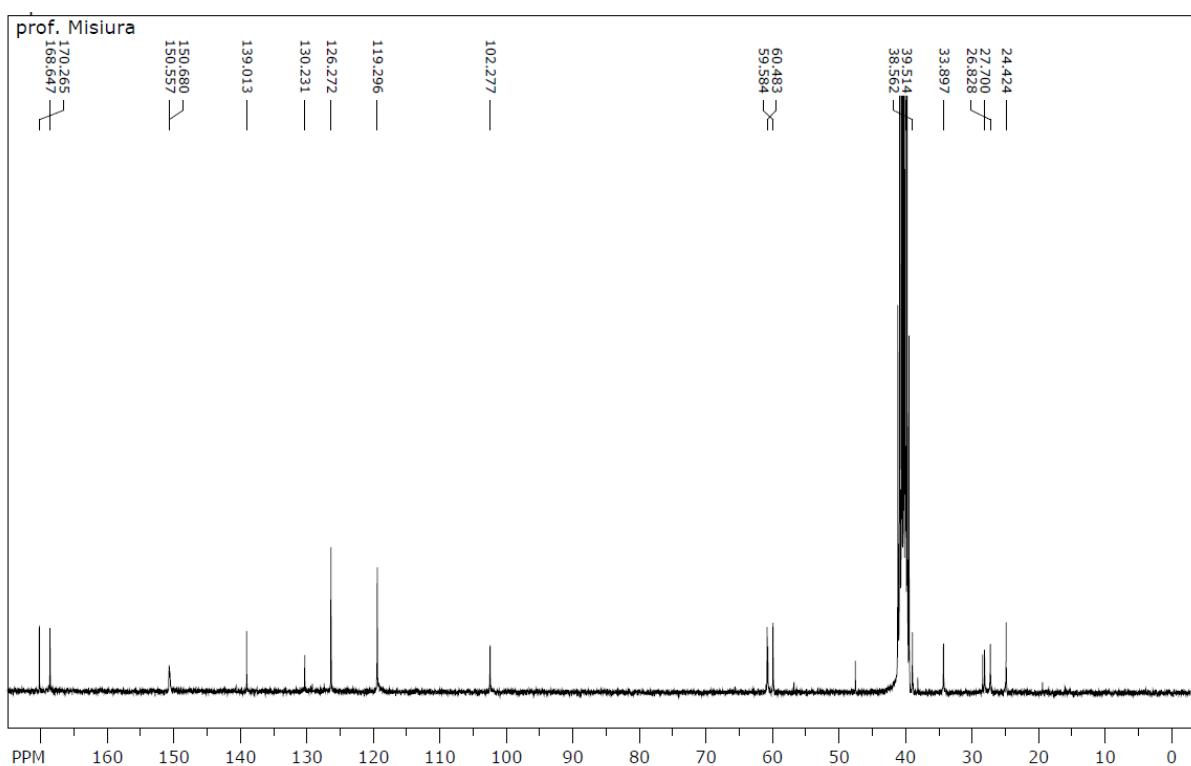
