







Supplementary data to:

Original article:

**NOVEL 2-SUBSTITUTED-5-(4-CHLORO-2-PHENOXY)PHENYL-1,3,4-
OXADIAZOLE DERIVATIVES, LIGANDS OF GABA_A/BENZODIAZEPINE
RECEPTOR COMPLEX: DESIGN, SYNTHESIS, RADIOLIGAND
BINDING ASSAY, AND PHARMACOLOGICAL EVALUATION**

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Supplementary data (1) to Table 1: Determining the time to reach the steady state in radioligand receptor binding assay. All data are reported in triplicate (n=3) and based on the mean \pm standard deviation from the mean (Mean \pm SEM)

Incubation time (min)	TB (cpm)	NSB (cpm)	SB (cpm)
0	0	0	0
10	456.6 \pm 60.2	90.3 \pm 2.8	367 \pm 59.3
20	516 \pm 9.8	104 \pm 1	412 \pm 10.58
25	537 \pm 32.5	104.3 \pm 2.08	433.6 \pm 20.6
30	577.6 \pm 79.8	102.3 \pm 9.86	455.3 \pm 70.4
40	577.6 \pm 47.3	99.6 \pm 9.29	458 \pm 50.06

TB = Total binding
cpm = Count per minute
NSB = Non-specific binding
SB = Specific binding

Supplementary data (2) to Table 1: Percent of total binding based on increasing amount of tissue in radioligand receptor binding assay. All data are presented as triplicates and based on the mean \pm standard deviation of the mean. (Mean \pm SEM)

Protein concentration (μ g)	TB (cpm)	TA (cpm)	(TB \times 100)/TA
0	0	0	0
50	194.3 \pm 12.5	3974	4.85 \pm 0.27
100	316 \pm 61.7	3974	7.9 \pm 1.56
150	457.6 \pm 46.7	3974	11.48 \pm 1.14
200	517.6 \pm 14.04	3974	12.98 \pm 0.35
250	551.3 \pm 105.02	3974	13.83 \pm 2.6
300	580 \pm 12.28	3974	14.55 \pm 0.3

TB = Total binding
cpm = Count per minute
TA = Total added

Supplementary data (3) to Table 1: Determination of specific binding against different concentrations of labeled flumazenil in radioligand receptor binding assay. All data are reported in triplicate (n=3) and based on the mean \pm standard deviation from the mean (Mean \pm SEM)

^3H -flumazenil (nM)	TB (cpm)	NSB (cpm)	SB (cpm)
0.97	2129.67 \pm 11.2	153.5.3 \pm 5.3	1976.7 \pm 7.7
0.86	2056.6 \pm 37.1	149.67 \pm 3.53	1907 \pm 33.65
0.63	1836 \pm 107.3	141.33 \pm 3.48	1695 \pm 110.6
0.4	1358.33 \pm 6.39	118.33 \pm 9.83	1240.3 \pm 3.93
0.28	776.3 \pm 61.9	113.3 \pm 8.46	663 \pm 69.6
0.17	429 \pm 67.1	101.67 \pm 5.5	327.36 \pm 4.9
0.05	240 \pm 16.09	86.67 \pm 5.79	153.33 \pm 21.4

TB = Total binding
cpm = Count per minute
NSB = Non-specific binding
SB = Specific binding

Supplementary data (4a) to Table 1: The effect of Diazepam concentration on the binding interval of trituated [^3H]flumazenil

log[L]	Specific binding (cpm)
-11.0	0.5833 \pm 0.0088
-10.0	0.5467 \pm 0.0234
-9.5	0.4967 \pm 0.0033
-9.0	0.4467 \pm 0.0033
-8.5	0.3533 \pm 0.0033
-8.0	0.2633 \pm 0.0133
-7.0	0.1733 \pm 0.0120

cpm = Count per minute

Supplementary data (4b) to Table 1: Effect of concentration of 5-(4-chloro-2-phenoxyphenyl)-N-cyclohexyl-4,3,1-oxadiazole-2-carboxamide (6f) on the binding interval of tritiated [3H]flumazenil. All data are reported in triplicate (n=3) and based on the mean \pm standard deviation from the mean

log[L]	Specific binding (cpm)
-11.0	0.5933 \pm 0.0207
-10.0	0.6133 \pm 0.0296
-9.5	0.5500 \pm 0.0156
-9.0	0.4533 \pm 0.0148
-8.5	0.4000 \pm 0.0118
-8.0	0.3533 \pm 0.0189
-7.0	0.2133 \pm 0.0272

cpm = Count per minute

Supplementary data (5) to Table 1: Concentration of 5-(4-chloro-2-phenoxyphenyl)-N-(pyridin-2-yl)-1,3,4-oxadiazole-2-carboxamide (6b) on the binding interval of tritium-labeled [3H]flumazenil. All data are reported in triplicate (n=3) and based on the mean \pm standard deviation from the mean

log[L]	Specific binding (cpm)
-11.0	0.6433 \pm 0.0122
-10.0	0.5900 \pm 0.0118
-9.5	0.5467 \pm 0.0068
-9.0	0.5233 \pm 0.0180
-8.5	0.4267 \pm 0.0090
-8.0	0.3733 \pm 0.0223
-7.0	0.2333 \pm 0.0148

cpm = Count per minute

Supplementary data (6) to Table 1: Effect of concentration of 5-(4-chloro-2-phenoxyphenyl)-N-(6-methylpyridin-2-yl)-1,3,4-oxadiazole-2-carboxamide (6c) on the binding interval of tritium[3H]flumazenil. All data are reported in triplicate (n=3) and based on the mean \pm standard deviation from the mean

log[L]	Specific binding (cpm)
-11.0	0.5733 \pm 0.0207
-10.0	0.5700 \pm 0.0156
-9.5	0.5367 \pm 0.0122
-9.0	0.4467 \pm 0.0207
-8.5	0.3767 \pm 0.0090
-8.0	0.3100 \pm 0.0102
-7.0	0.3000 \pm 0.0059

cpm = Count per minute

Supplementary data (7) to Table 1: Effect of concentration of 5-(4-chloro-2-phenoxyphenyl)-N-(4-methylpyridin-2-yl)-1,3,4-oxadiazole-2-carboxamide (6d) on the binding interval of tritium[3H]flumazenil. All data are reported in triplicate (n=3) and based on the mean \pm standard deviation from the mean

log[L]	Specific binding (cpm)
-11.0	0.5733 \pm 0.0207
-10.0	0.5700 \pm 0.0156
-9.5	0.5367 \pm 0.0122
-9.0	0.4467 \pm 0.0207
-8.5	0.3767 \pm 0.0090
-8.0	0.3100 \pm 0.0102
-7.0	0.3000 \pm 0.0059

cpm = Count per minute

Supplementary data (8) to Table 1: Effect of concentration of 5-(4-chloro-2-phenoxyphenyl)-N-(4-morpholino)-1,3,4-oxadiazole-2-carboxamide (6e) on the binding interval of tritiated [3H]flumazenil. All data are reported in triplicate (n=3) and based on the mean \pm standard deviation from the mean

log[L]	Specific binding (cpm)
-11.0	0.6967 \pm 0.0148
-10.0	0.6667 \pm 0.0148
-9.5	0.6033 \pm 0.0189
-9.0	0.5867 \pm 0.0090
-8.5	0.3600 \pm 0.0060
-8.0	0.3067 \pm 0.0090
-7.0	0.2900 \pm 0.0059

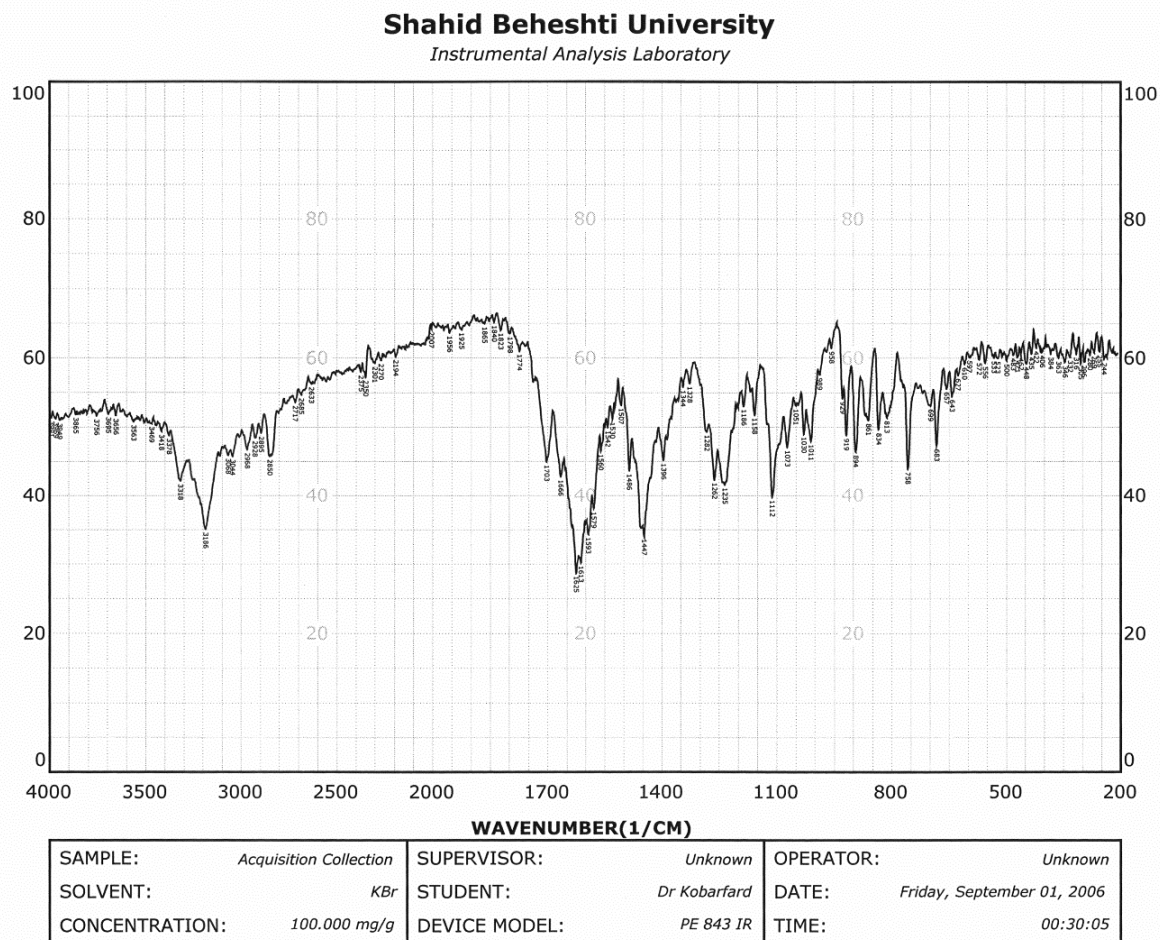
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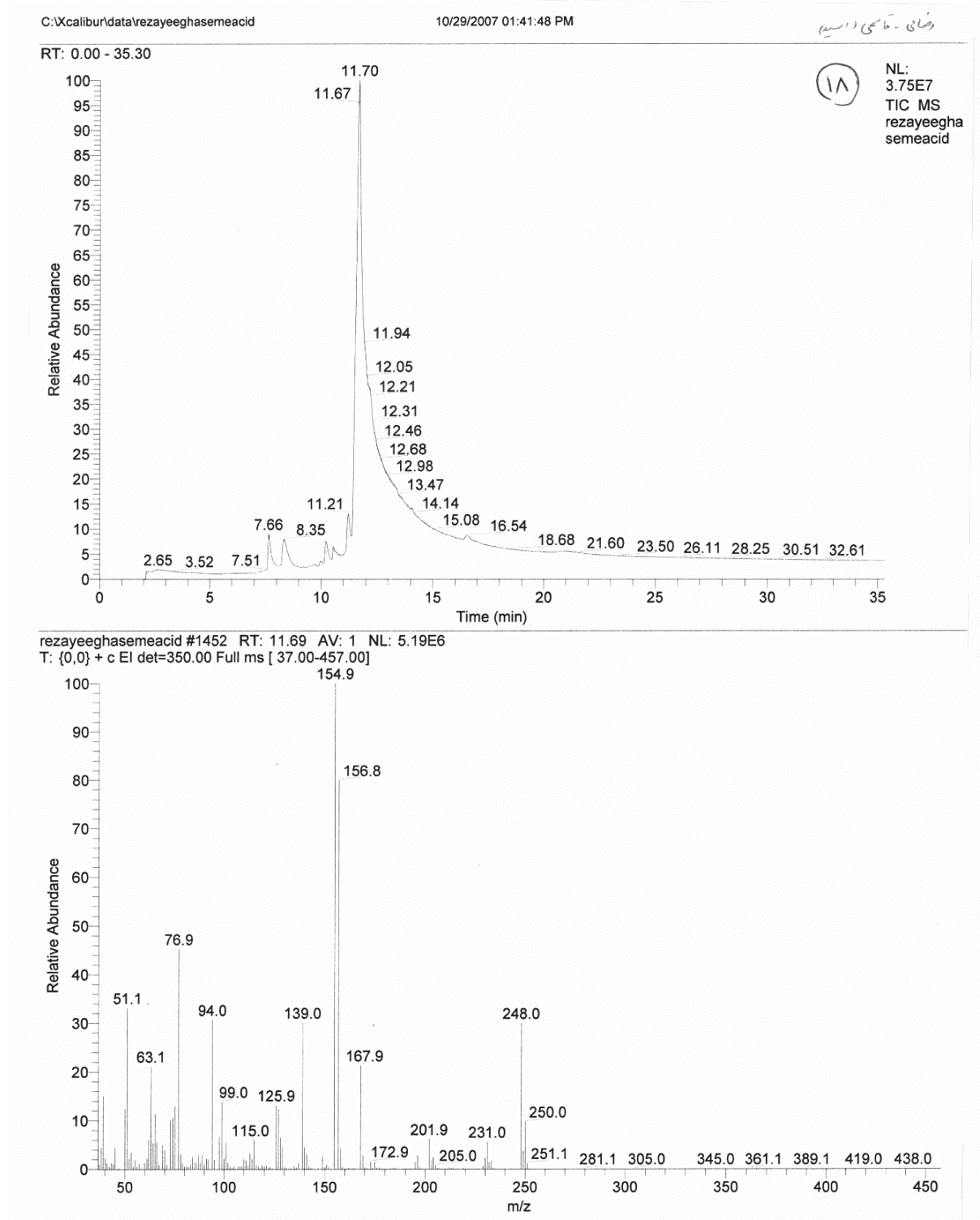
Supplementary data (9) to Table 1: Effect of concentration of 5-(4-chloro-2-phenoxyphenyl)-N-phenyl-1,3,4-oxadiazole-2-carboxamide (6a) on the binding interval of tritium-labeled flumazenil. [3H]Flumazenil, all data in triplicate (n= 3) and are reported based on the mean \pm standard deviation from the mean

log[L]	Specific binding (cpm)
-11.0	0.6267 \pm 0.0034
-10.0	0.5800 \pm 0.0156
-9.5	0.5100 \pm 0.0156
-9.0	0.4667 \pm 0.0090
-8.5	0.4200 \pm 0.0102
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-7.0	0.3167 \pm 0.0378

