

Supporting Information

Naphthalene-based oxime esters as Type I photoinitiators for free radical photopolymerization

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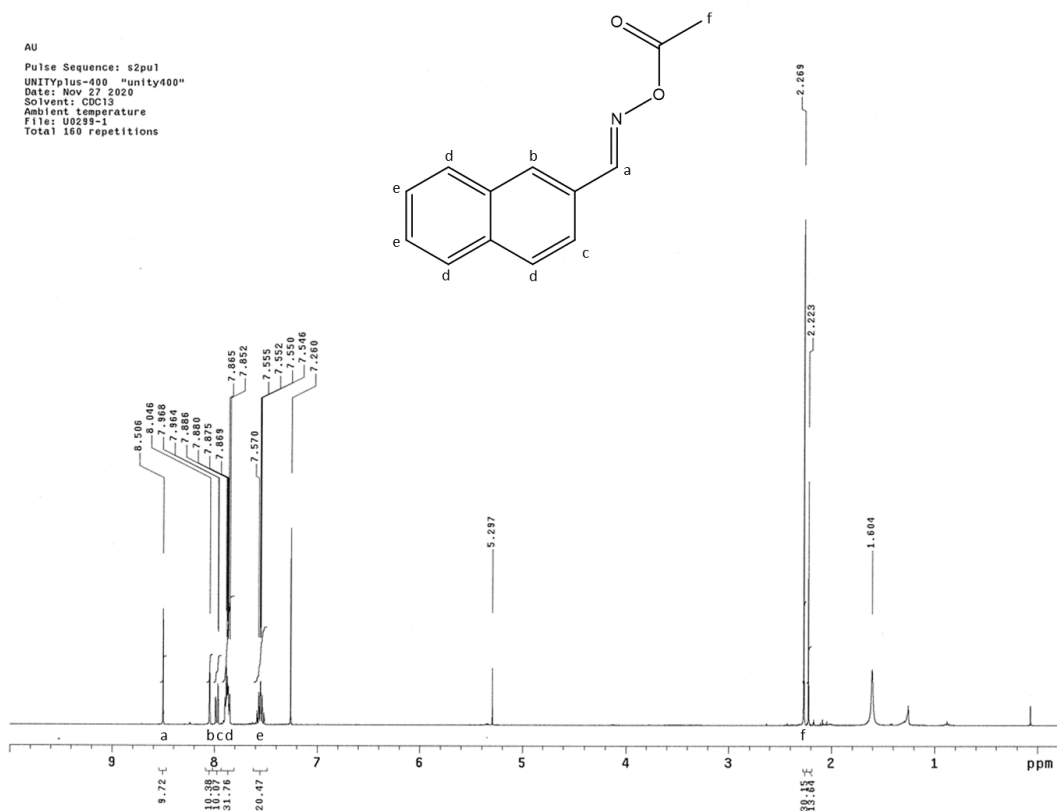


Figure S1 ^1H NMR of the NA-1.