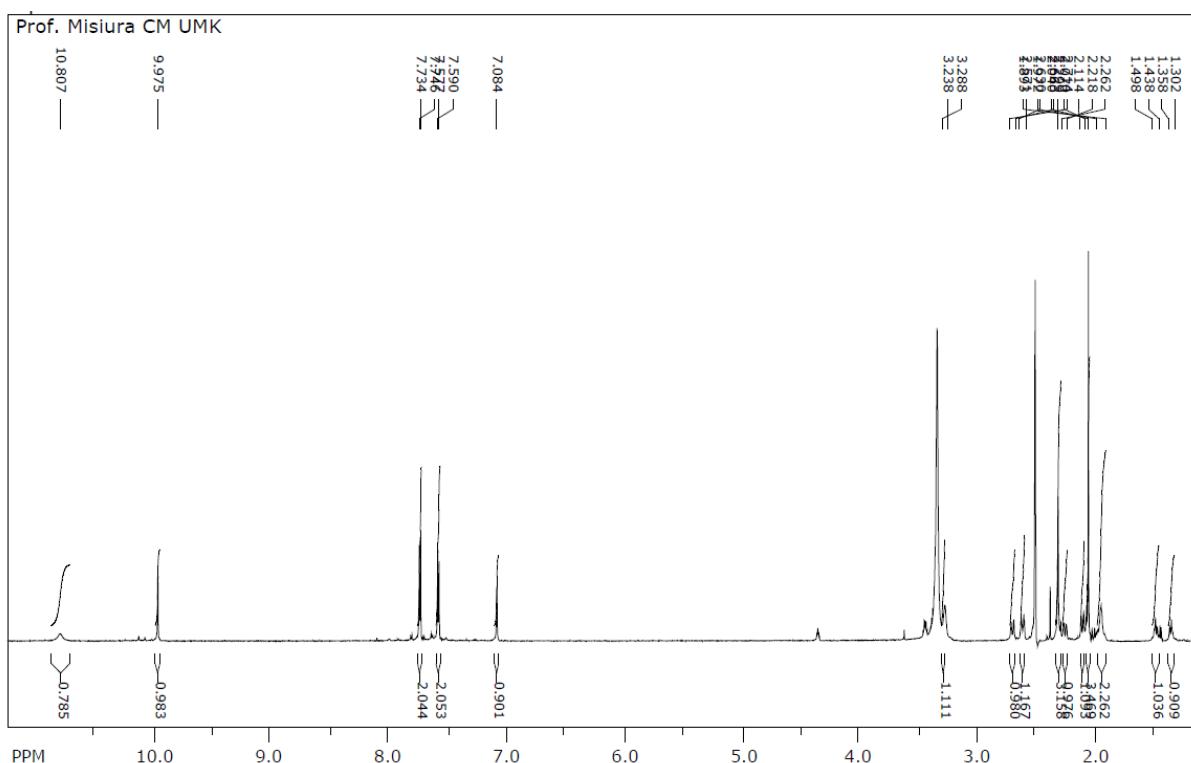


