

## Supplementary Information

### Copper complexes and carbon nanotube-copper ferrite-catalyzed benzenoid A-ring selenation of quinones: An efficient method for the synthesis of trypanocidal agents

Guilherme A. M. Jardim,<sup>a,b</sup> Icaro A. O. Bozzi,<sup>a</sup> Willian X. C. Oliveira,<sup>a</sup> Camila Mesquita-Rodrigues,<sup>c</sup> Rubem F. S. Menna-Barreto,<sup>c</sup> Ramar A. Kumar,<sup>d,e</sup> Edmond Gravel,<sup>d</sup> Eric Doris,<sup>d\*</sup> Antonio L. Braga<sup>b</sup> and Eufrânio N. da Silva Júnior<sup>a\*</sup>

<sup>a</sup>Institute of Exact Sciences, Department of Chemistry, Federal University of Minas Gerais, Belo Horizonte, MG, 31270-901, Brazil. E-mail: eufranio@ufmg.br;

<sup>b</sup>Department of Chemistry, Federal University of Santa Catarina, 88040-900 Florianópolis, Brazil;

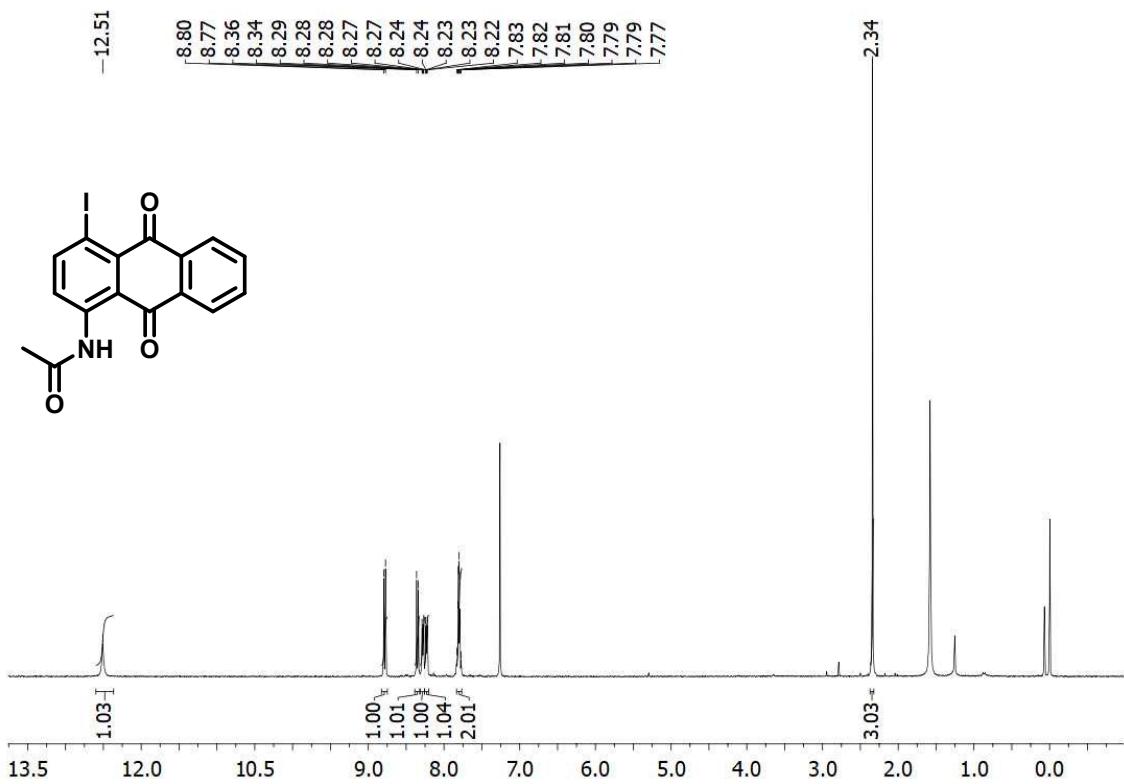
<sup>c</sup>Oswaldo Cruz Institute, FIOCRUZ, Rio de Janeiro, RJ, 21045-900, Brazil;

<sup>d</sup>Service de Chimie Bioorganique et de Marquage (SCBM) CEA, Université Paris-Saclay 91191 Gif-sur-Yvette (France), E-mail: eric.doris@cea.fr;

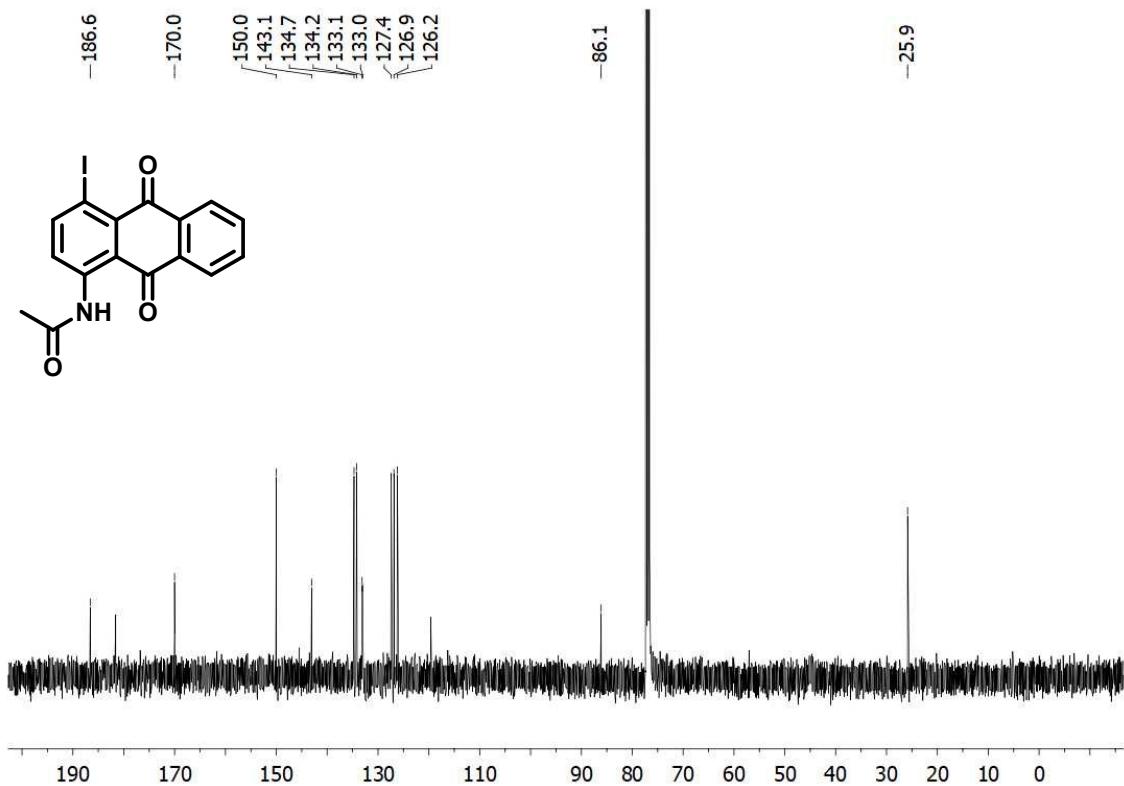
<sup>e</sup>SRM Research Institute, Department of Chemistry, SRM Institute of Science and Technology, Kattankulathur, 603203 Chennai, India.

## Contents

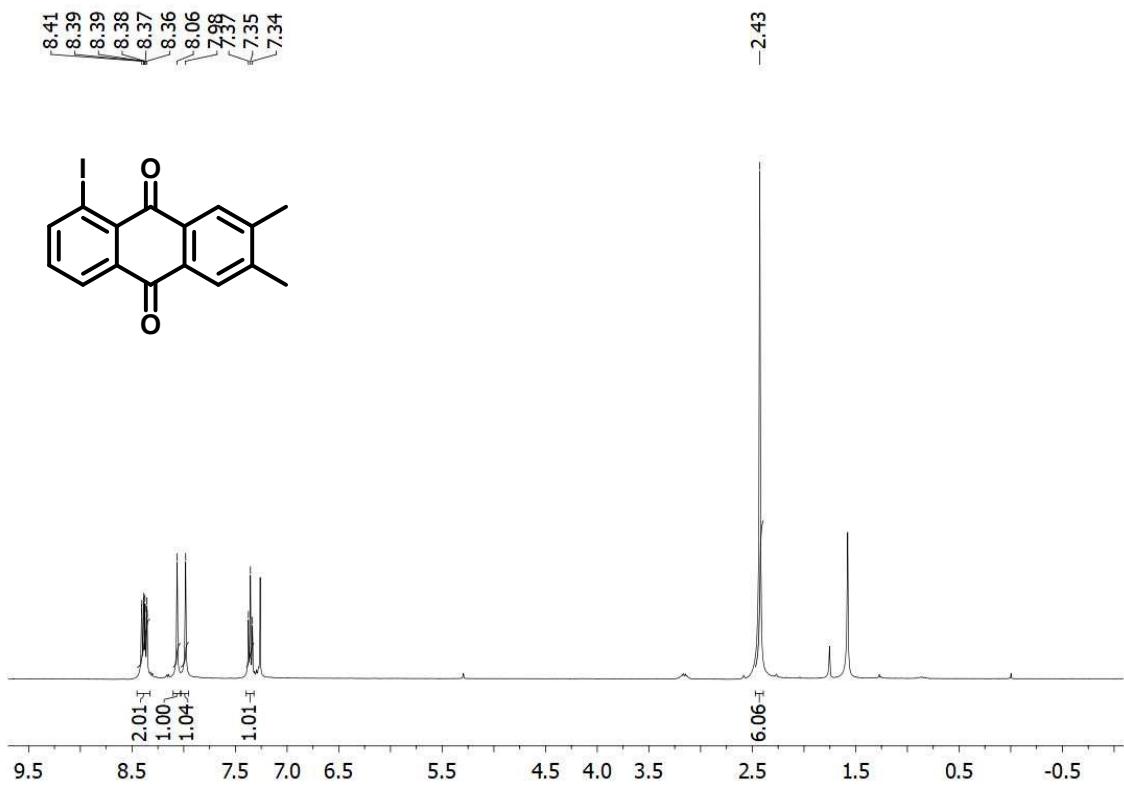
A) Copies of NMR spectra of novel compounds	S02
B) Copies of HRMS spectra of novel compounds	S27



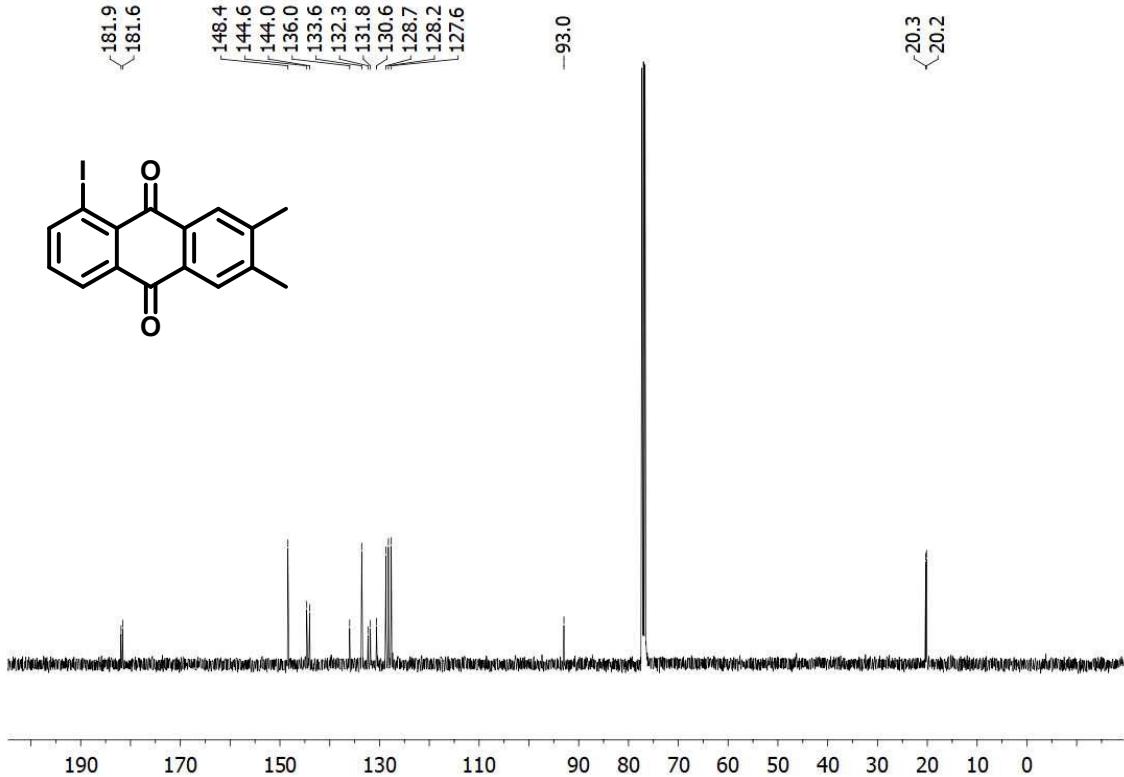
<sup>1</sup>H NMR spectrum (400 MHz, CDCl<sub>3</sub>) of compound **1p**



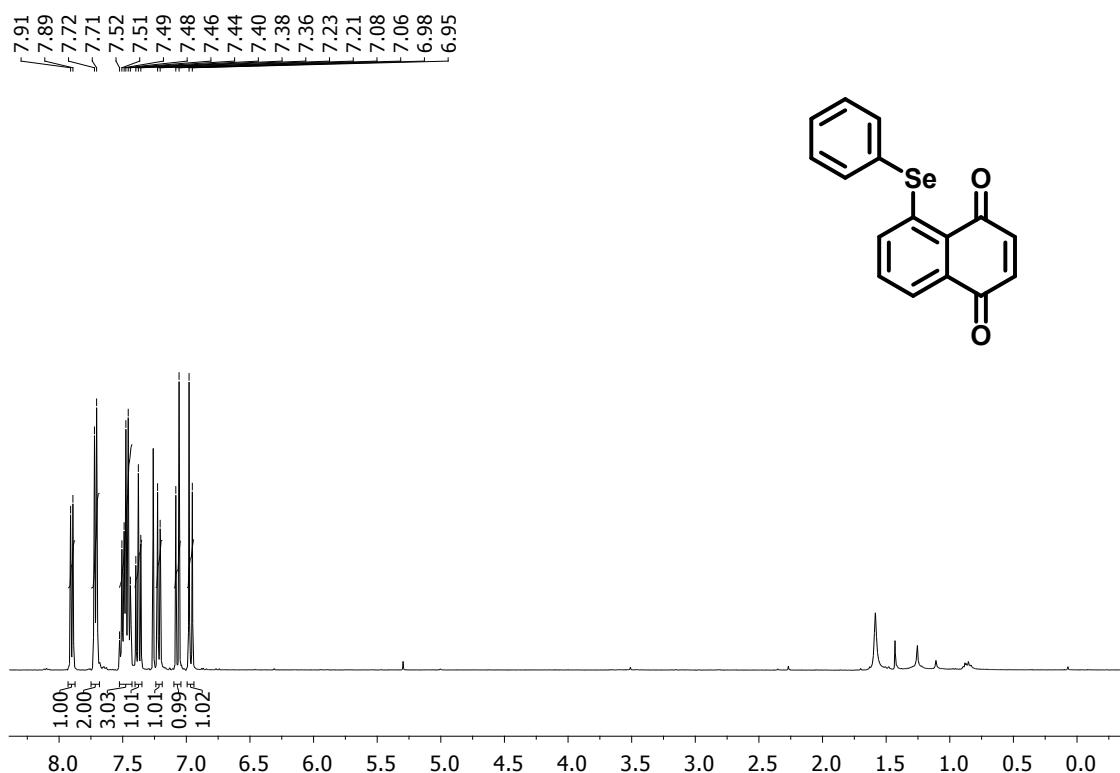
<sup>13</sup>C NMR spectrum (100 MHz, CDCl<sub>3</sub>) of compound **1p**



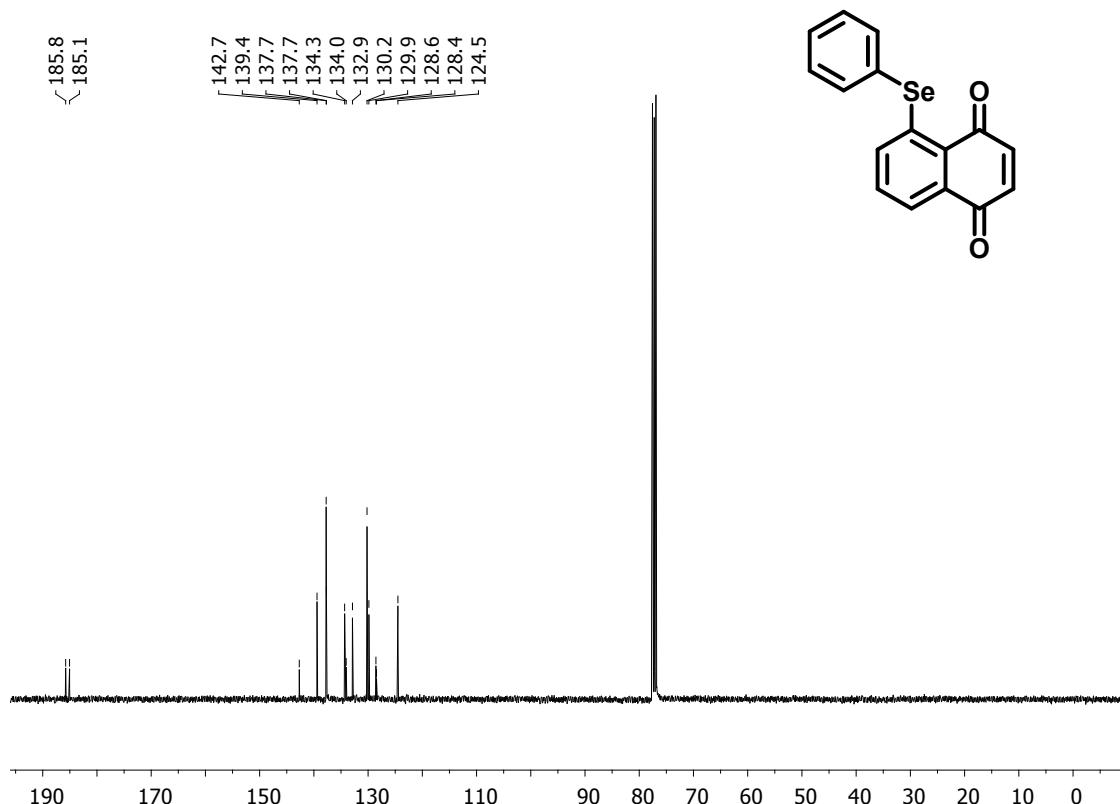
<sup>1</sup>H NMR spectrum (400 MHz, CDCl<sub>3</sub>) of compound **1r**



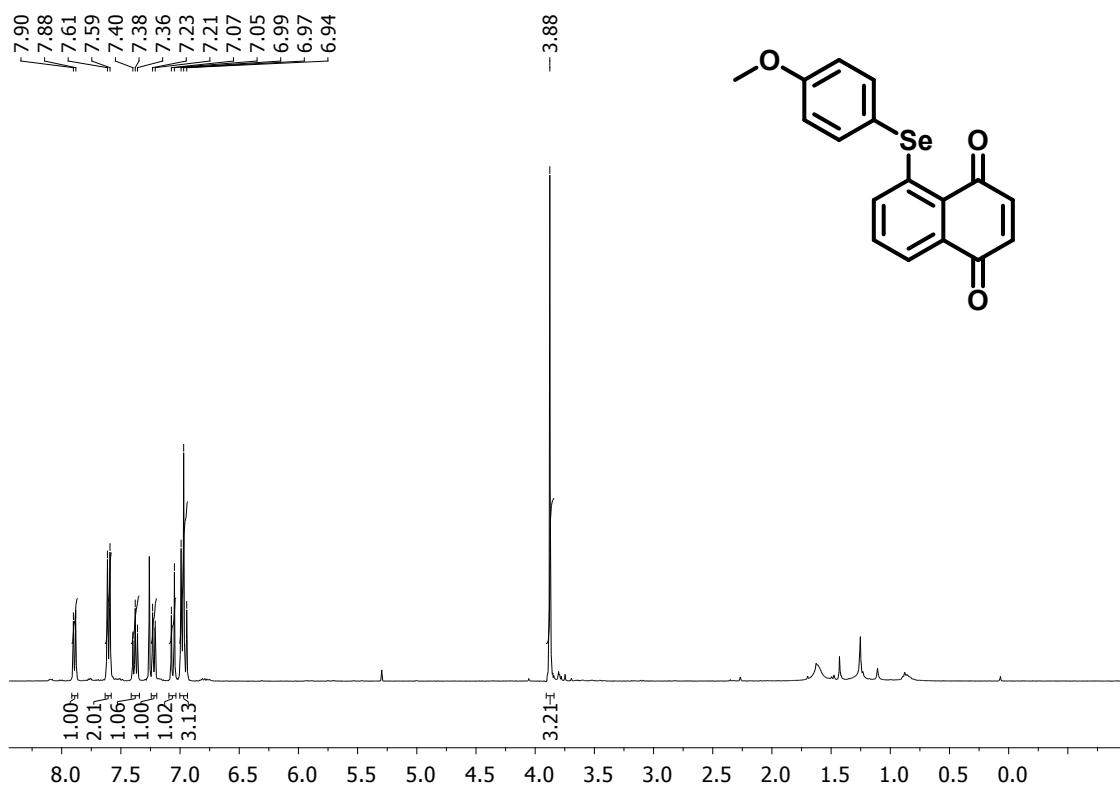
<sup>13</sup>C NMR spectrum (100 MHz, CDCl<sub>3</sub>) of compound **1r**



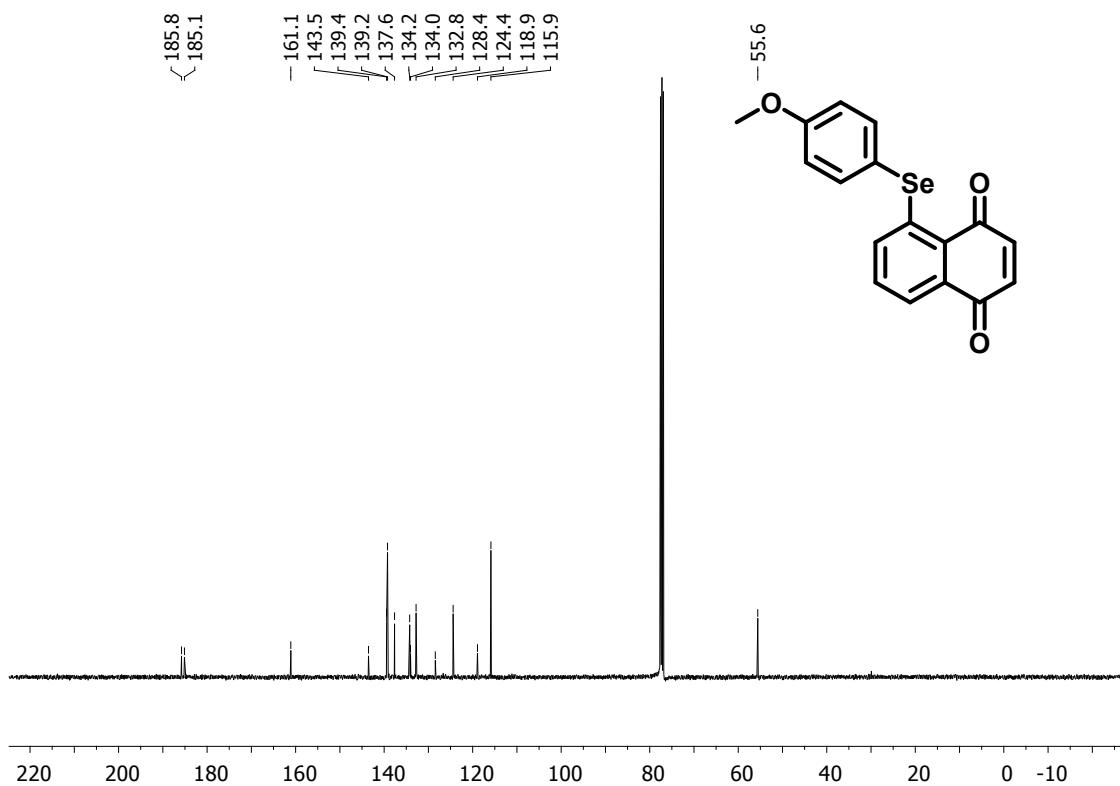
<sup>1</sup>H NMR spectrum (400 MHz, CDCl<sub>3</sub>) of compound **2a**



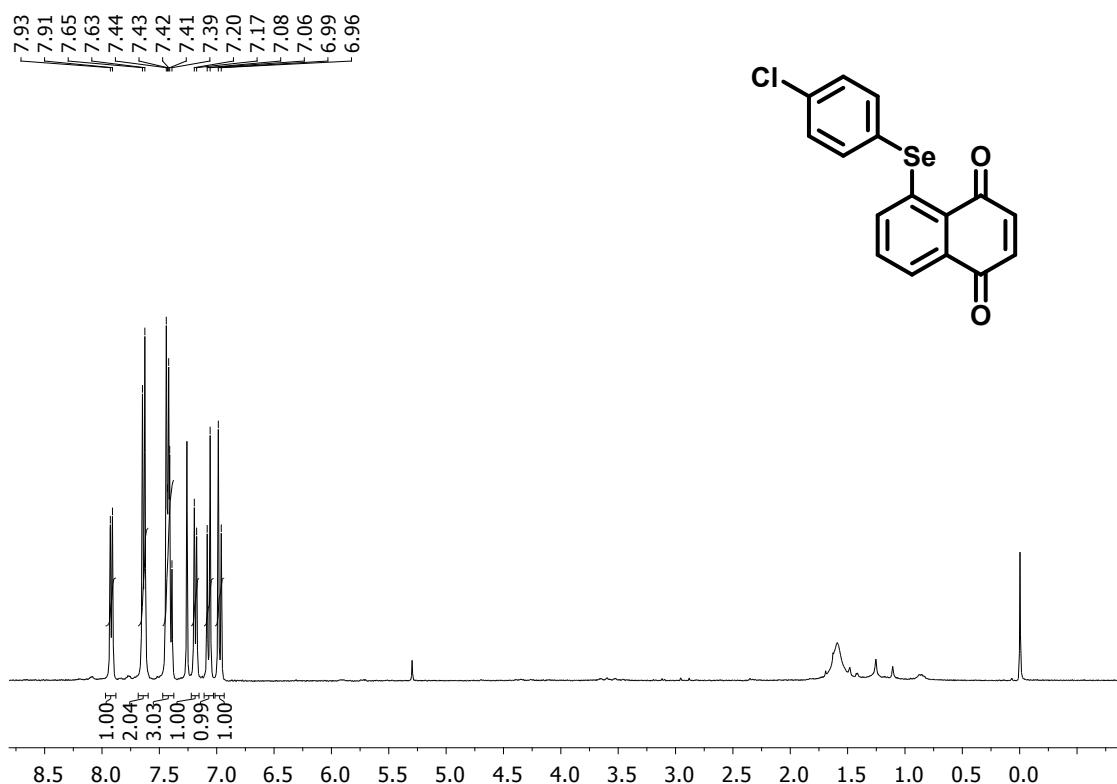
<sup>13</sup>C NMR spectrum (100 MHz, CDCl<sub>3</sub>) of compound **2a**