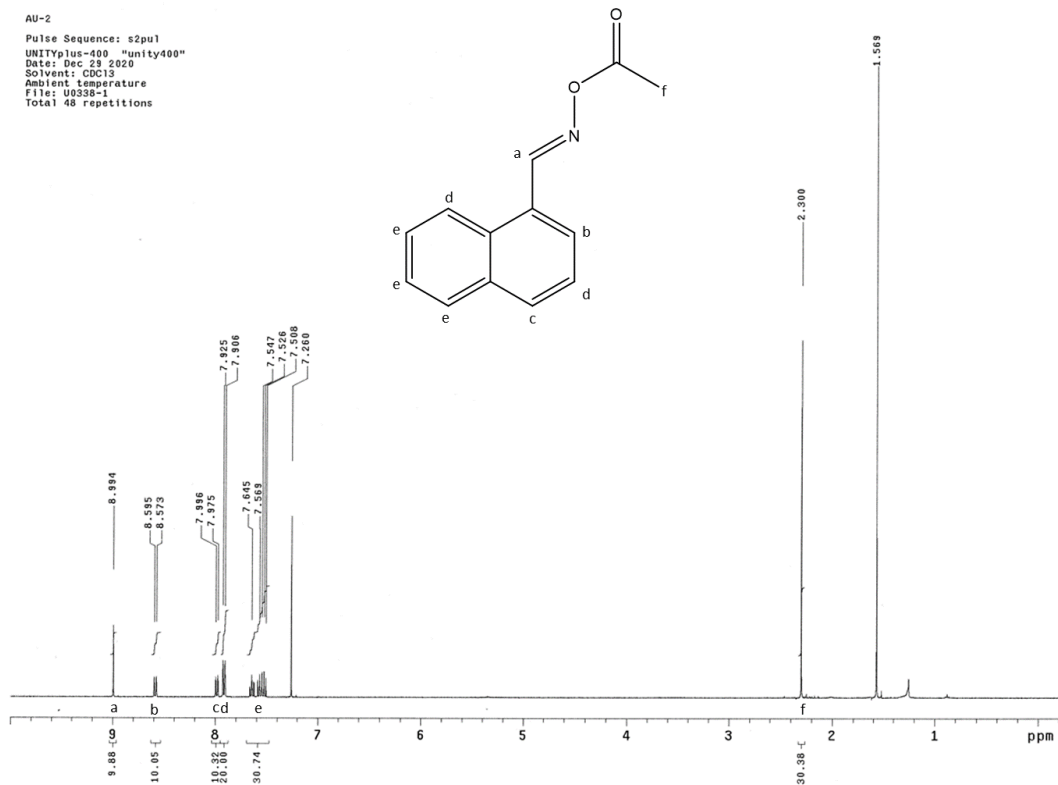


Figure S2 ¹H NMR of the NA-2.

NA-4
Pulse Sequence: s2pu1
UNITYplus-400 "unity400"
Date: Jun 2 2021
Solvent: CDCl3
Ambient temperature
File: U0141-2
Total 44 repetitions

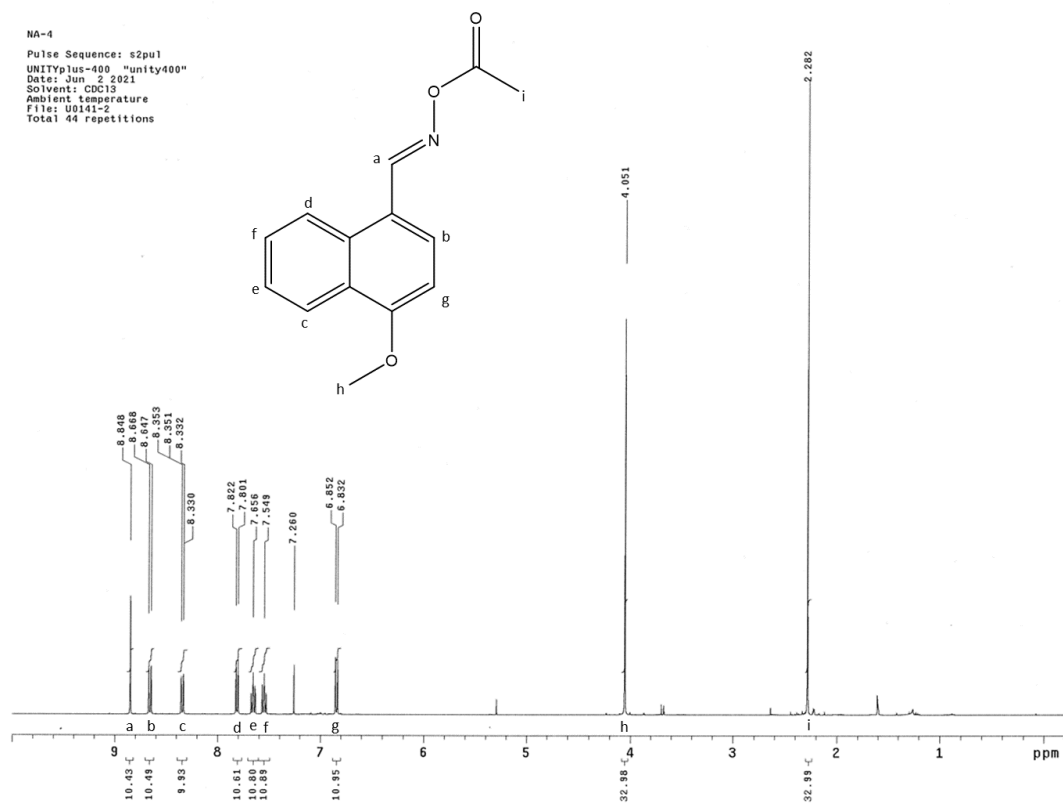


Figure S4 ^1H NMR of the NA-4.

