

Electronic Supporting Information for

Synthesis of a C-functionalized TE1PA and comparison with analogues. Example of bioconjugation on 9E7.4 mAb for multiple myeloma ^{64}Cu -PET imaging

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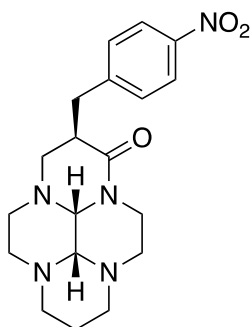
^d *Institut de Cancérologie de l'Ouest, 44800 Saint-Herblain, France.*

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Compound 1



Formula: $C_{19}H_{25}N_5O_3$

Exact Mass: $371.196 \text{ g.mol}^{-1}$

Molecular Weight: $371.441 \text{ g.mol}^{-1}$

Description: *white powder*

^1H NMR (300 MHz, CDCl_3 , 25°C) δ 8.07 (d, $J = 8.7$ Hz, 2H, CH_{Ar} PhNO_2), 7.31 (d, $J = 8.7$ Hz, 2H, CH_{Ar} PhNO_2), 4.47-4.35 (m, 1H), 4.22 (d, $J = 3.1$ Hz, 1H), 3.47 (dd, $J = 14.0, 3.8$ Hz, 1H, N-CH-N), 3.38 (td, $J = 12.0, 3.3$ Hz, 1H), 3.10 (d, $J = 3.1$ Hz, 1H, N-CH-N), 3.04 (dd, $J = 11.2, 2.6$ Hz, 1H), 3.00-2.82 (m, 6H), 2.82-2.57 (m, 3H), 2.43-2.28 (m, 2H), 2.24-2.04 (m, 3H), 1.30-1.10 (m, 1H, CH_2 - β -N).

^{13}C NMR (75 MHz, CDCl_3 , 25°C) δ 170.4 (CO), [147.8, 146.6] (C_{Ar} PhNO_2), [129.9, 123.7] (CH_{Ar} PhNO_2), [76.00, 70.9] (N-CH-N), [55.9, 53.9, 53.2, 53.0, 44.4, 43.9, 40.6] (CH_2 - α -N), 36.7 (CH_2 - β -N), 35.1 (CH_2 - PhNO_2), 19.6 (CH_2 - β -N).