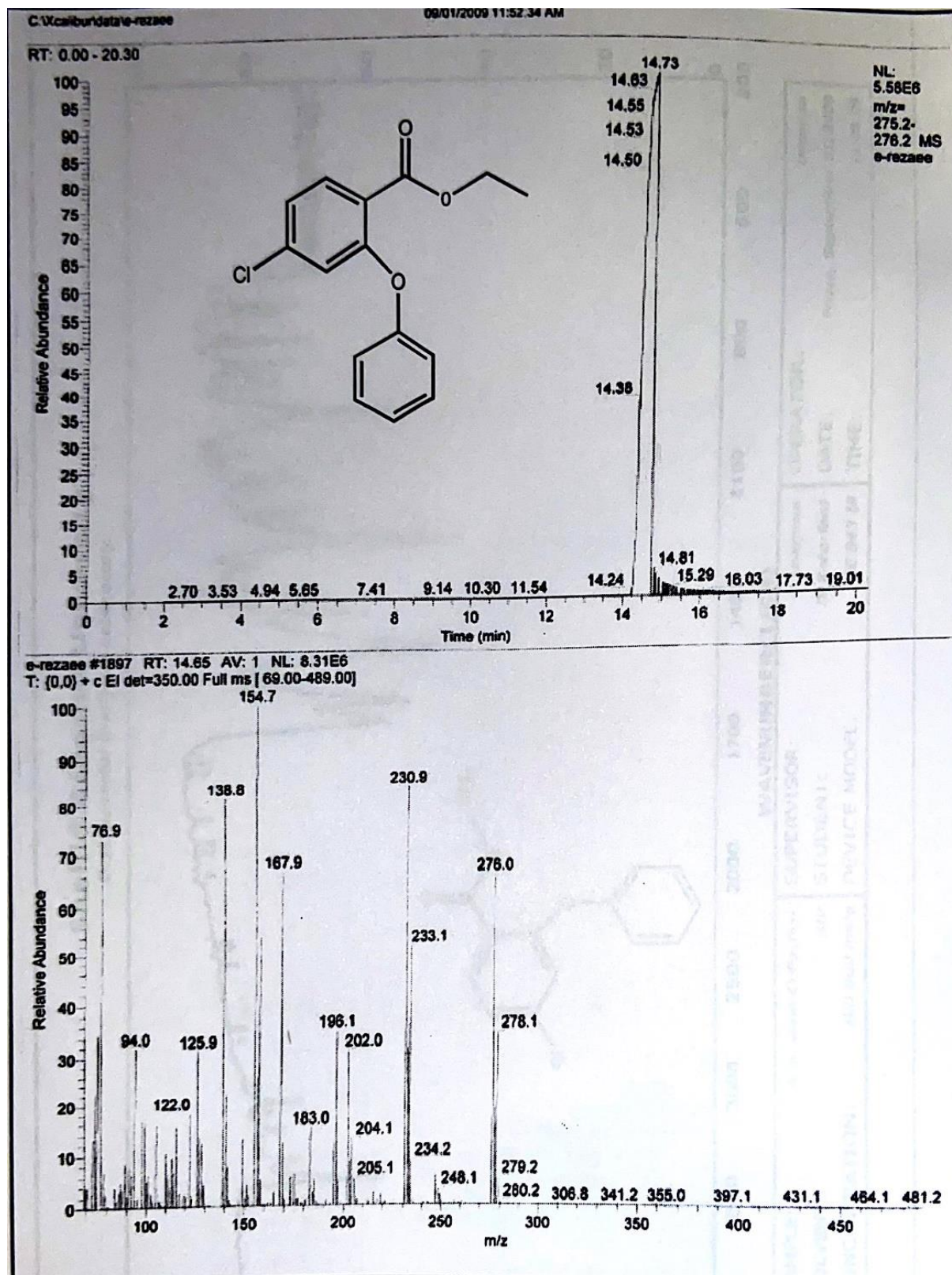
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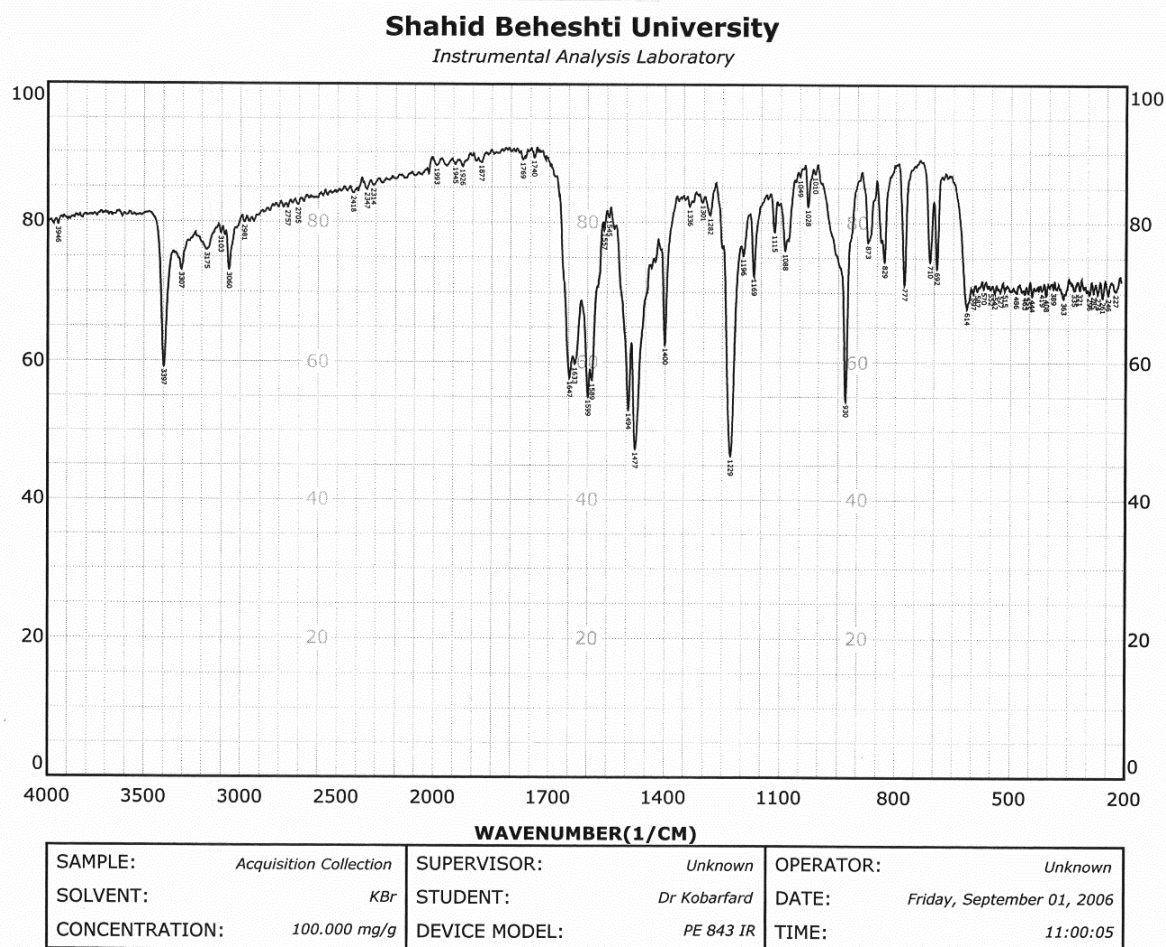




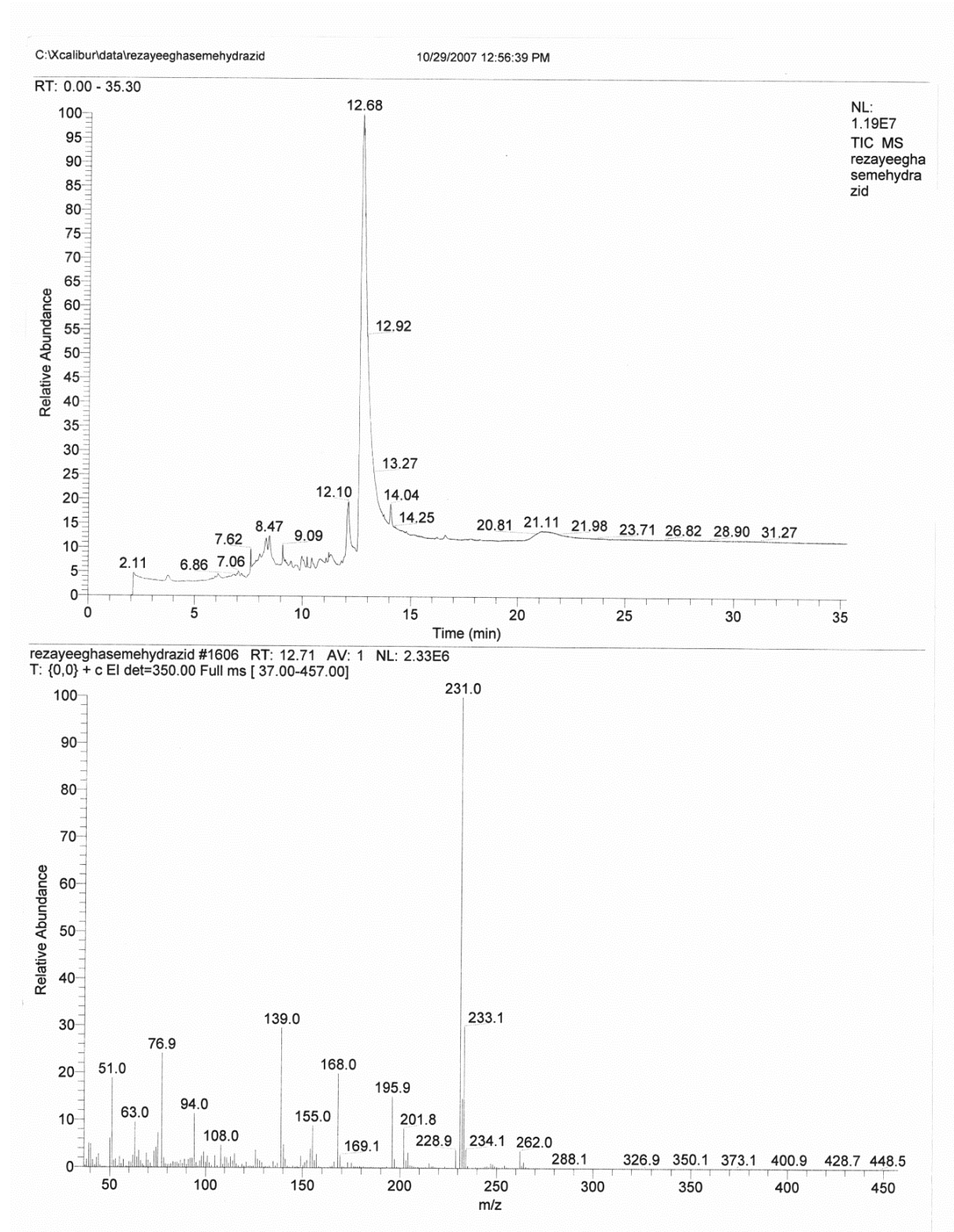
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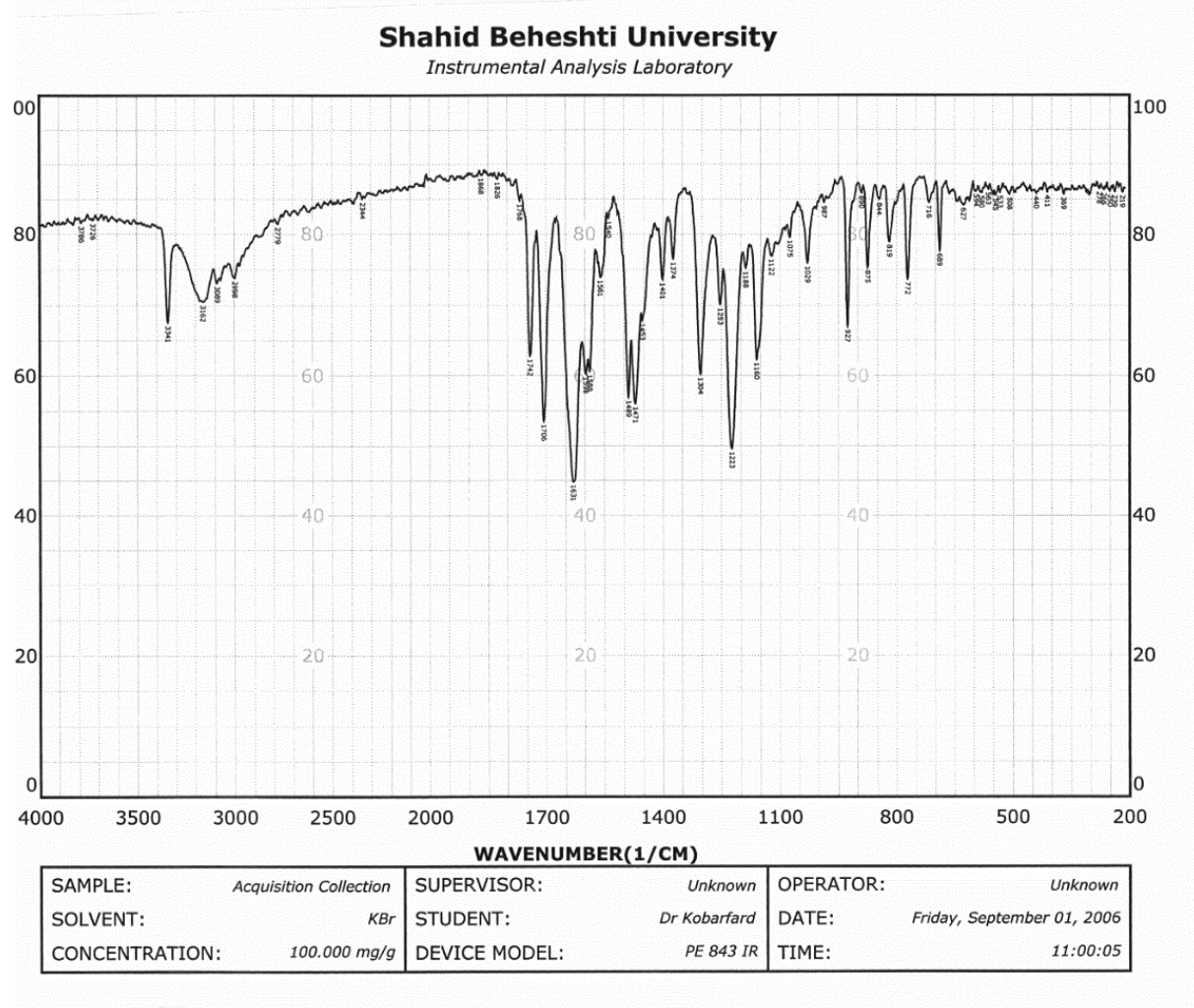
Supplementary data (12): Analysis data (IR, Mass) of 4-chloro-2-phenoxybenzohydrazide (3)