3g



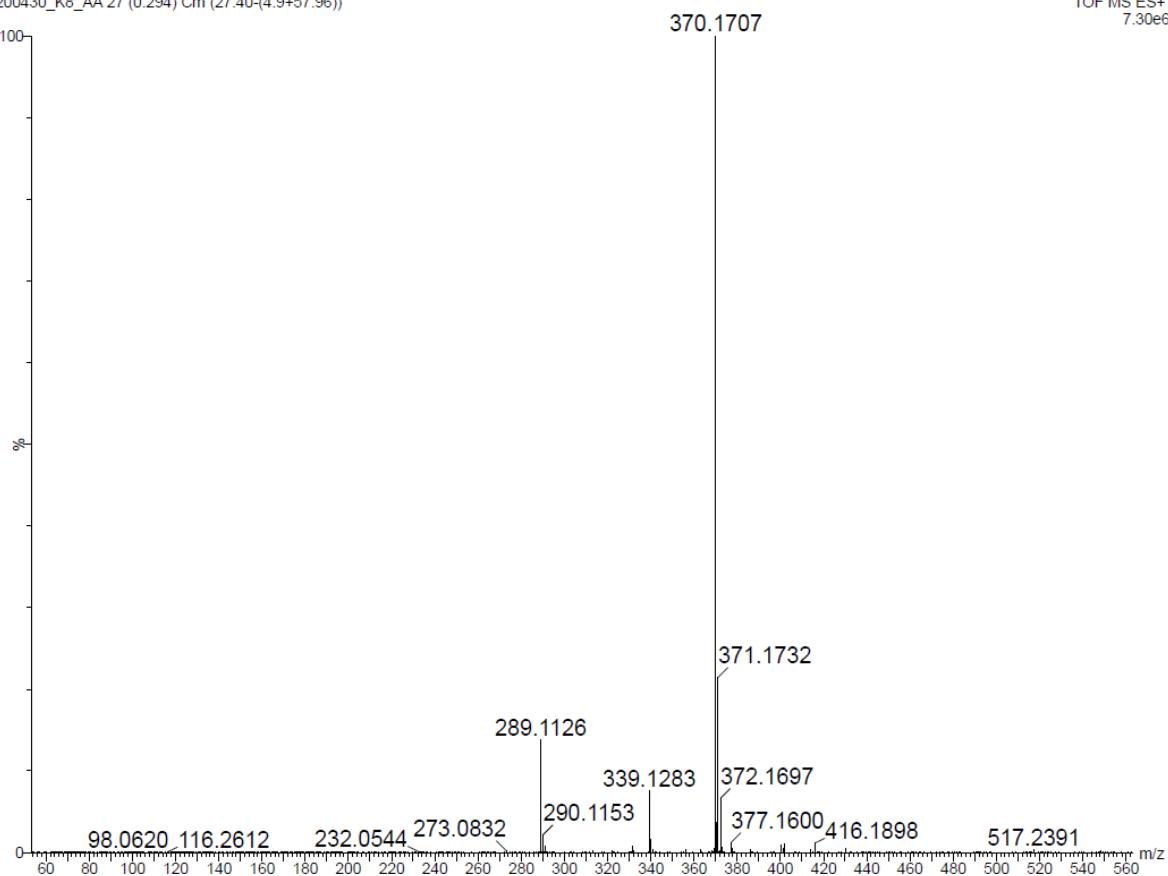


3h

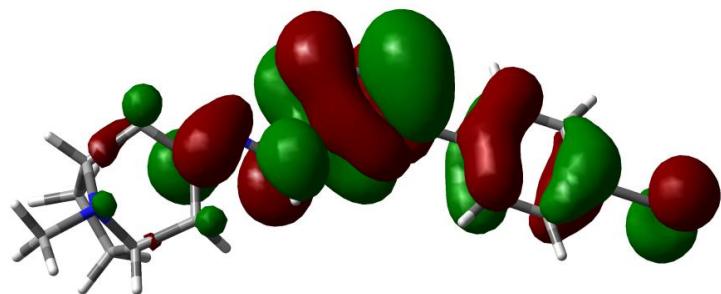


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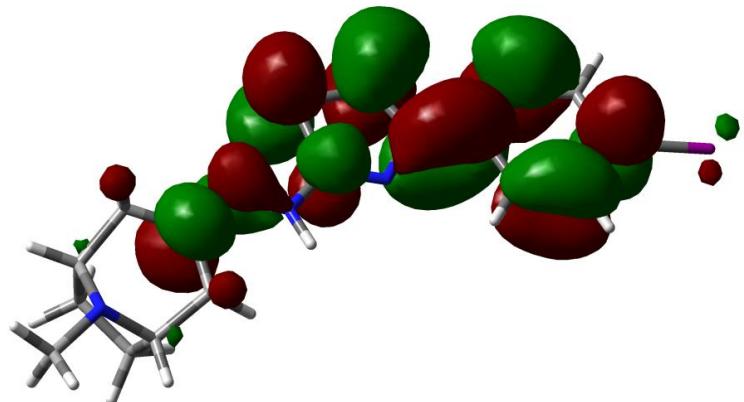
TOF MS ES+
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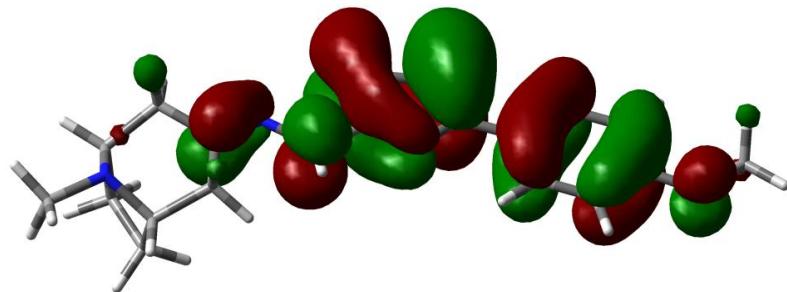
3a-HOMO