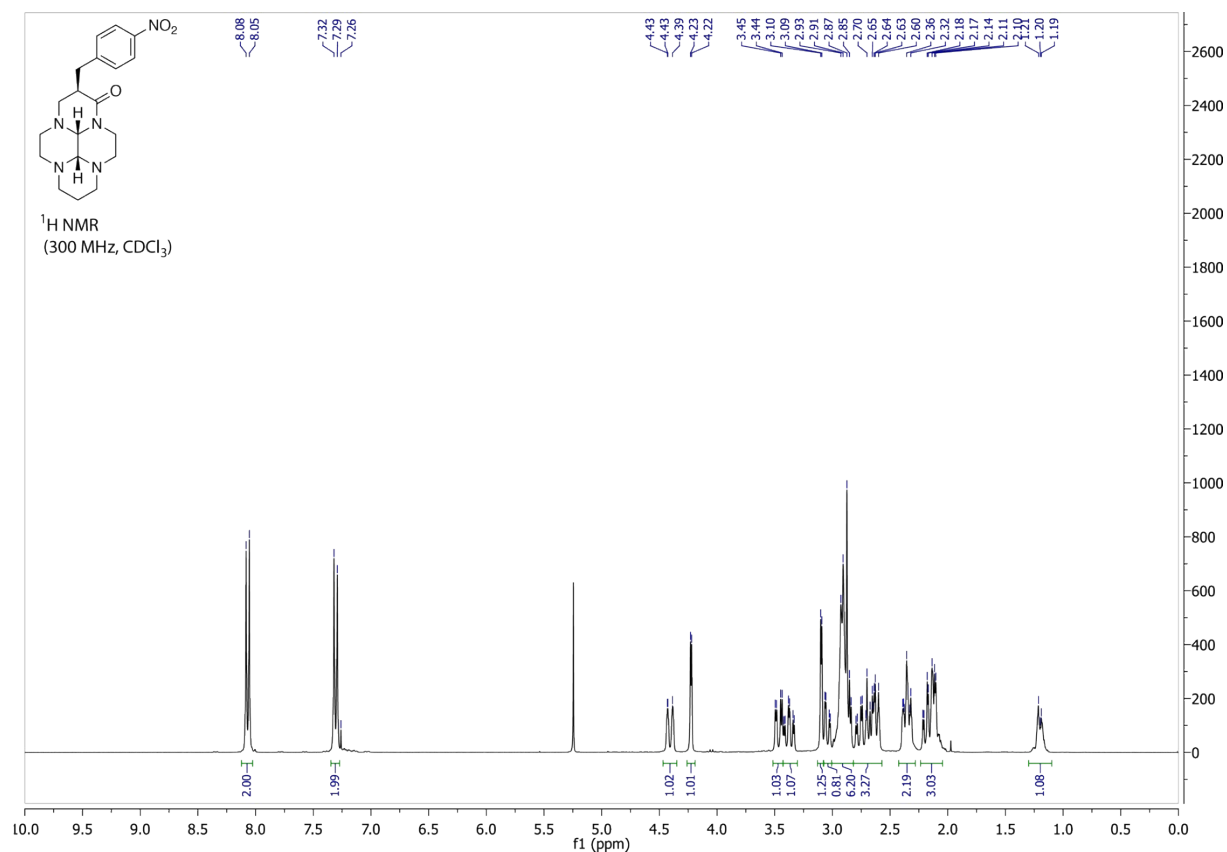


Figure S1: ¹H NMR Spectrum (300 MHz, CDCl₃, 25°C) of compound **1**