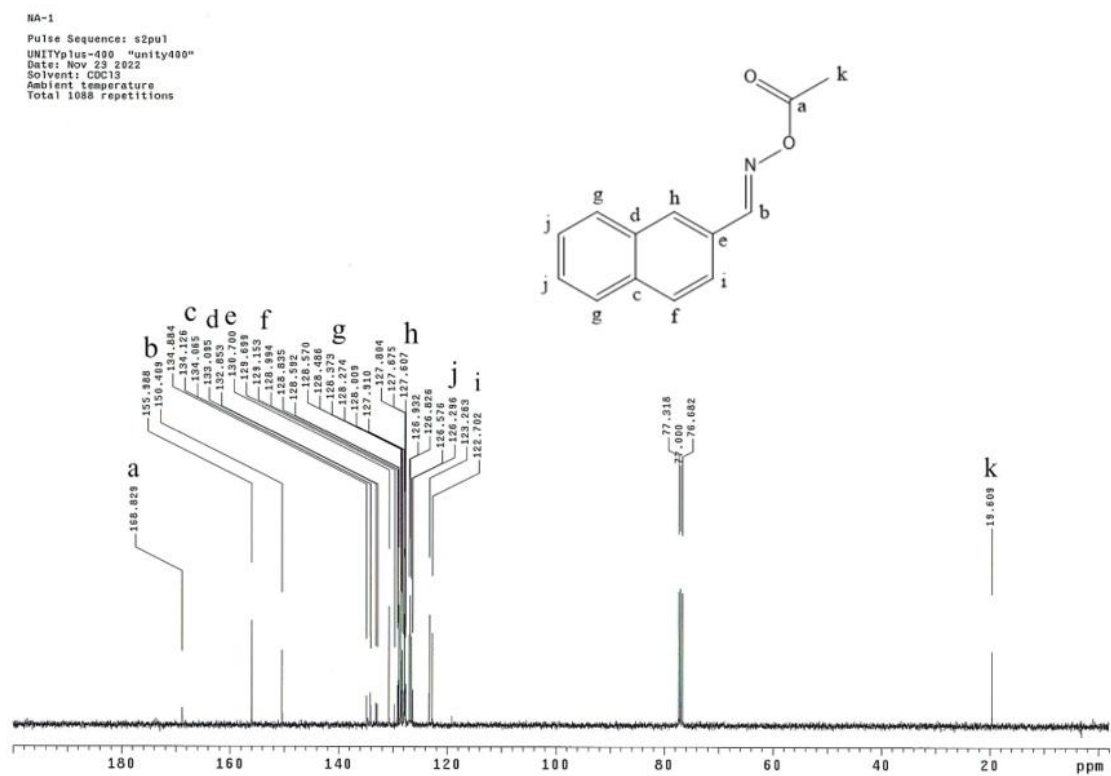


Figure S5 ¹³C NMR of the NA-1.

NA-2
Pulse Sequence: s2pu1
UNITYplus-400 "unity400"
Date: Nov 24 2022
Solvent: CDCl3
Ambient temperature
Total 1248 repetitions