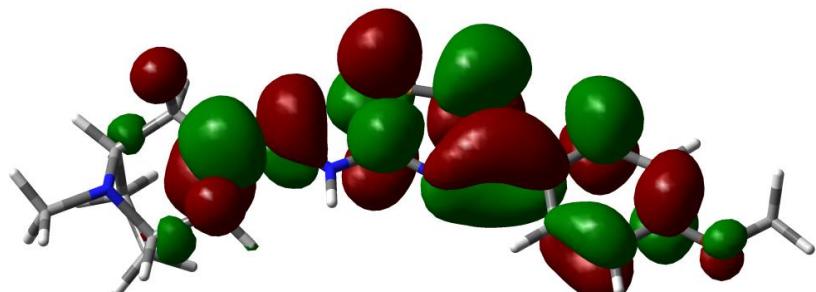
3a-LUMO



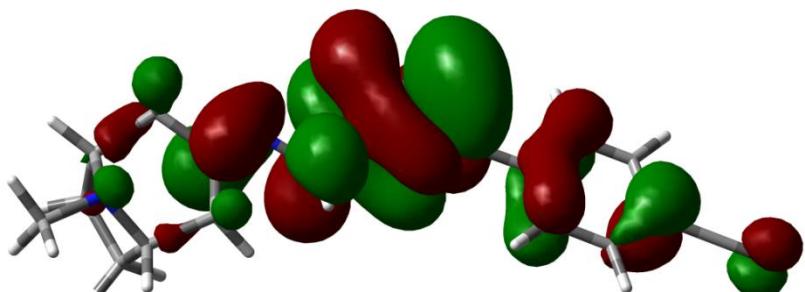
3b-HOMO



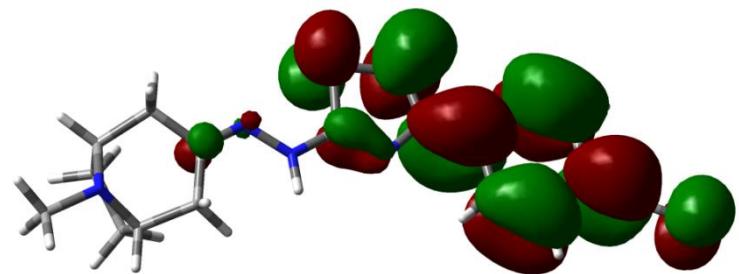
3b-LUMO



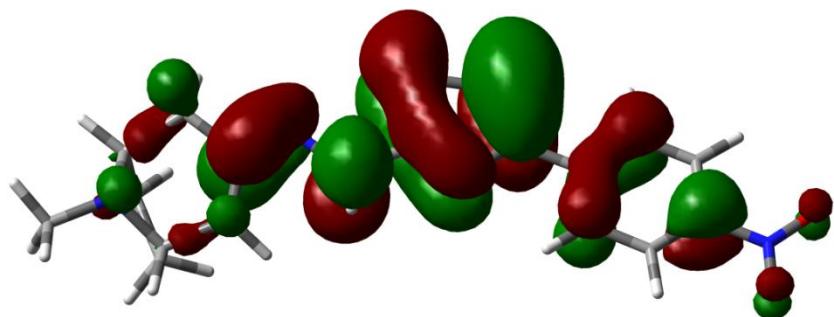
3c-HOMO



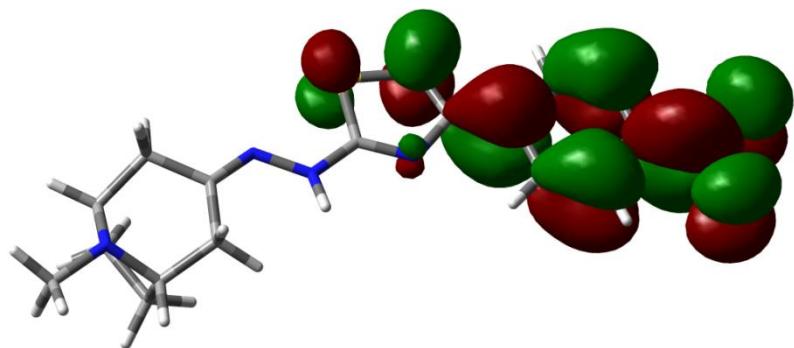
3c-LUMO