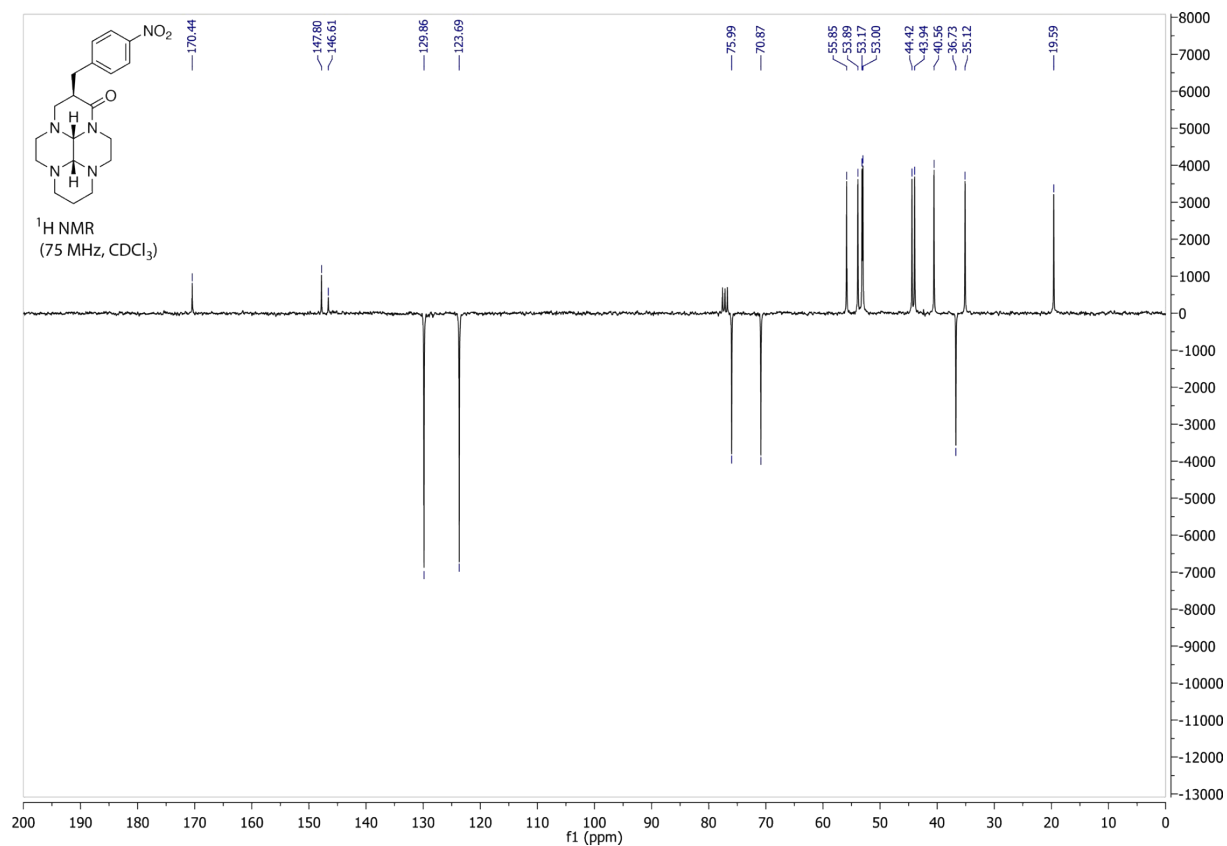
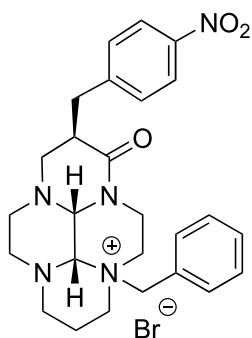