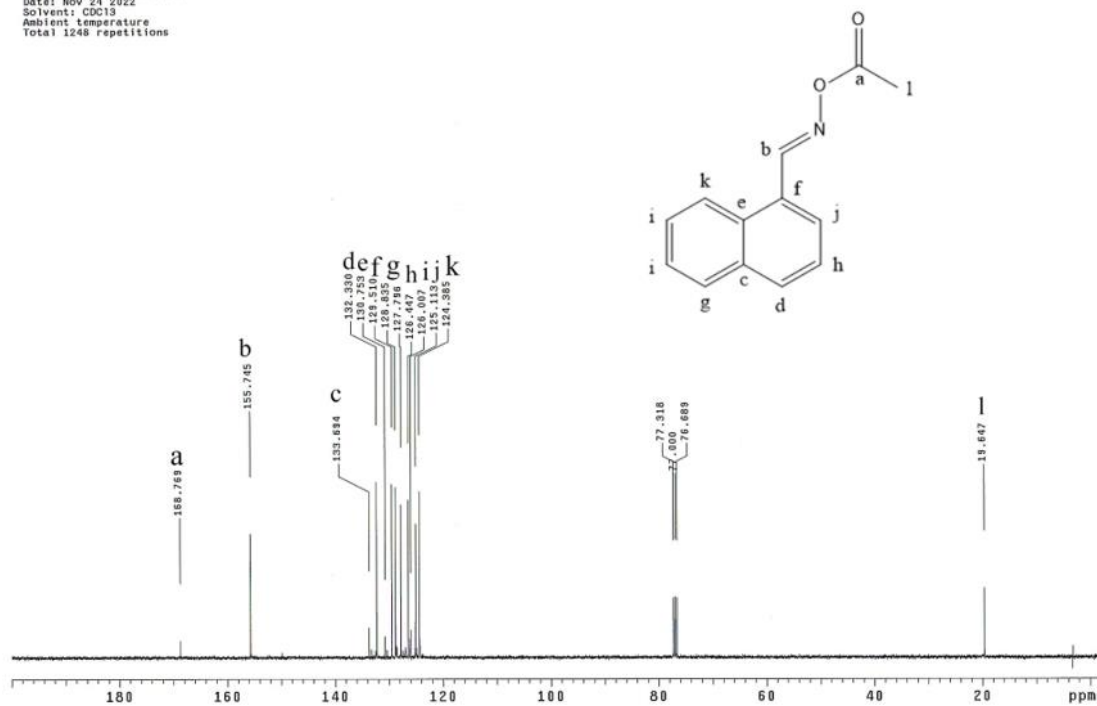


Figure S6 ¹³C NMR of the NA-2.

NA-3
Pulse Sequence: s2pul
UNITYplus-400 "unity400"
Date: Nov 23 2022
Solvent: CDCl₃
Ambient Temperature
Total 3200 repetitions

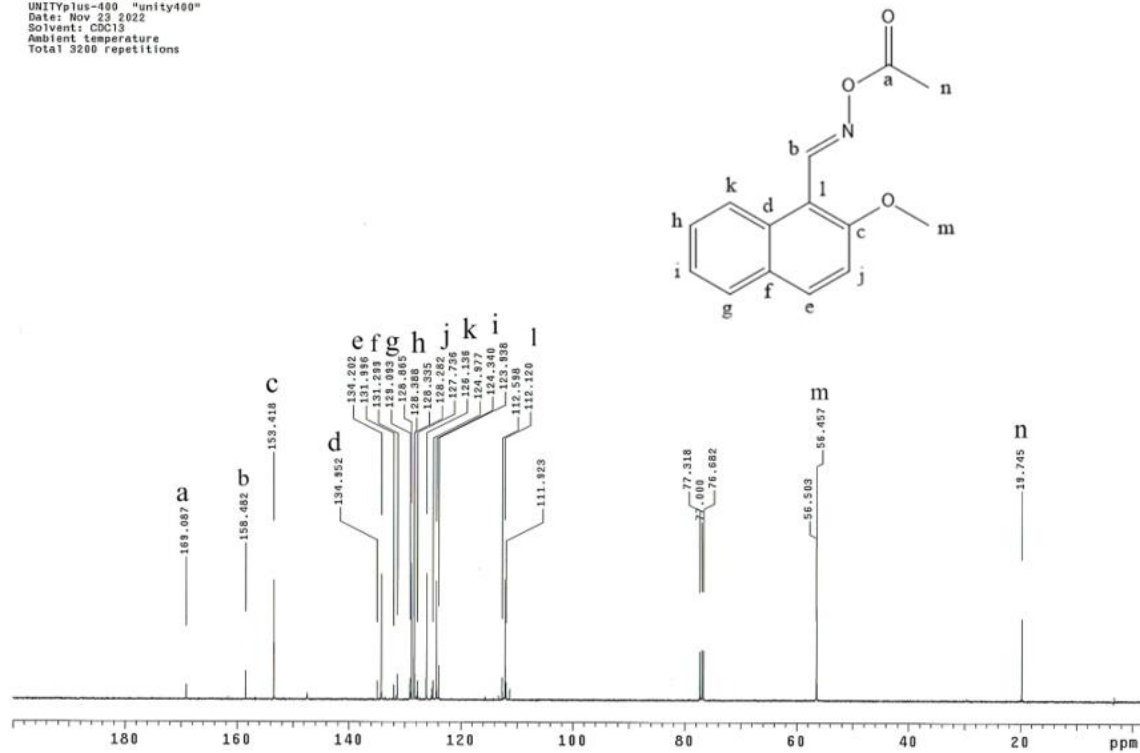


Figure S7 ¹³C NMR of the NA-3.