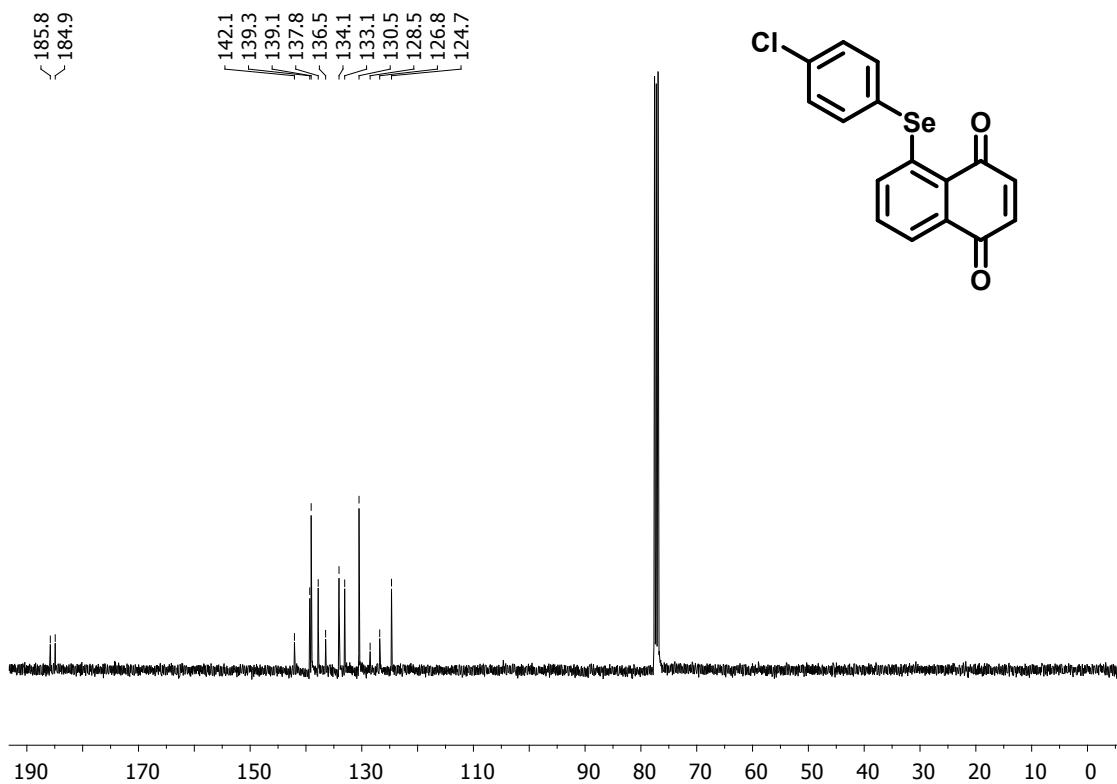
<sup>1</sup>H NMR spectrum (400 MHz, CDCl<sub>3</sub>) of compound **2b**



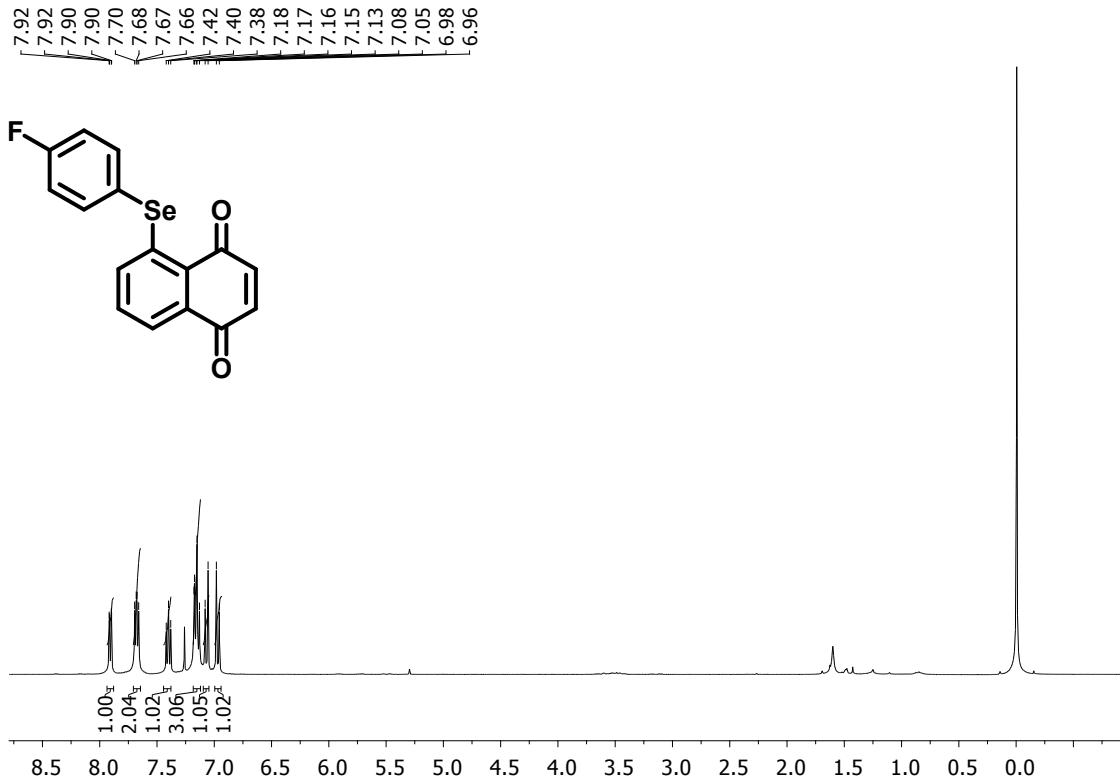
<sup>13</sup>C NMR spectrum (100 MHz, CDCl<sub>3</sub>) of compound **2b**



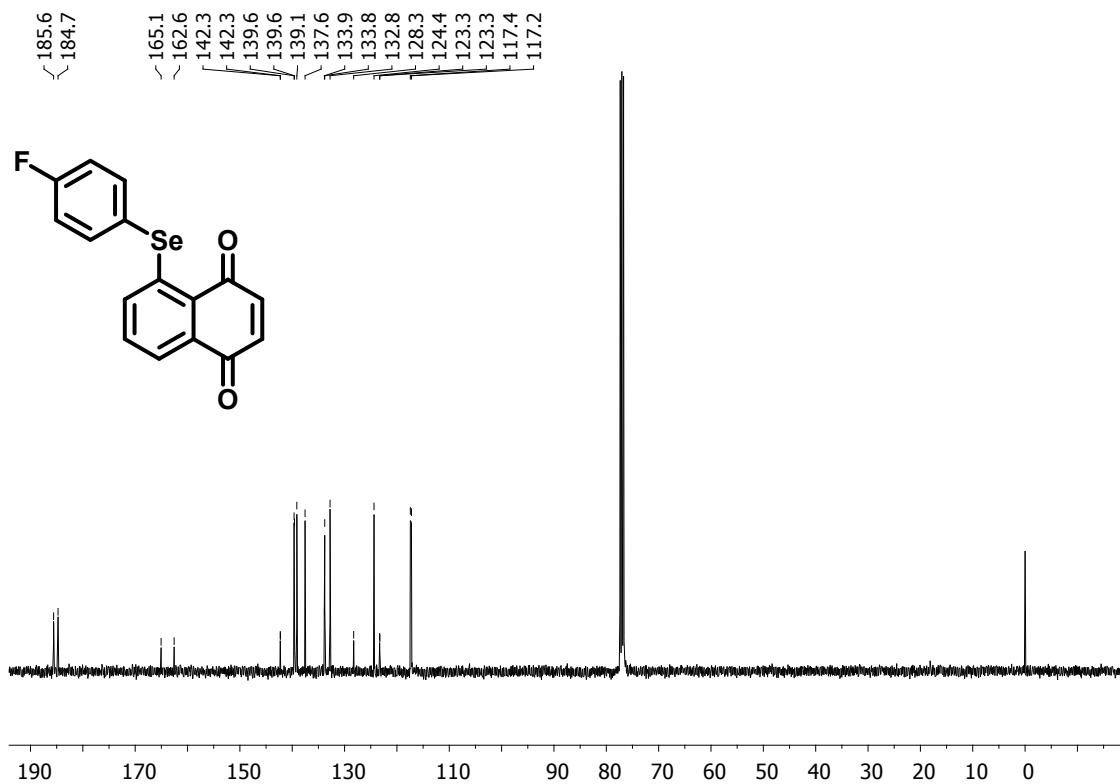
<sup>1</sup>H NMR spectrum (400 MHz, CDCl<sub>3</sub>) of compound 2c



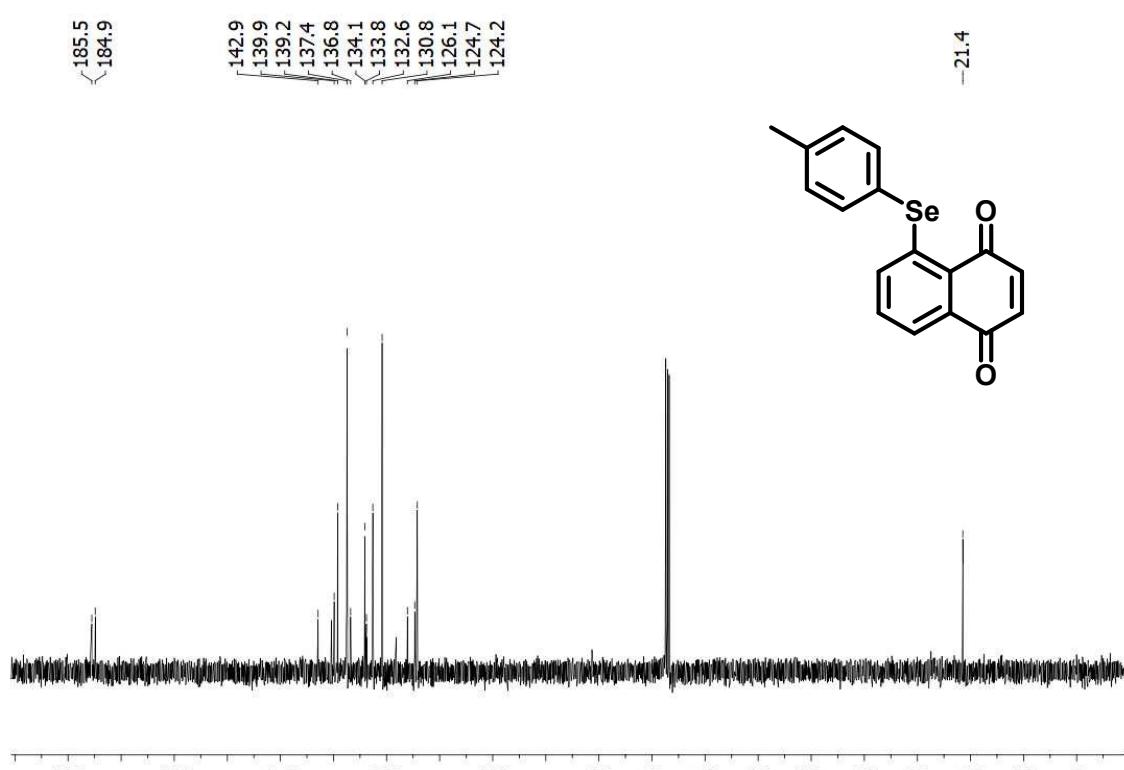
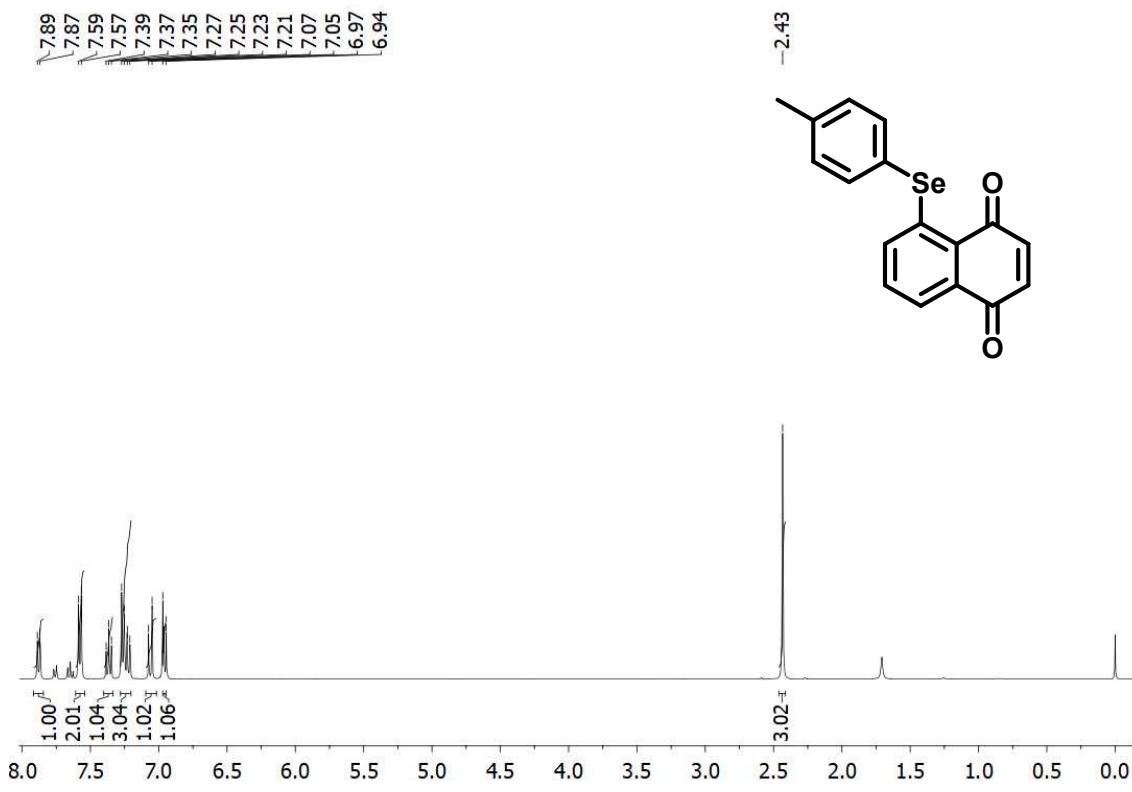
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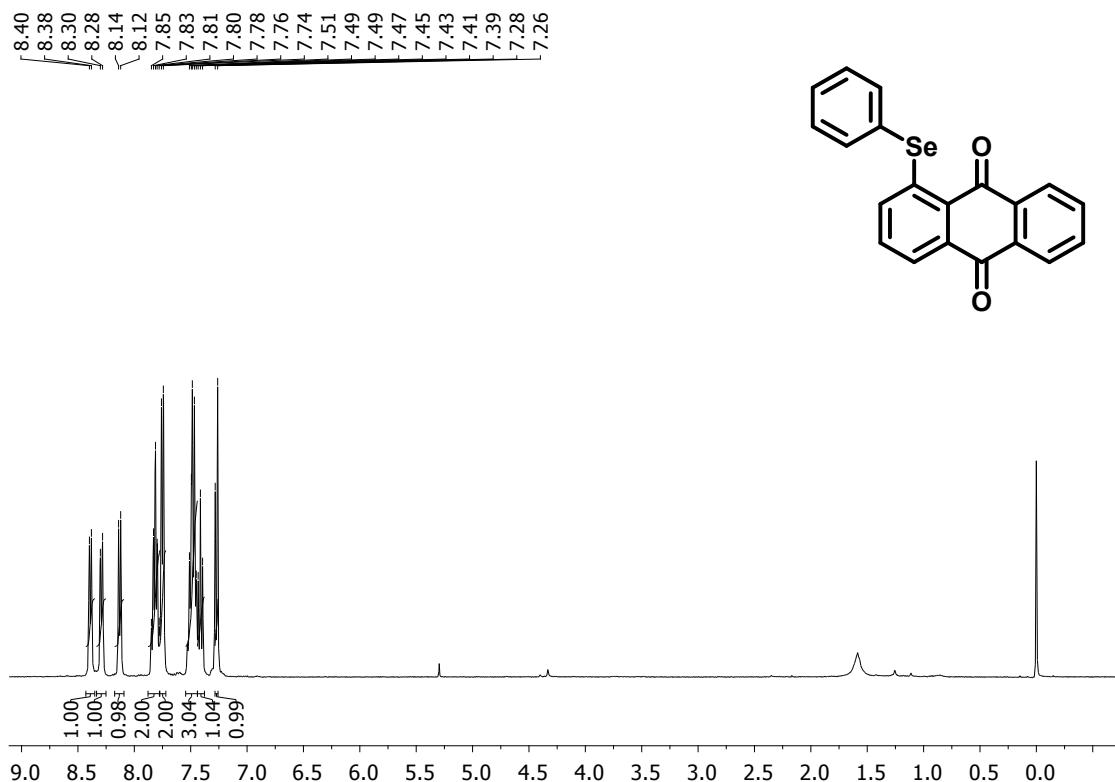


<sup>1</sup>H NMR spectrum (400 MHz, CDCl<sub>3</sub>) of compound **2d**

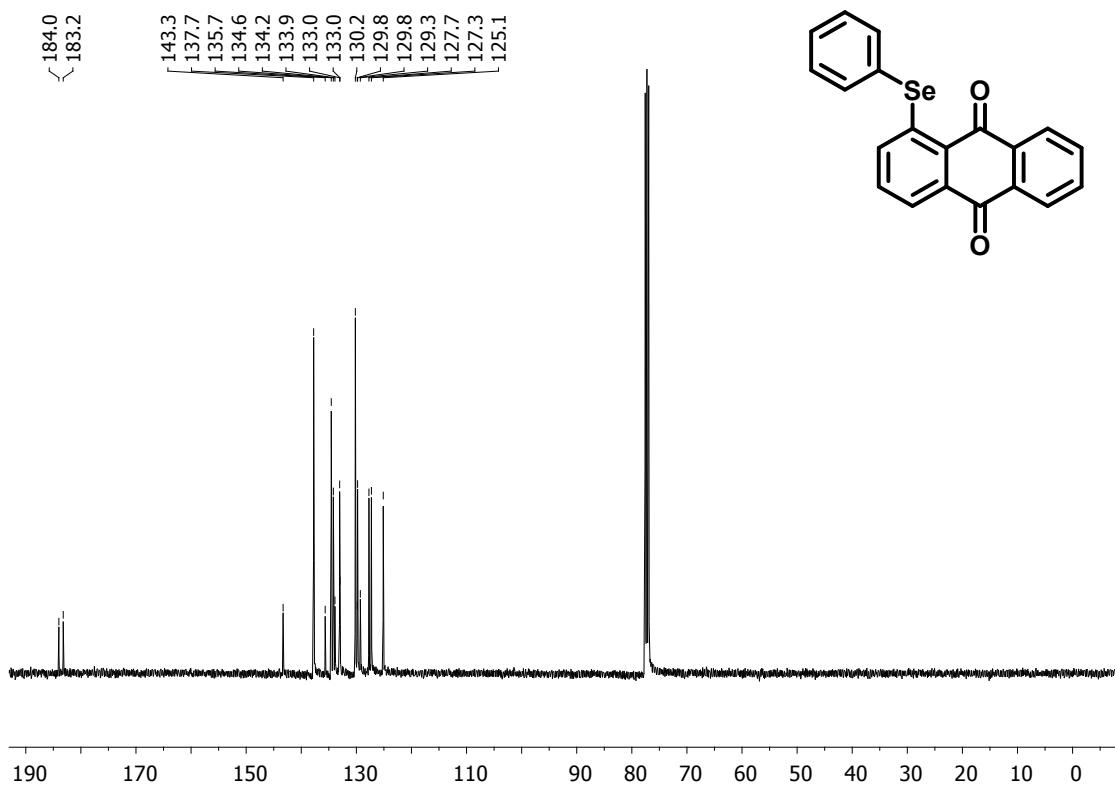


<sup>13</sup>C NMR spectrum (100 MHz, CDCl<sub>3</sub>) of compound **2d**

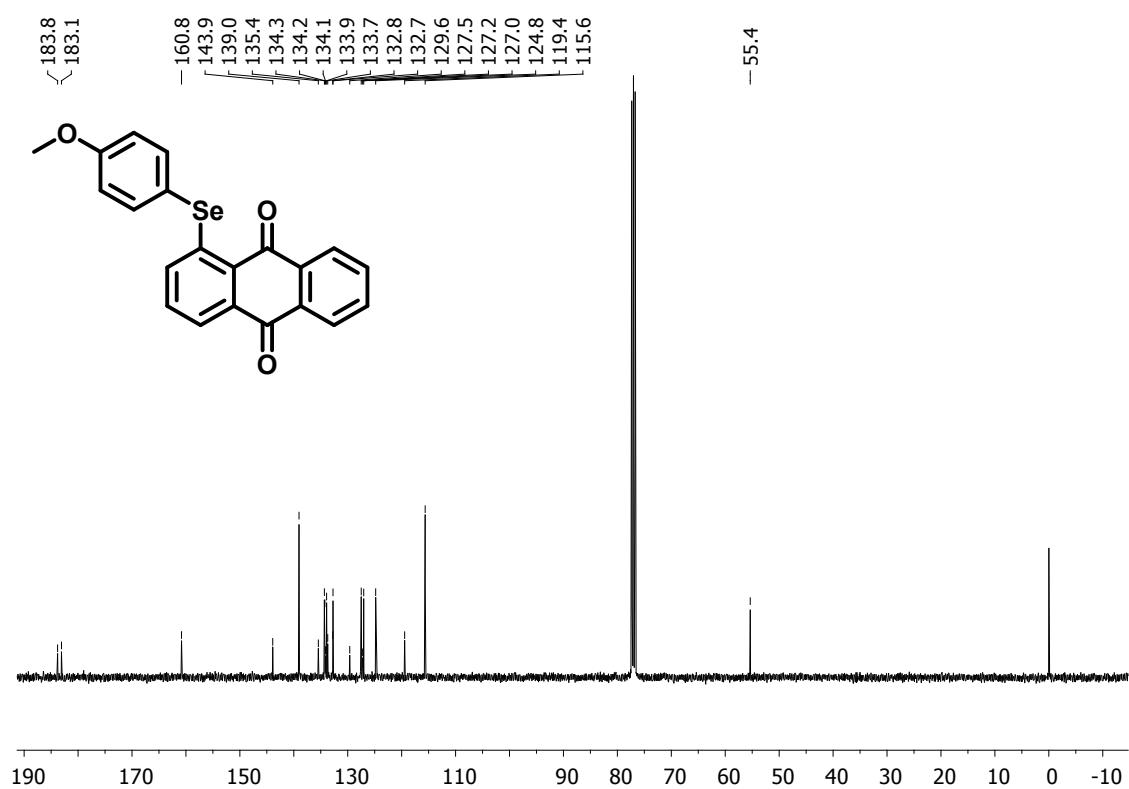
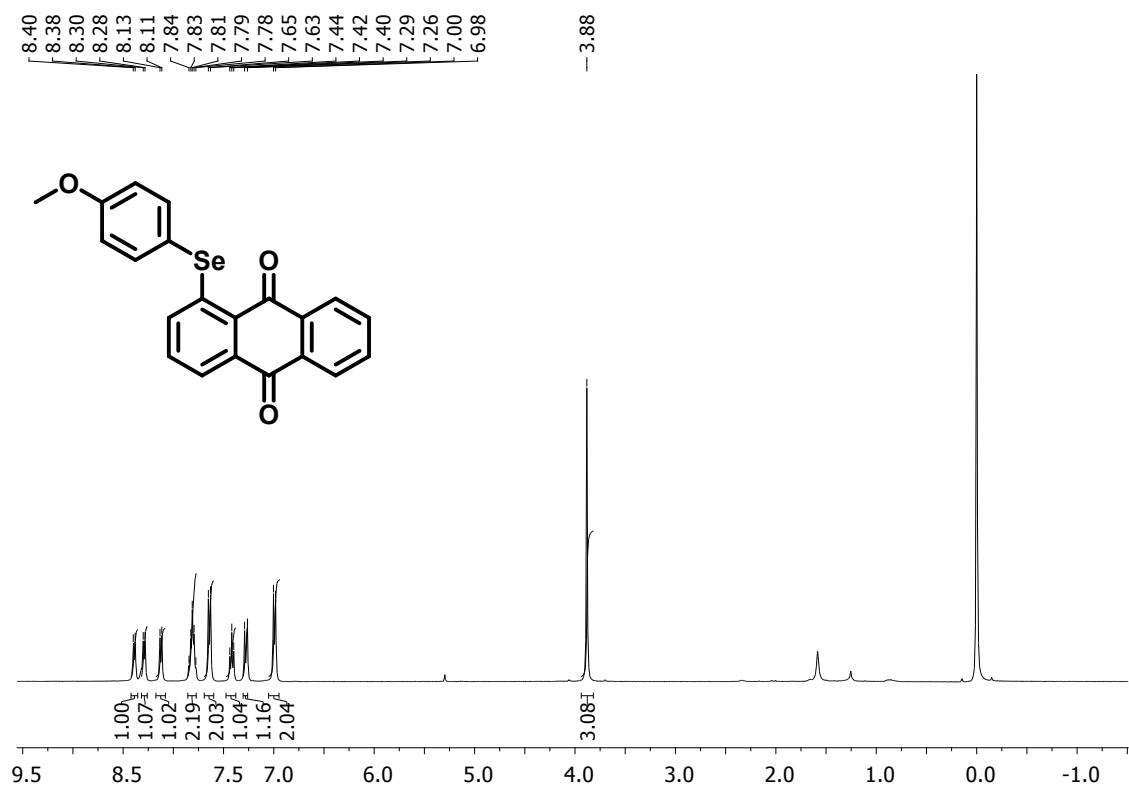


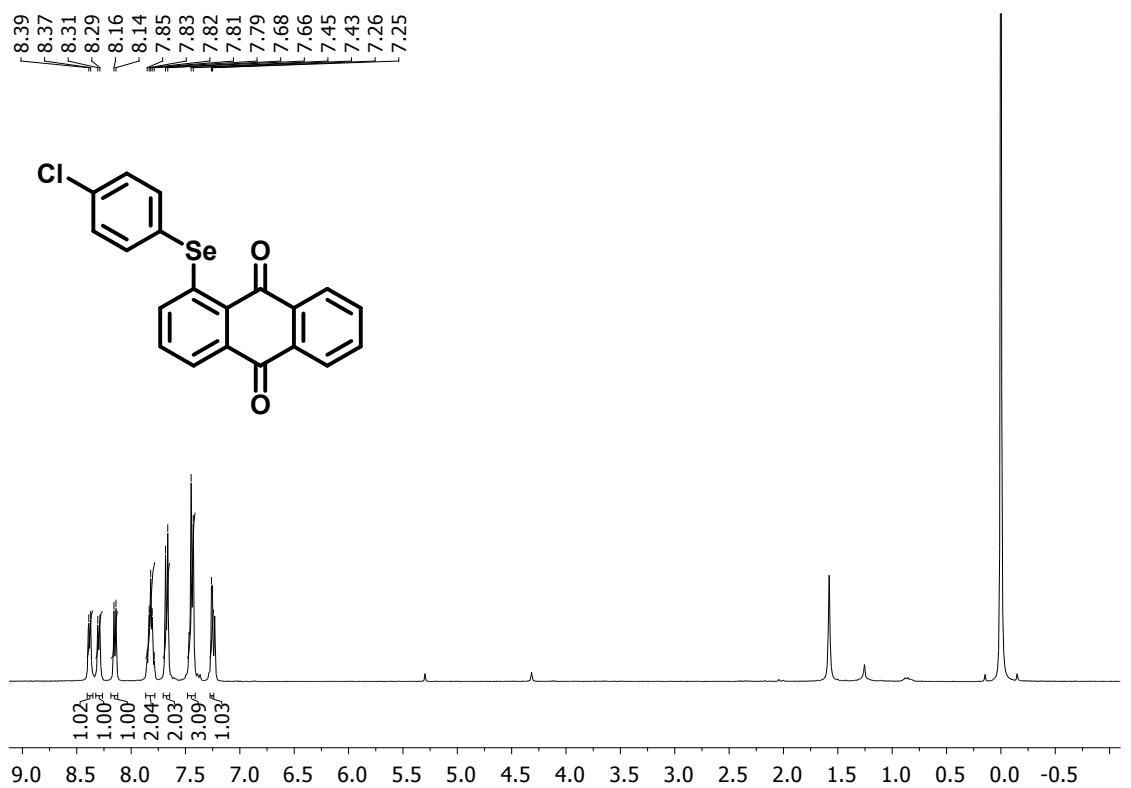


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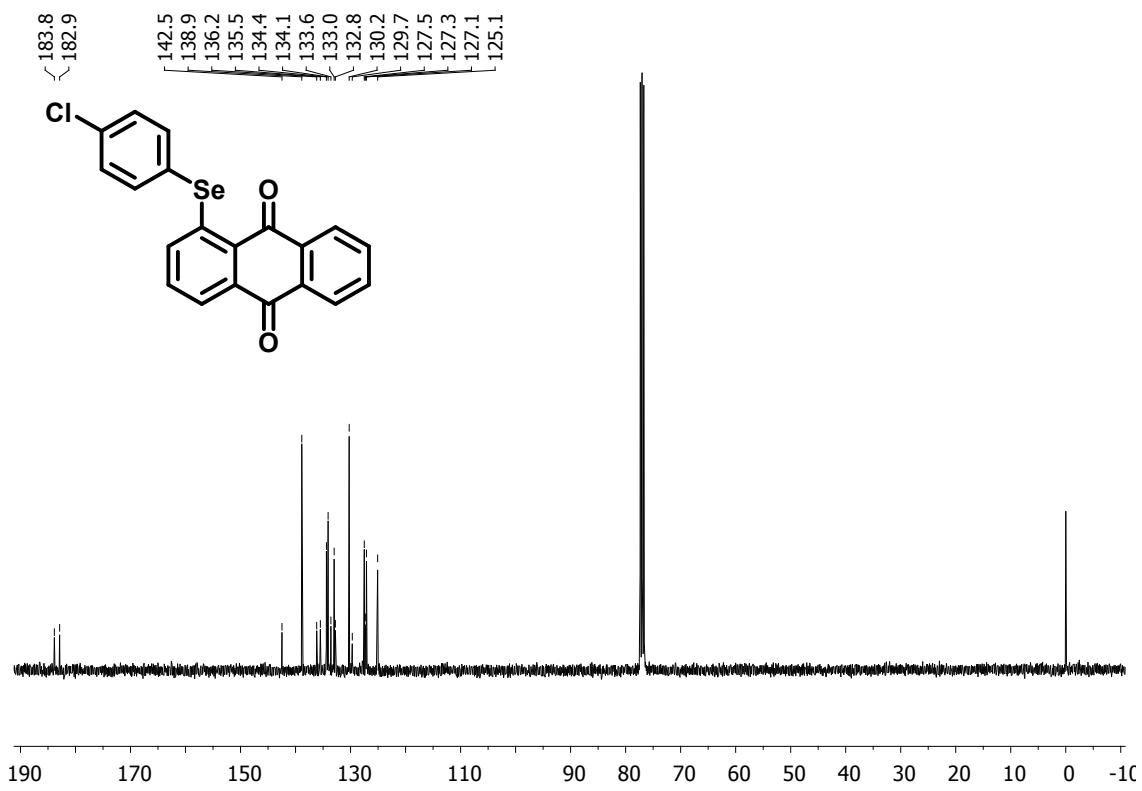