Figure S2 : ¹³C NMR spectrum (75 MHz, CDCl₃, 25°C) of compound **1**



Compound 2

Formula: $C_{26}H_{32}N_5O_3Br$

Exact Mass: $371.196 \text{ g.mol}^{-1}$

Molecular Weight: $542.478 \text{ g.mol}^{-1}$

Description: *White Powder*

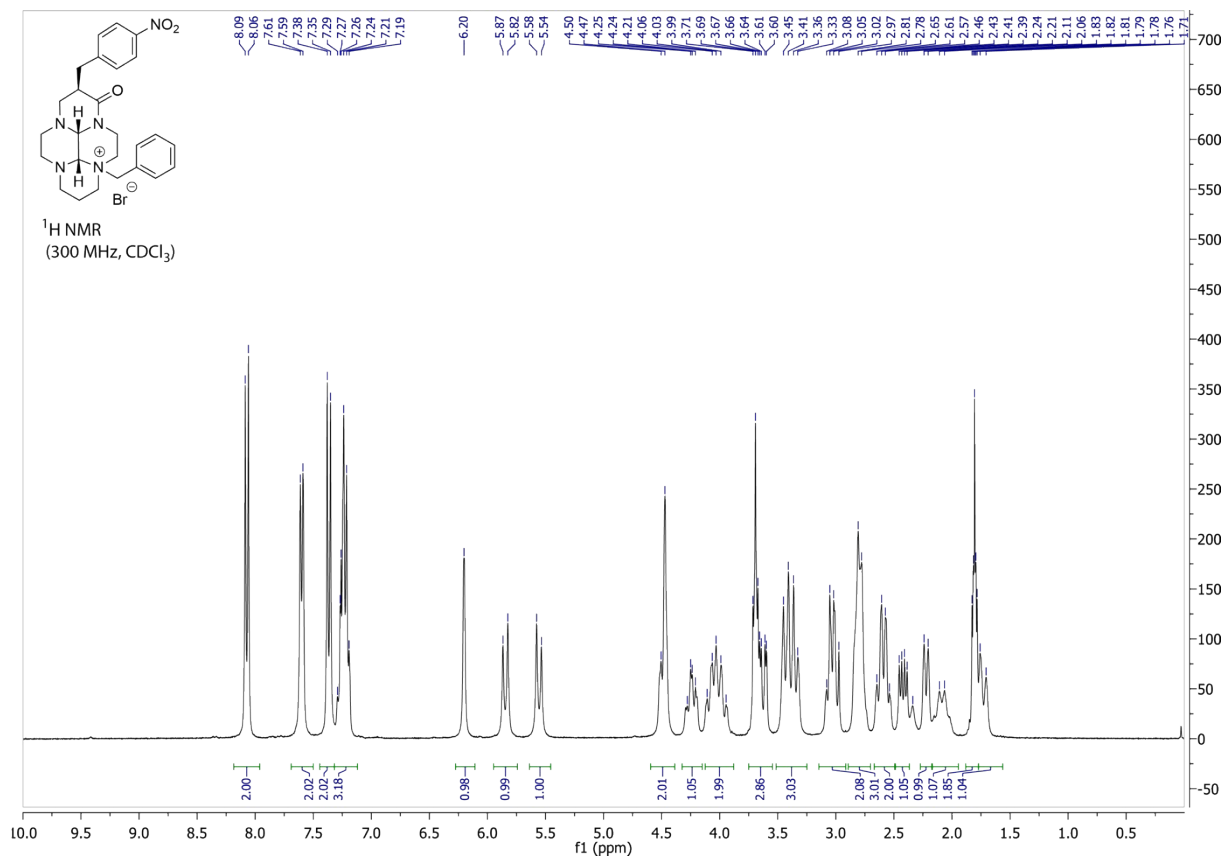


Figure S3: ¹H NMR Spectrum (300 MHz, CDCl₃, 25°C) of compound **2**

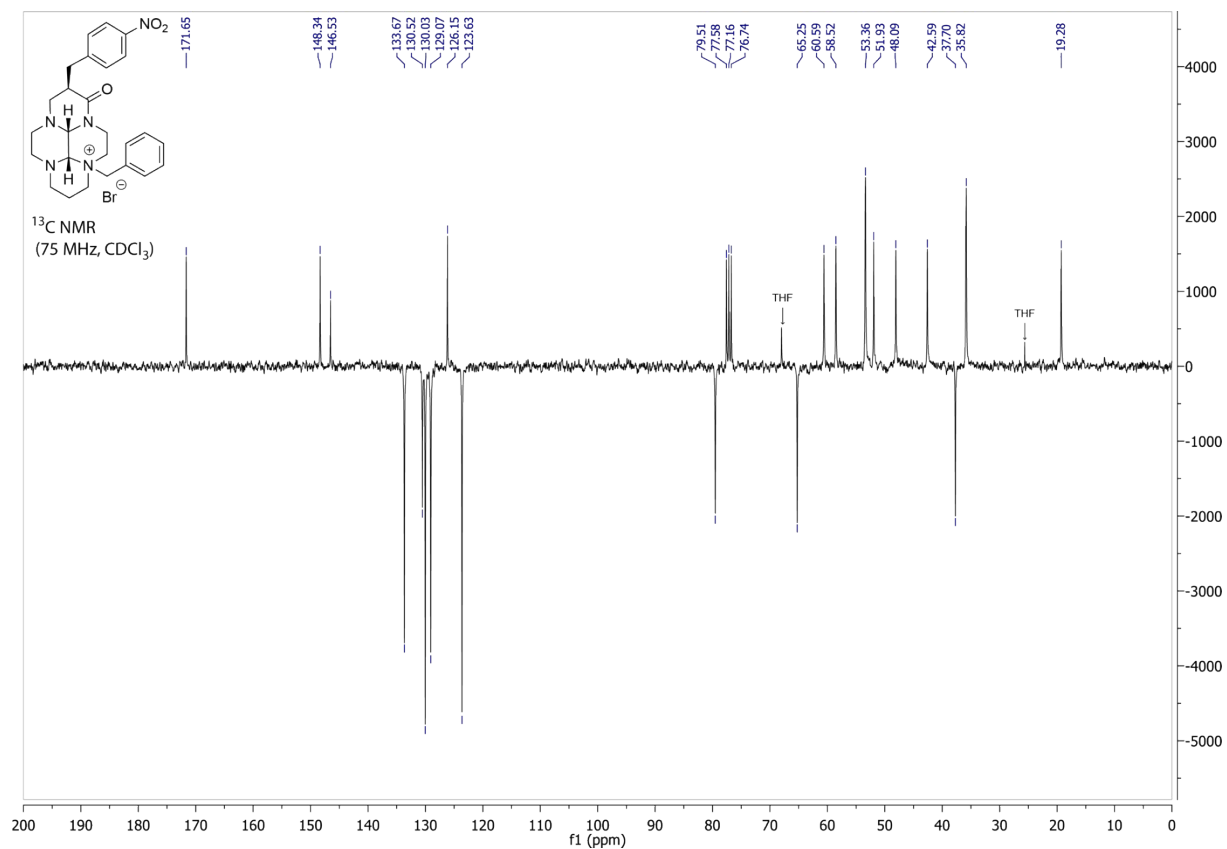


Figure S4: ¹³C NMR spectrum (75 MHz, CDCl₃, 25°C) of compound **2**