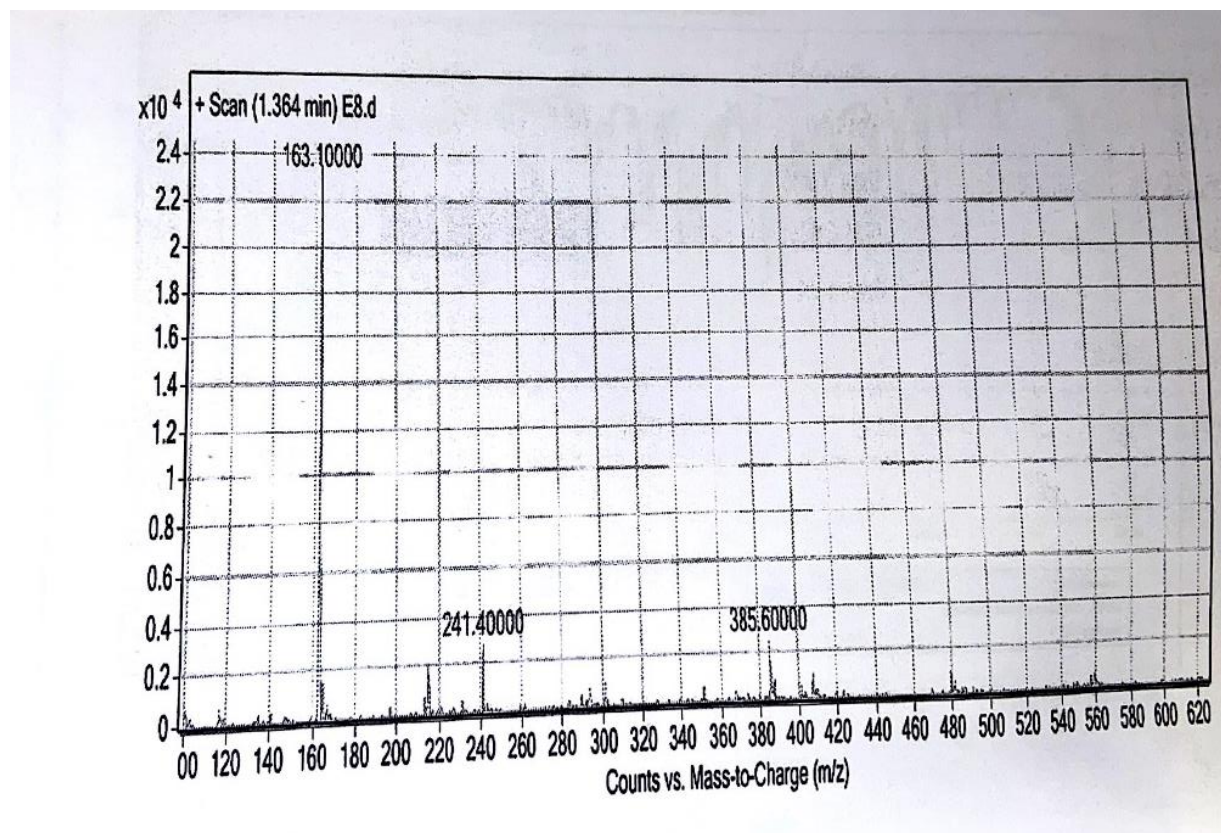
Supplementary data (13): Analysis data (IR, Mass) of 4-chloro-2-phenoxybenzohydrazide (3)



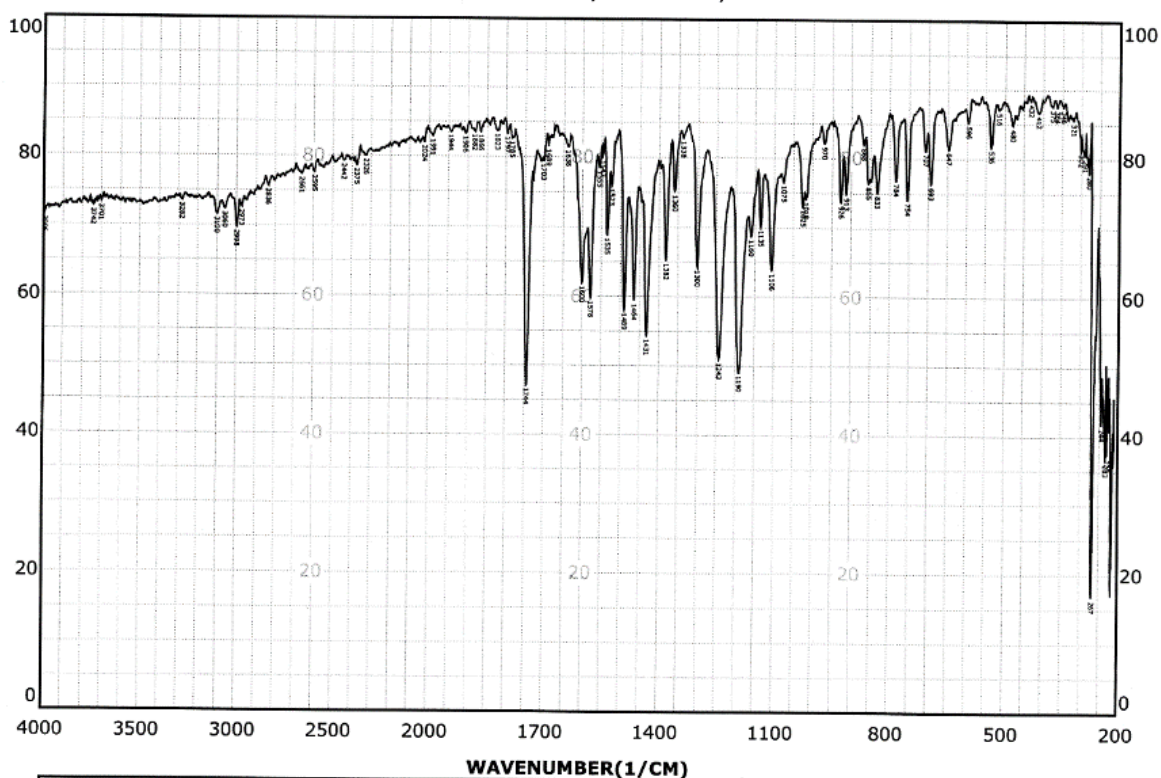
Supplementary data (14): Analysis data (IR, Mass) of Ethyl 2-(2-(4-chloro-2-phenoxybenzoyl)hydrazinyl)-2-oxoacetate (4)



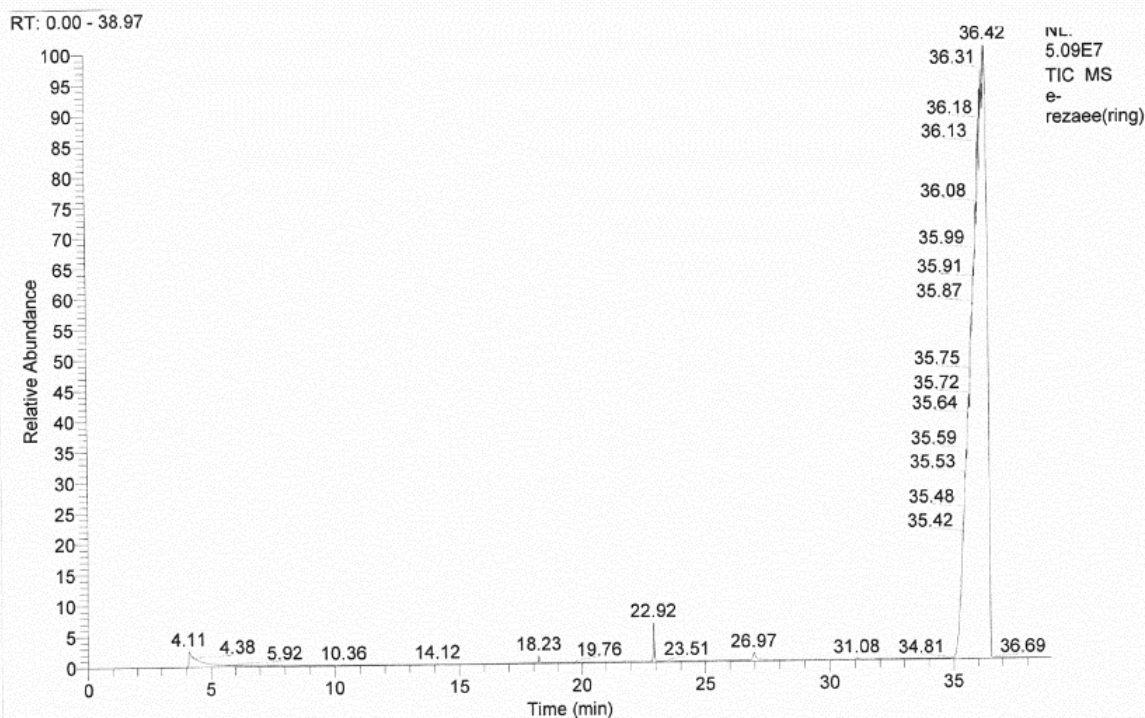
Supplementary data (15): Analysis data (IR, Mass, ^1H NMR, ^{13}C NMR) of Ethyl 5-(4-chloro-2-phenoxyphenyl)-1,3,4 oxadiazole-2- carboxylate (5)



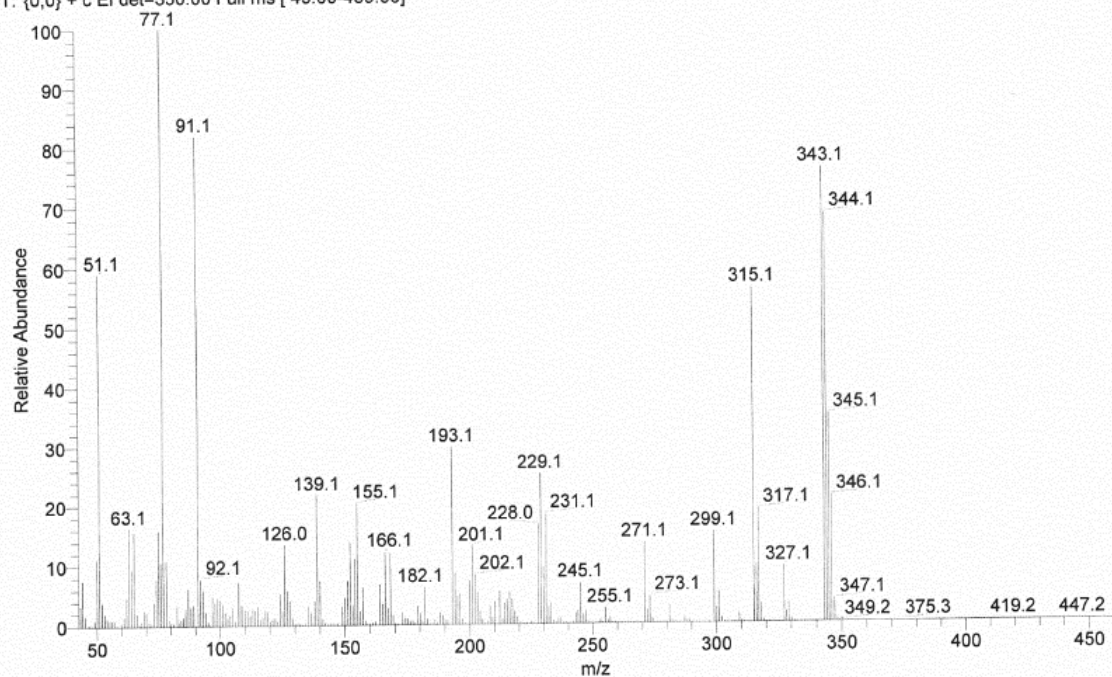
Shahid Beheshti University
Instrumental Analysis Laboratory

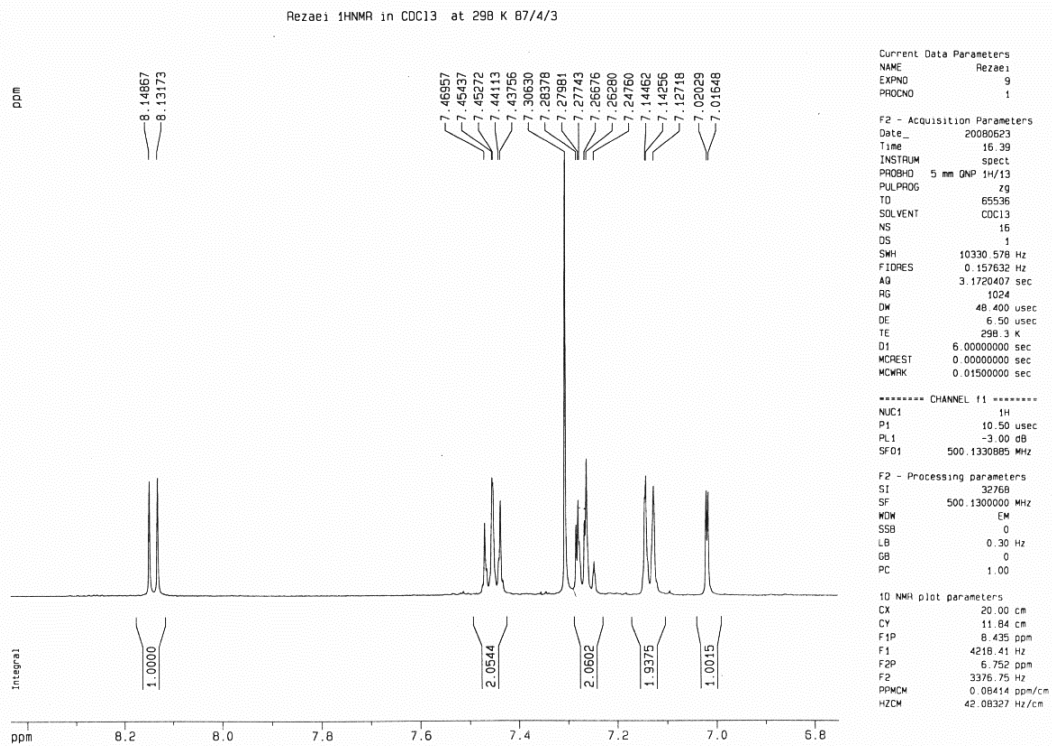
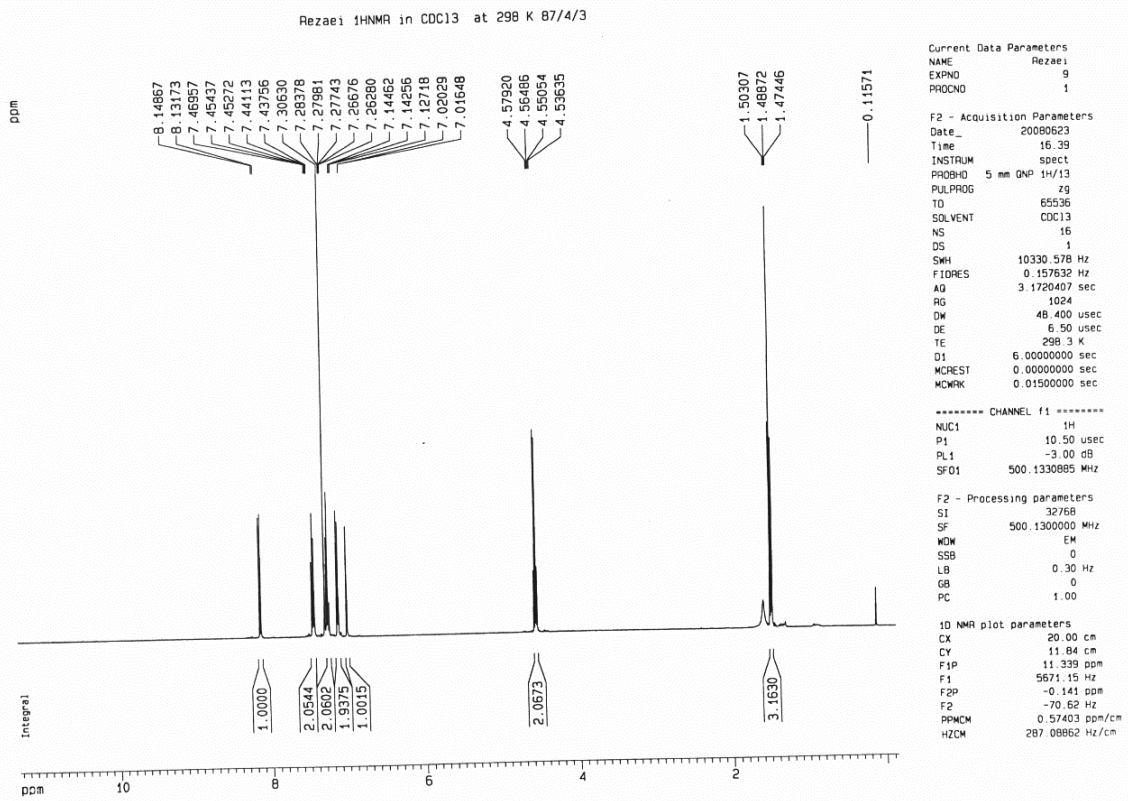