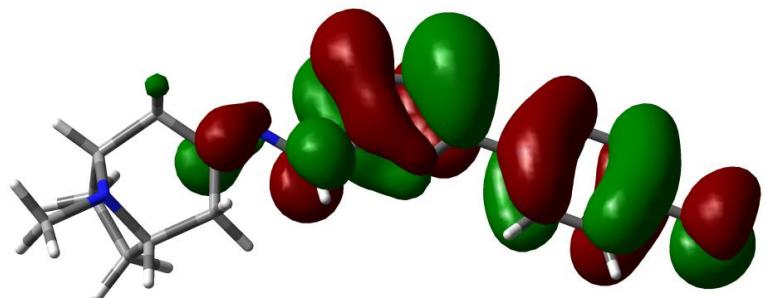
3d-HOMO



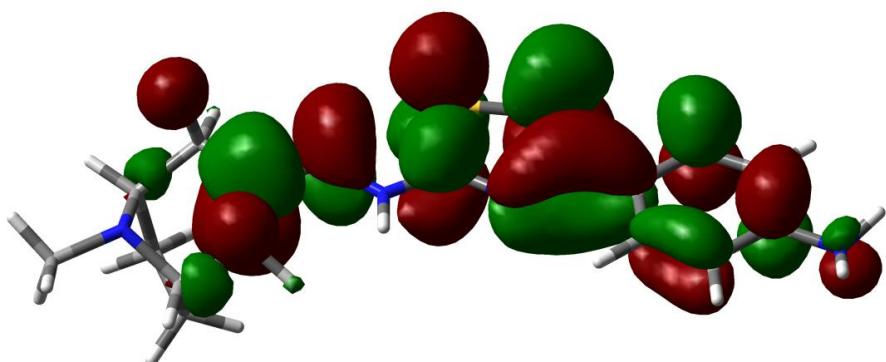
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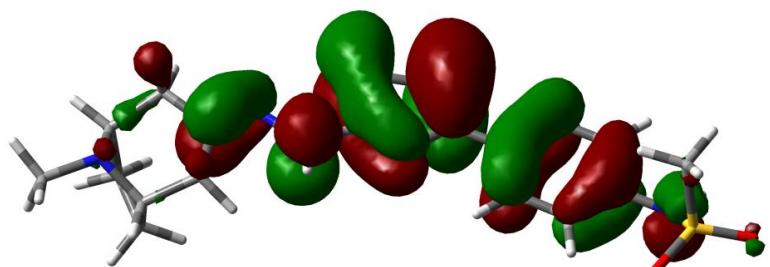
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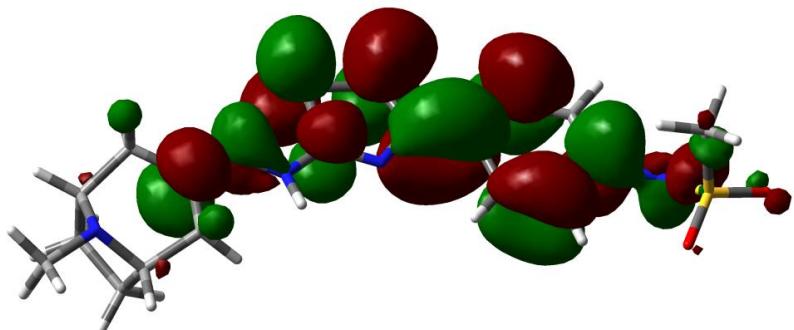
3e-LUMO