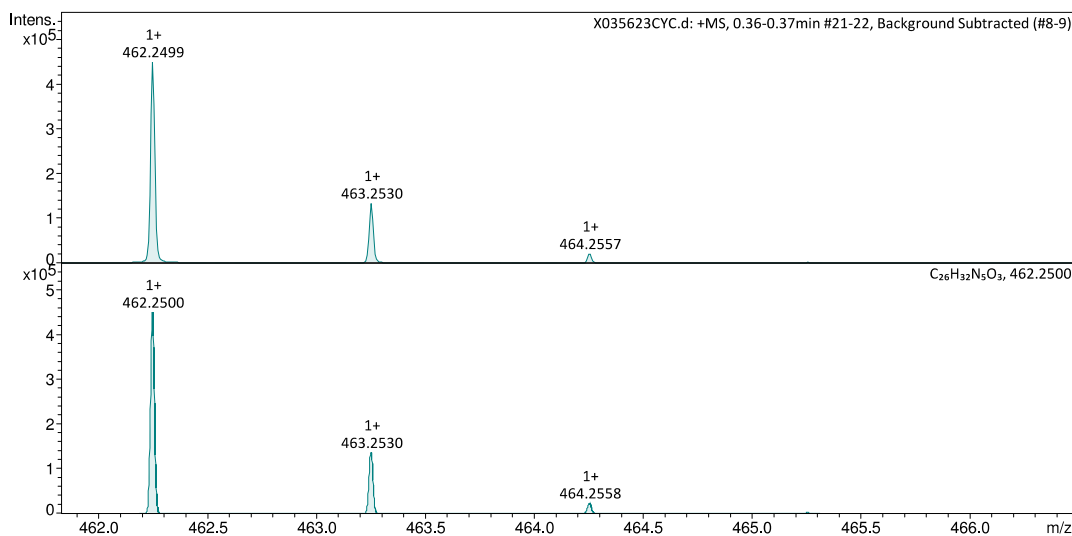
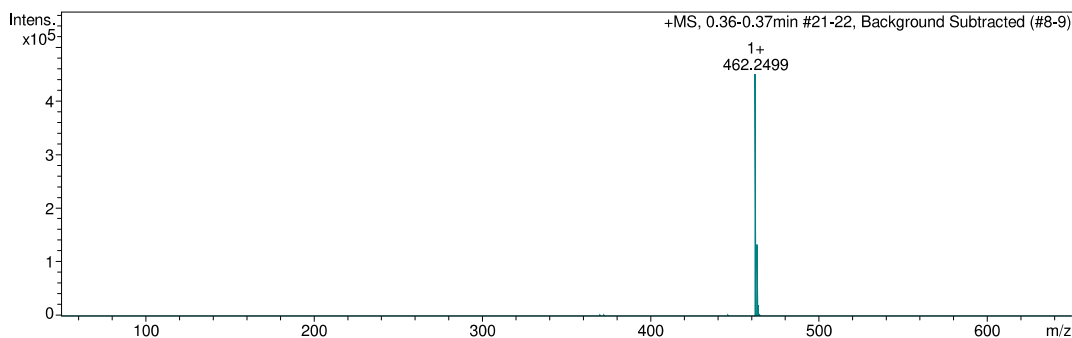
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Analysis Name X035623CYC.d

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Instrument / Ser# maXis 255552.00086
Method Positif.m

Acquisition Parameter

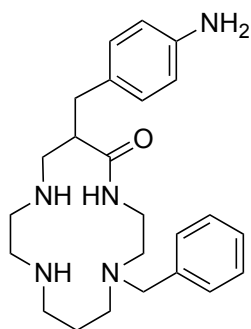
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Scan End	2500 m/z	Set Collision Cell RF	1800.0 Vpp	Set Dry Gas	7.0 l/min