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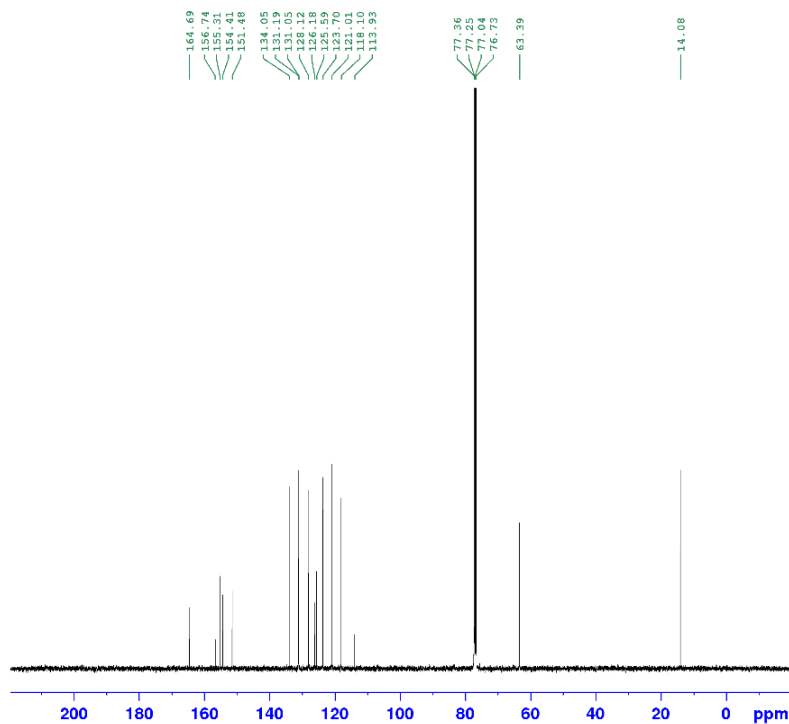


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13C- Dr. Rezaei CO: 3

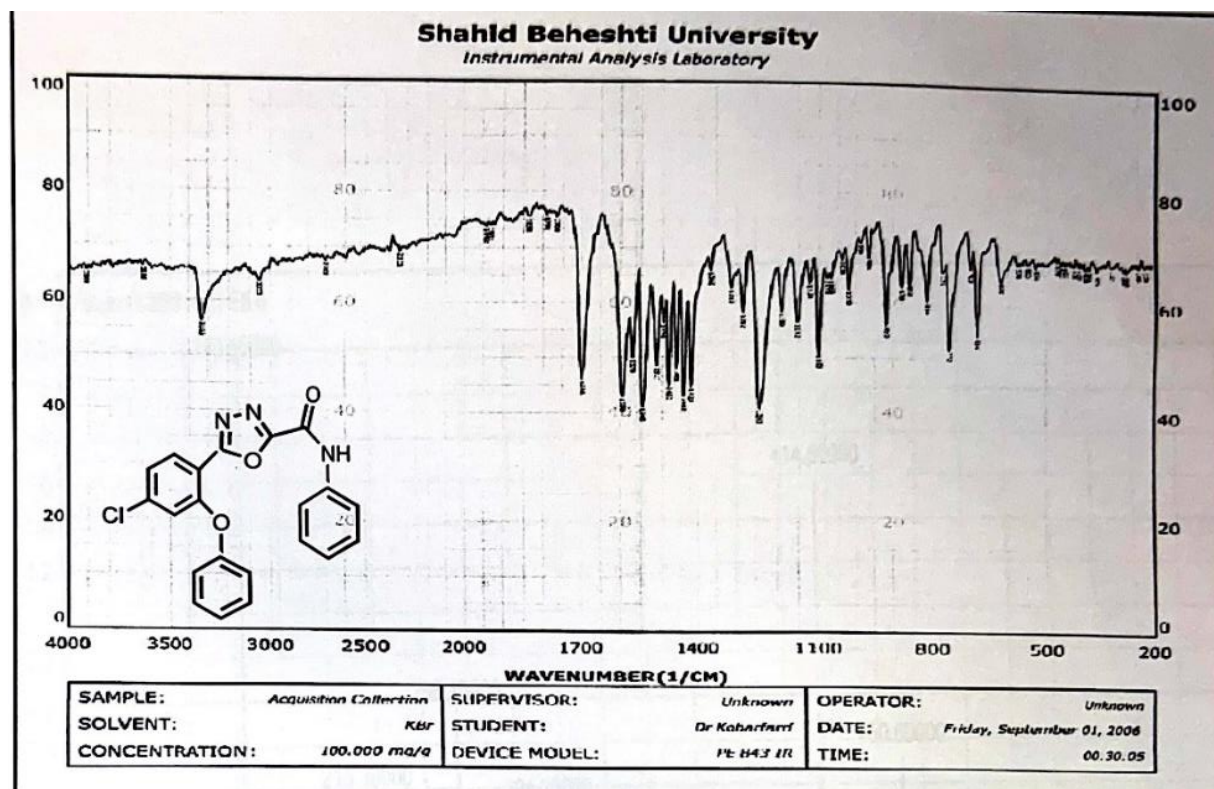


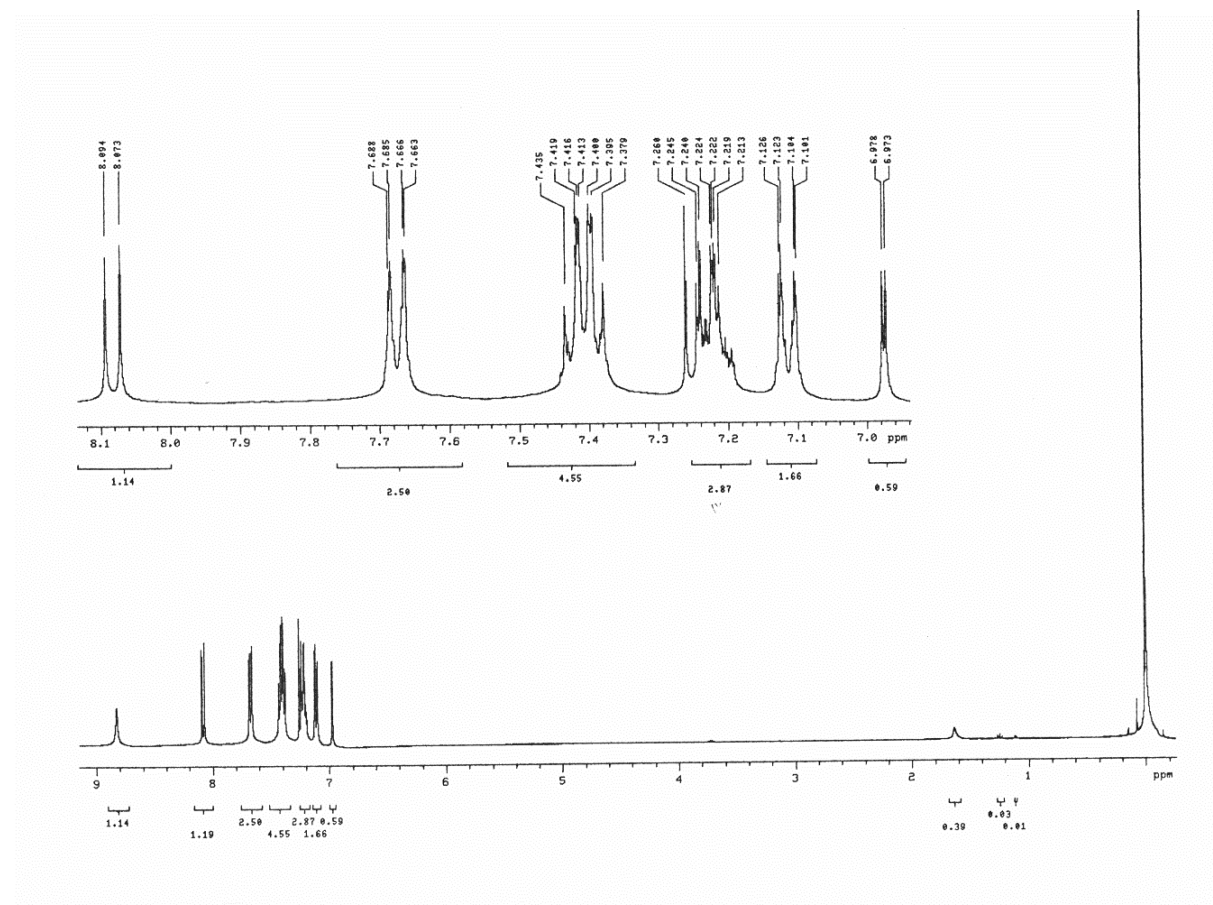
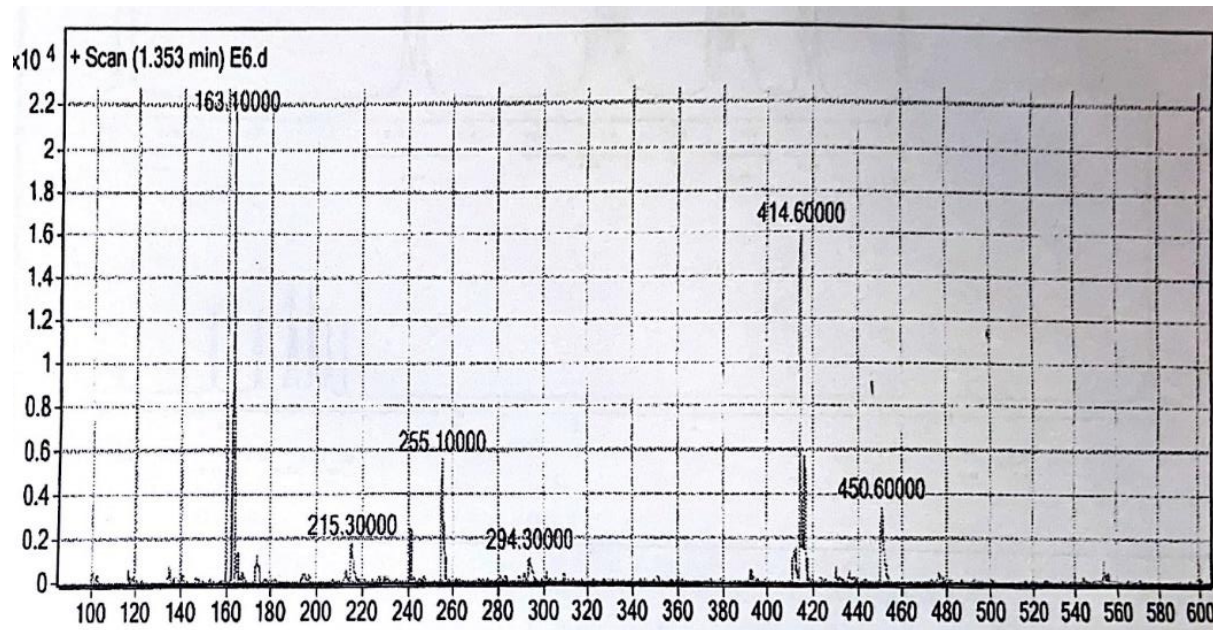
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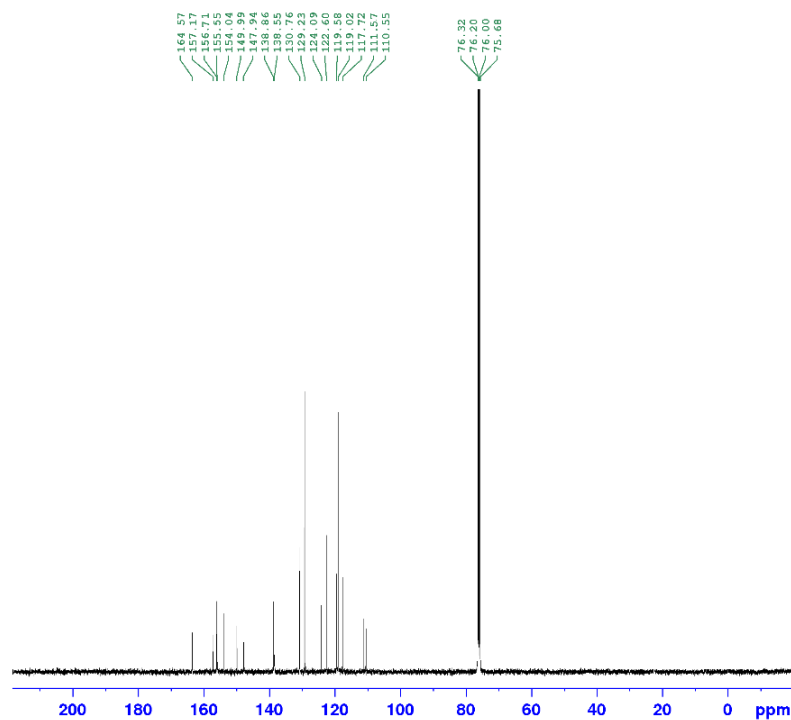
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Supplementary data (16): Analysis data (IR, Mass, ^1H NMR, ^{13}C NMR) of 5-(4-chloro-2-phenoxyphenyl)-N-phenyl-1,3,4-oxadiazole-2-Carboxamide (6a)