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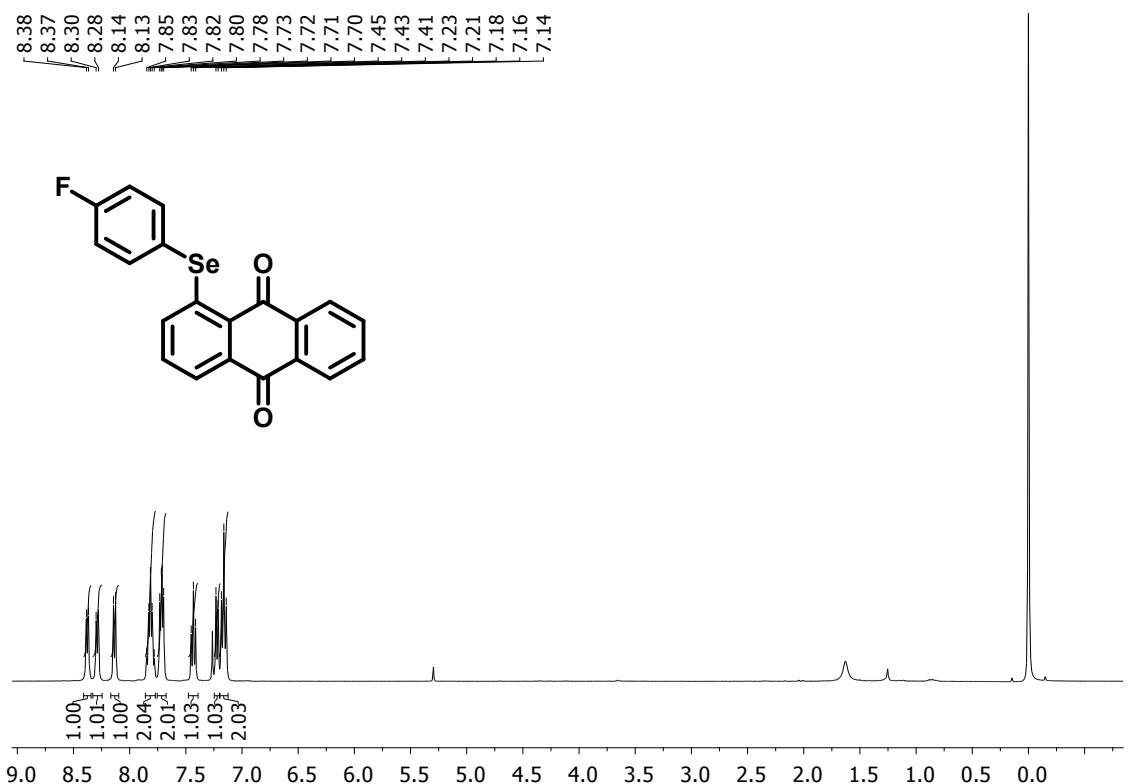




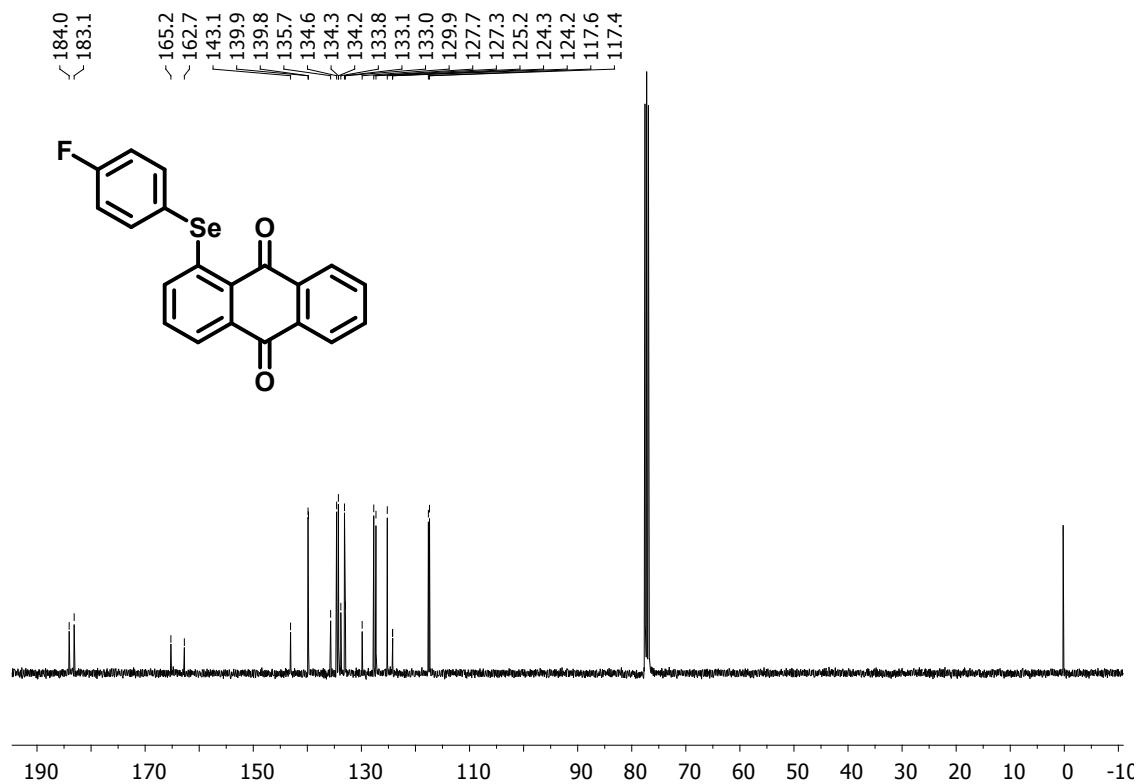
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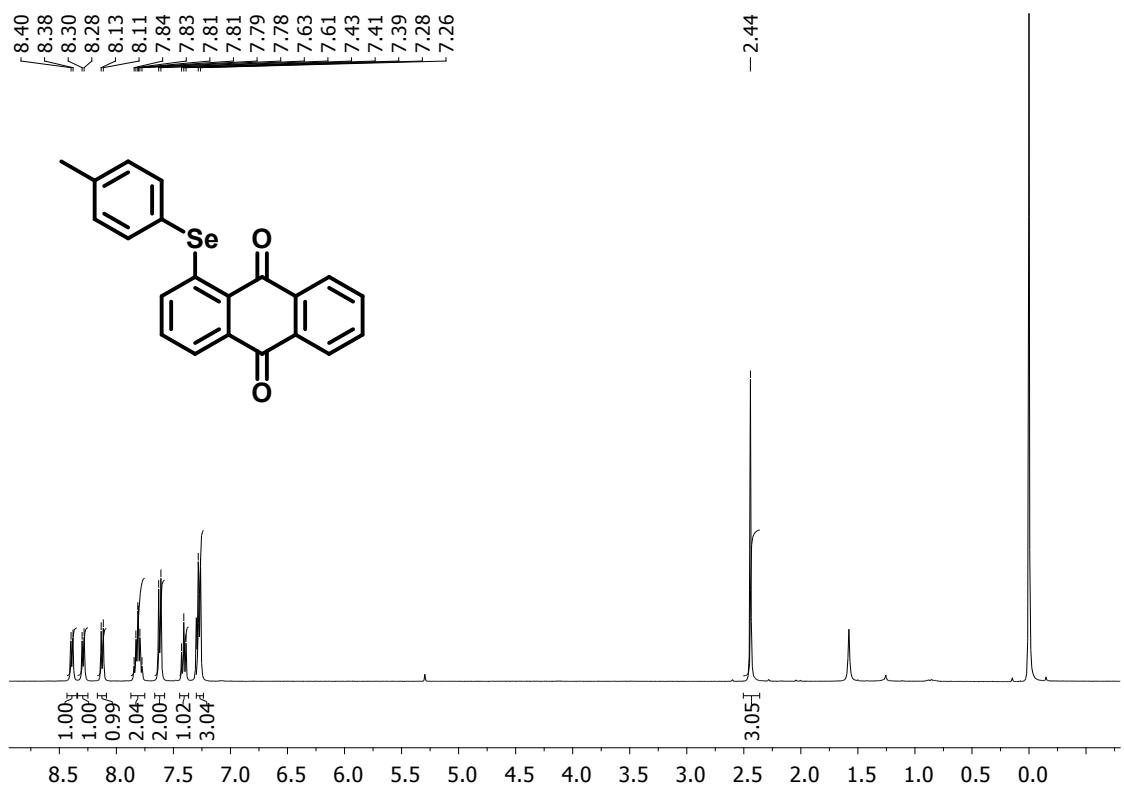
<sup>13</sup>C NMR spectrum (100 MHz, CDCl<sub>3</sub>) of compound **2h**



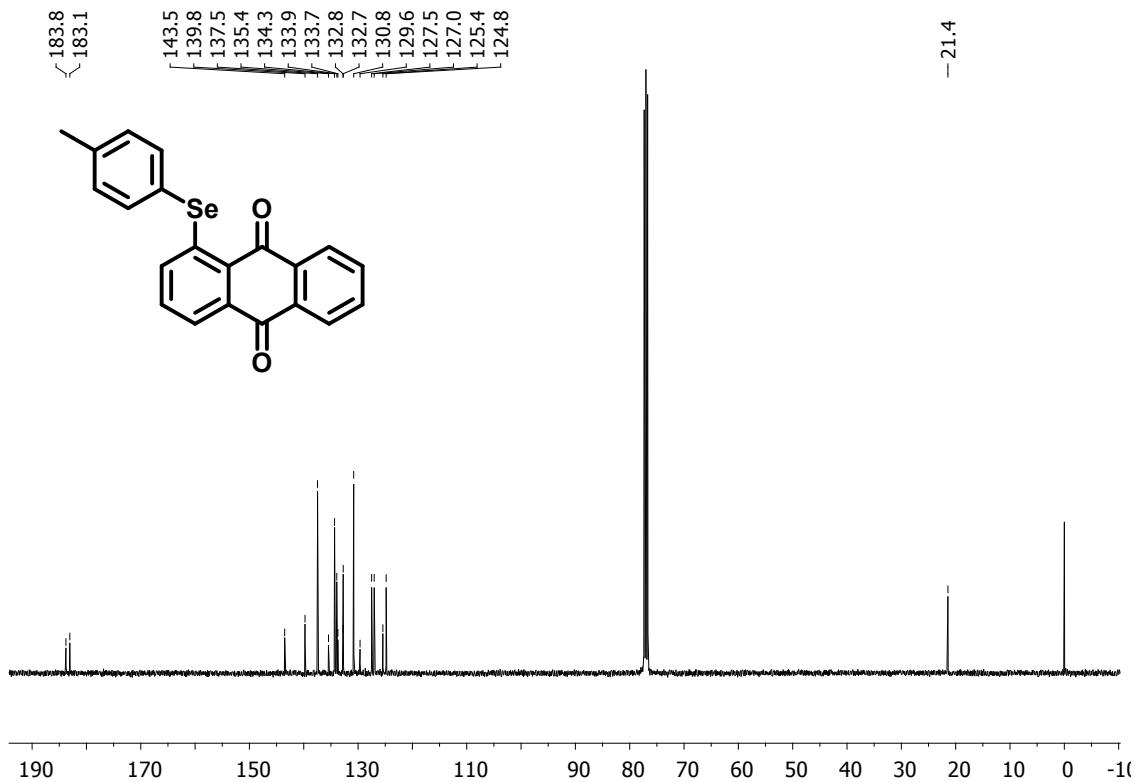
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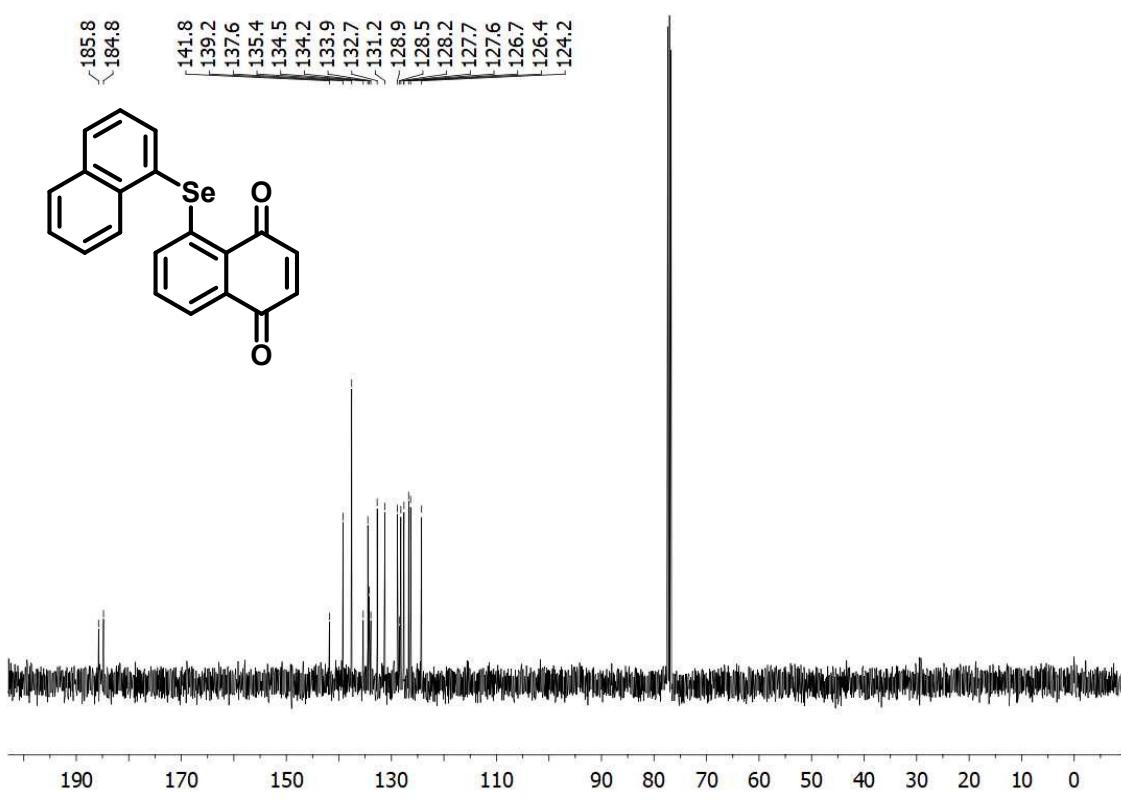
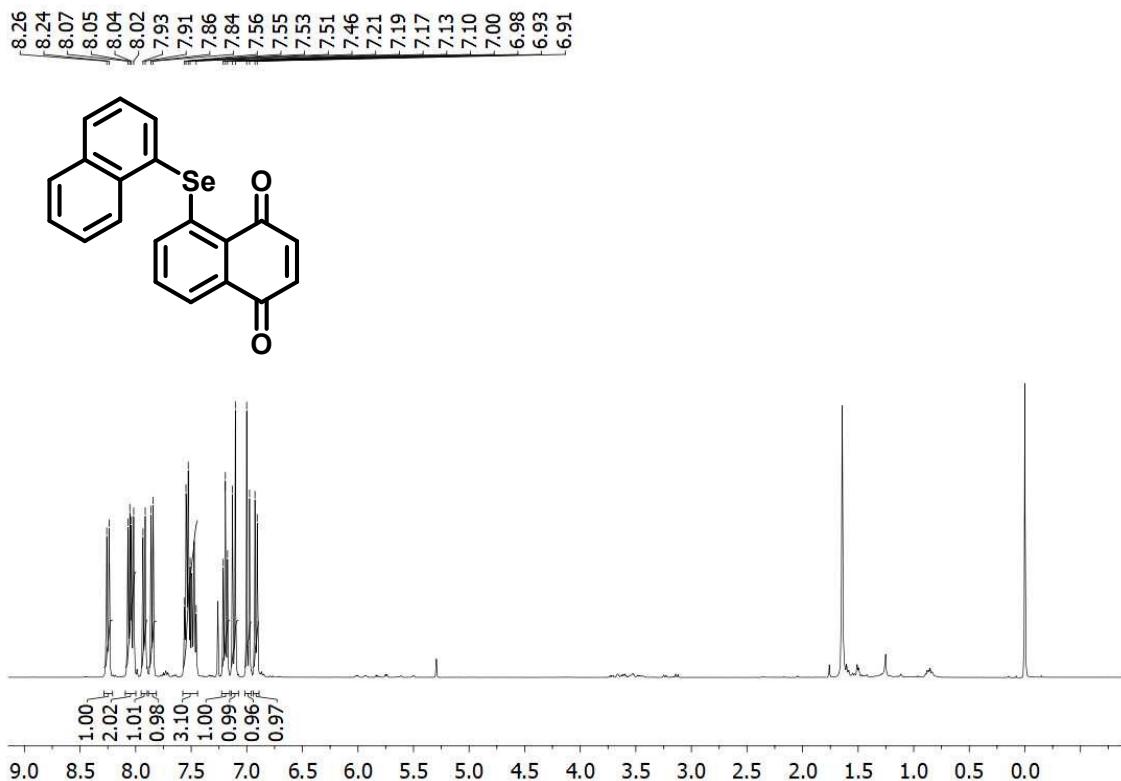
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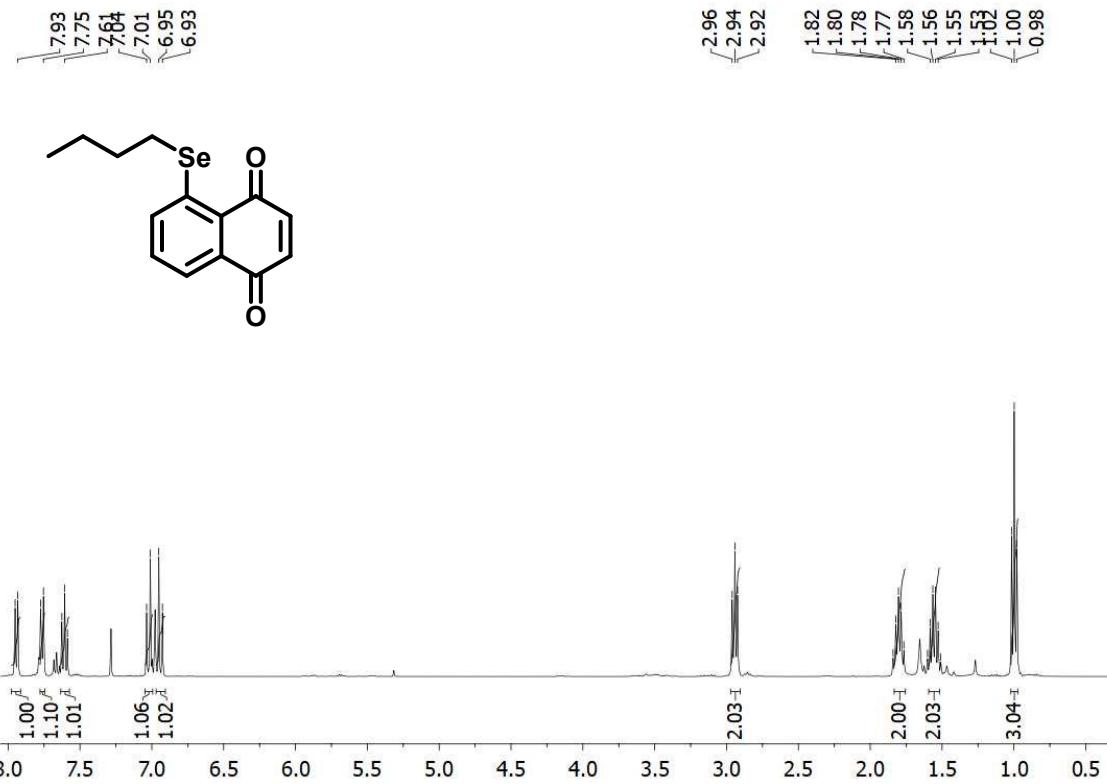


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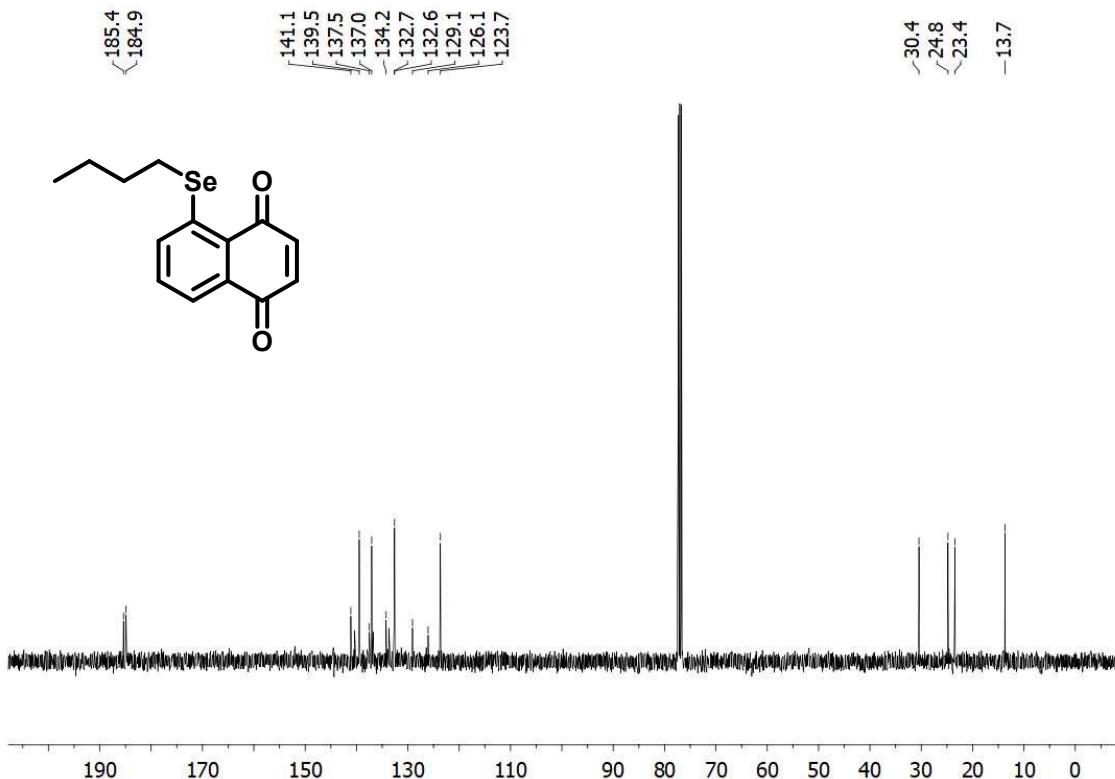


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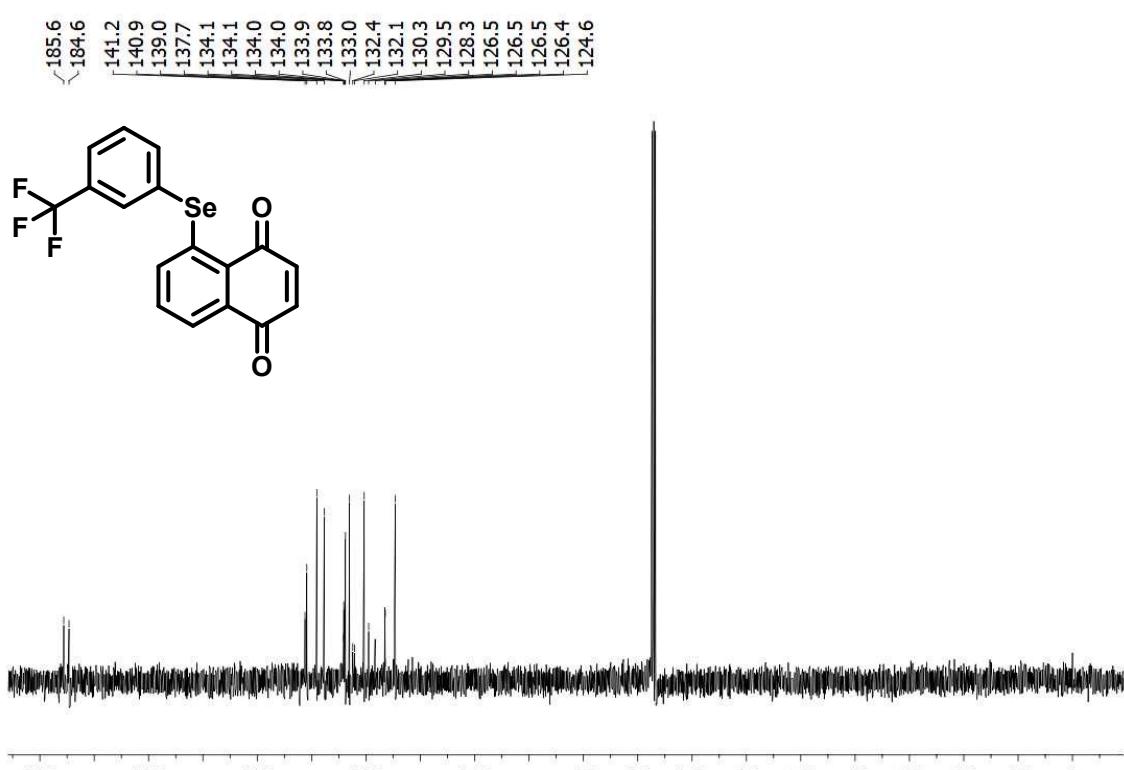
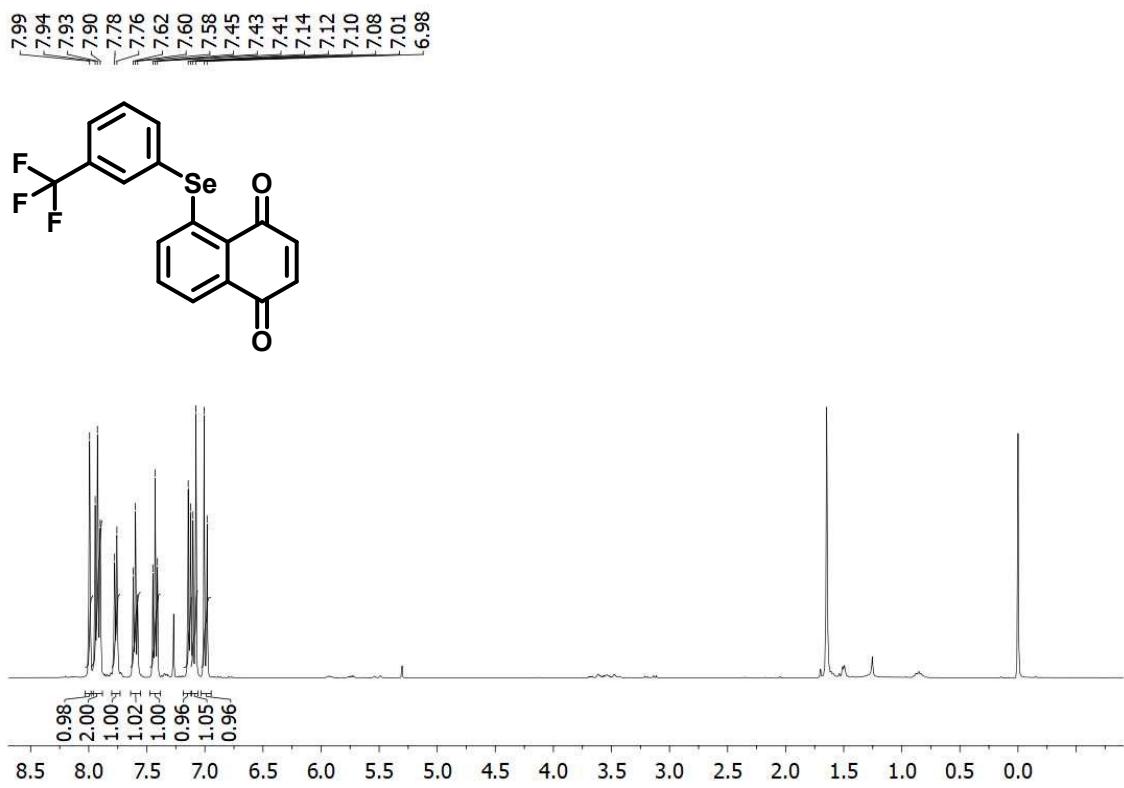