NA-4
Pulse Sequence: s2pu1
UNITYplus-400 "unity400"
Date: Nov 24 2022
Solvent: CDCl3
Ambient temperature
Total 768 repetitions

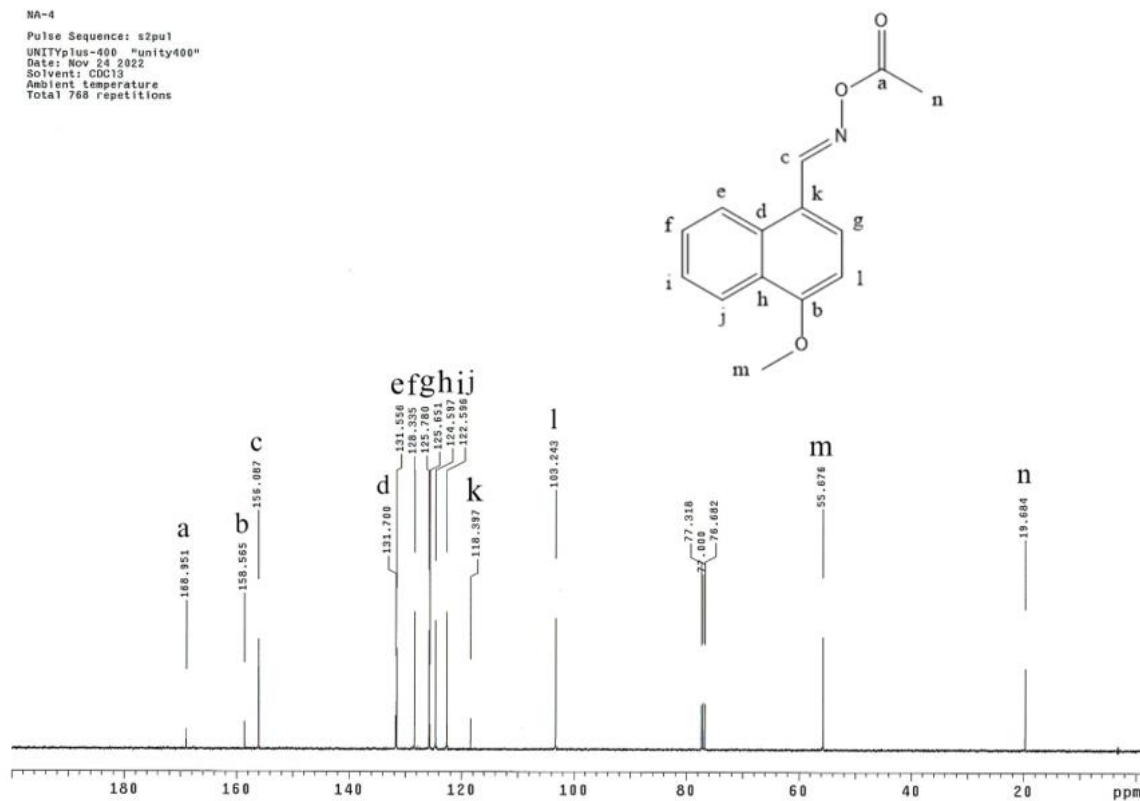
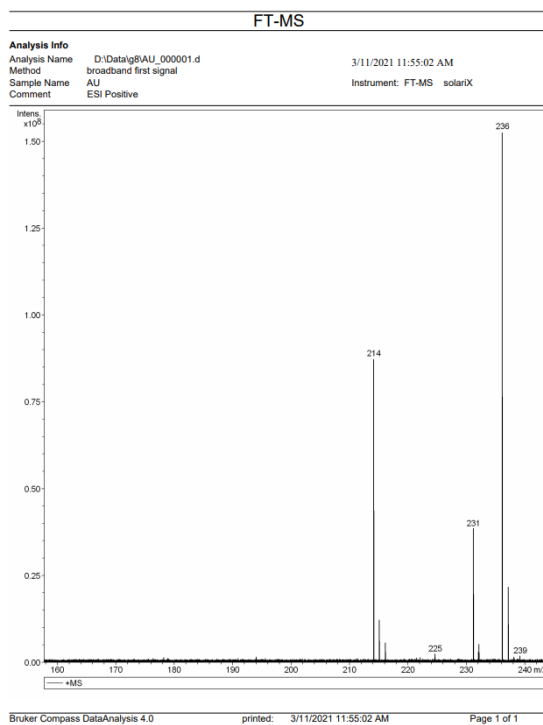


Figure S8 ^{13}C NMR of the NA-4.