13C- Dr. Rezaei CO: 4

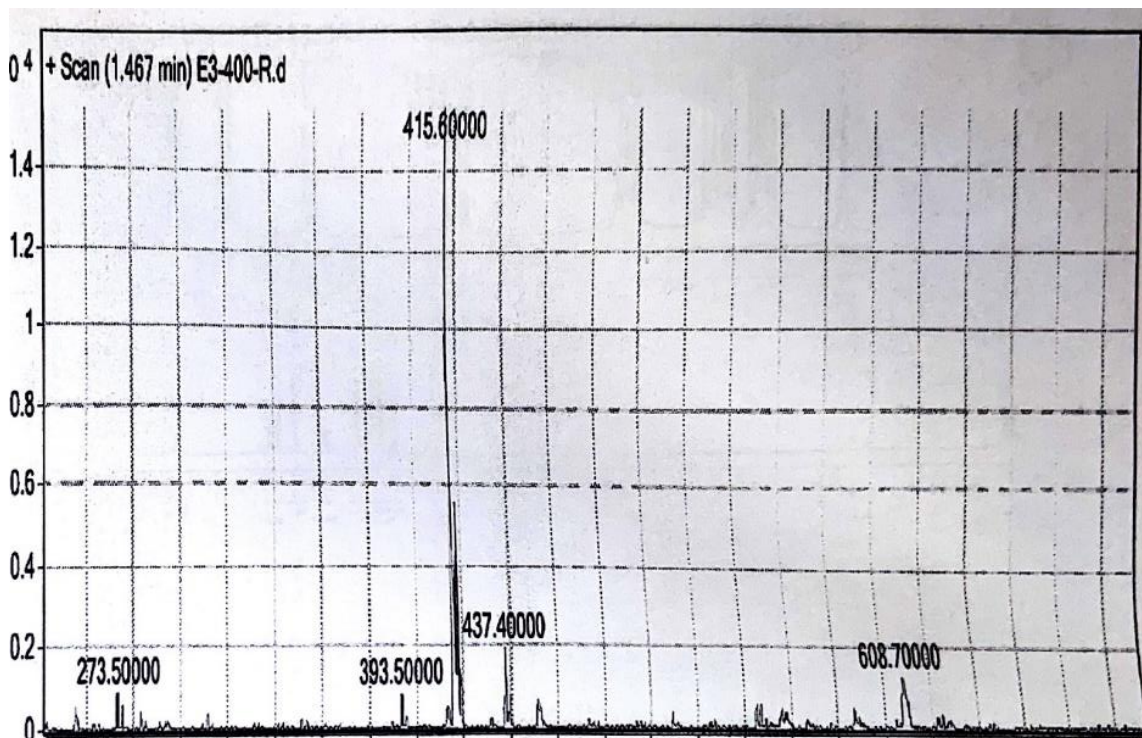
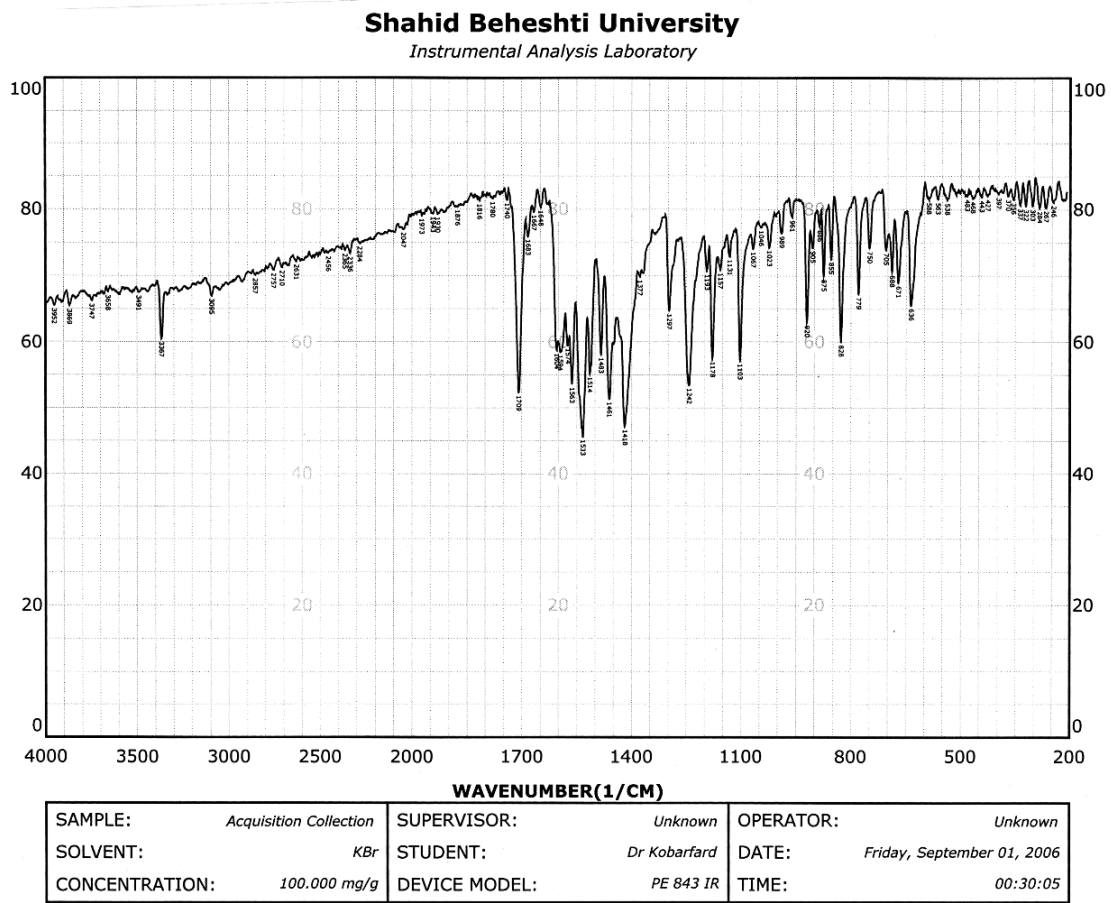


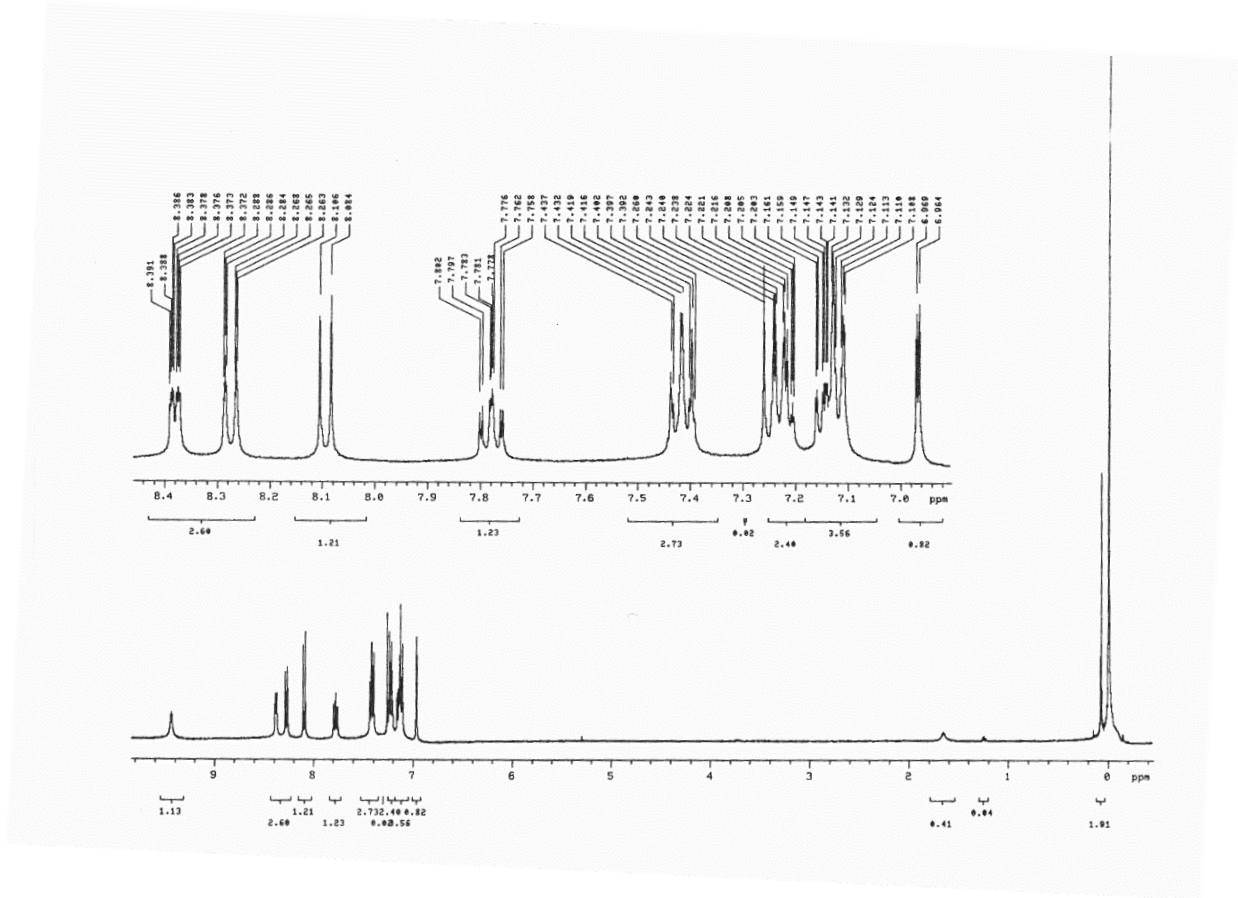
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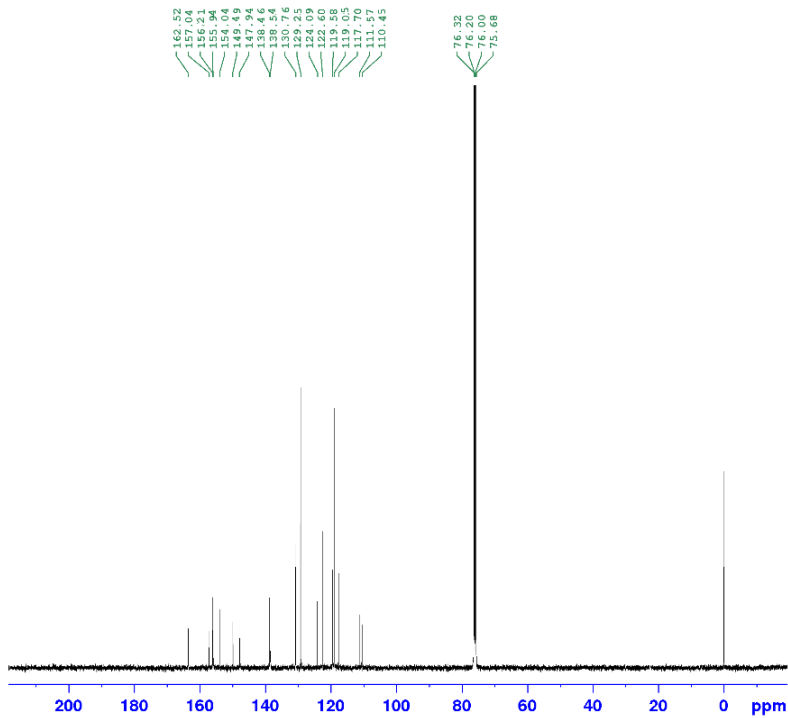
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13C- Dr. Rezaei CO: 4

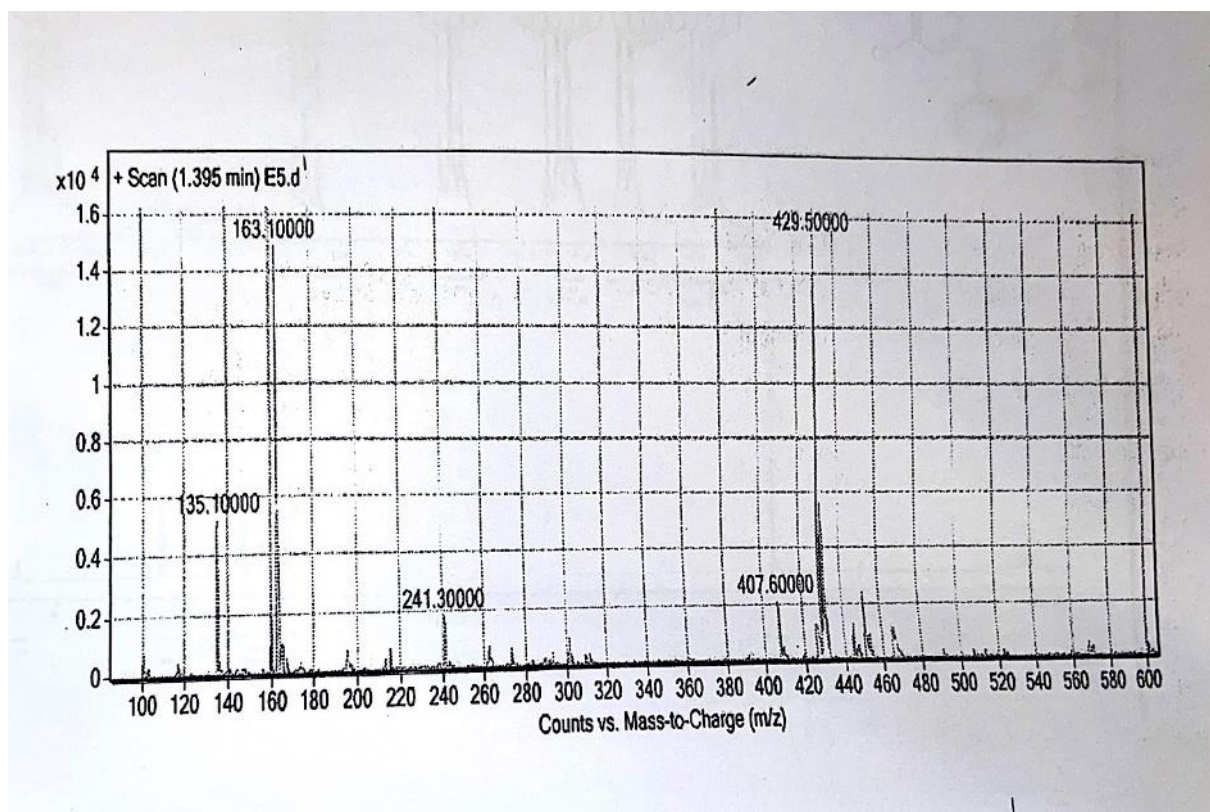
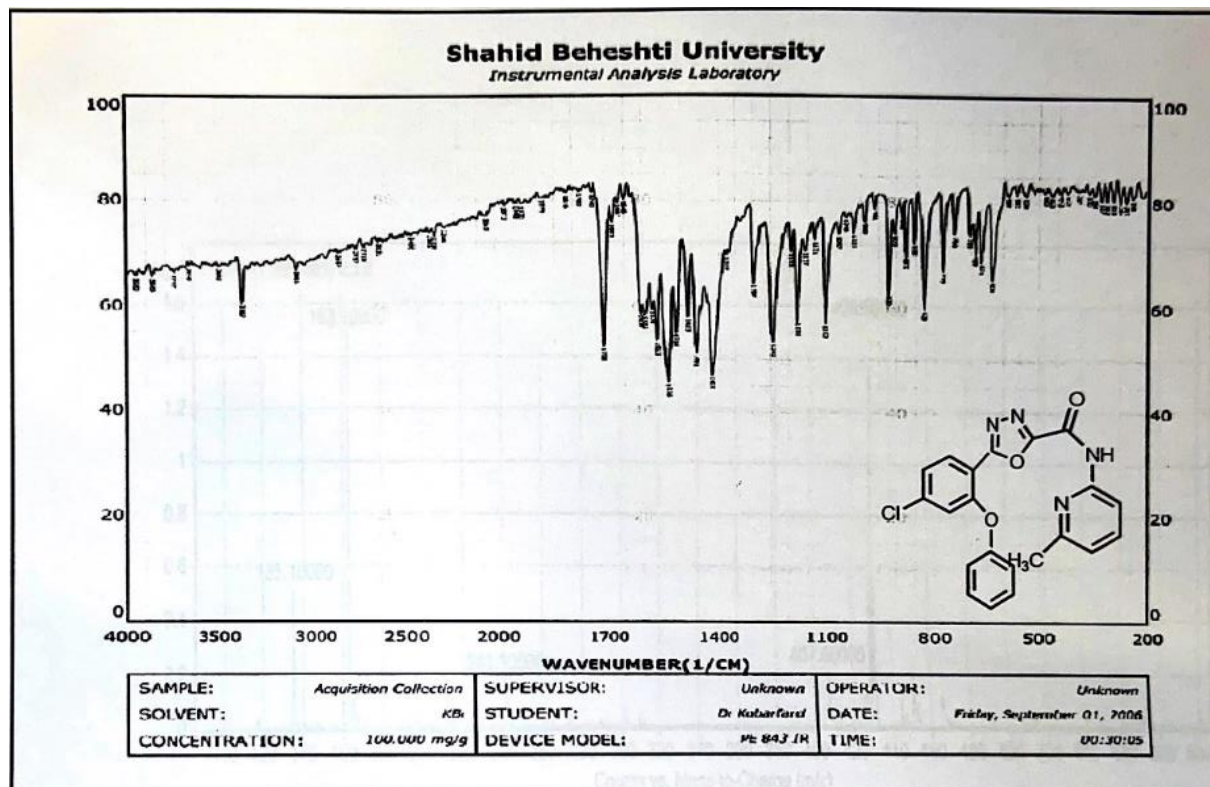