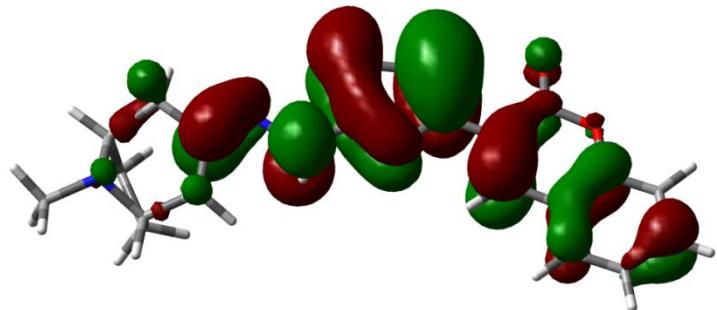
3f-HOMO



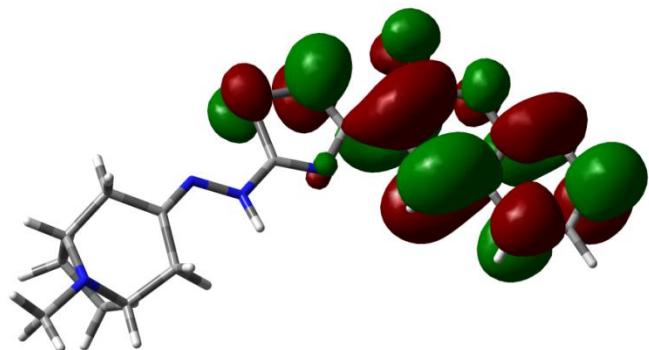
3f-LUMO



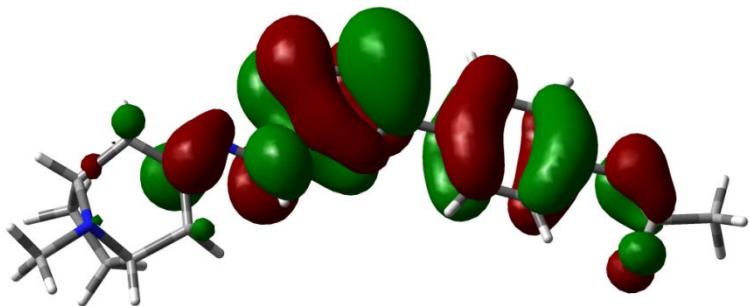
3g-HOMO



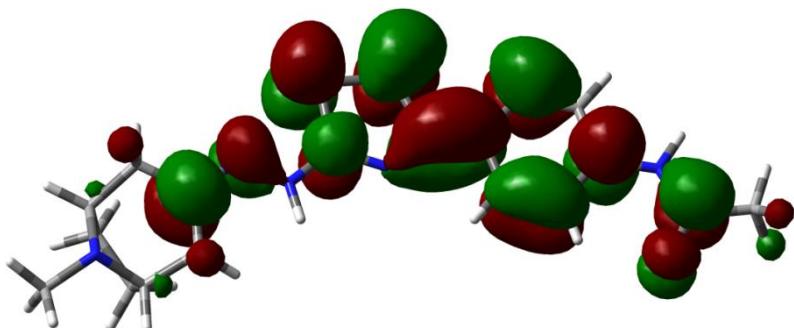
3g-LUMO



3h-HOMO



3h-LUMO



Geometrical parameters of the investigated compounds **3a-3h**.

3a

C	6.219519	-1.800700	0.071662
C	6.281359	-1.356748	1.564416
C	6.954401	0.041600	1.504665
C	7.206689	0.264051	-0.015559
N	7.318579	-1.087679	-0.602102
C	6.013896	0.954744	-0.699862
C	4.895781	-1.363732	-0.592391
C	4.747389	0.143257	-0.548161
C	8.626767	-1.708985	-0.408964
N	3.651911	0.793698	-0.399481
N	2.470416	0.125229	-0.312440
C	1.305809	0.832471	-0.175670
S	1.318609	2.576170	0.049455
C	-0.422897	2.500634	0.132989
C	-0.866141	1.216848	-0.013024
N	0.135730	0.274015	-0.187837
C	-2.268831	0.764373	-0.000011
C	-2.565270	-0.596588	-0.153636
C	-3.879369	-1.054913	-0.145404
C	-4.917732	-0.145308	0.018293
C	-4.654770	1.213195	0.172954
C	-3.337830	1.657268	0.162632
I	-6.942665	-0.836968	0.032705
H	6.341169	-2.878785	-0.051467
H	6.881517	-2.058191	2.147476