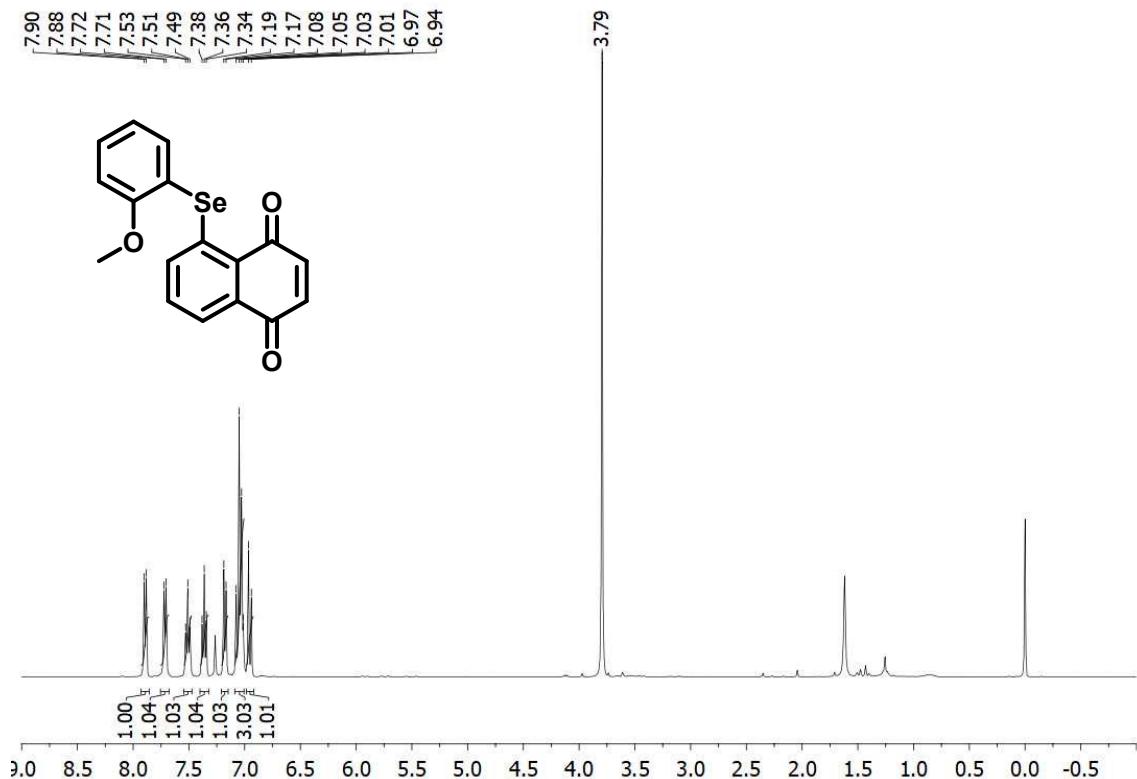


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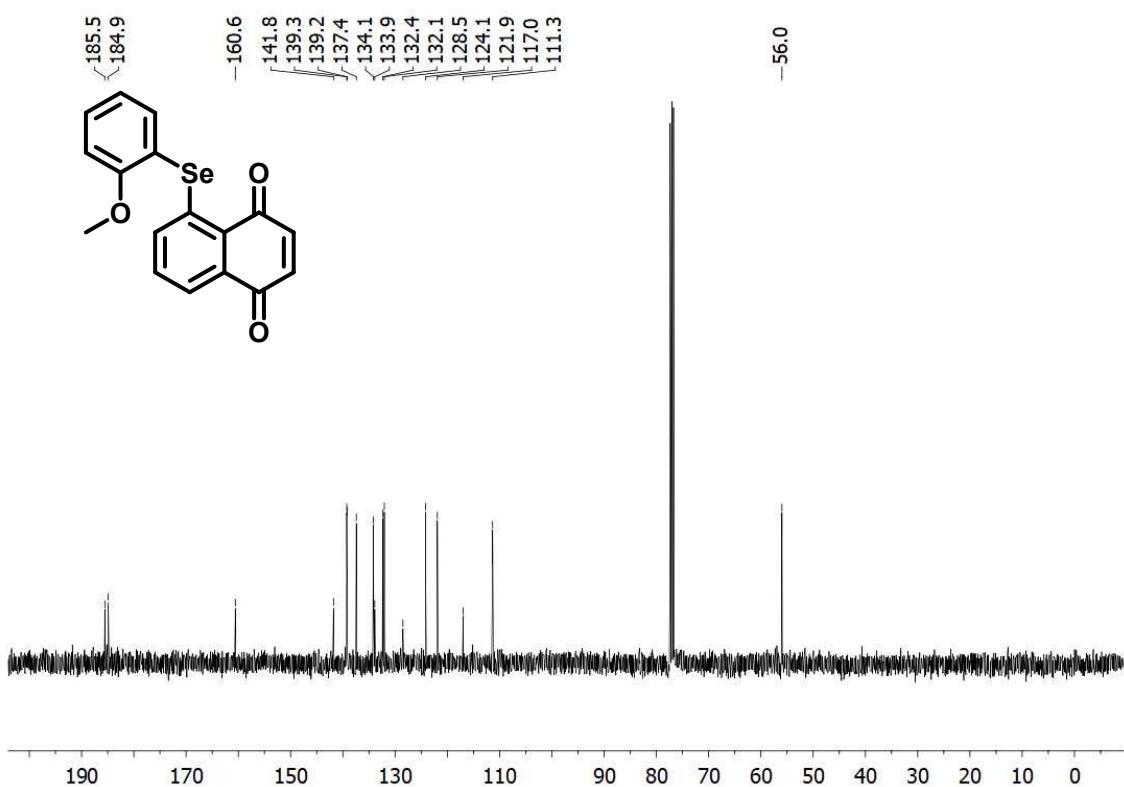


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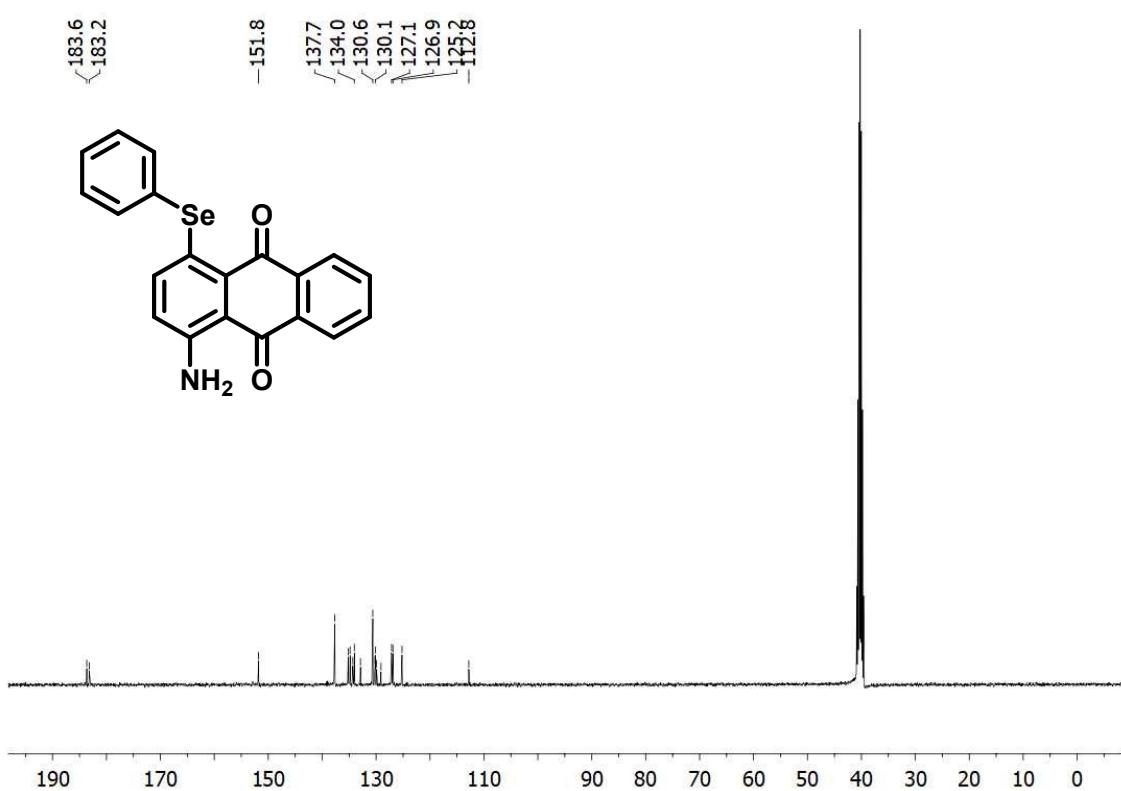
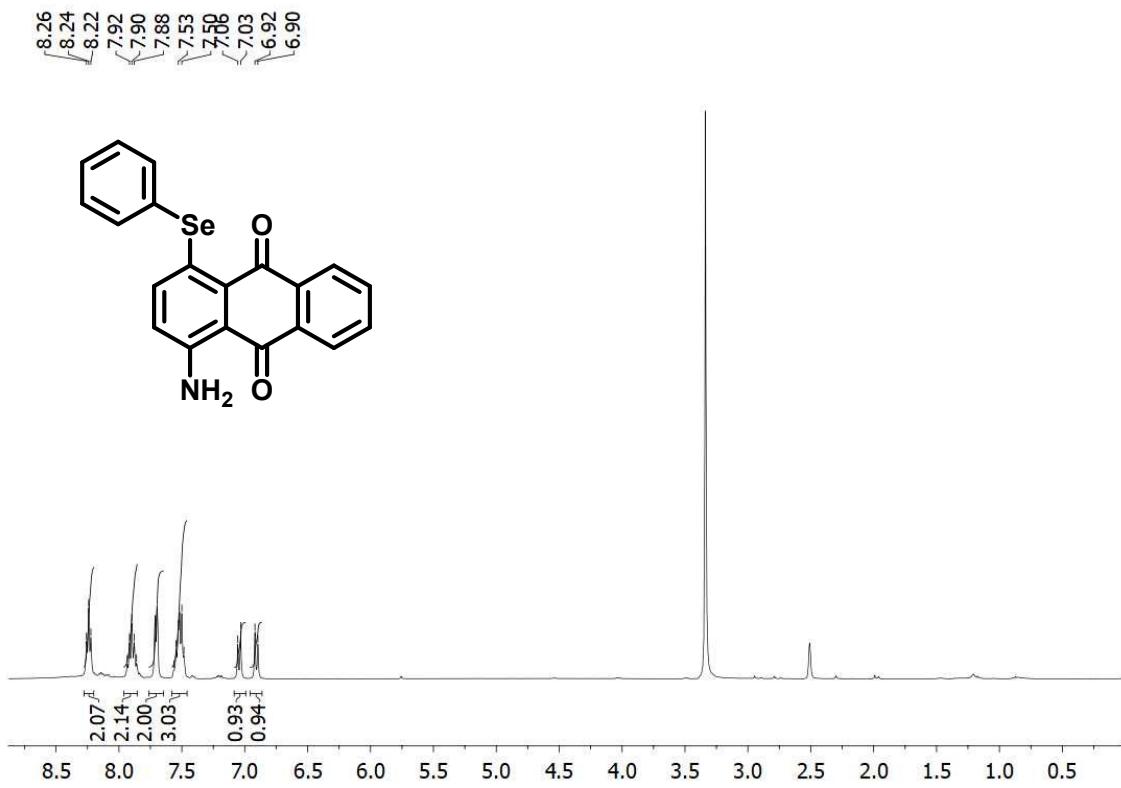




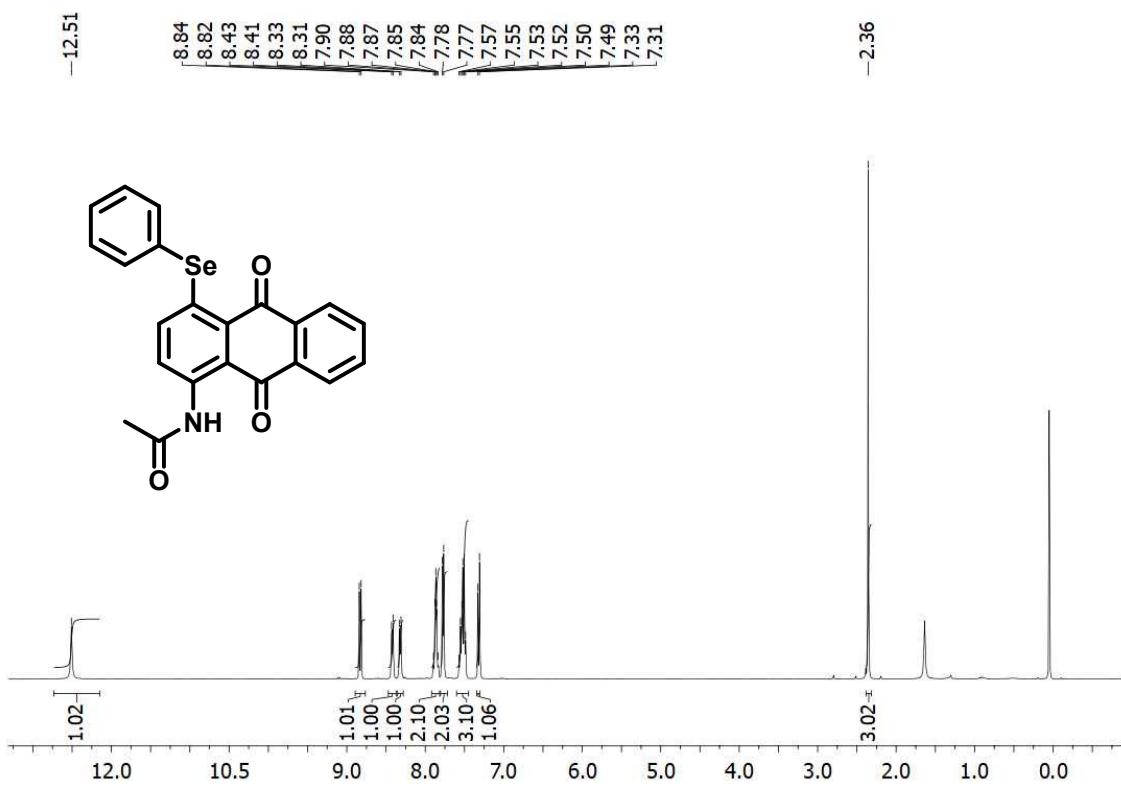
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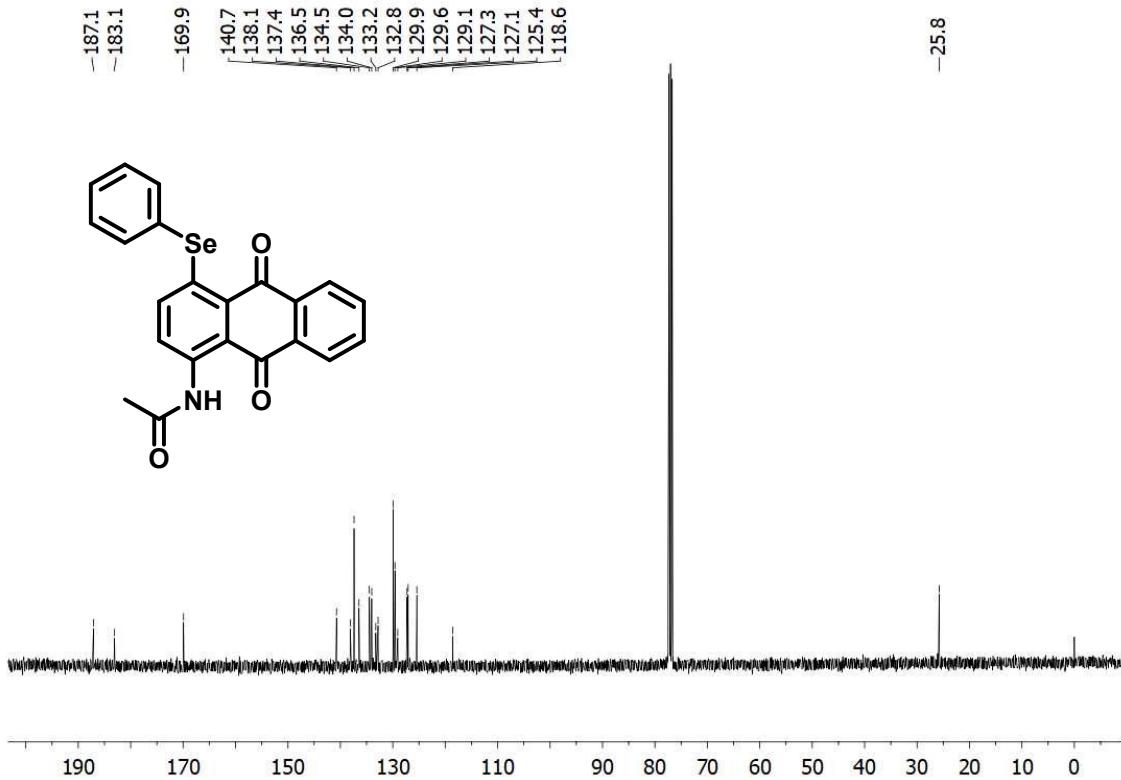
<sup>13</sup>C NMR spectrum (100 MHz, CDCl<sub>3</sub>) of compound **2n**



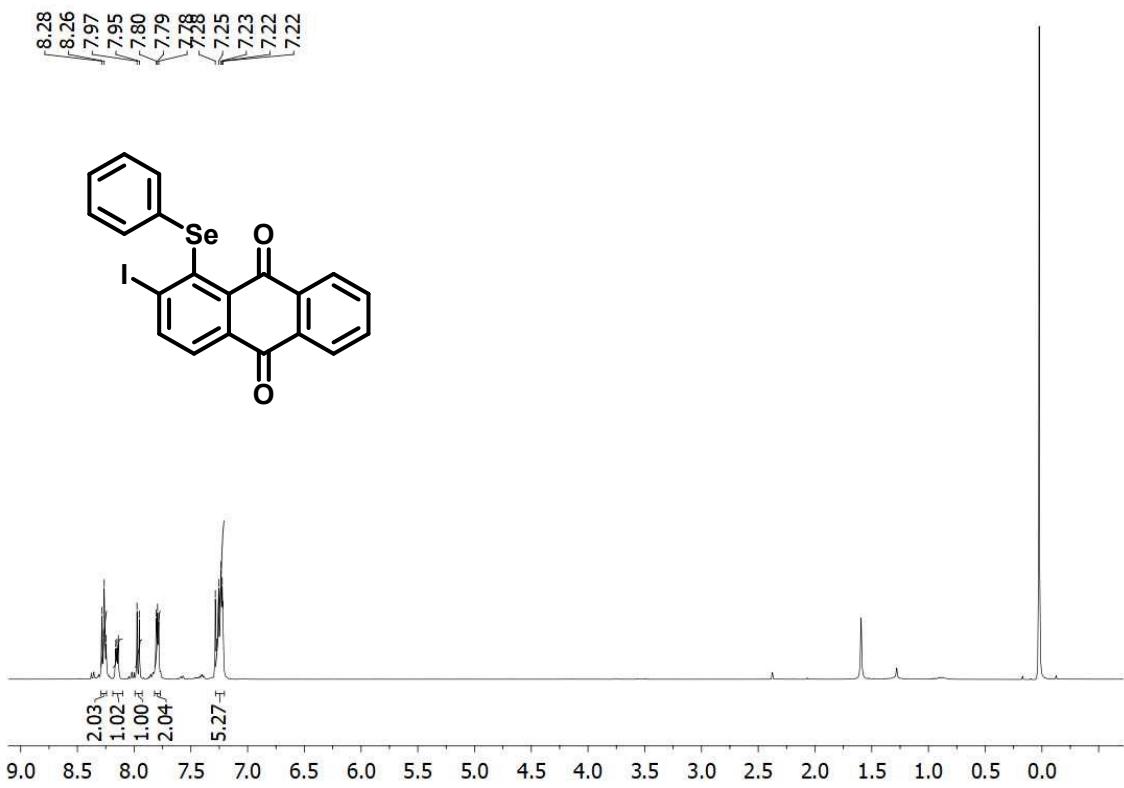
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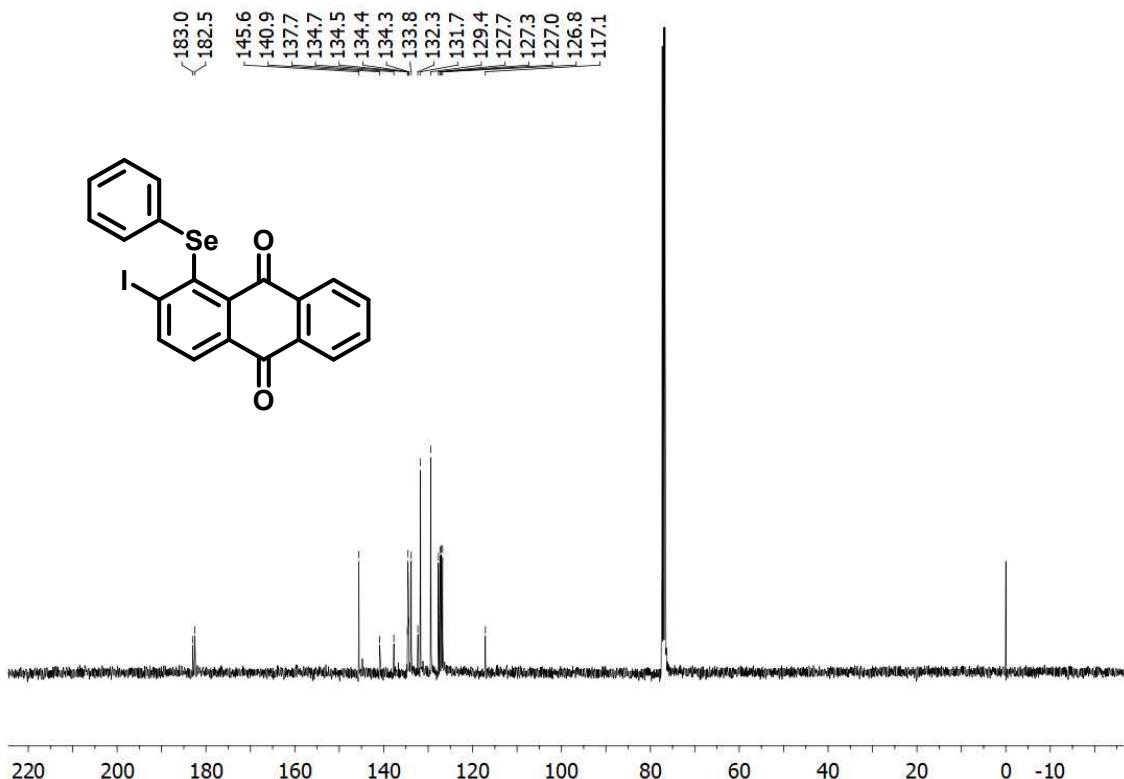
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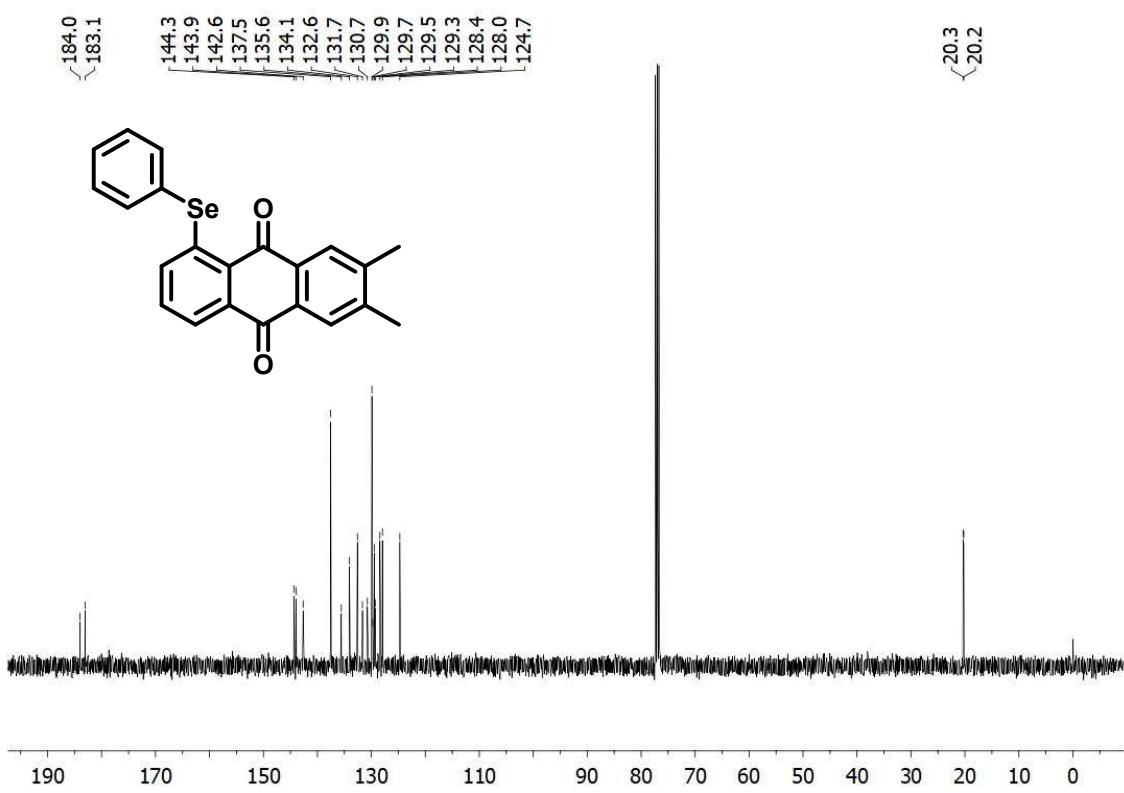
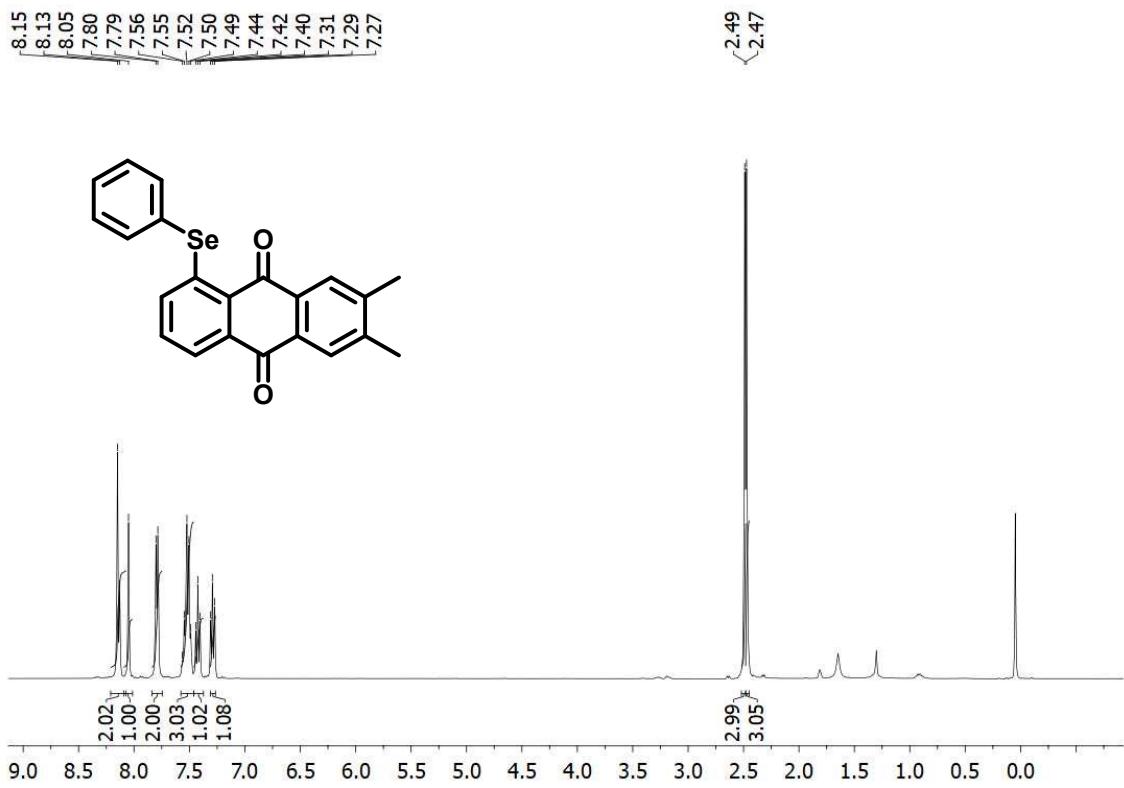
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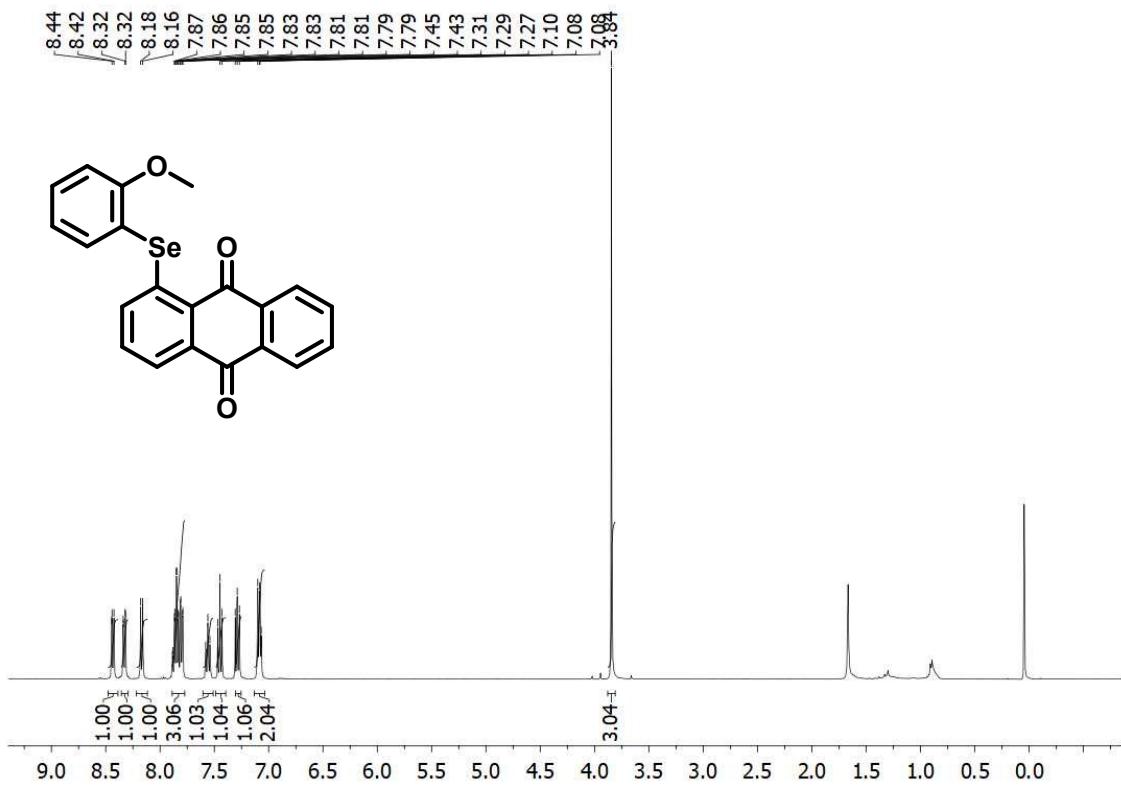