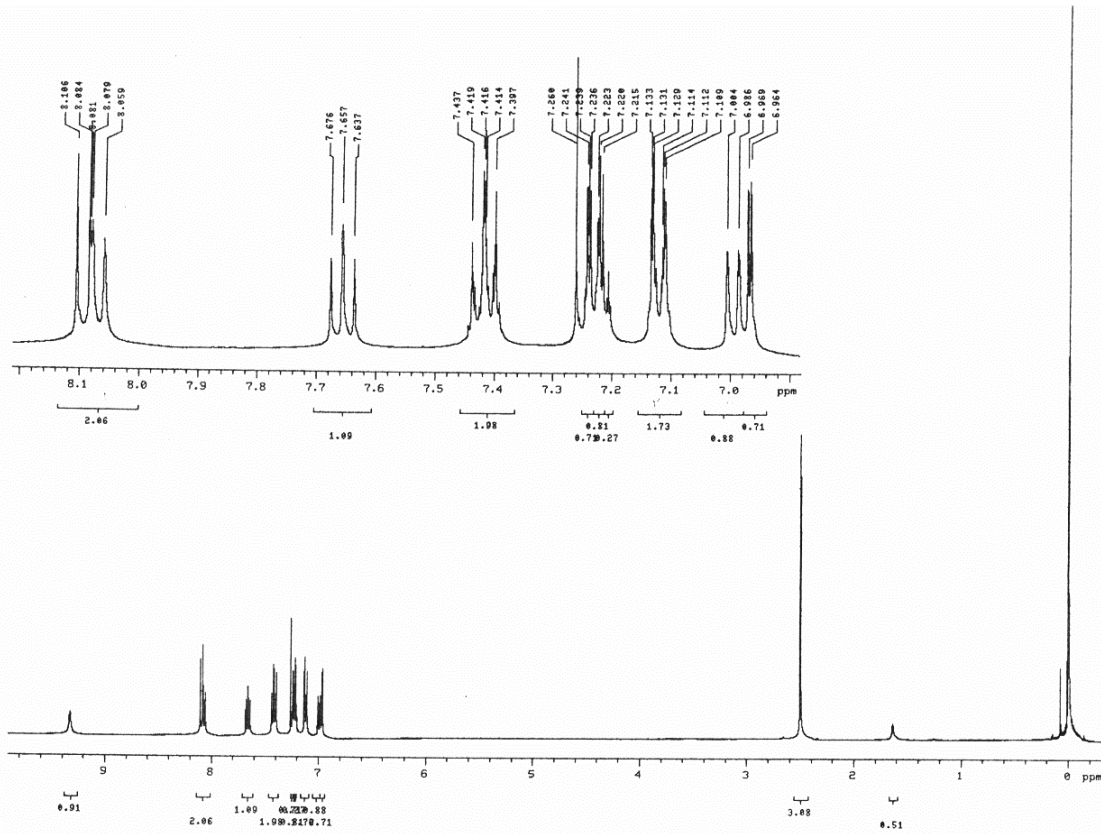
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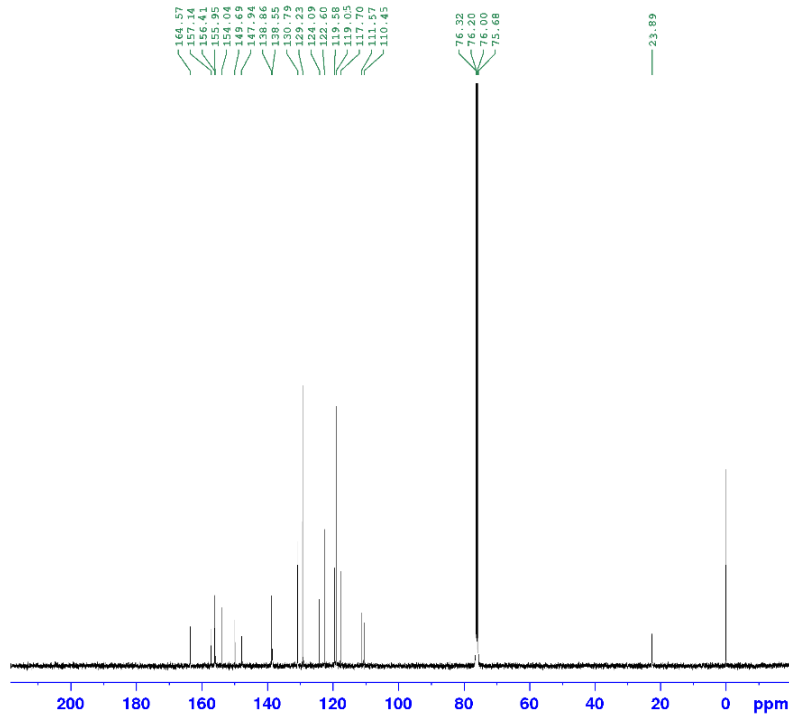
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13C- Dr. Rezaei CO: 4

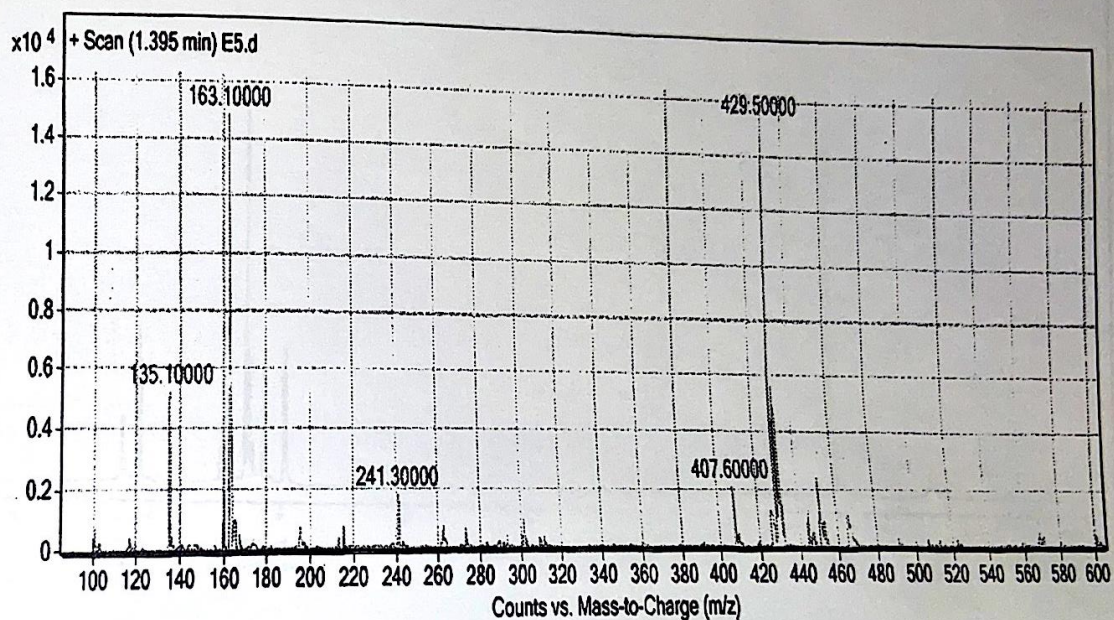
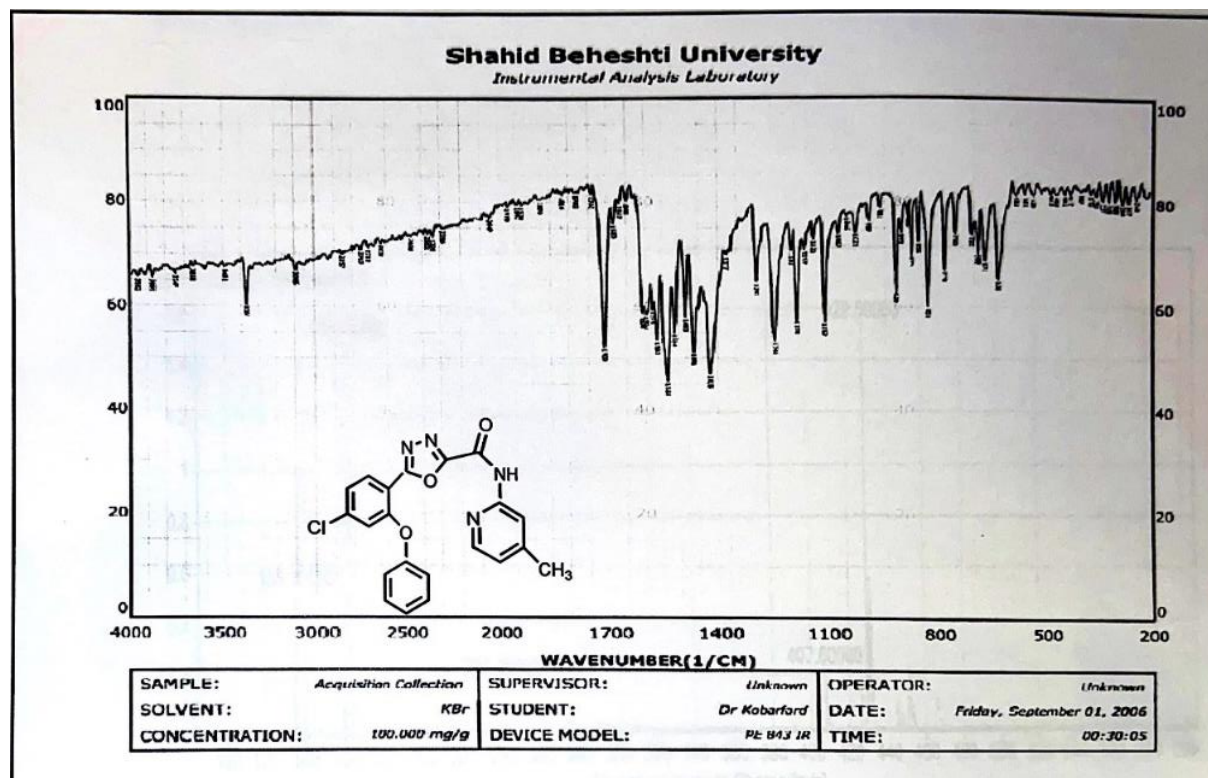


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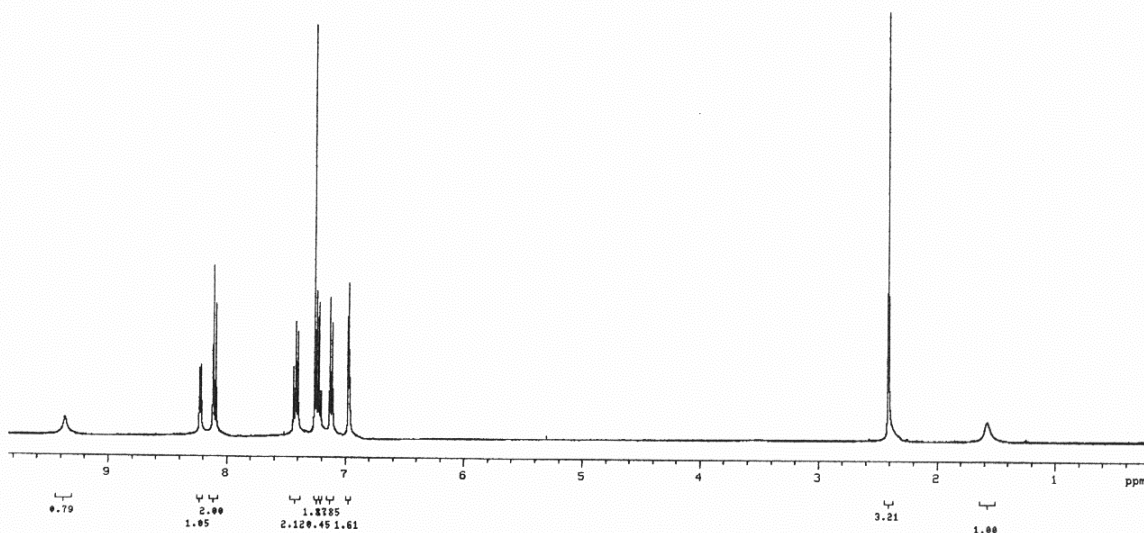
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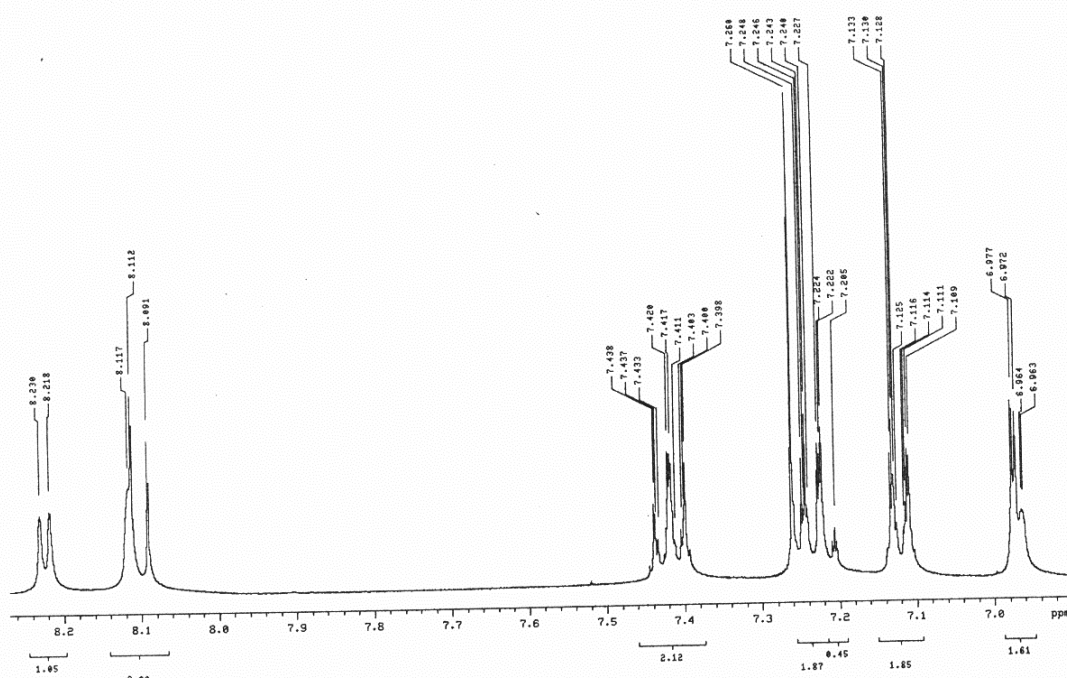
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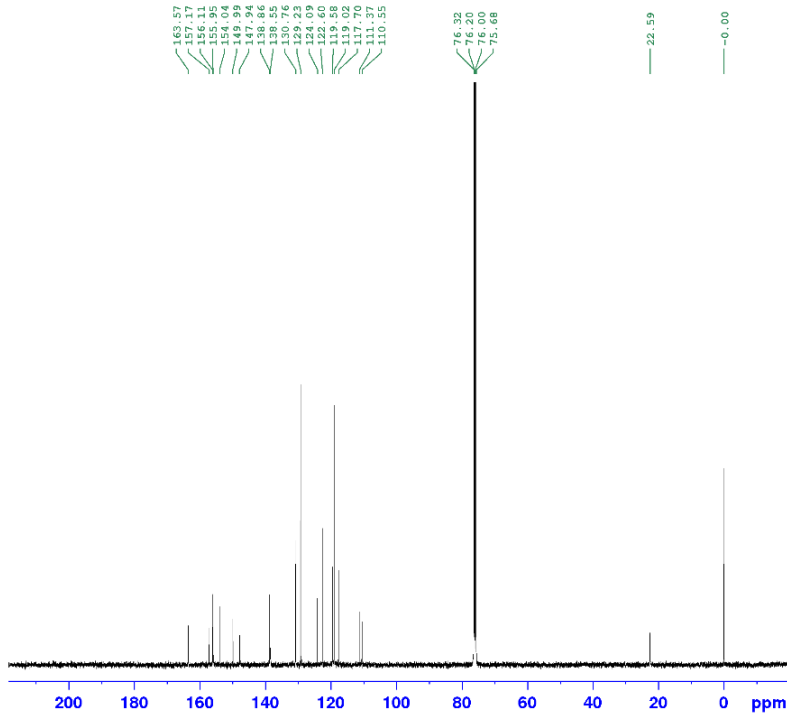
2-amino-4-methyl pyridin 8