H	5.290735	-1.325979	2.023239
H	6.325931	0.826668	1.929528
H	7.895876	0.048034	2.057680
H	8.117932	0.832485	-0.212343
H	6.251067	1.046747	-1.766349
H	5.843454	1.958804	-0.305730
H	4.902810	-1.702454	-1.635231
H	4.062227	-1.859996	-0.085118
H	8.622191	-2.705102	-0.858070
H	8.937044	-1.811773	0.644372
H	9.384426	-1.116507	-0.927115
H	2.374656	-0.857629	-0.537940
H	-0.989344	3.405358	0.278662
H	-1.748365	-1.294672	-0.280313
H	-4.084366	-2.110791	-0.265802
H	-5.463604	1.920860	0.299928
H	-3.150942	2.717851	0.283426

3b

C	4.991037	-1.597393	0.058782
C	5.018879	-1.158218	1.554001
C	5.571930	0.291954	1.501210
C	5.801135	0.543627	-0.018144
N	6.025120	-0.790715	-0.612642
C	4.552908	1.135300	-0.696305
C	3.633701	-1.269475	-0.599762
C	3.359217	0.219583	-0.546300

C 7.381037 -1.300949 -0.424712
N 2.213139 0.774373 -0.390638
N 1.093145 0.009590 -0.303496
C -0.130029 0.614099 -0.164904
S -0.272727 2.349491 0.067185
C -2.002642 2.117432 0.147418
C -2.330283 0.800109 -0.006882
N -1.244736 -0.046875 -0.182240
C -3.685094 0.220229 0.002408
C -3.856836 -1.172228 -0.079335
C -5.118190 -1.742862 -0.067724
C -6.258721 -0.937564 0.025422
C -6.109987 0.450300 0.104273
C -4.835327 1.010678 0.090837
O -7.455344 -1.593180 0.029581
C -8.646369 -0.826472 0.122247
H 5.203000 -2.660733 -0.070673
H 5.676872 -1.810113 2.132255
H 4.029911 -1.212892 2.014090
H 4.880488 1.018850 1.931674
H 6.510883 0.374319 2.052583
H 6.661196 1.187580 -0.213068
H 4.779668 1.253290 -1.762569
H 4.299732 2.119225 -0.295828
H 3.665803 -1.601779 -1.644265
H 2.846123 -1.836181 -0.092830
H 7.459571 -2.291195 -0.880057

H	7.700898	-1.384025	0.627617
H	8.085502	-0.643682	-0.939888
H	1.078963	-0.975080	-0.540721
H	-2.647040	2.966255	0.304937
H	-2.977063	-1.797790	-0.152446
H	-5.249403	-2.816556	-0.129838
H	-6.971372	1.101018	0.172760
H	-4.749696	2.089864	0.145839
H	-8.684484	-0.252015	1.054873
H	-8.753402	-0.143464	-0.728216
H	-9.464641	-1.544817	0.110083

3c

C	4.799742	-1.615901	0.069242
C	4.826016	-1.171228	1.562742
C	5.383521	0.277154	1.505360
C	5.615770	0.522235	-0.014509
N	5.836256	-0.814571	-0.603943
C	4.370584	1.115260	-0.697292
C	3.444524	-1.286896	-0.593727
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H	-4.889321	2.156003	0.281117
H	-7.138425	1.180638	0.315470

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H -3.185053 -1.744012 -0.247981

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H	3.867894	2.141997	-0.335848

H	3.281821	-1.610096	-1.620566
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H	7.325555	-1.295596	0.624894
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N	7.098579	-1.335178	-0.616204
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C	4.594892	0.027722	-0.590515
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N	3.540419	0.749232	-0.476983
N	2.336698	0.161730	-0.240816
C	1.214886	0.940551	-0.141196