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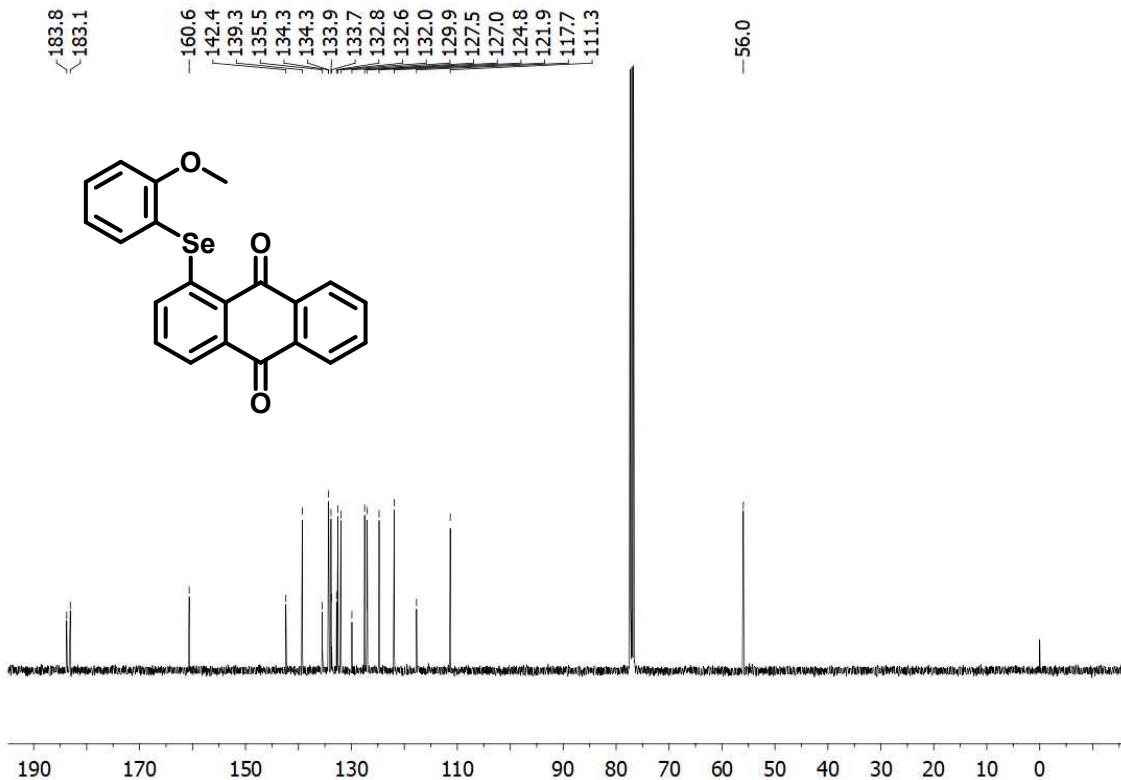


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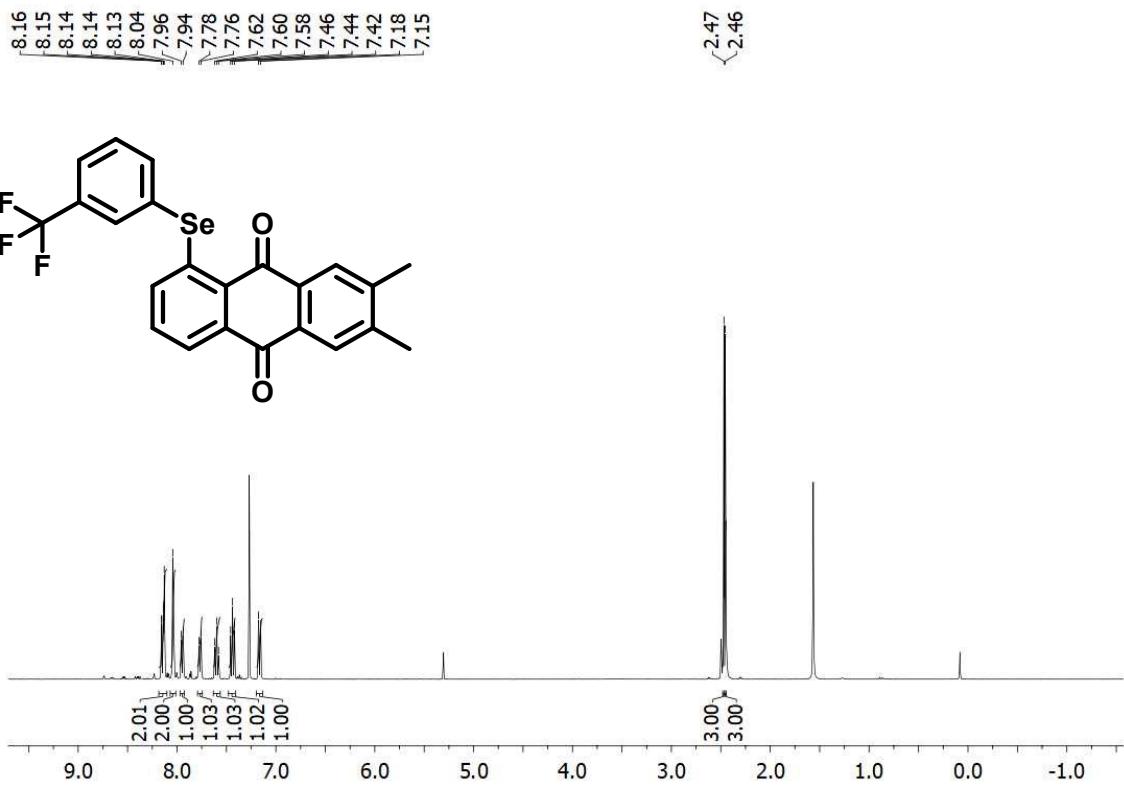




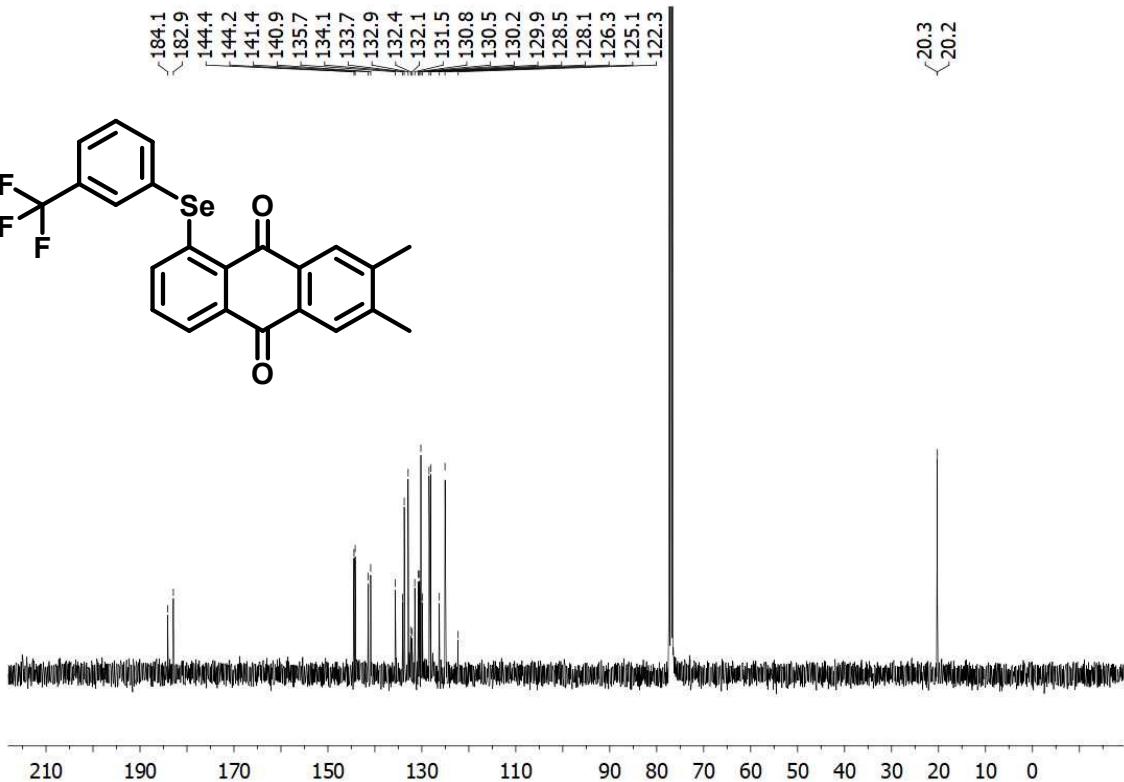
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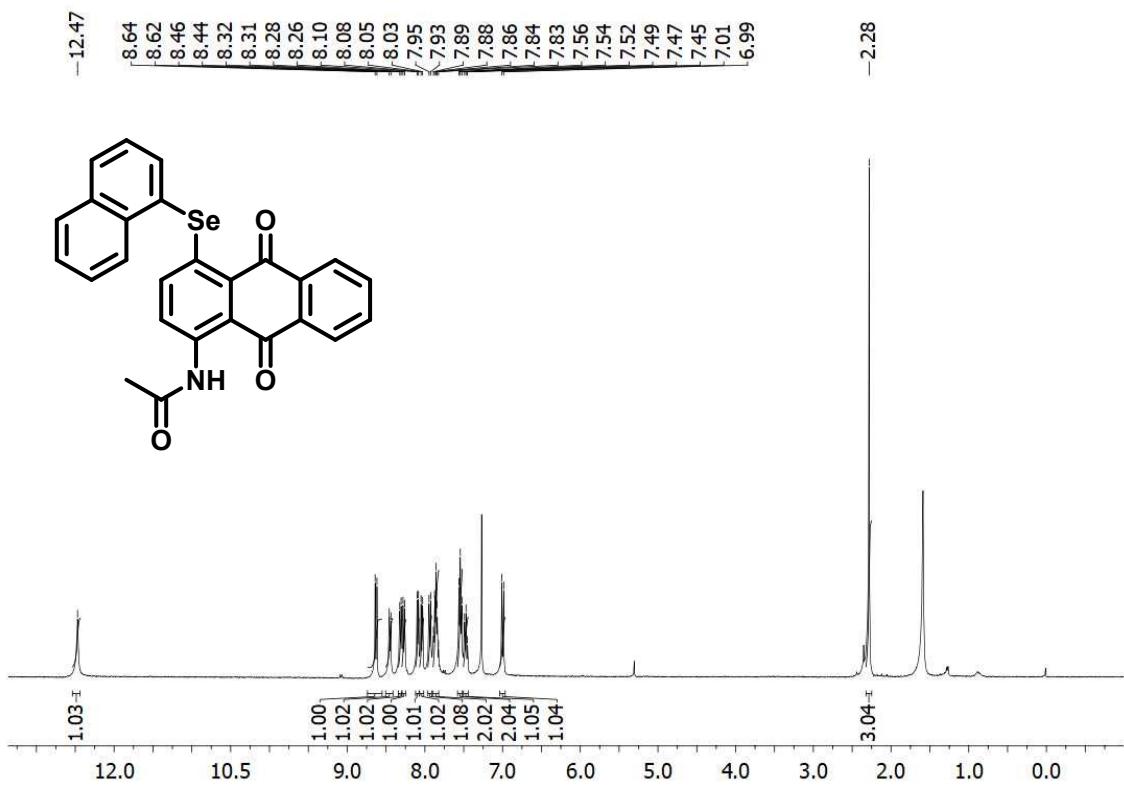
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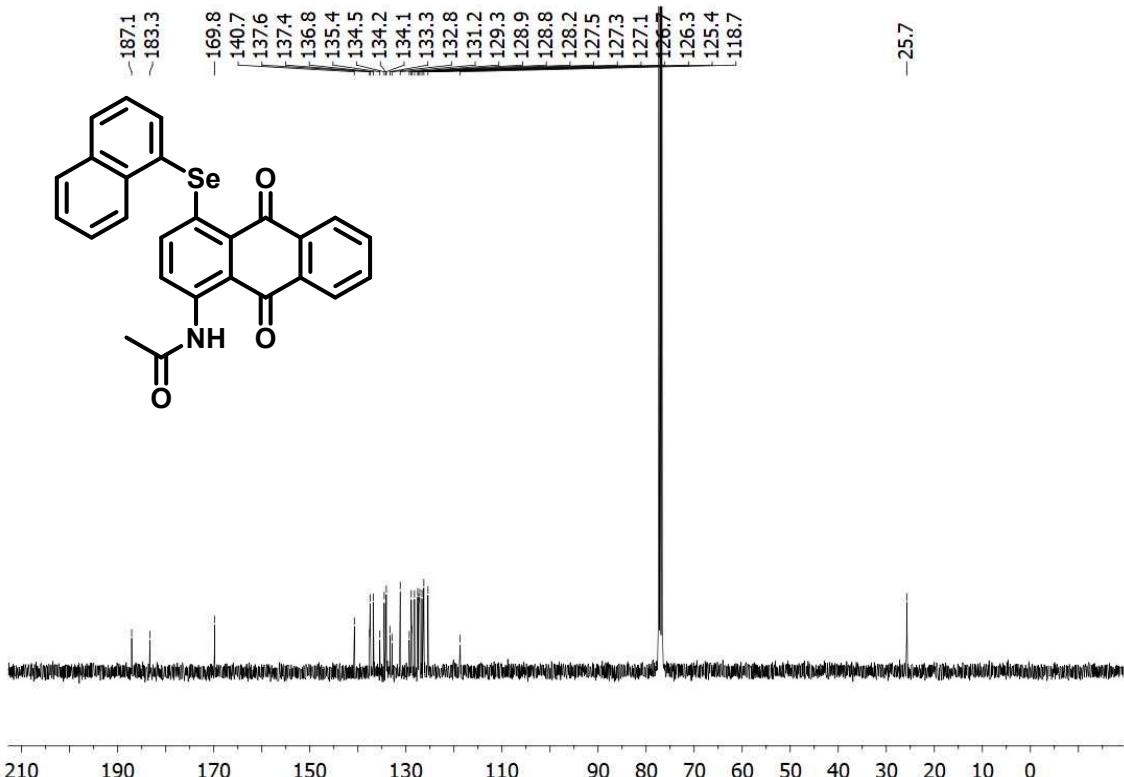
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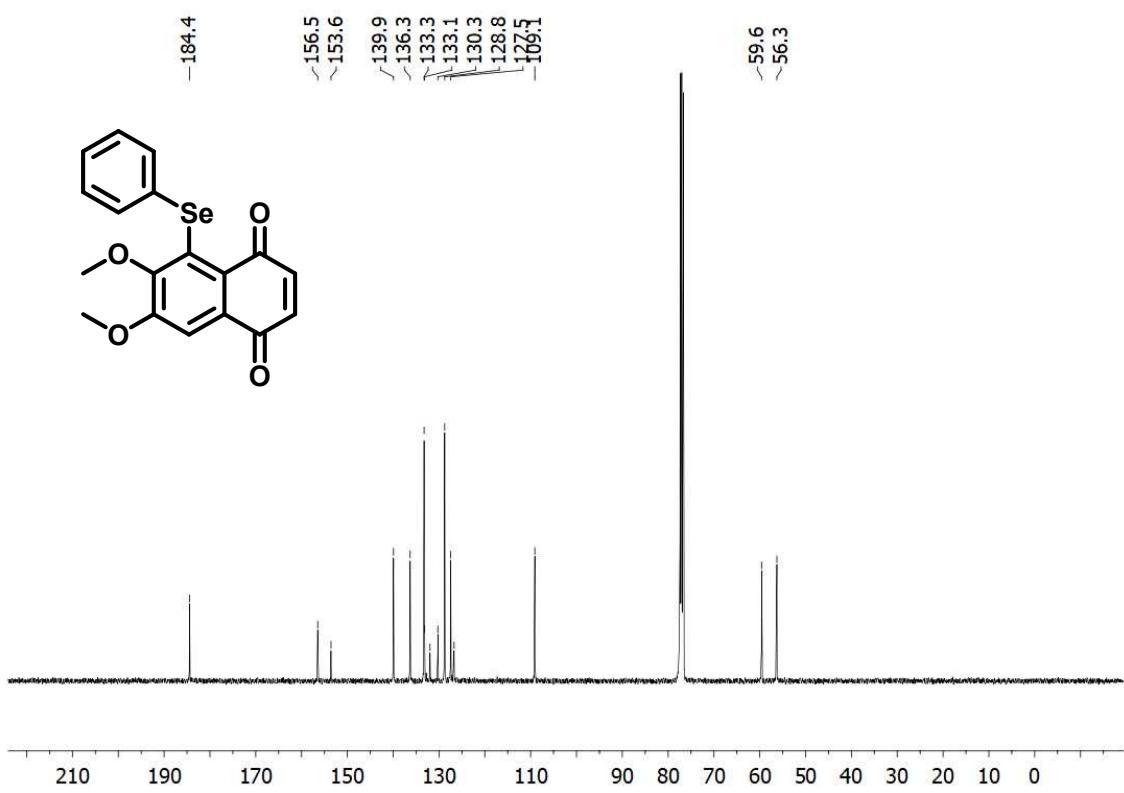
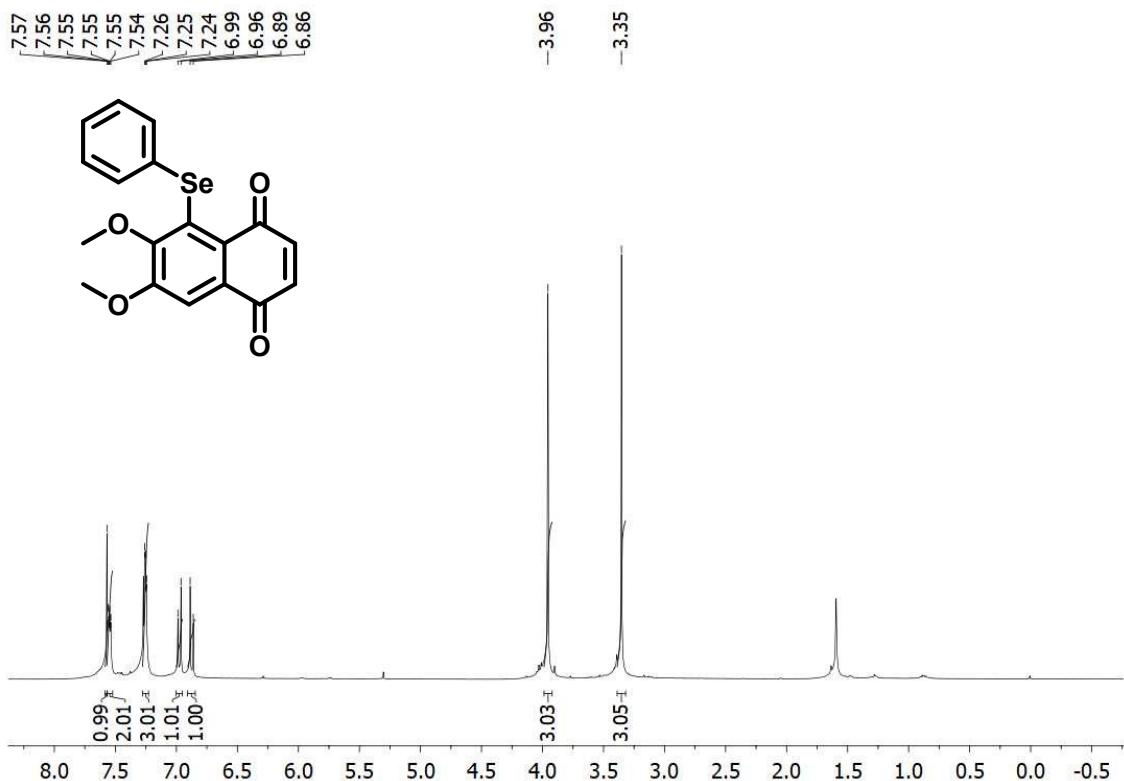
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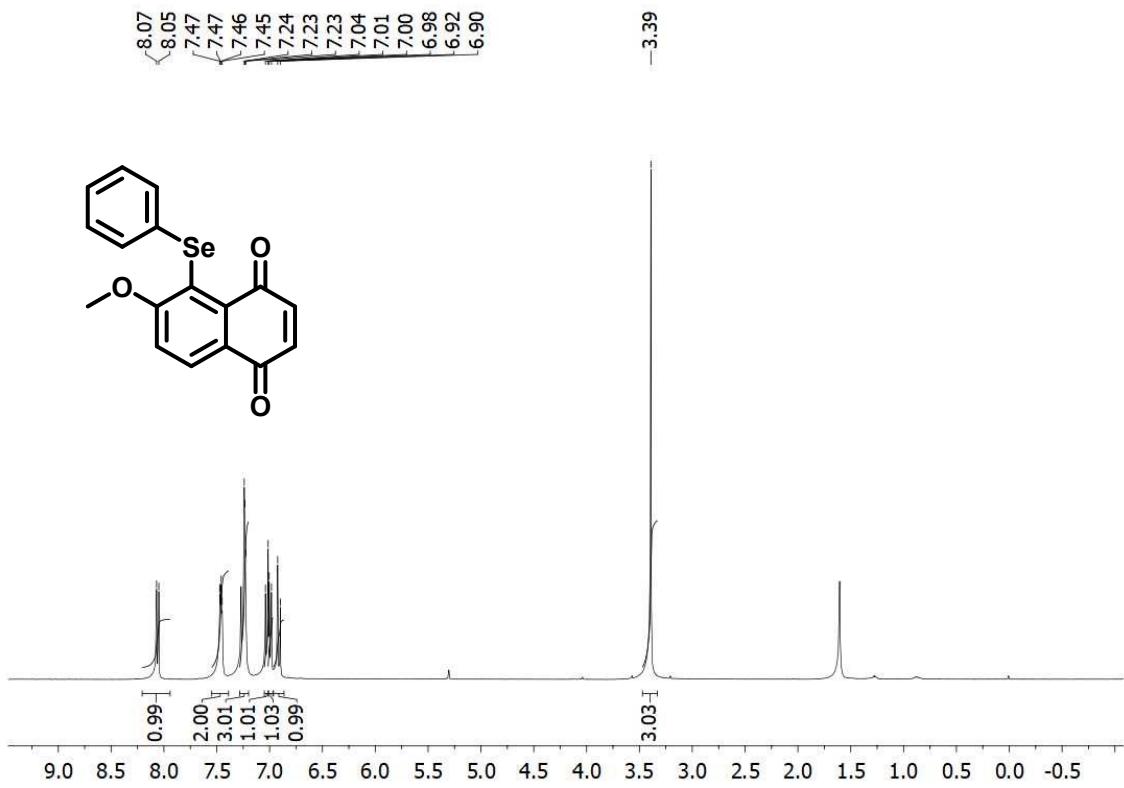