2-amino-4-methyl pyridin 8



13C- Dr. Rezaei CO: 4



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157.17
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147.94
138.86
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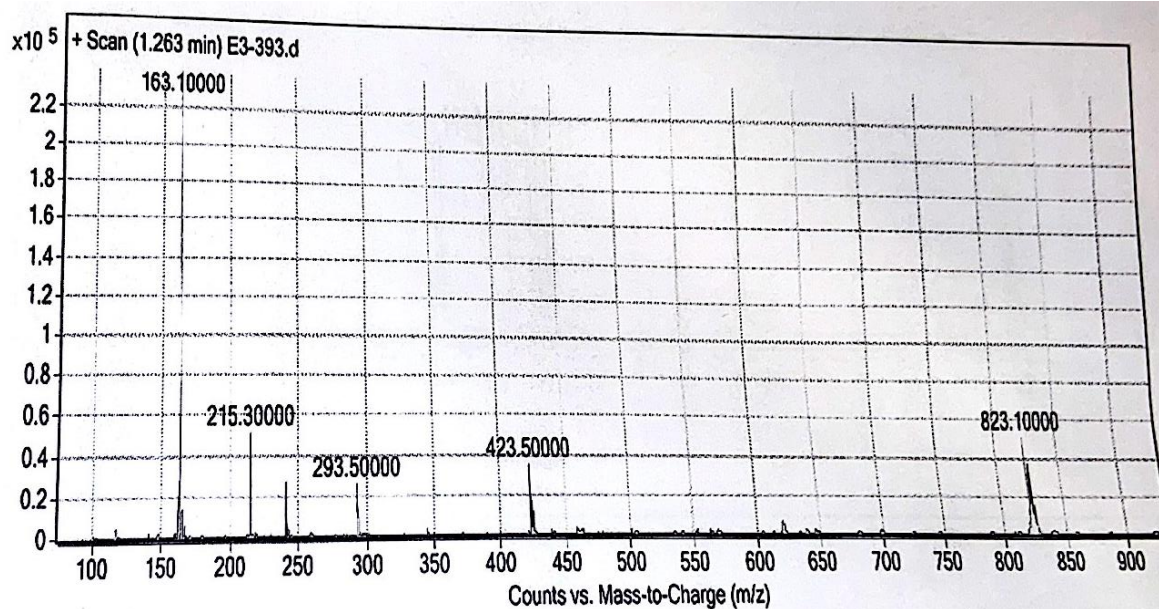
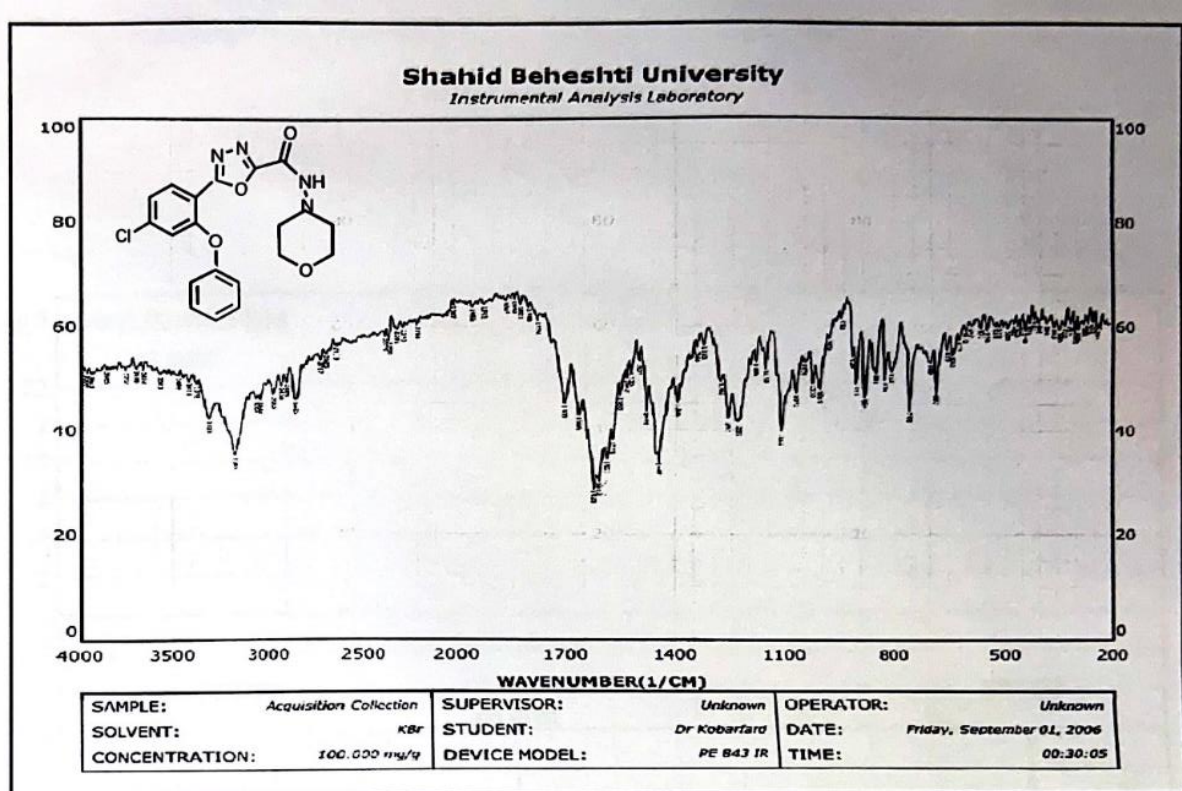


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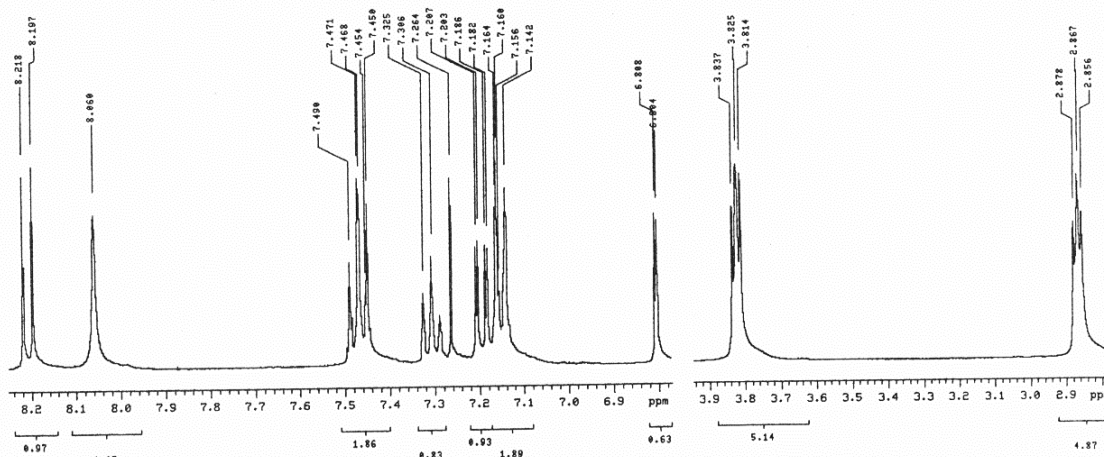
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NUC1 13C
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NUC2 1H
PCW3 2
PCW4 90.00 usec
PCW5 13.0000000 W
PCW6 0.3145700 W
PCW7 0.1582300 W

F2 - Processing parameters
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SF 100.6304752 MHz
WDW EM
SS 0
LB 1.00 Hz
GB 0
PC 1.40

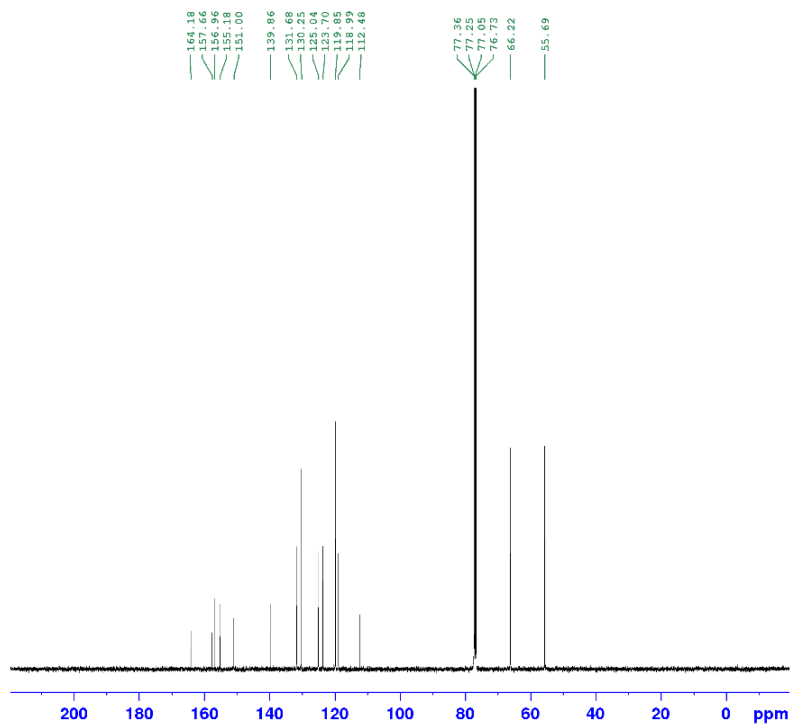
Supplementary data (20): Analysis data (IR, Mass, ¹H NMR, ¹³C NMR) of 5-(4-chloro-2-phenoxyphenyl)-N-morpholino-1,3,4-oxadiazole-2-Carboxamide (6e)



Asino morfoni 6



13C- Dr. Rezaei - CO : morphine



Current Data Parameters
 NAME Dr. Rezaei
 EXPNO 68
 PROCNO 1

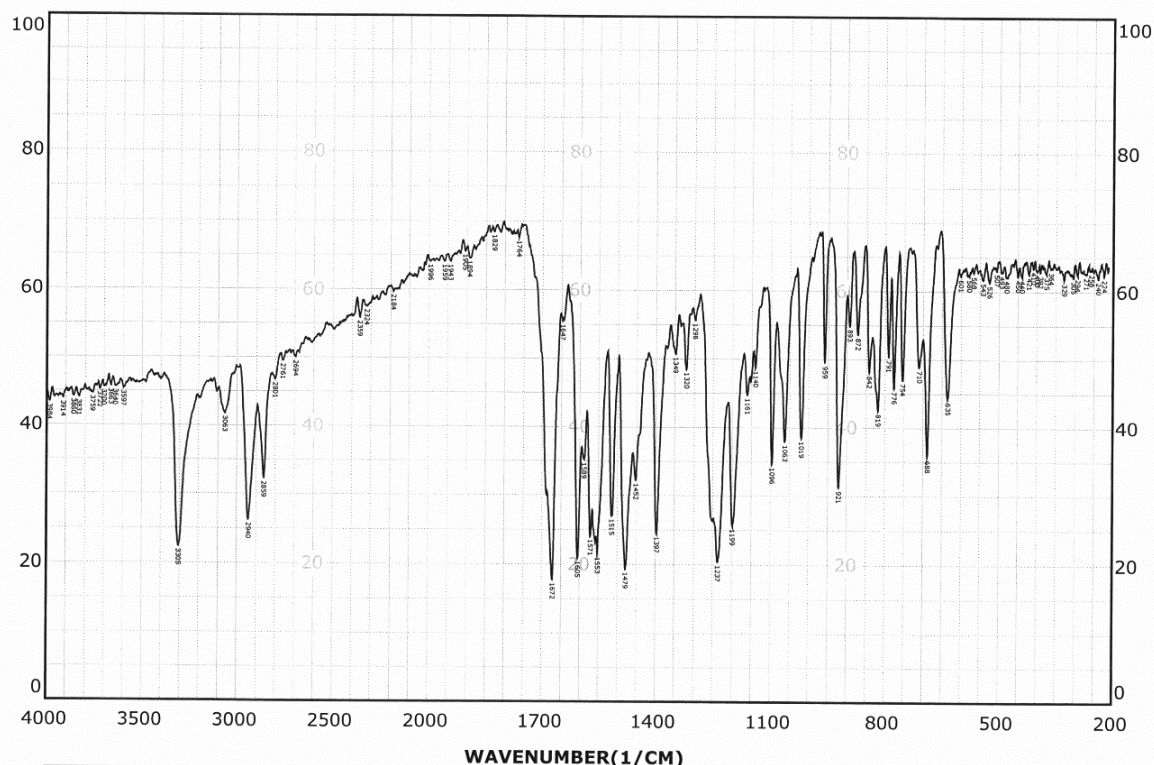
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 Time 9.13
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 SOLVENT CDCl3
 NS 2048
 DS 4
 SWH 24036.481 Hz
 FDRFR 3.733596 Hz
 AQ 1.3631488 sec
 RG 206.3
 DW 20.800 usec
 DE 6.50 usec
 TE 295.2 K
 D1 2.3000000 sec
 D11 0.0300000 sec
 TDC 1
 SFO1 100.6404331 MHz
 NUC1 13C
 PC 10.00 usec
 FSW1 52.0000000 W
 SFO2 400.2016008 MHz
 NUC2 1H
 CPDPR2 Waltz16
 FCFD2 80.00 usec
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 FSW12 0.31487001 W
 FSW13 0.15823001 W

F2 - Processing parameters
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 WFF EX
 SSS 0
 LB 1.00 Hz
 GB 0
 PC 1.40

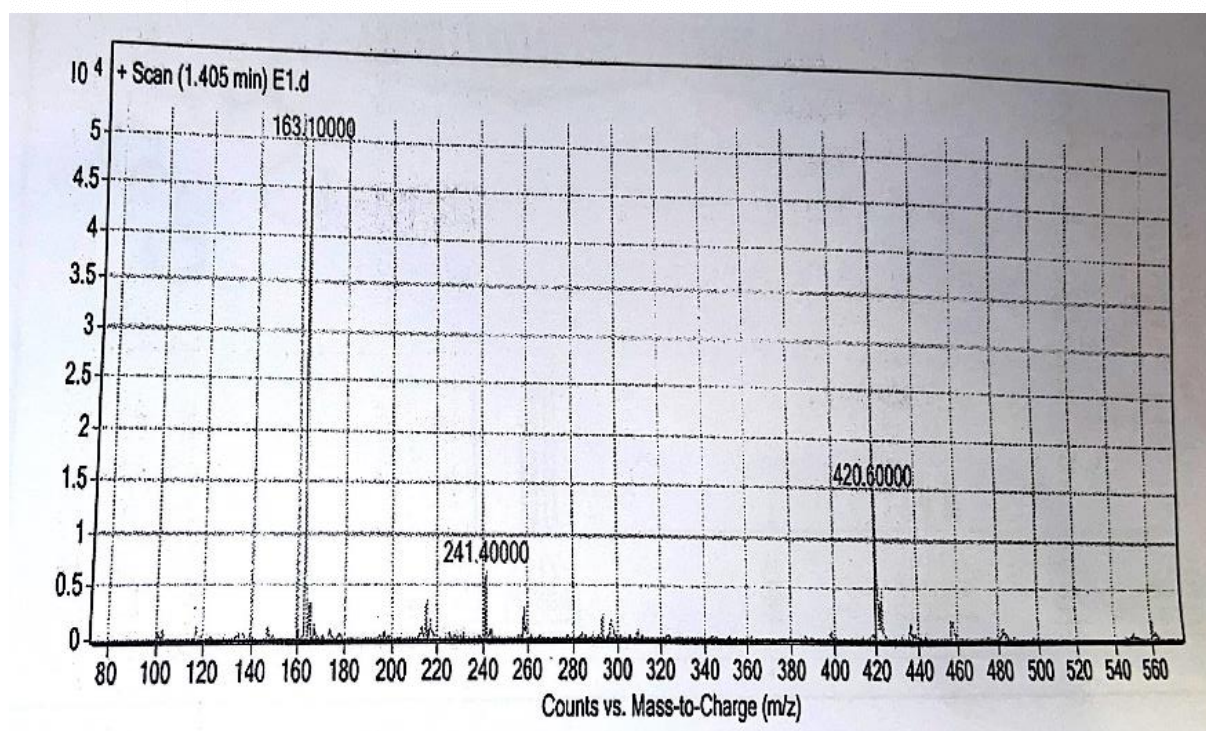
Supplementary data (21): Analysis data (IR, Mass, ^1H NMR, ^{13}C NMR) of 5-(4-chloro-2-phenoxyphenyl)-N-cyclohexyl-1,3,4-oxadiazole-2-Carboxamide (6f)