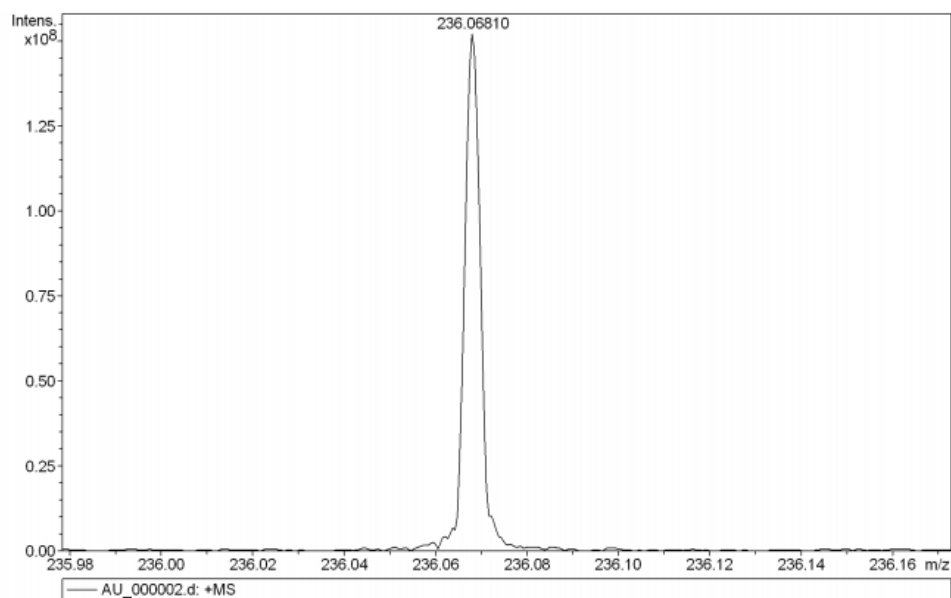


Mass Spectrum SmartFormula Report

Analysis Info

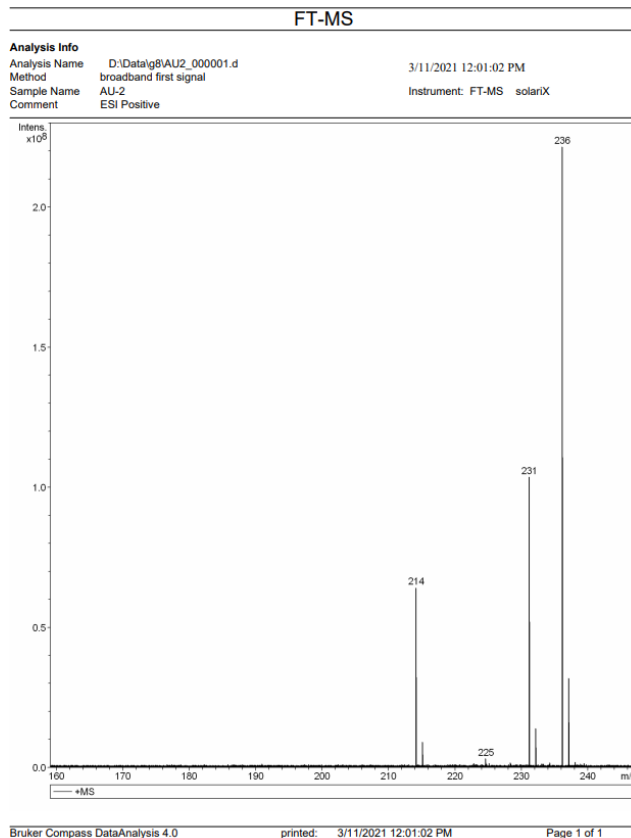
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Method: broadband first signal
Sample Name: AU
Comment: ESI Positive

3/11/2021 11:54:20 AM
Operator: YU HSIAO-CHING
Instrument: BRUKER FT-MS solarix



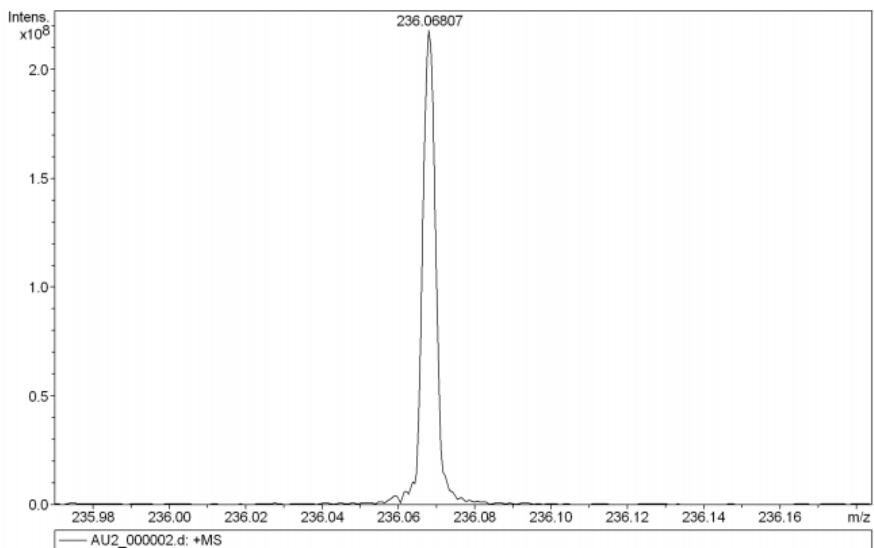
Meas. m/z	#	Formula	Score	m/z	err [mDa]	err [ppm]	mSigma	rdb	e ⁻ Conf	N-Rule
236.06810	1	C 13 H 11 N Na O 2	100.00	236.06820	0.10	0.42	6.8	8.5	even	ok