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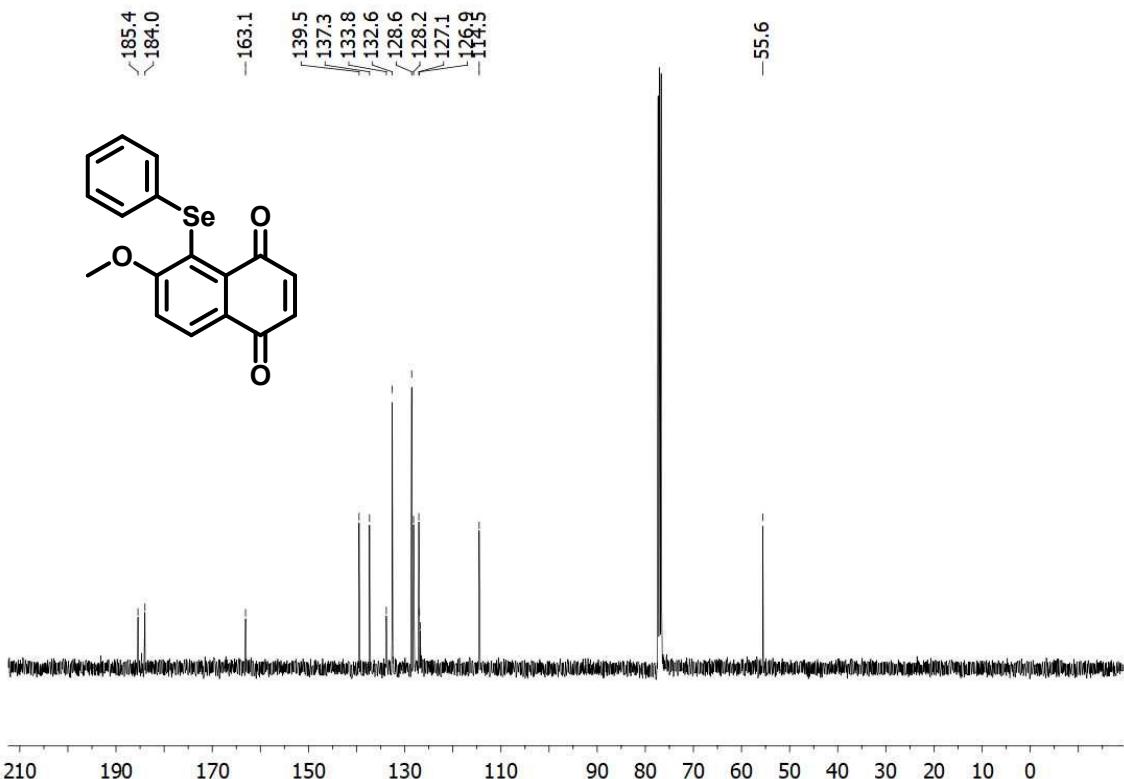


<sup>13</sup>C NMR spectrum (100 MHz, CDCl<sub>3</sub>) of compound **2u**





<sup>1</sup>H NMR spectrum (400 MHz, CDCl<sub>3</sub>) of compound **2x**



<sup>13</sup>C NMR spectrum (100 MHz, CDCl<sub>3</sub>) of compound **2x**

HRMS (APPI<sup>+</sup>) of compound **1p**

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**Display Report**

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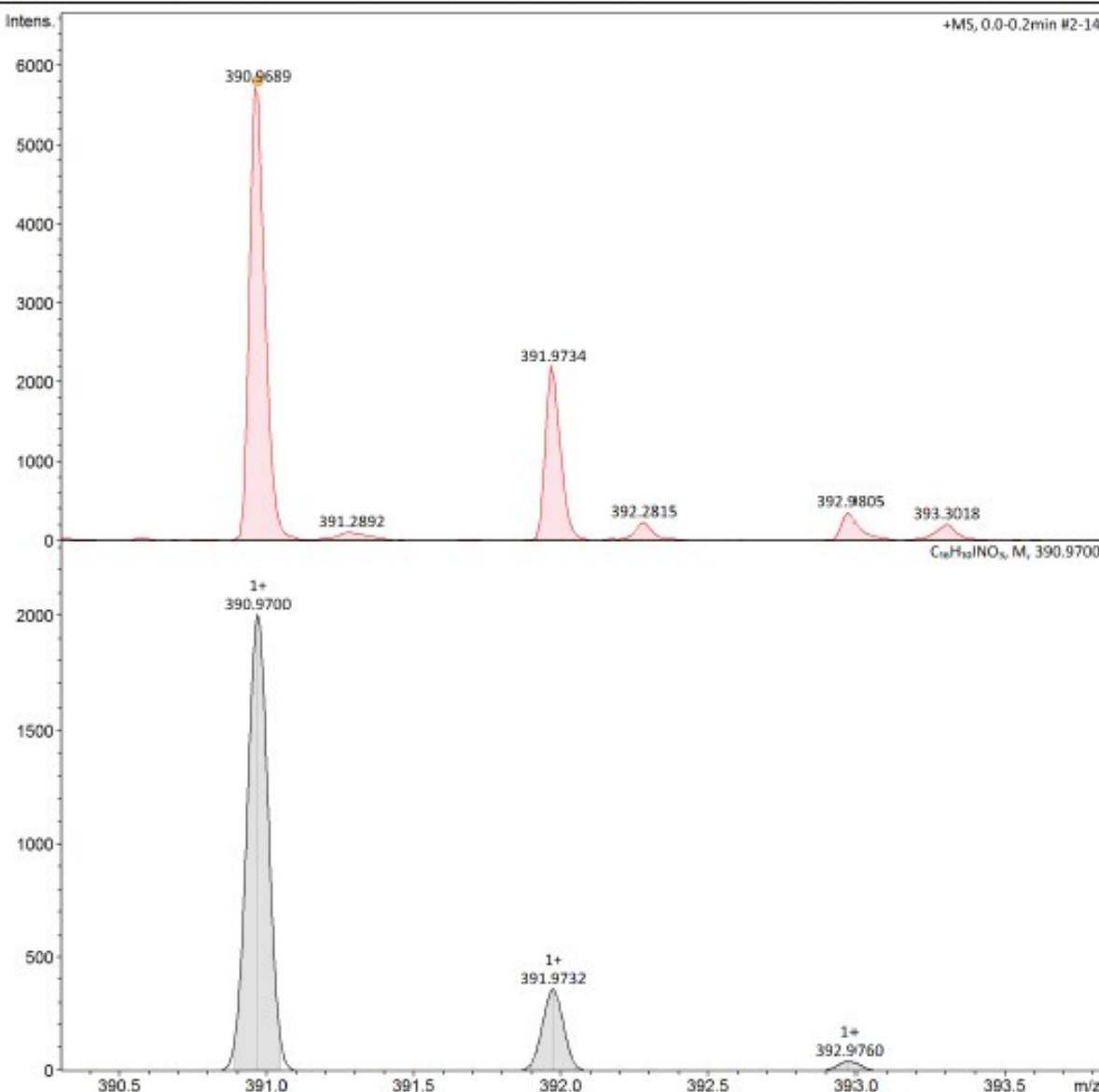
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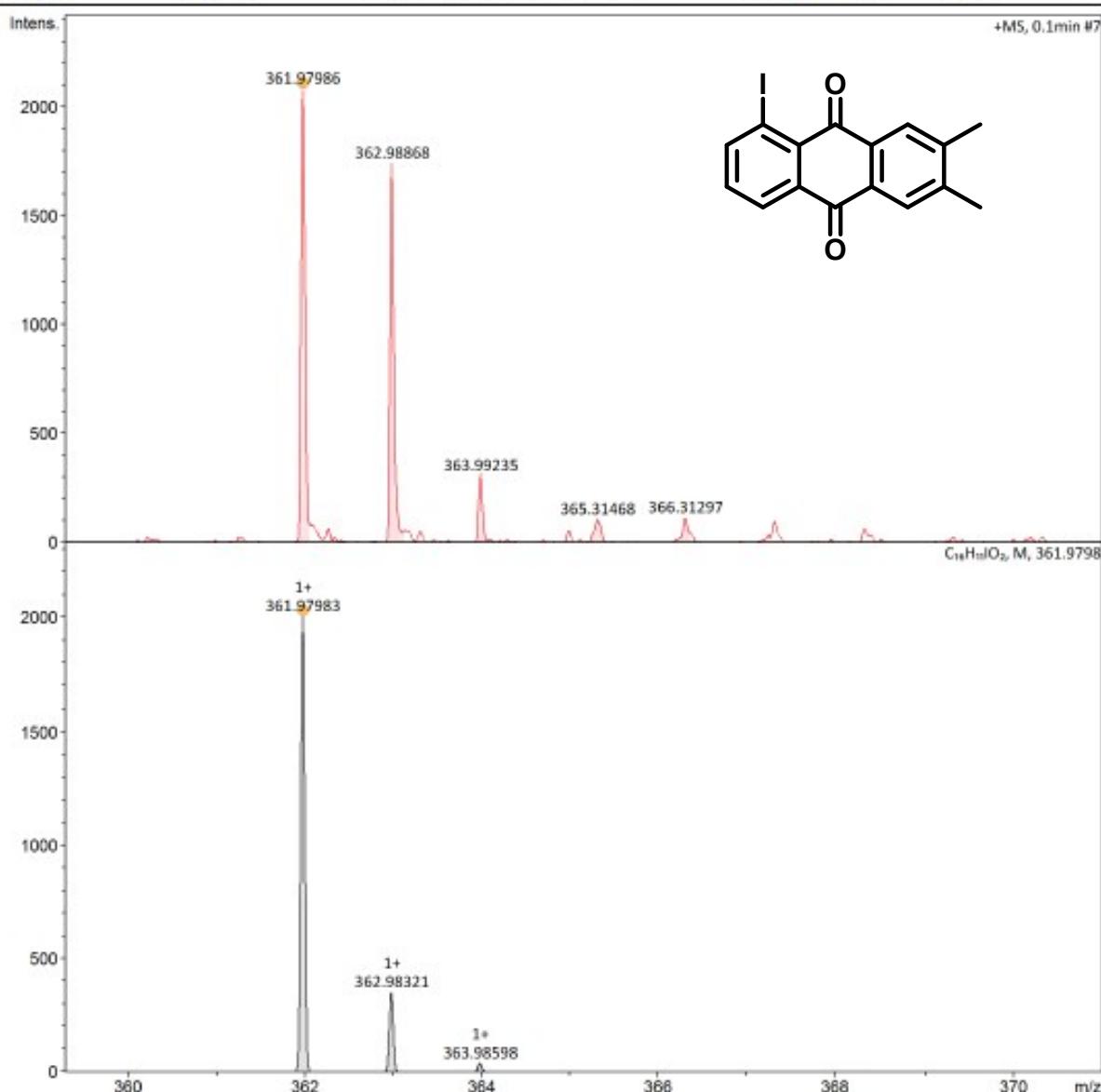
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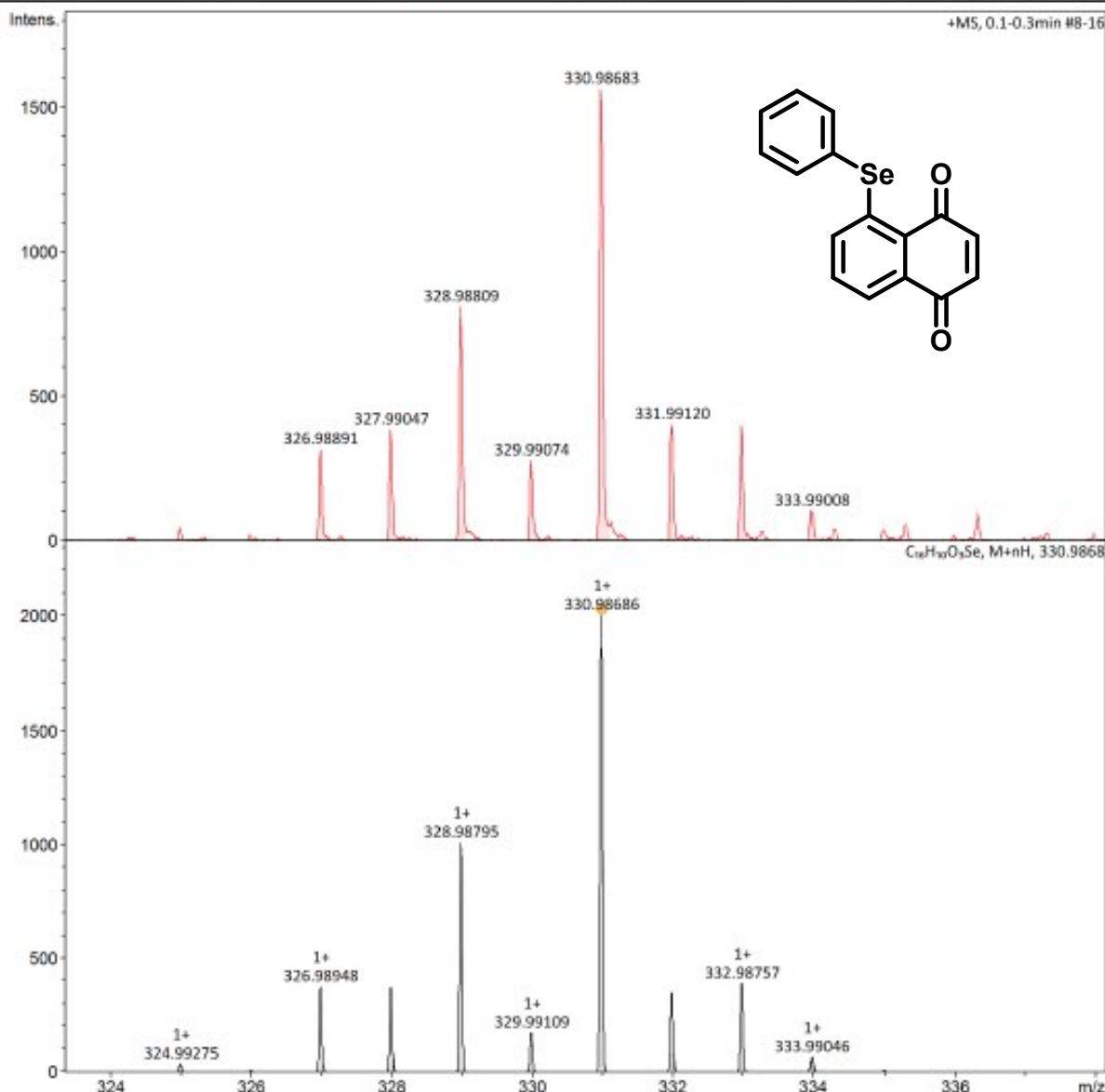
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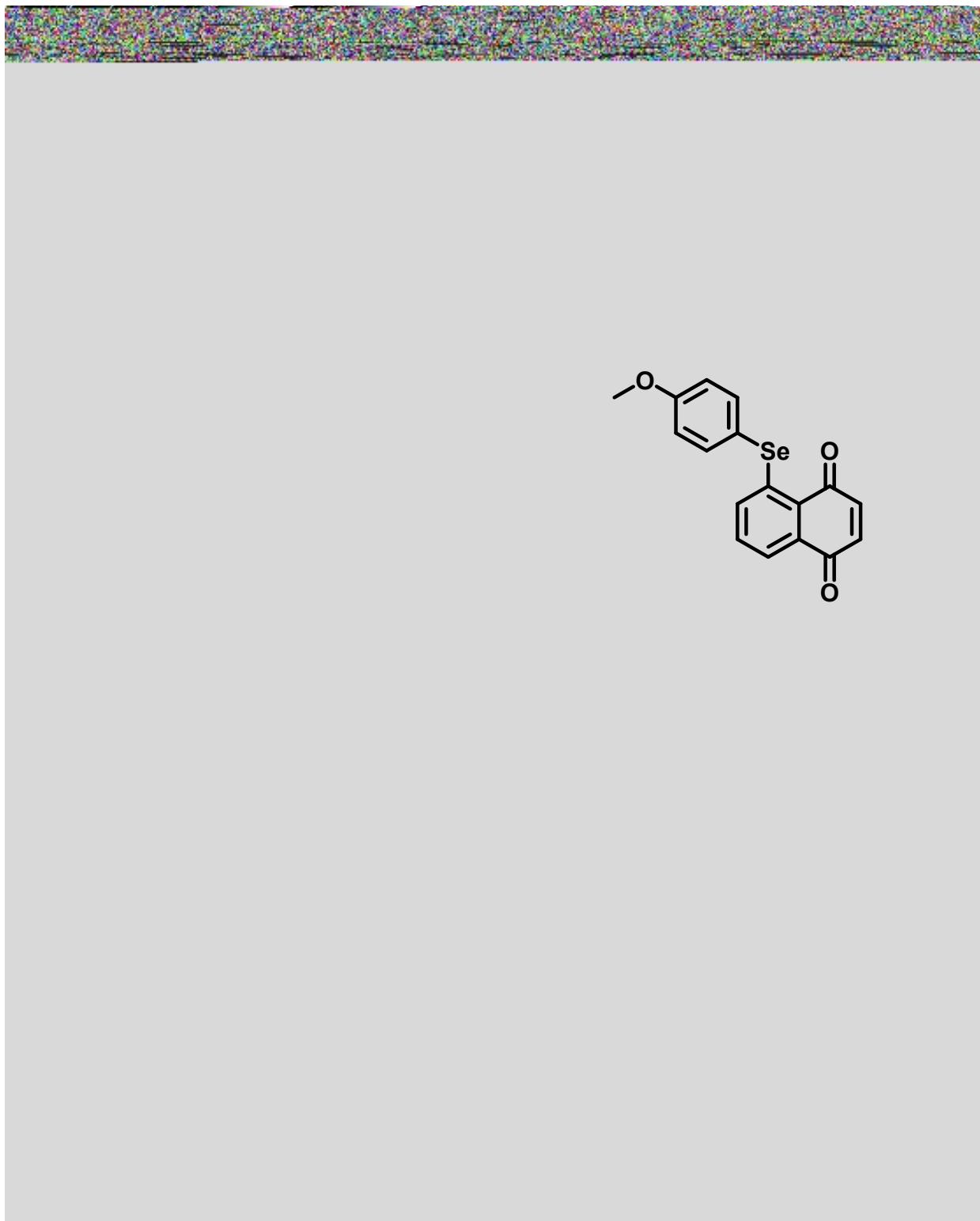
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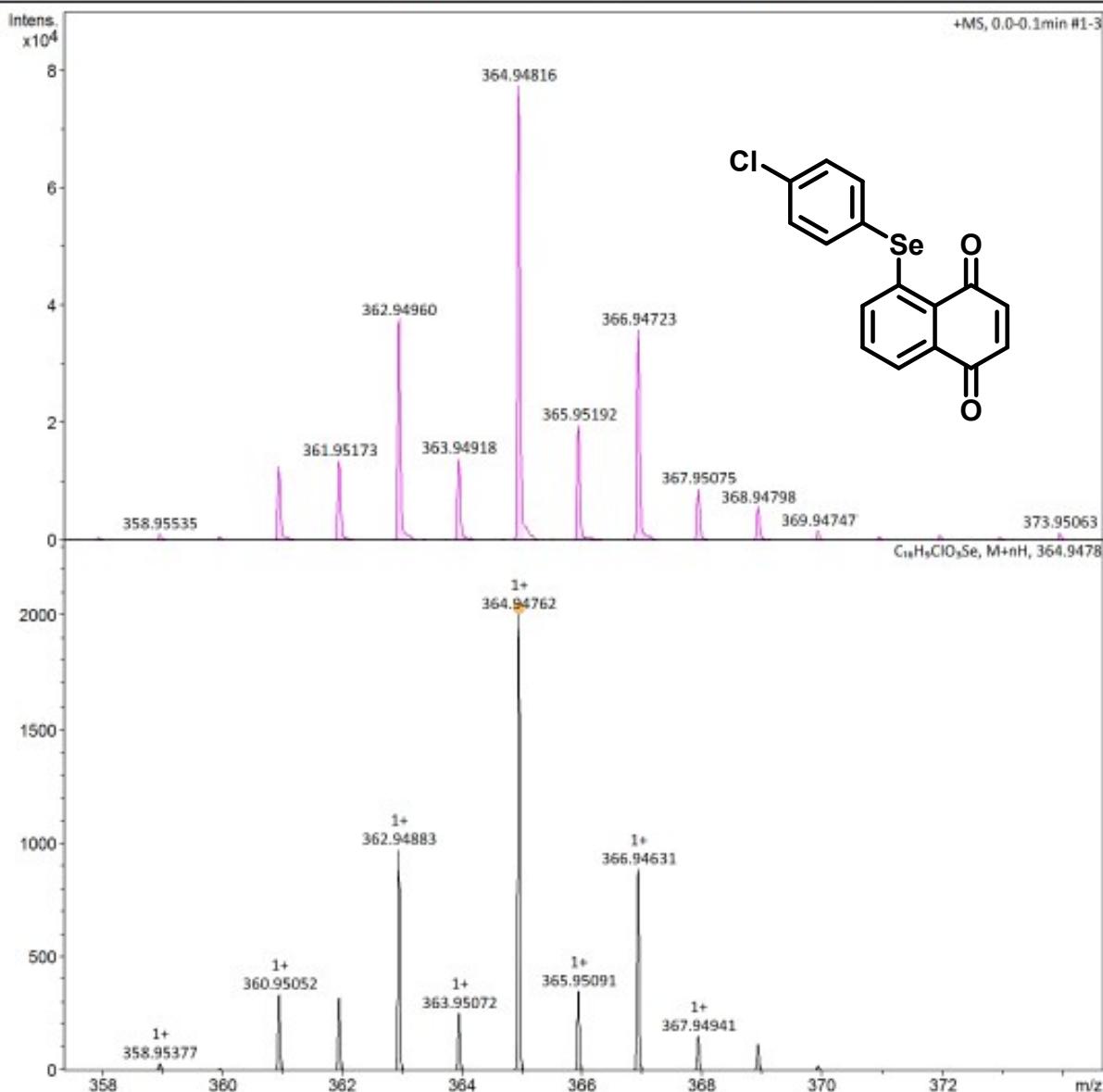
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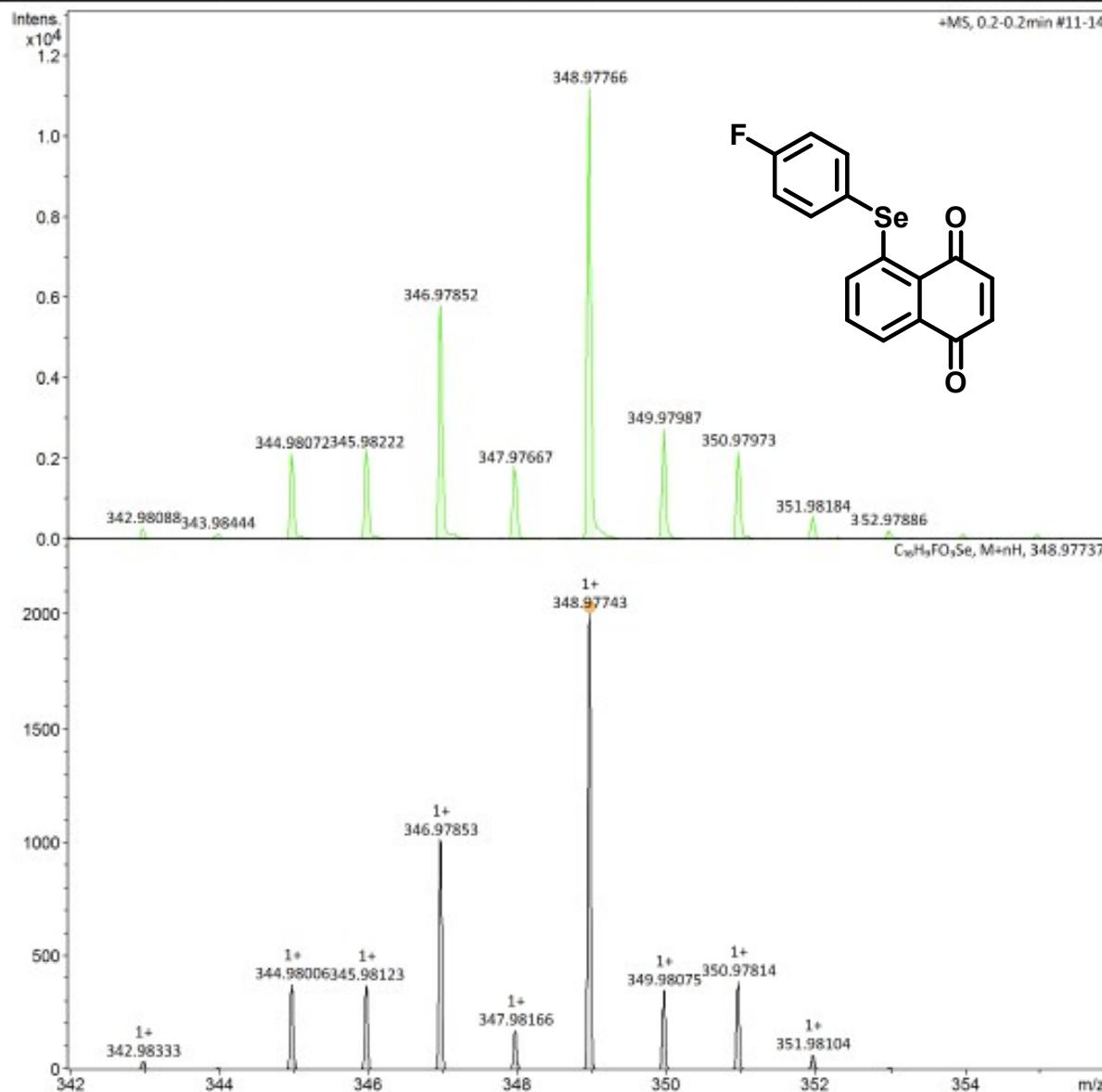
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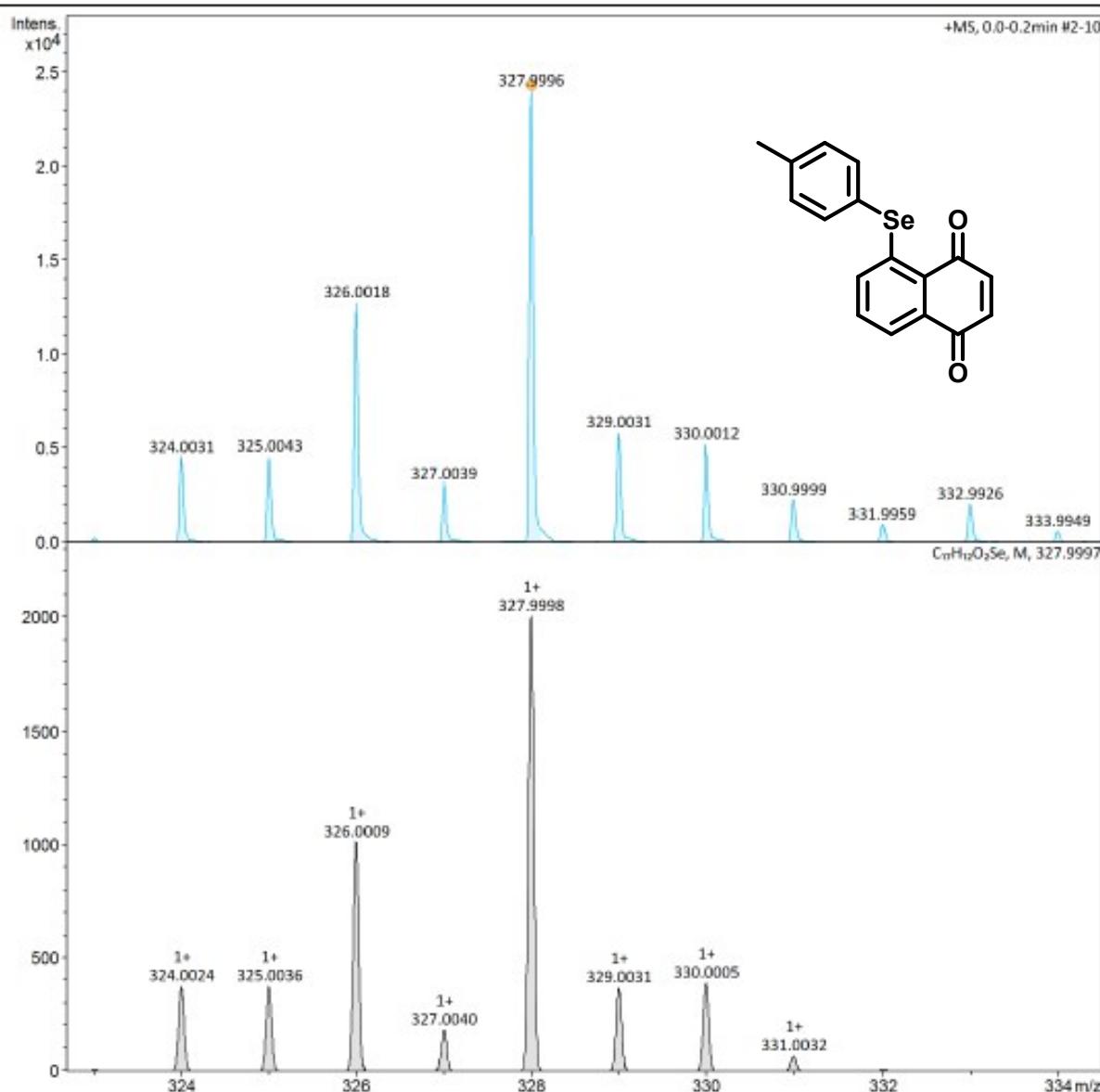
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Scan End	3000 m/z	Set Collision Cell RF	600.0 Vpp	Set Divert Valve	Source