S	1.316989	2.695580	-0.164851
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N	0.022798	0.446351	-0.014344
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C	-3.372602	2.030050	0.194076
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C	-5.038305	0.309603	0.539538
C	-4.022029	-0.649068	0.590227
C	-2.698284	-0.262529	0.421383
N	-6.401828	-0.041495	0.730998
S	-7.184060	-1.302350	-0.074804
O	-8.589133	-1.135441	0.270402
O	-6.465576	-2.537526	0.200282
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H	6.075722	-2.983571	0.222479
H	6.786789	-1.911577	2.258556
H	5.226625	-1.118029	2.124251
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H	6.062666	0.682853	-1.996704
H	5.785688	1.798336	-0.651254
H	4.597772	-1.951849	-1.423109
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H	8.308374	-3.039775	-0.724389
H	8.755811	-1.975611	0.625320

H	9.137037	-1.517115	-1.047266
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C	-0.356604	-0.758489	-0.198011
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C	1.412449	-2.402581	0.041570

C	1.821175	-1.100599	-0.037018
N	0.797509	-0.170120	-0.173527
C	3.197945	-0.599977	0.007899
C	4.313219	-1.550640	0.150901
O	5.592303	-1.004034	0.186098
C	5.846865	0.331126	0.096994
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C	7.176429	0.743573	0.146187
C	7.463073	2.099115	0.057692
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H	-4.861537	-1.996680	-0.413493
H	-4.013279	1.747819	-1.560698
H	-3.186092	1.853860	0.001089
H	-8.480962	1.008560	-0.913194
H	-7.762526	2.611995	-0.764172
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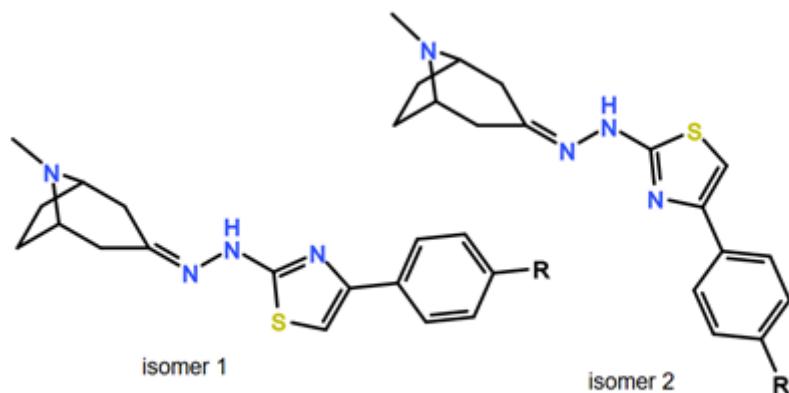
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H	6.669979	4.094856	-0.147103
H	4.309761	3.338357	-0.232647

3h

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C	6.448095	0.201151	-0.031501
N	6.532073	-1.159880	-0.601158
C	5.266162	0.905854	-0.720308
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C	3.984778	0.121185	-0.552655
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N	2.902588	0.794272	-0.406610
N	1.709651	0.150728	-0.305164
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S	0.596970	2.625724	0.029264
C	-1.146559	2.576327	0.120861
C	-1.610039	1.297233	-0.006637
N	-0.620573	0.338895	-0.172610
C	-3.017676	0.863889	0.018796
C	-4.076697	1.773645	0.155038
C	-5.391636	1.340337	0.178306

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H -9.604177 -0.650896 0.200126



Scheme S1. Structure of isomers 1 and 2 of investigated compounds.

Table S6. Fractional populations of isomers 1 and 2 of investigated compounds [%].

Molecule	isomer 1 [%]	isomer 2 [%]
3a	100.00	0.00
3b	100.00	0.00
3c	100.00	0.00
3d	100.00	0.00
3e	100.00	0.00
3f	99.99	0.01
3g	99.99	0.01
3h	99.99	0.01