Figure S9 Fourier-transfer mass spectrometry (FT-MS) of the **NA-1**.



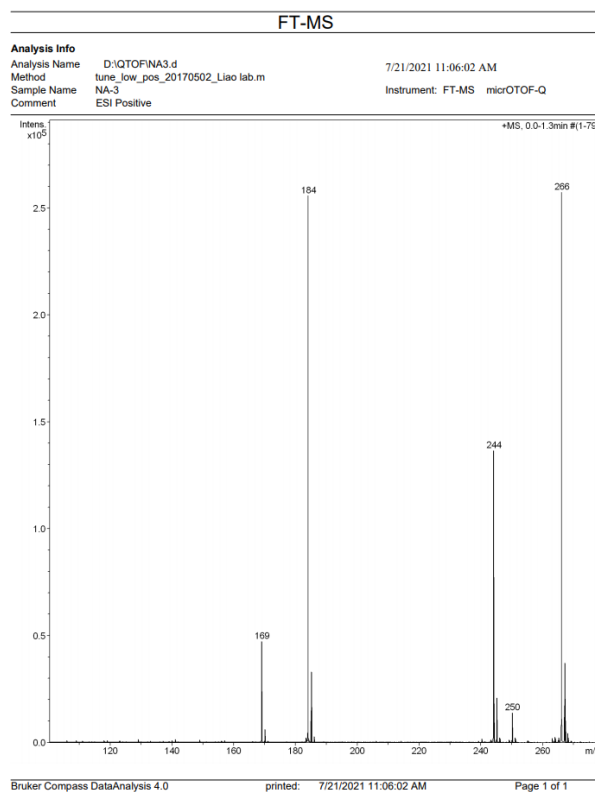
Mass Spectrum SmartFormula Report

Analysis Info		
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Method	broadband first signal	Operator: YU HSIAO-CHING
Sample Name	AU-2	Instrument: BRUKER FT-MS solarIX
Comment	ESI Positive	



Meas. m/z	#	Formula	Score	m/z	err [mDa]	err [ppm]	mSigma	rdb	e ⁻ Conf	N-Rule
236.06807	1	C 13 H 11 N Na O 2	100.00	236.06820	0.13	0.55	2.0	8.5	even	ok

Figure S10 Fourier-transfer mass spectrometry (FT-MS) of the **NA-2**.



Mass Spectrum SmartFormula Report

Analysis Info

Analysis Name: D:\QTOF\NA3H1.d
Method: tune_low_pos_20170502_Liao lab.m
Sample Name: NA-3
Comment: ESI Positive

7/21/2021 11:09:28 AM
Operator: YU HSIAO-CHING
Instrument: BRUKER FT-MS micrOTOF-Q