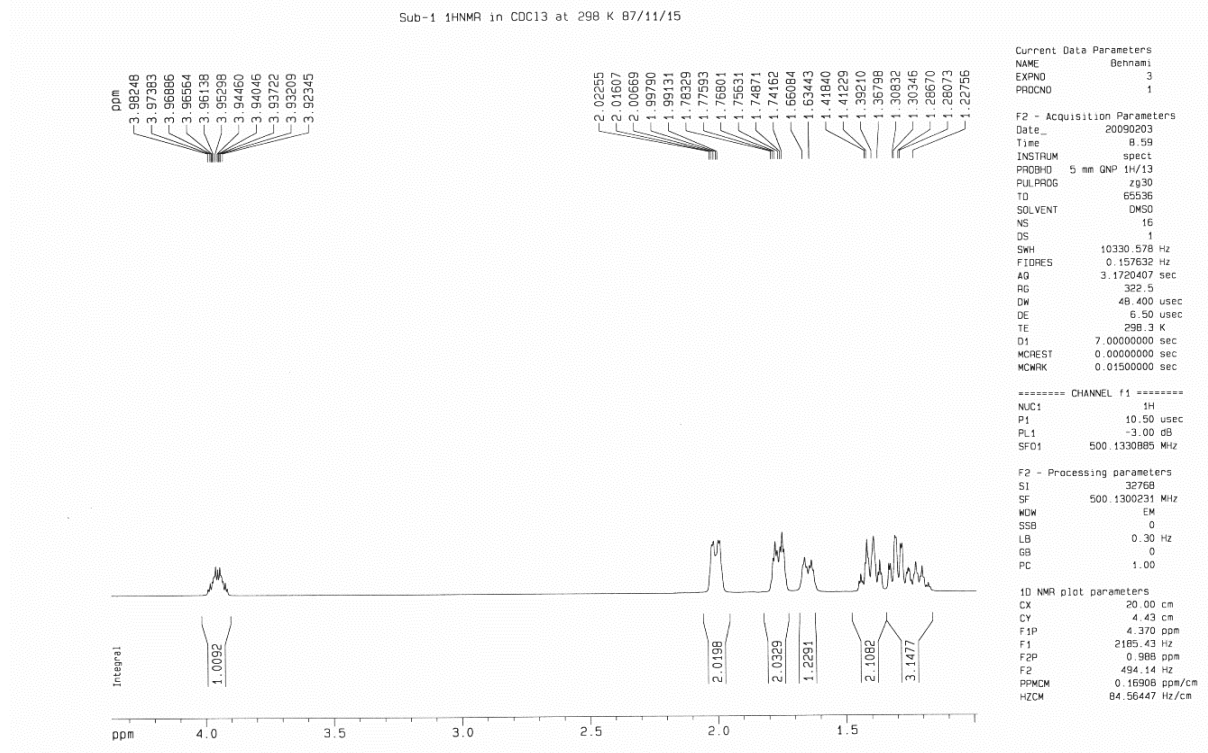
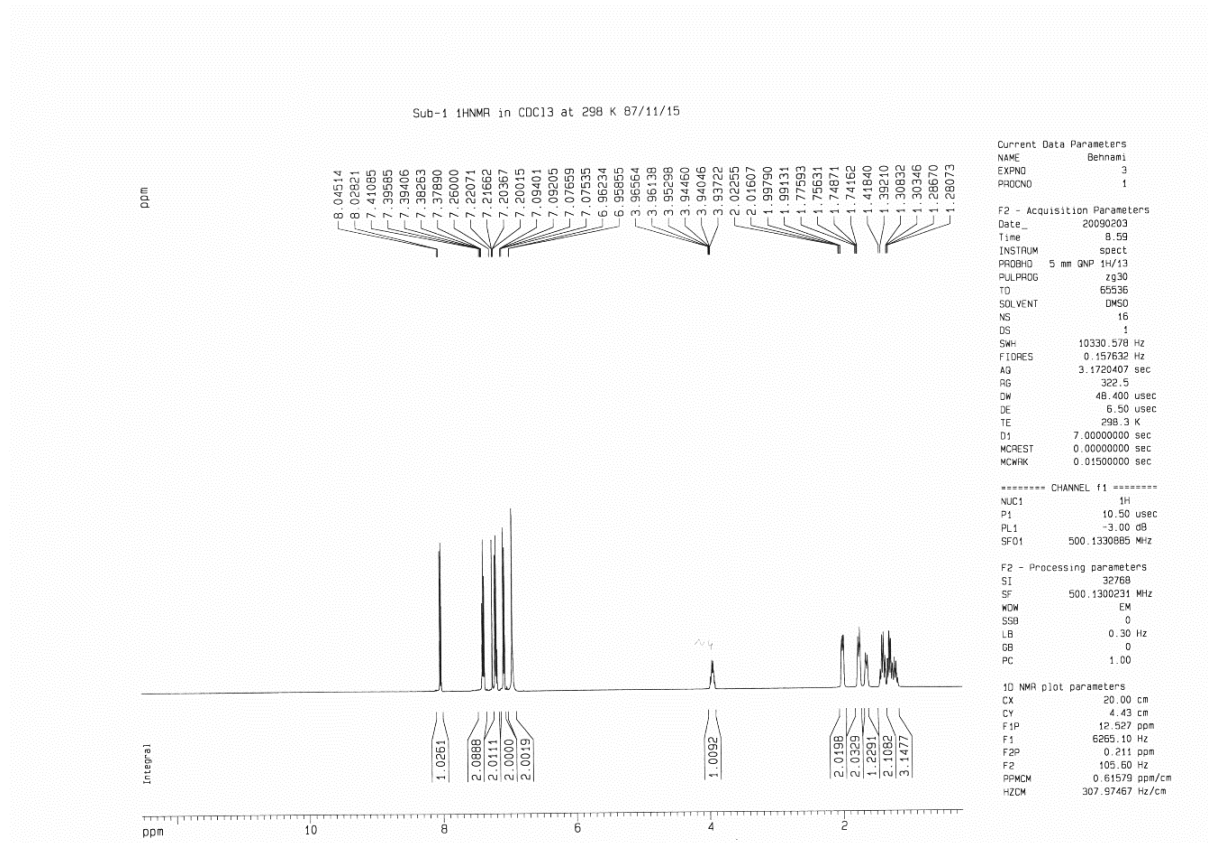
Shahid Beheshti University

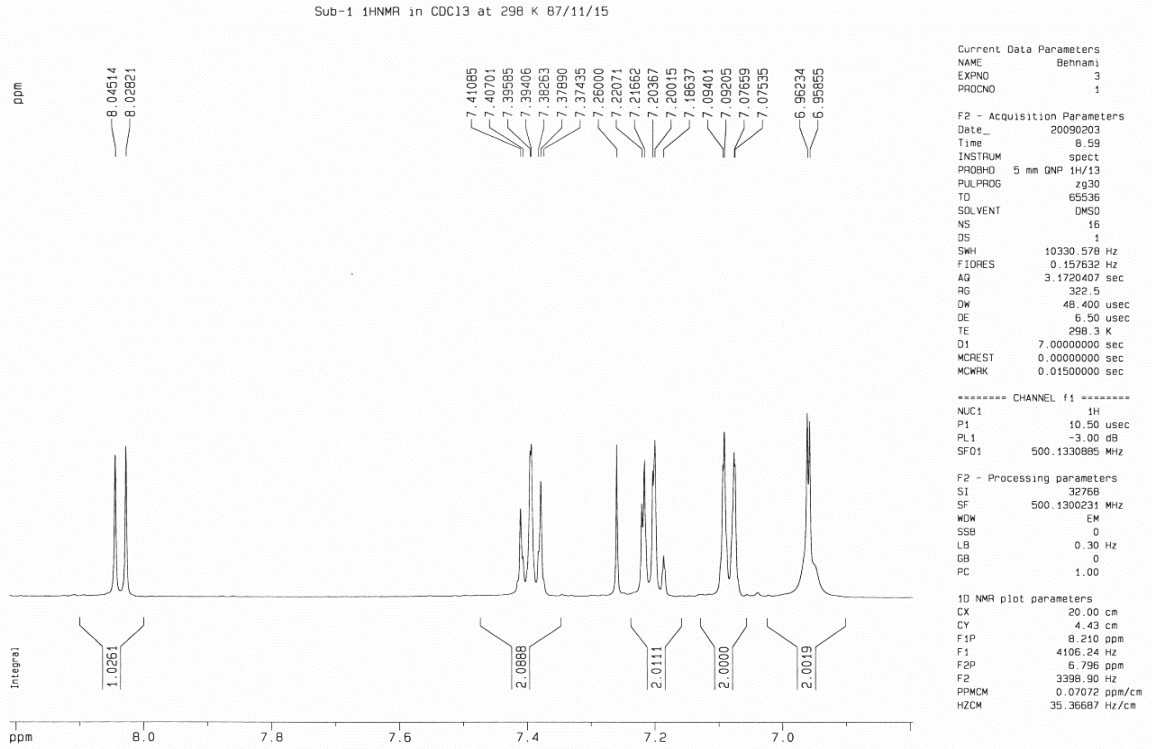
Instrumental Analysis Laboratory



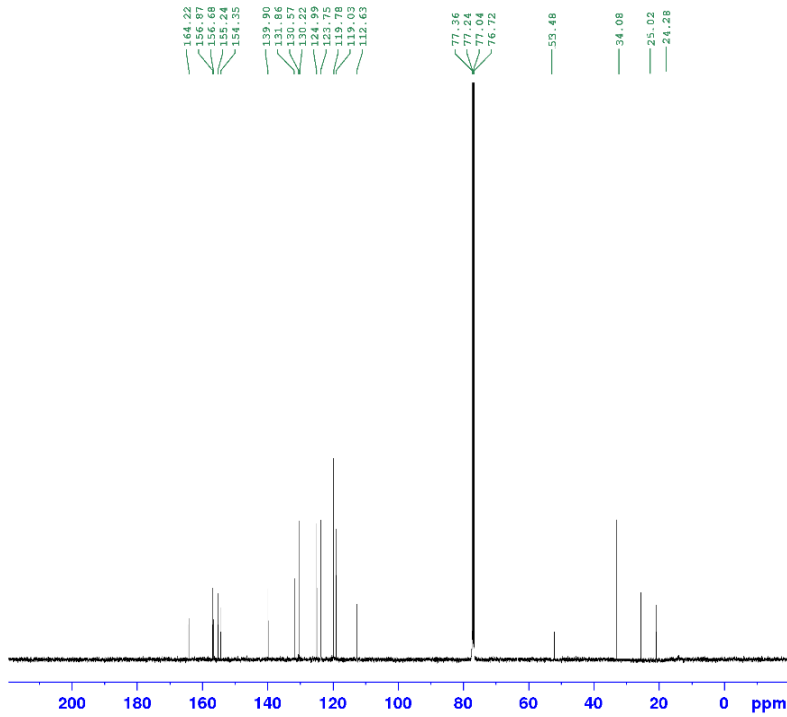
SAMPLE:	Acquisition Collection	SUPERVISOR:	Unknown	OPERATOR:	Unknown
SOLVENT:	KBr	STUDENT:	Dr Kobarfard	DATE:	Friday, September 01, 2006
CONCENTRATION:	100.000 mg/g	DEVICE MODEL:	PE 843 IR	TIME:	00:30:05







13C- Dr. Rezaei CO: 1



Current Data Parameters

NAME	Dr. Rezaei
EXPNO	72
PROCNO	1

F2 - Acquisition Parameters

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AQ	1.3631488 sec
RG	206.3
DW	20.800 usec
DE	6.50 usec
TE	298.3 K
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D11	0.03000000 sec
TDC	1
SFO1	100.6404331 MHz
NUC1	13C
P1	10.00 usec
PL1	0.00000000 dB
SFO2	400.2015008 MHz
NUC2	1H
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PCPD2	90.00 usec
PCMC	13.00000000 W
PCM12	0.31457000 W
PCM13	0.15823000 W

F2 - Processing parameters

SI	32768
SF	100.6303700 MHz
WDW	EM
SSB	0
LB	1.00 Hz
GB	0
PC	1.40

Supplementary data (22) to Figure 3a: Raw data of latency of entrance to the dark compartment (second) in passive avoidance test. One-way ANOVA with Tukey's HSD post-hoc test was used (n=8)

No. of animal	Control	6a (1.25 mg/kg)	6a (2.5 mg/kg)	6a (5 mg/kg)	6a (10 mg/kg)	Diazepam (1 mg/kg)
1	320	320	420	480	320	262
2	480	380	400	440	460	260
3	360	393	389	344	407	299
4	480	467	376	343	230	240
5	420	480	480	380	400	320
6	480	480	400	407	420	200
7	420	420	480	480	480	206
8	420	420	363	251	326	333

Supplementary data (23) to Figure 3b: Raw data of Sleeping time (minute) in pentobarbital induced sleep test. One-way ANOVA with Tukey's HSD post-hoc test was used (n=8)

No. of animal	Control	6a (1.25 mg/kg)	6a (2.5 mg/kg)	6a (5 mg/kg)	6a (10 mg/kg)	6a (10 mg/kg) + Flumazenil	Diazepam (2 mg/kg)
1	25	26	32	48	53	43	48
2	40	38	40	44	64	34	45
3	25	39	38	50	47	27	40
4	40	46	46	43	43	34	41
5	30	28	48	57	40	32	54
6	20	20	40	40	55	43	59
7	33	24	36	50	49	29	46
8	40	32	37	56	47	27	58

Supplementary data (24) to Figure 4a: Raw data of % duration in open arms in elevated plus maze test. One-way ANOVA with Tukey's HSD post-hoc test was used (n=8)

No. of animal	Control	6a (1.25 mg/kg)	6a (2.5 mg/kg)	6a (5 mg/kg)	6a (10 mg/kg)	Diazepam (2 mg/kg)
1	43.46	35.00	38.62	51.49	57.55	94.26
2	0.00	33.00	39.93	55.45	53.71	85.00
3	44.35	44.00	49.52	55.59	52.34	90.00
4	53.91	40.00	43.28	56.51	56.82	66.15
5	46.00	47.00	37.18	61.83	62.42	54.00
6	0.00	36.21	50.82	52.34	54.62	60.00
7	31.41	35.00	33.27	51.49	58.96	68.00
8	34.06	41.00	36.78	48.34	73.22	57.00

Supplementary data (25) to Figure 4b: Raw data of % duration in close arms in elevated plus maze test. One-way ANOVA with Tukey's HSD post-hoc test was used (n=8)

No. of animal	Control	6a (1.25 mg/kg)	6a (2.5 mg/kg)	6a (5 mg/kg)	6a (10 mg/kg)	Diazepam (2 mg/kg)
1	56.53	65.00	61.37	48.50	42.44	5.73
2	100.00	67.00	60.06	44.54	46.28	15.00
3	55.64	56.00	50.48	44.40	47.65	10.00
4	46.08	60.00	56.72	43.48	43.17	33.84
5	53.98	53.00	62.82	38.16	37.57	46.00
6	100.00	64.00	49.18	47.65	45.37	40.00
7	68.58	65.00	66.73	48.50	41.04	32.00
8	65.93	59.00	63.22	51.65	26.78	43.00