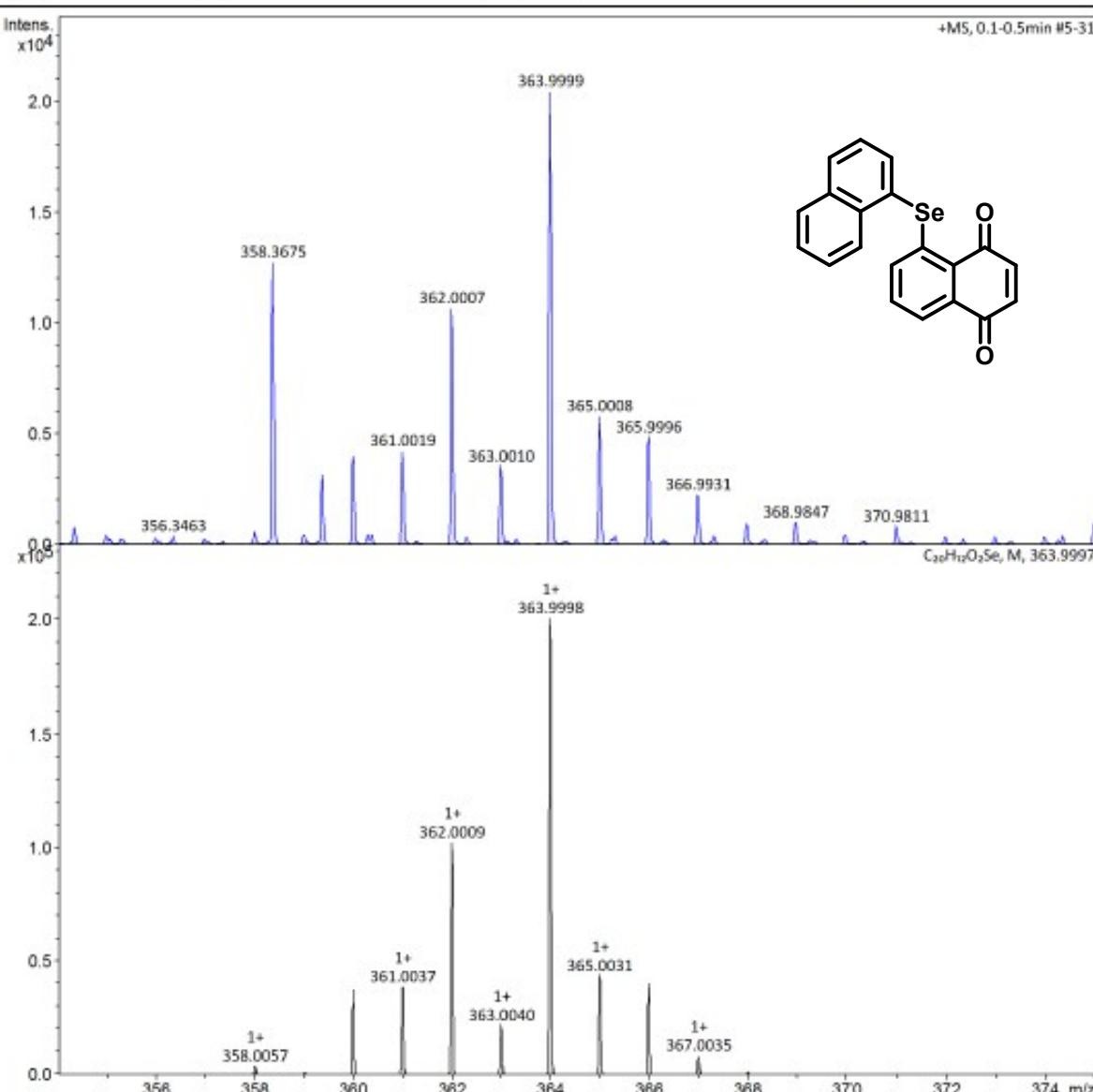
HRMS (APPI<sup>+</sup>) of compound **2k**

Display Report

Analysis Info		Acquisition Date
Analysis Name	D:\Data\LabSelen 11.01.19\GJSC060000004.d	1/11/2019 10:03:09 AM
Method	DEFAULT_adaptado Elias APPI.m	Operator tofq
Sample Name	GJSC060	Instrument micrOTOF-Q 228888.10243
Comment		

Acquisition Parameter

Source Type	APPI	Ion Polarity	Positive	Set Nebulizer	1.5 Bar
Focus	Not active	Set Capillary	1200 V	Set Dry Heater	200 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	2.0 l/min
Scan End	3000 m/z	Set Collision Cell RF	600.0 Vpp	Set Divert Valve	Source



HRMS (APPI<sup>+</sup>) of compound **2I**

Display Report

**Analysis Info**

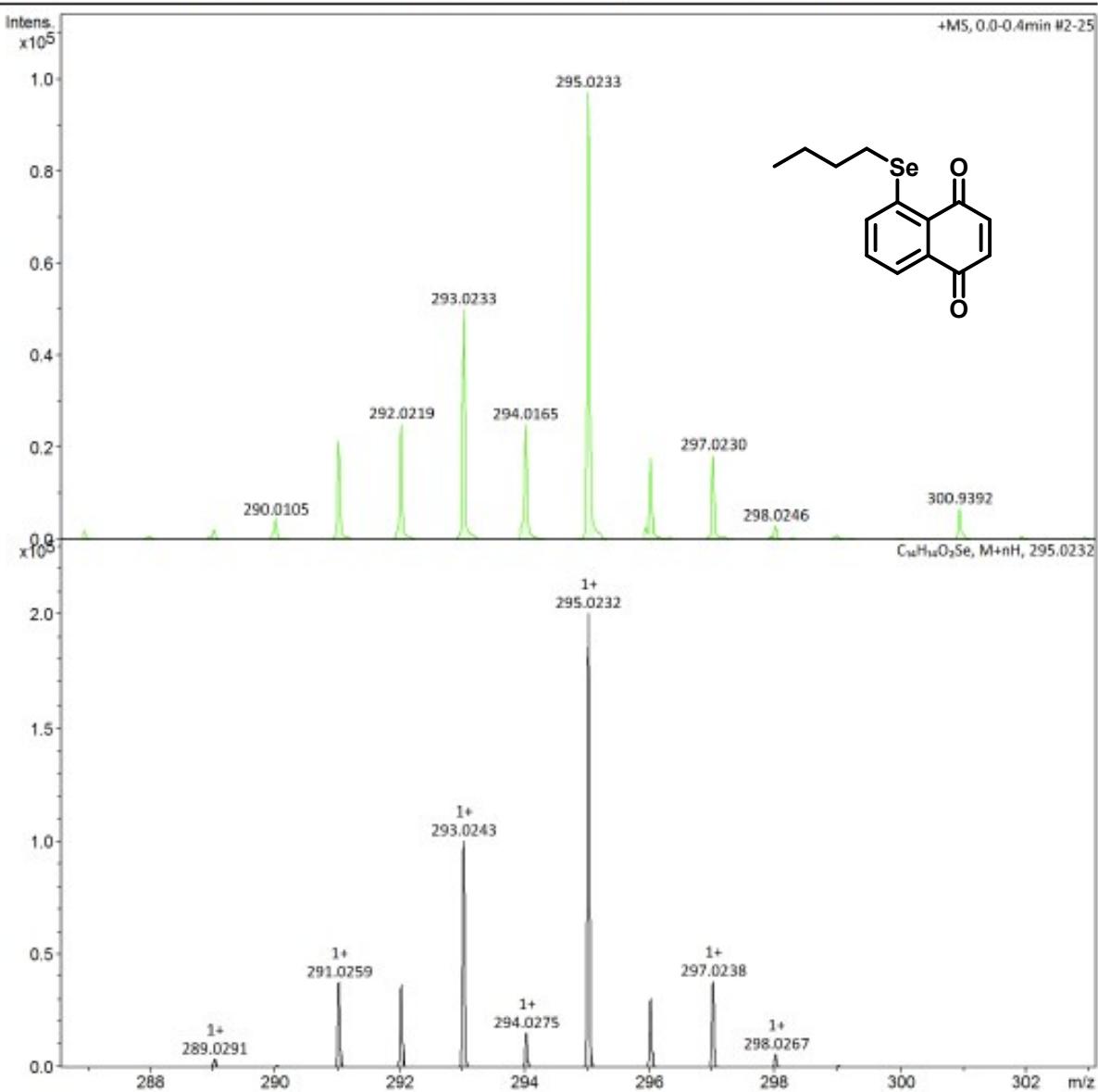
Analysis Name D:\Data\LabSelen 11.01.19\GJSC056000002.d  
 Method tune\_low\_2018.m  
 Sample Name GJSC056  
 Comment

Acquisition Date 1/11/2019 11:34:01 AM

Operator tofq  
 Instrument micrOTOF-Q 228888.10243

**Acquisition Parameter**

Source Type	APPI	Ion Polarity	Positive	Set Nebulizer	1.5 Bar
Focus	Not active	Set Capillary	1500 V	Set Dry Heater	200 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	2.0 l/min
Scan End	2000 m/z	Set Collision Cell RF	200.0 Vpp	Set Divert Valve	Source



HRMS (APPI<sup>+</sup>) of compound **2m**

Display Report

**Analysis Info**

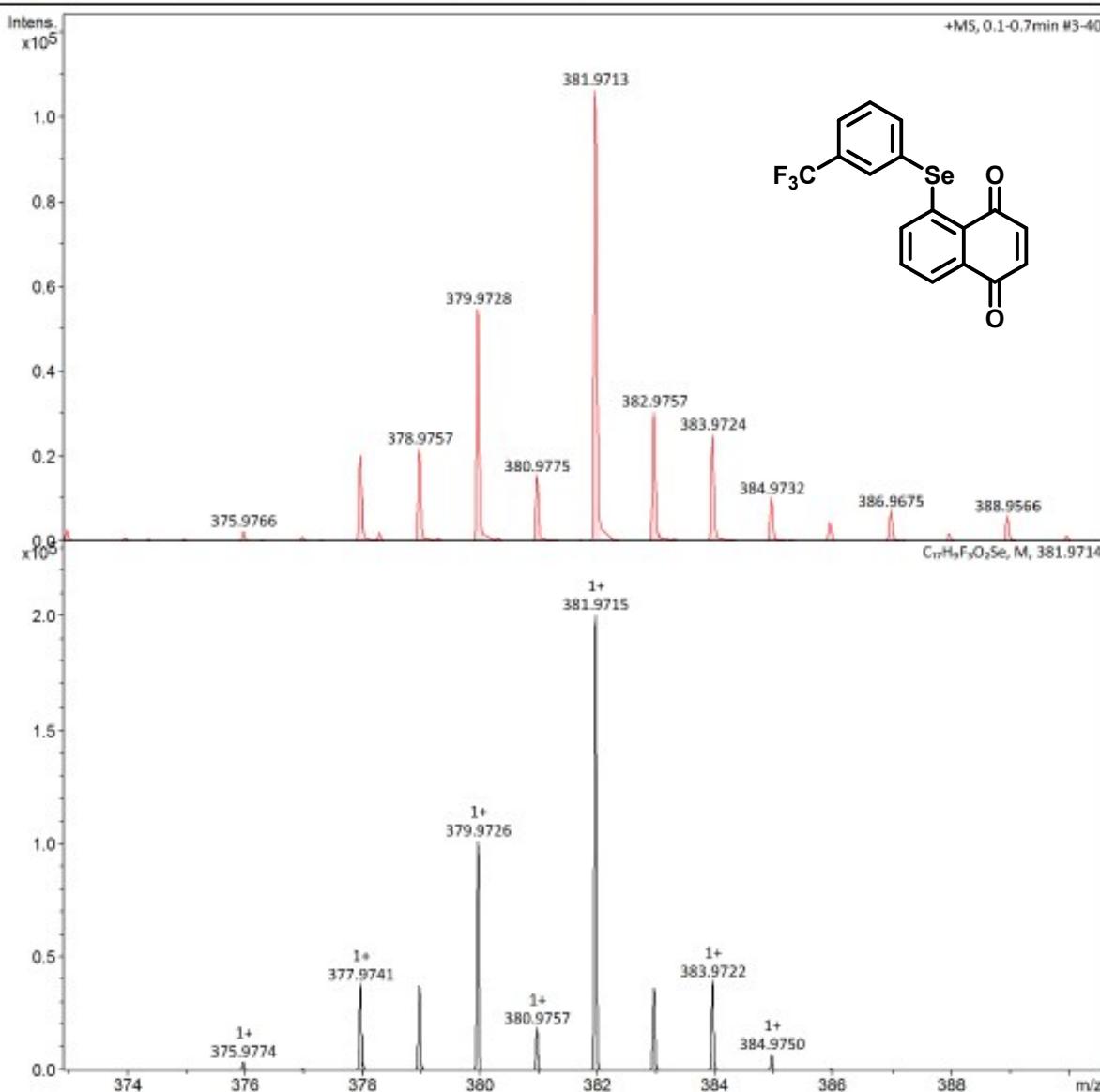
Analysis Name D:\Data\LabSelen 11.01.19\GJSC061000001.d  
 Method DEFAULT\_adaptado Elis APPI.m  
 Sample Name GJSC061  
 Comment

Acquisition Date 1/11/2019 10:11:40 AM

Operator tofq  
 Instrument micrOTOF-Q 228888.10243

**Acquisition Parameter**

Source Type	APPI	Ion Polarity	Positive	Set Nebulizer	1.5 Bar
Focus	Not active	Set Capillary	1200 V	Set Dry Heater	200 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	2.0 l/min
Scan End	3000 m/z	Set Collision Cell RF	600.0 Vpp	Set Divert Valve	Source



HRMS (APPI<sup>+</sup>) of compound **2n**

Display Report

**Analysis Info**

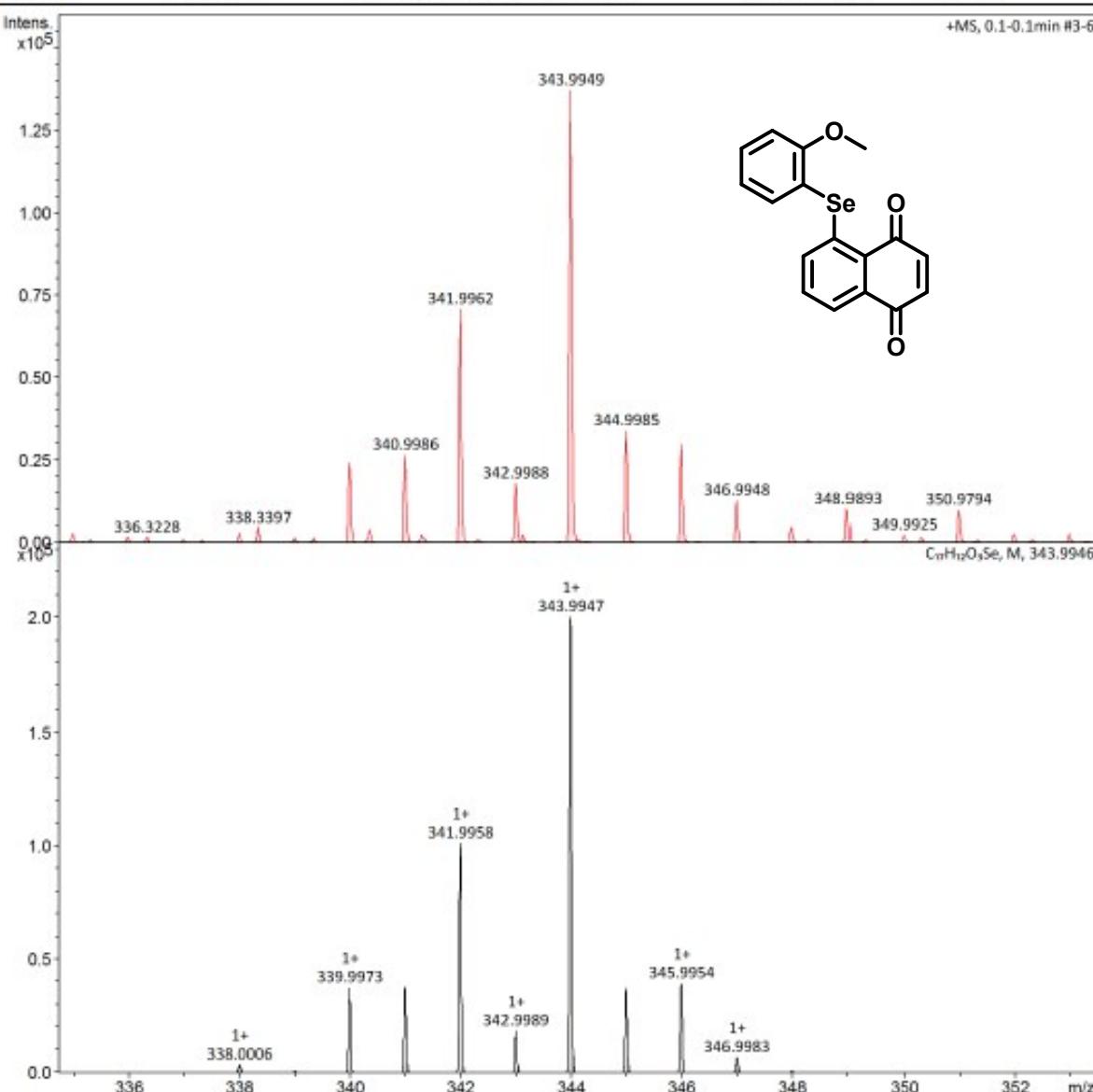
Analysis Name D:\Data\LabSelen 11.01.19\GJSC068000001.d  
 Method testeinicinal APPI\_Elis.m  
 Sample Name GJSC068  
 Comment

Acquisition Date 1/11/2019 10:30:12 AM

Operator tofq  
 Instrument micrOTOF-Q 228888.10243

**Acquisition Parameter**

Source Type	APPI	Ion Polarity	Positive	Set Nebulizer	1.5 Bar
Focus	Not active	Set Capillary	1500 V	Set Dry Heater	200 °C
Scan Begin	200 m/z	Set End Plate Offset	-500 V	Set Dry Gas	2.0 l/min
Scan End	3000 m/z	Set Collision Cell RF	600.0 Vpp	Set Divert Valve	Source



HRMS (APPI<sup>+</sup>) of compound **2o**

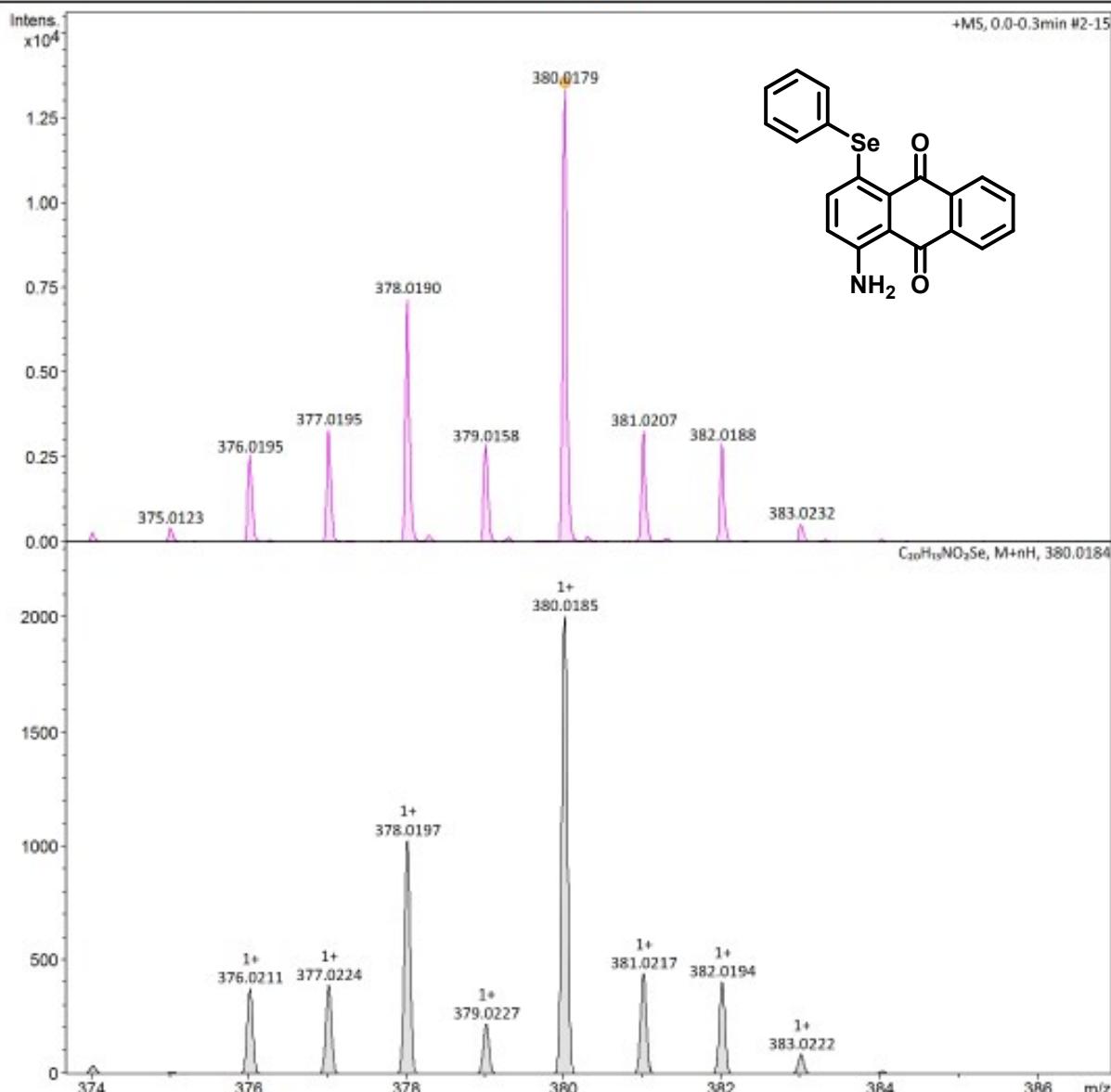
**Display Report**

**Analysis Info**

Analysis Name	D:\Data\LabSELEN Marcelo QMC CFM 17-04-2019\ENSG 874000003.d	Acquisition Date	4/17/2019 11:48:37 AM
Method	DEFAULT_adaptado 27 03 2019 APPI até limpeza.m	Operator	tofq
Sample Name	LabSELEN Marcelo QMC CFM 17-04-2019	Instrument	micrOTOF-Q 228888.10243
Comment			

**Acquisition Parameter**

Source Type	APPI	Ion Polarity	Positive	Set Nebulizer	1.5 Bar
Focus	Not active	Set Capillary	1500 V	Set Dry Heater	200 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	2.0 l/min
Scan End	3000 m/z	Set Collision Cell RF	600.0 Vpp	Set Divert Valve	Source



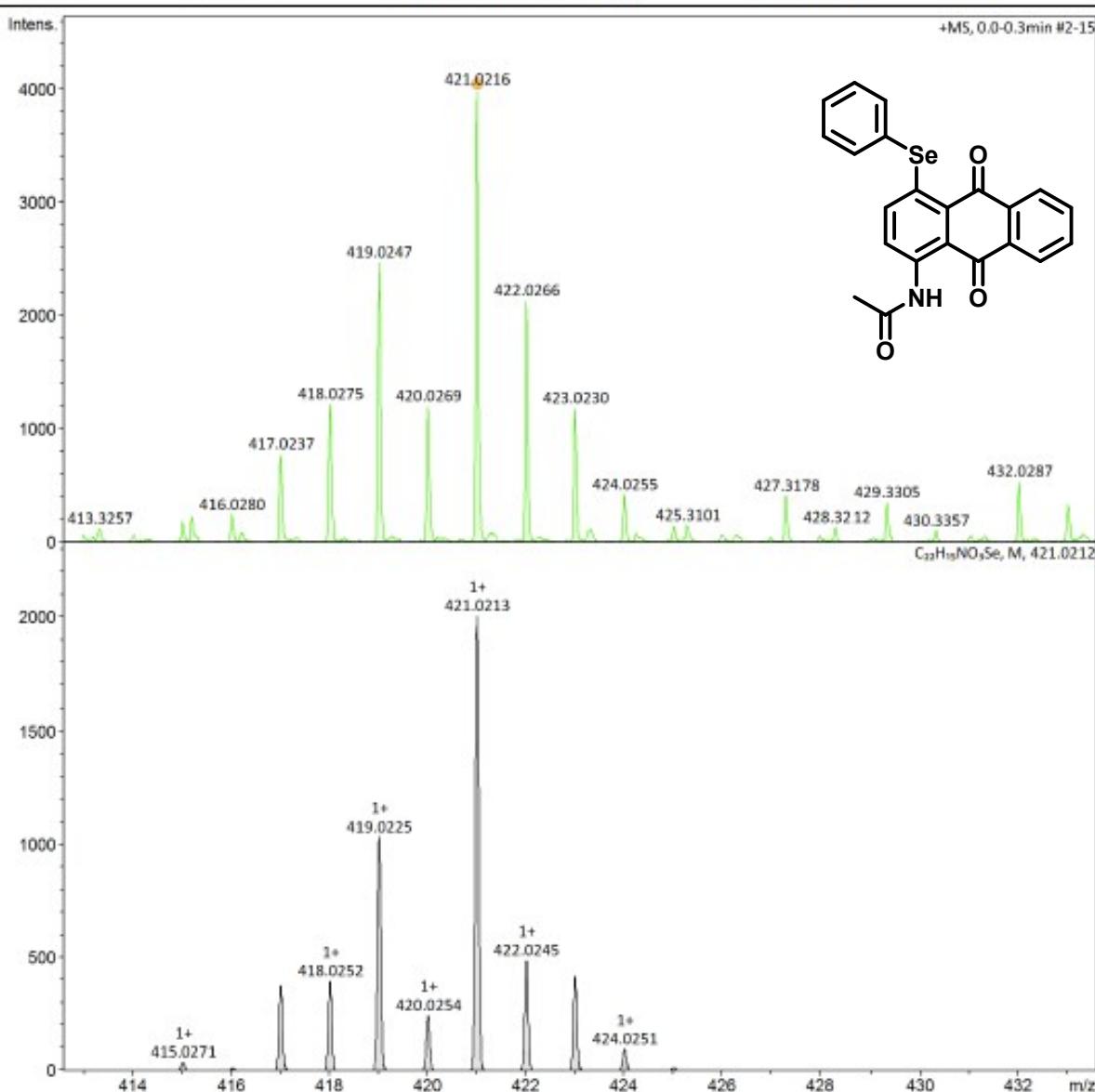
HRMS (APPI<sup>+</sup>) of compound **2p**

Display Report

Analysis Info		Acquisition Date	4/17/2019 12:51:22 PM
Analysis Name	D:\Data\LabSELEN Marcelo QMC CFM 17-04-2019\ENSJ 871000007.d		
Method	DEFAULT_adaptado 27 03 2019 APPI até limpeza.m	Operator	tofq
Sample Name	LabSELEN Marcelo QMC CFM 17-04-2019	Instrument	micrOTOF-Q 228888.10243
Comment			

Acquisition Parameter

Source Type	APPI	Ion Polarity	Positive	Set Nebulizer	1.5 Bar
Focus	Not active	Set Capillary	1500 V	Set Dry Heater	200 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	2.0 l/min
Scan End	3000 m/z	Set Collision Cell RF	600.0 Vpp	Set Divert Valve	Source