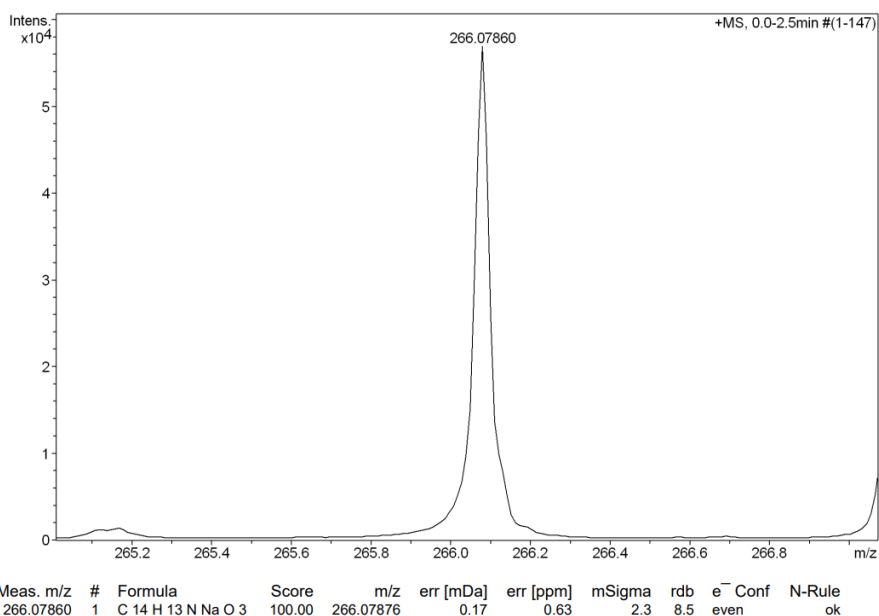
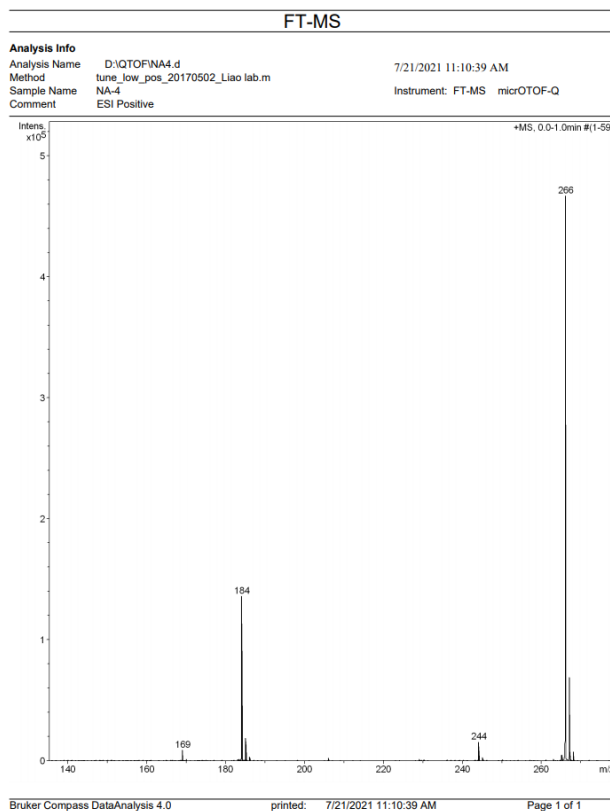


Figure S11 Fourier-transfer mass spectrometry (FT-MS) of the **NA-3**.



Mass Spectrum SmartFormula Report

Analysis Info
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Method: tune_low_pos_20170502_Liao lab.m
Sample Name: NA-4
Comment: ESI Positive

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Operator: YU HSIAO-CHING
Instrument: BRUKER FT-MS microTOF-Q

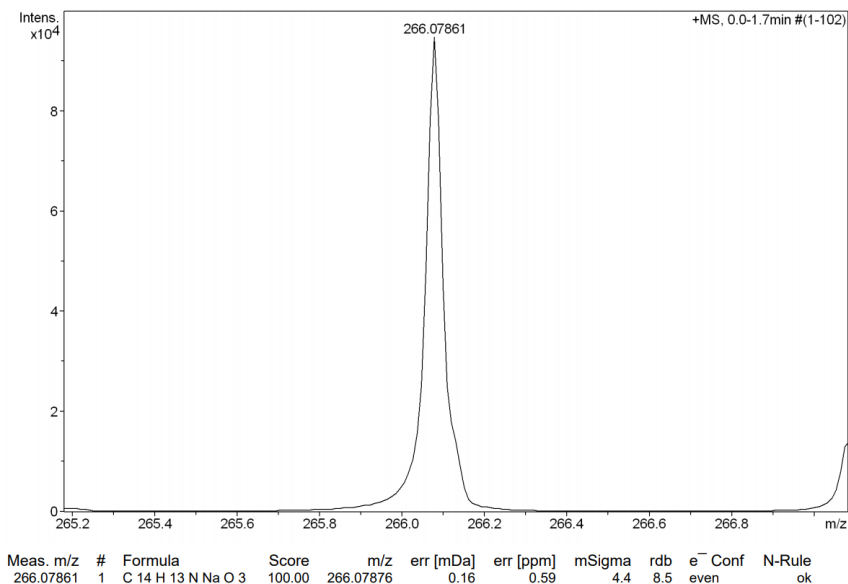


Figure S12 Fourier-transfer mass spectrometry (FT-MS) of the **NA-4**.