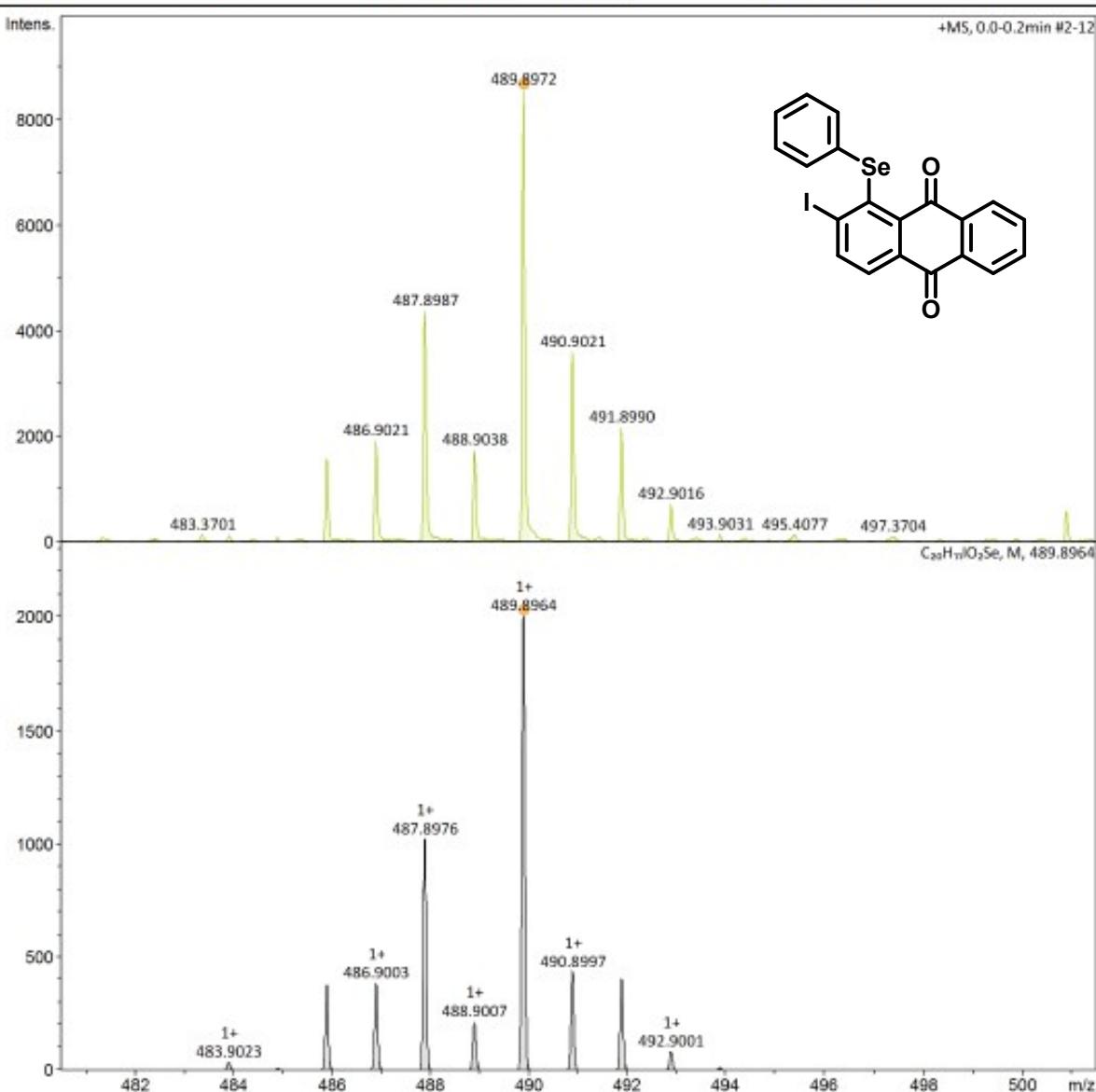
#### HRMS (APPI<sup>+</sup>) of compound **2q**

## Display Report

**Analysis Info** Acquisition Date 4/17/2019 9:58:05 AM  
**Analysis Name** D:\Data\LabSELEN Marcelo QMC CFM 17-04-2019\EN SJ 870000007.d  
**Method** DEFAULT\_adaptado 27 03 2019 APPI até limpeza.m Operator tofq  
**Sample Name** LabSELEN Marcelo QMC CFM 17-04-2019 Instrument micrOTOF-Q 228888.10243  
**Comment**

#### Acquisition Parameter

Acquisition Parameter					
Source Type	APPI	Ion Polarity	Positive	Set Nebulizer	1.5 Bar
Focus	Not active	Set Capillary	1500 V	Set Dry Heater	200 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	2.0 l/min
Scan End	3000 m/z	Set Collision Cell RF	600.0 Vpp	Set Divert Valve	Source



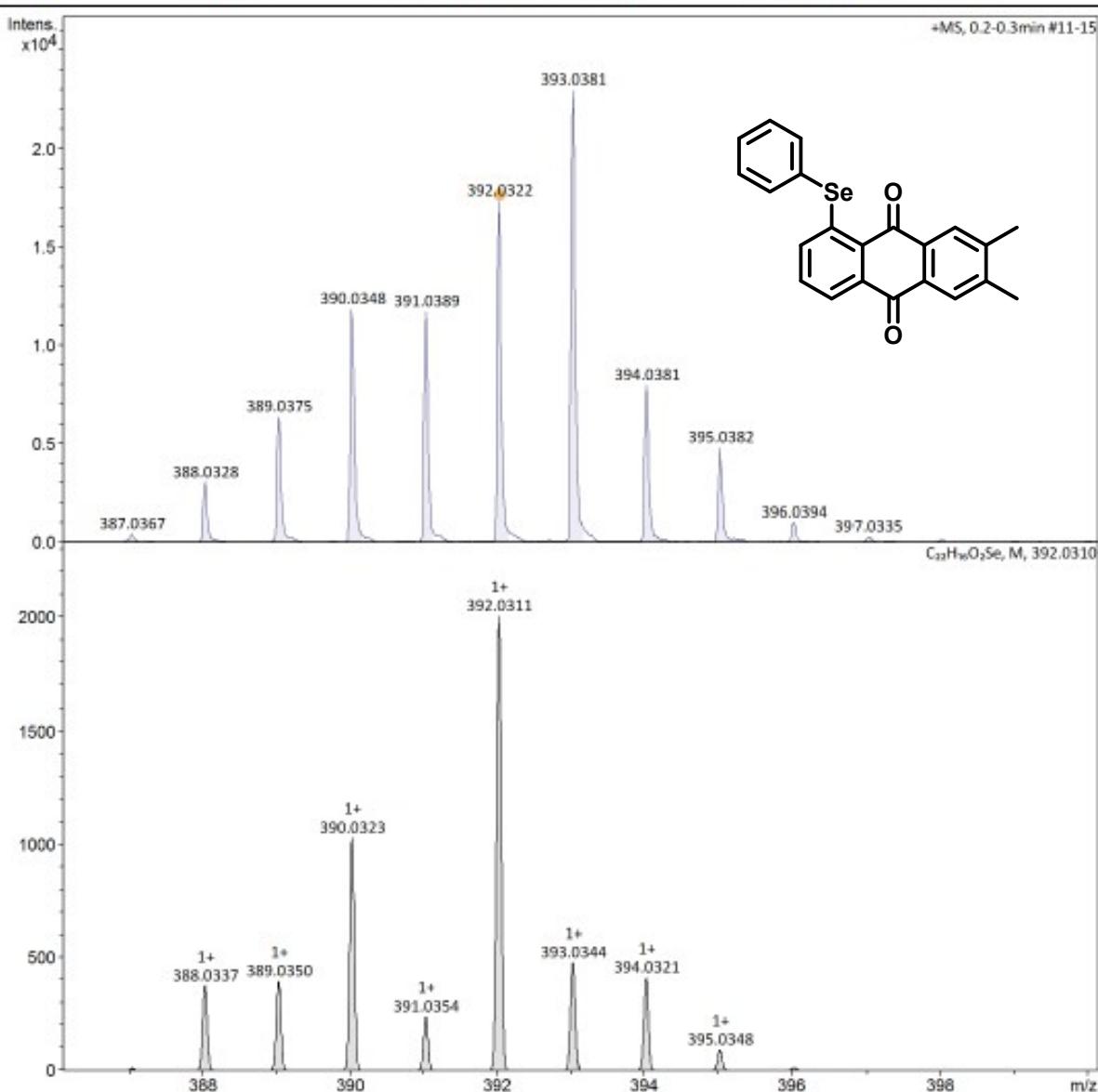
HRMS (APPI<sup>+</sup>) of compound **2r**

Display Report

Analysis Info		Acquisition Date
Analysis Name	D:\Data\LabSELEN Marcelo QMC CFM 17-04-2019\ENSL 872000004.d	4/17/2019 10:42:34 AM
Method	DEFAULT_adaptado 27 03 2019 APPI até limpeza.m	Operator tofq
Sample Name	LabSELEN Marcelo QMC CFM 17-04-2019	Instrument micrOTOF-Q 228888.10243
Comment		

Acquisition Parameter

Source Type	APPI	Ion Polarity	Positive	Set Nebulizer	1.5 Bar
Focus	Not active	Set Capillary	1500 V	Set Dry Heater	200 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	2.0 l/min
Scan End	3000 m/z	Set Collision Cell RF	600.0 Vpp	Set Divert Valve	Source



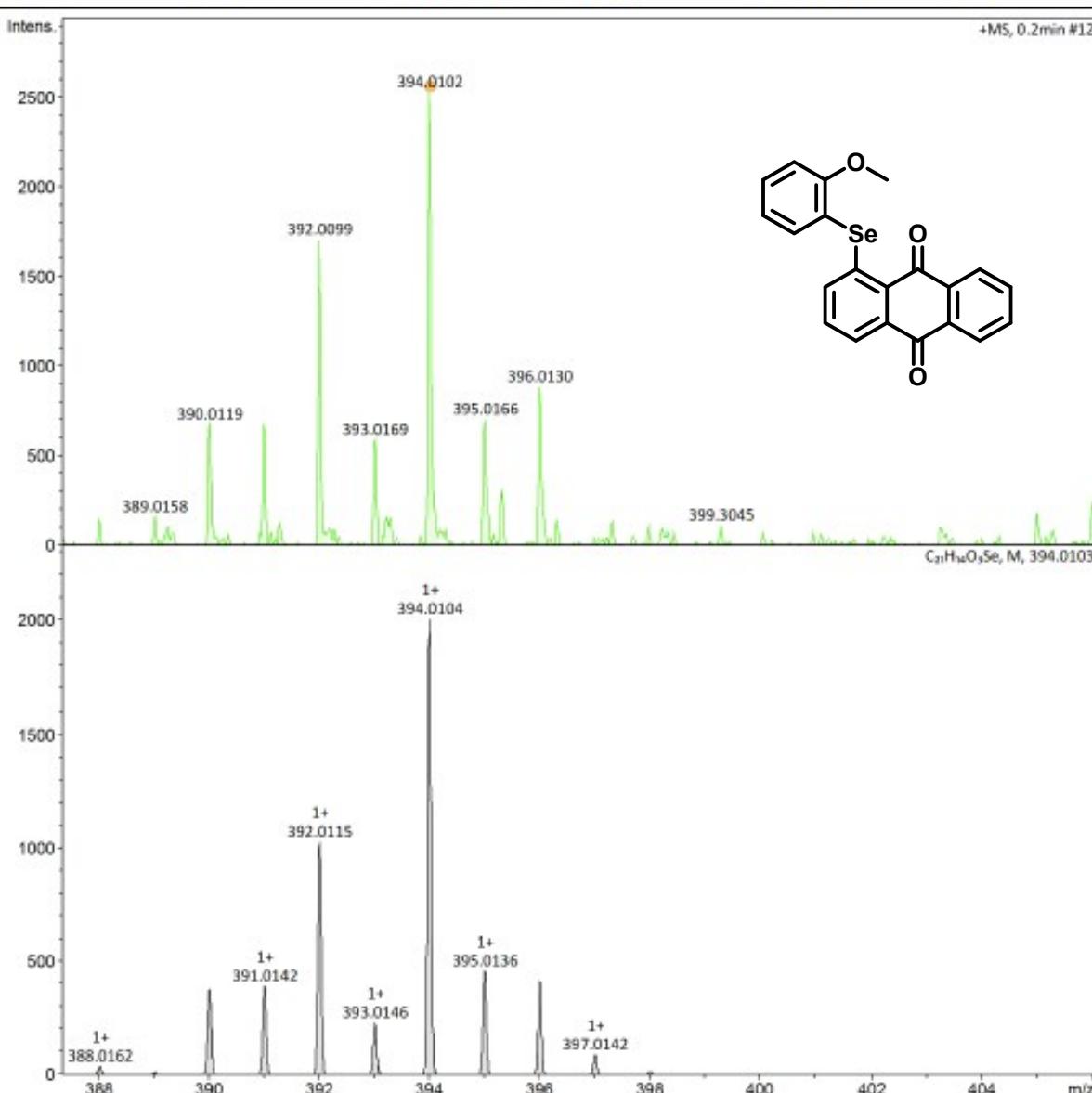
HRMS (APPI<sup>+</sup>) of compound **2s**

Display Report

Analysis Info		Acquisition Date	4/17/2019 11:29:18 AM
Analysis Name	D:\Data\LabSELEN Marcelo QMC CFM 17-04-2019\ENSJ 873000002.d		
Method	DEFAULT_adaptado 27 03 2019 APPI até limpeza.m	Operator	tofq
Sample Name	LabSELEN Marcelo QMC CFM 17-04-2019	Instrument	microTOF-Q 228888.10243
Comment			

Acquisition Parameter

Source Type	APPI	Ion Polarity	Positive	Set Nebulizer	1.5 Bar
Focus	Not active	Set Capillary	1500 V	Set Dry Heater	200 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	2.0 l/min
Scan End	3000 m/z	Set Collision Cell RF	600.0 Vpp	Set Divert Valve	Source



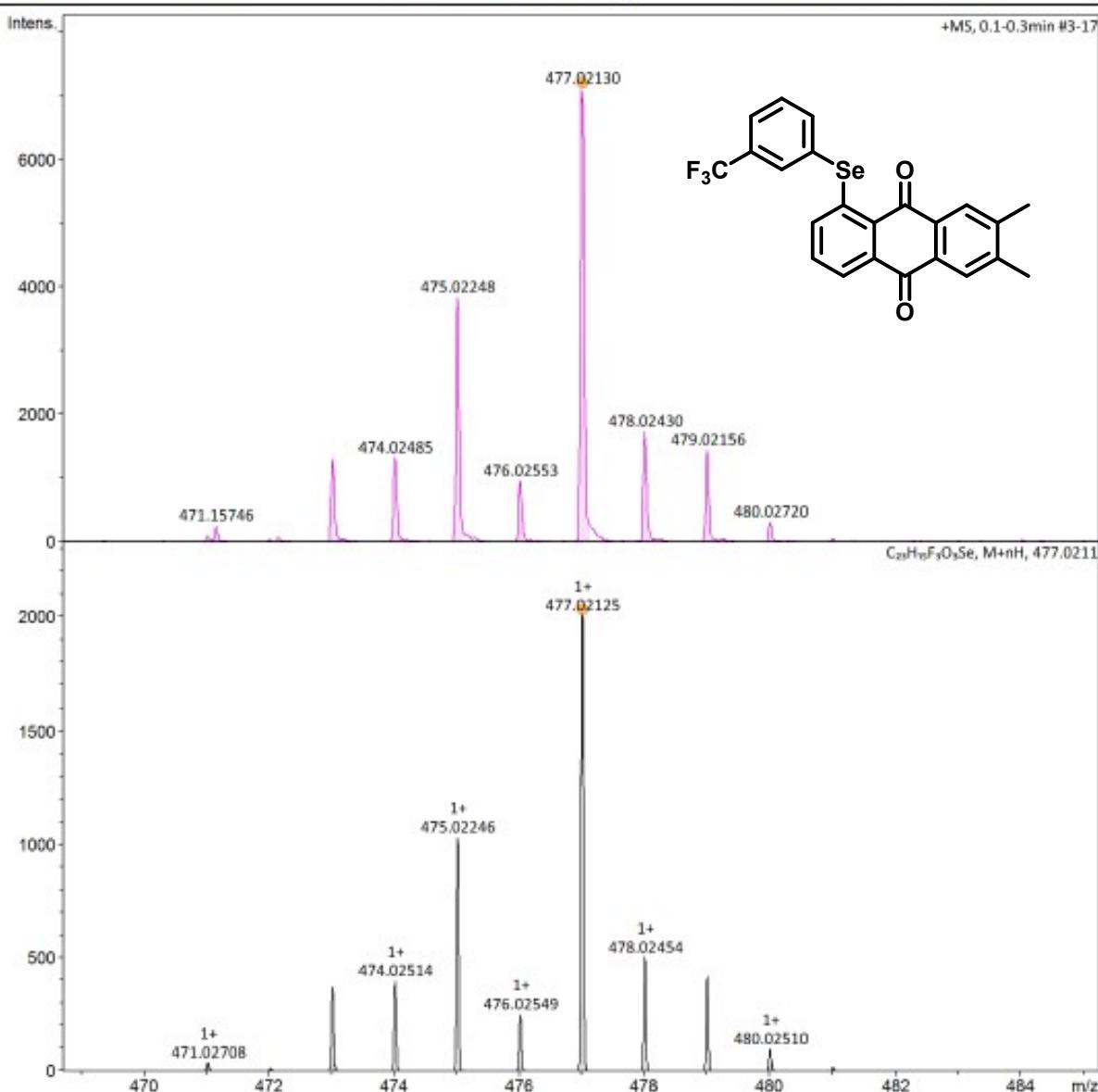
HRMS (APPI<sup>+</sup>) of compound **2t**

Display Report

Analysis Info		Acquisition Date	6/10/2019 2:46:43 PM
Analysis Name	D:\Data\2019\Q-TOF\LabSELEN\LabSELEN Marcelo QMC CFM 10-06-2019\890000001.d		
Method	appi 10 06 19.m	Operator	micrOTOF-QII
Sample Name	890	Instrument	micrOTOF-Q 228888.10243
Comment			

Acquisition Parameter

Source Type	APPI	Ion Polarity	Positive	Set Nebulizer	1.5 Bar
Focus	Not active	Set Capillary	1500 V	Set Dry Heater	200 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	2.0 l/min
Scan End	2000 m/z	Set Collision Cell RF	300.0 Vpp	Set Divert Valve	Source



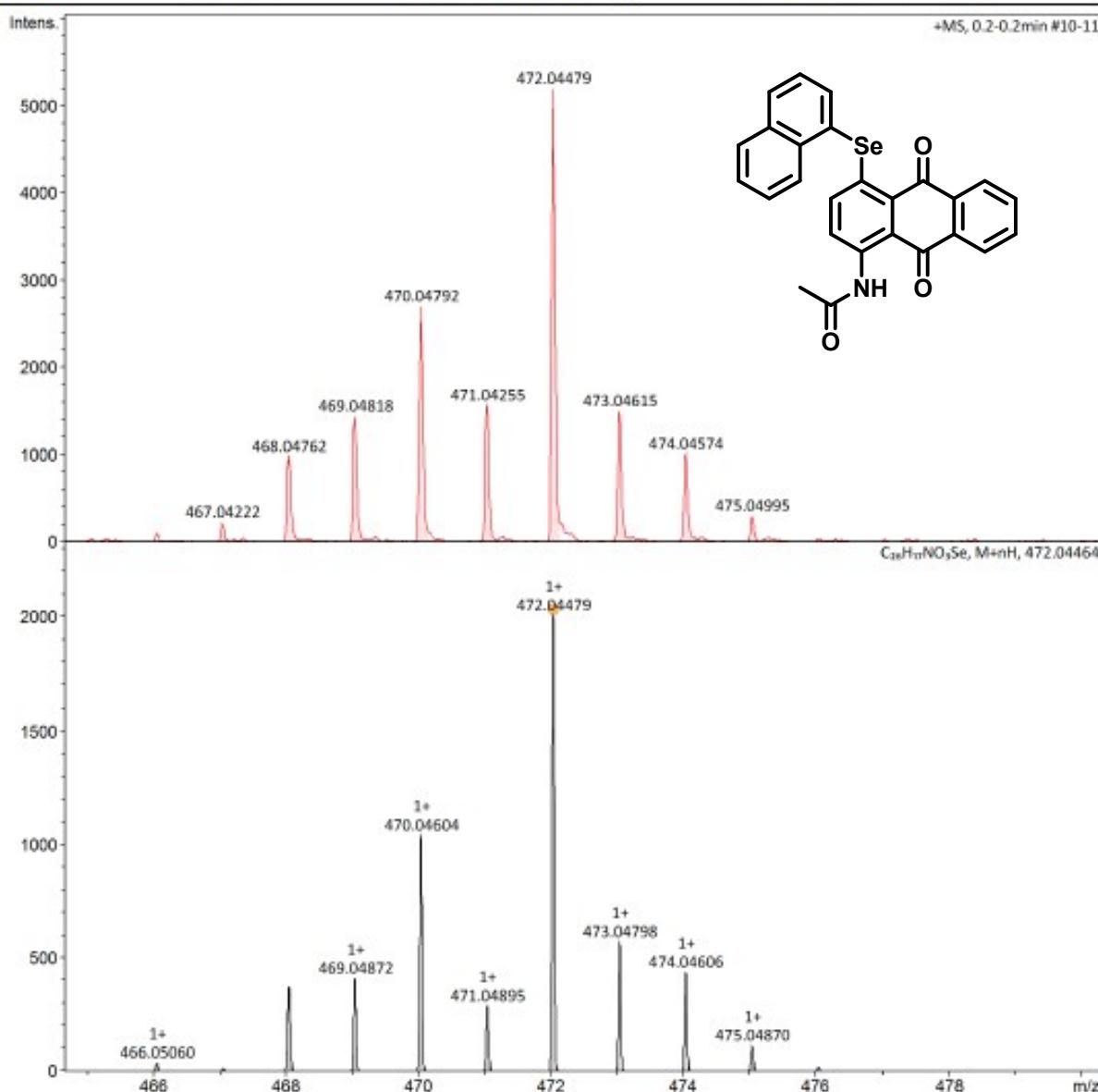
HRMS (APPI<sup>+</sup>) of compound **2u**

Display Report

Analysis Info		Acquisition Date	6/10/2019 3:42:11 PM
Analysis Name	D:\Data\2019\Q-TOF\LabSELEN\LabSELEN Marcelo QMC CFM 10-06-2019\891000002.d		
Method	appi 10 06 19.m	Operator	micrOTOF-QII
Sample Name	891	Instrument	micrOTOF-Q 228888.10243
Comment			

Acquisition Parameter

Source Type	APPI	Ion Polarity	Positive	Set Nebulizer	1.5 Bar
Focus	Not active	Set Capillary	1500 V	Set Dry Heater	200 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	2.0 l/min
Scan End	2000 m/z	Set Collision Cell RF	300.0 Vpp	Set Divert Valve	Source



HRMS (APPI<sup>+</sup>) of compound **2v**

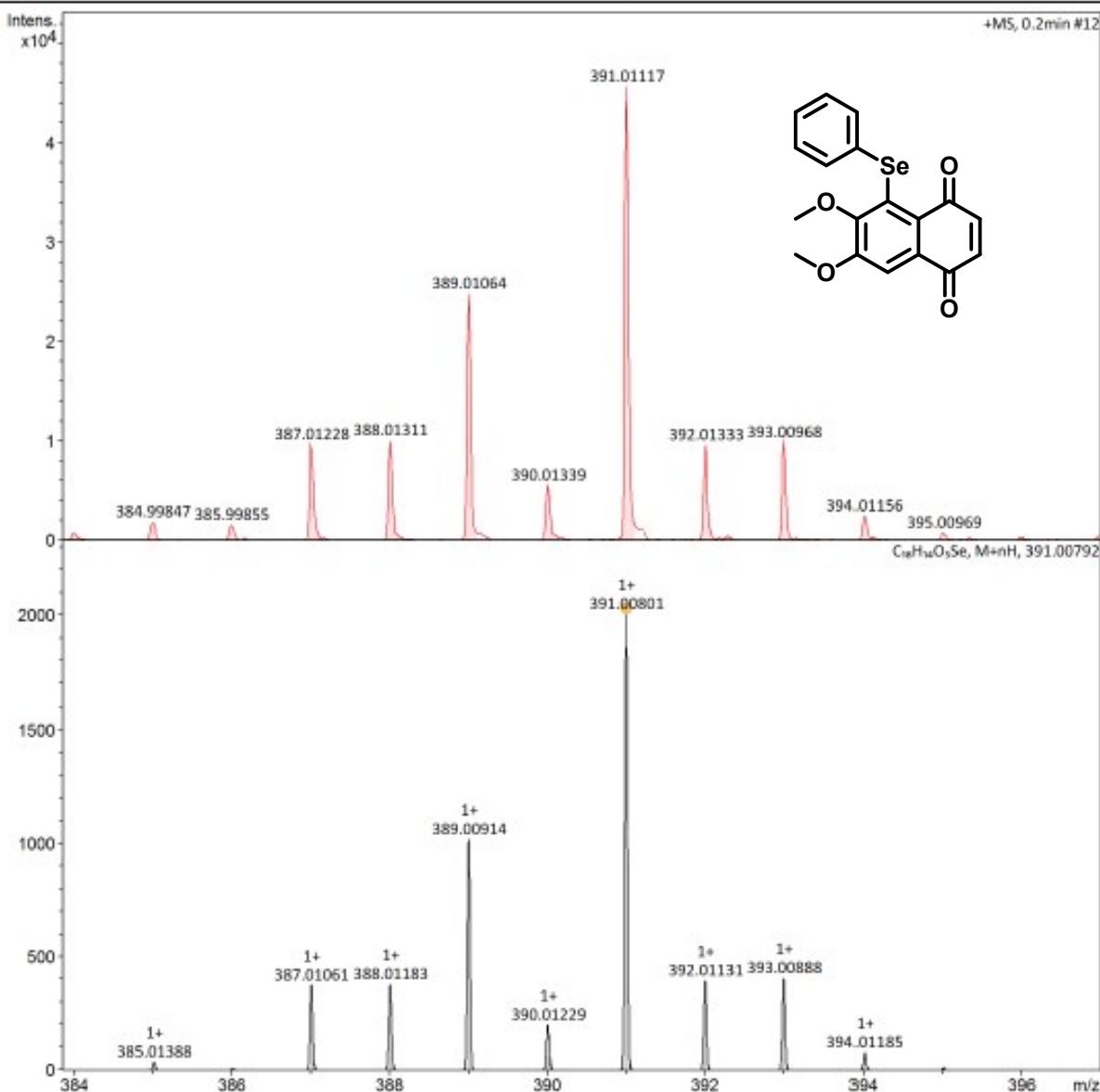
Display Report

**Analysis Info**

Analysis Name	D:\Data\2019\Q-TOF\LabSELEN\LabSELEN Marcelo QMC CFM 10-06-2019\892000004.d	Acquisition Date	6/10/2019 3:03:19 PM
Method	appi 10 06 19.m	Operator	micrOTOF-QII
Sample Name	892	Instrument	micrOTOF-Q 228888.10243
Comment			

**Acquisition Parameter**

Source Type	APPI	Ion Polarity	Positive	Set Nebulizer	1.5 Bar
Focus	Not active	Set Capillary	1500 V	Set Dry Heater	200 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	2.0 l/min
Scan End	2000 m/z	Set Collision Cell RF	300.0 Vpp	Set Divert Valve	Source



HRMS (APPI<sup>+</sup>) of compound **2x**

Display Report

**Analysis Info**

Analysis Name	D:\Data\2019\Q-TOF\LabSELEN\LabSELEN Marcelo QMC CFM 10-06-2019\893000002.d	Acquisition Date	6/10/2019 3:24:06 PM
Method	appi 10 06 19.m	Operator	micrOTOF-QII
Sample Name	893	Instrument	micrOTOF-Q 228888.10243
Comment			

**Acquisition Parameter**

Source Type	APPI	Ion Polarity	Positive	Set Nebulizer	1.5 Bar
Focus	Not active	Set Capillary	1500 V	Set Dry Heater	200 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	2.0 l/min
Scan End	2000 m/z	Set Collision Cell RF	300.0 Vpp	Set Divert Valve	Source