Meas. m/z	z	#	Ion Formula	m/z	err [ppm]	mSigma	rdb	e ⁻	Conf
462.249946	1+	1	C26H32N6O3	462.249966	0.0	4.7	14.0	even	

Figure S5: HRMS spectrum (ESI) of compound 2

Compound 3



Formula: $C_{24}H_{35}N_5O$

Exact Mass: $409.284 \text{ g.mol}^{-1}$

Molecular Weight: $409.578 \text{ g.mol}^{-1}$

Description: *yellowish oil*

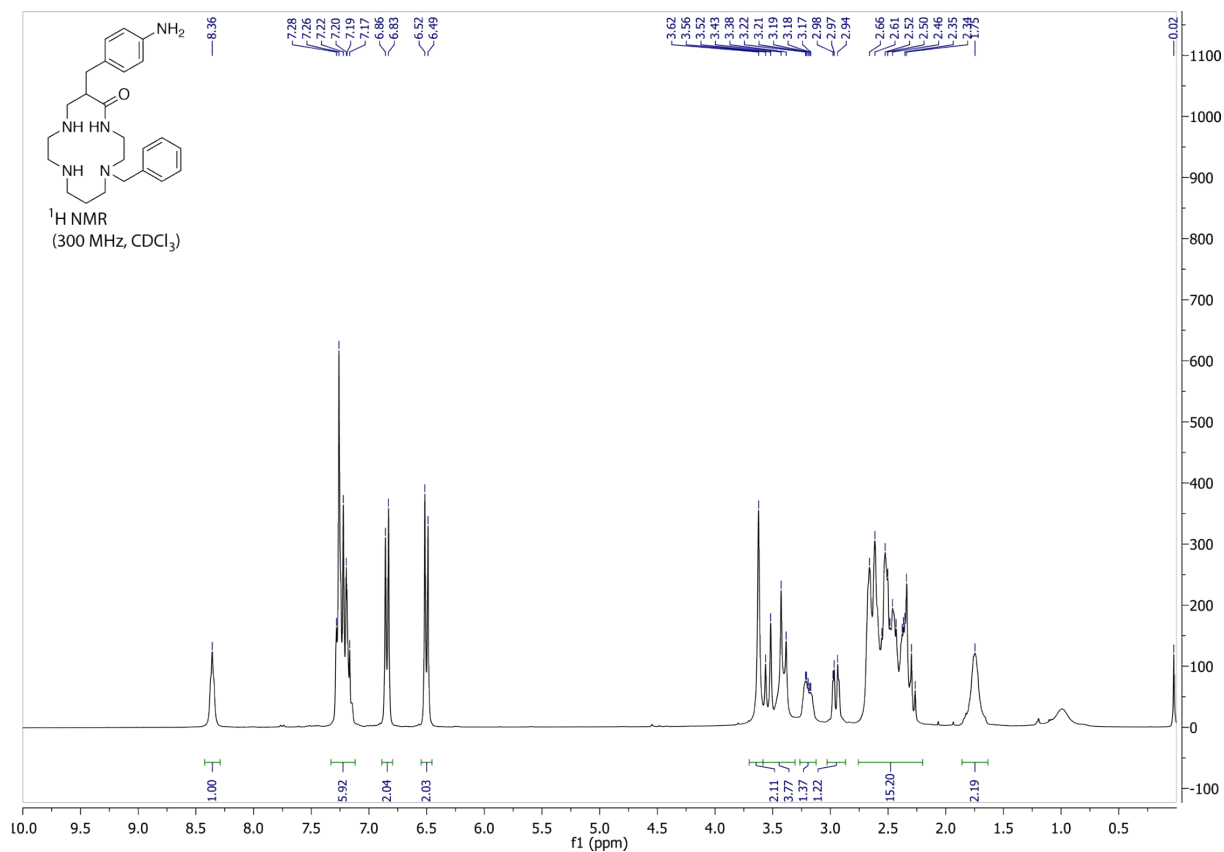


Figure S6: ¹H NMR spectrum (300 MHz, CDCl₃, 25°C) of compound 3

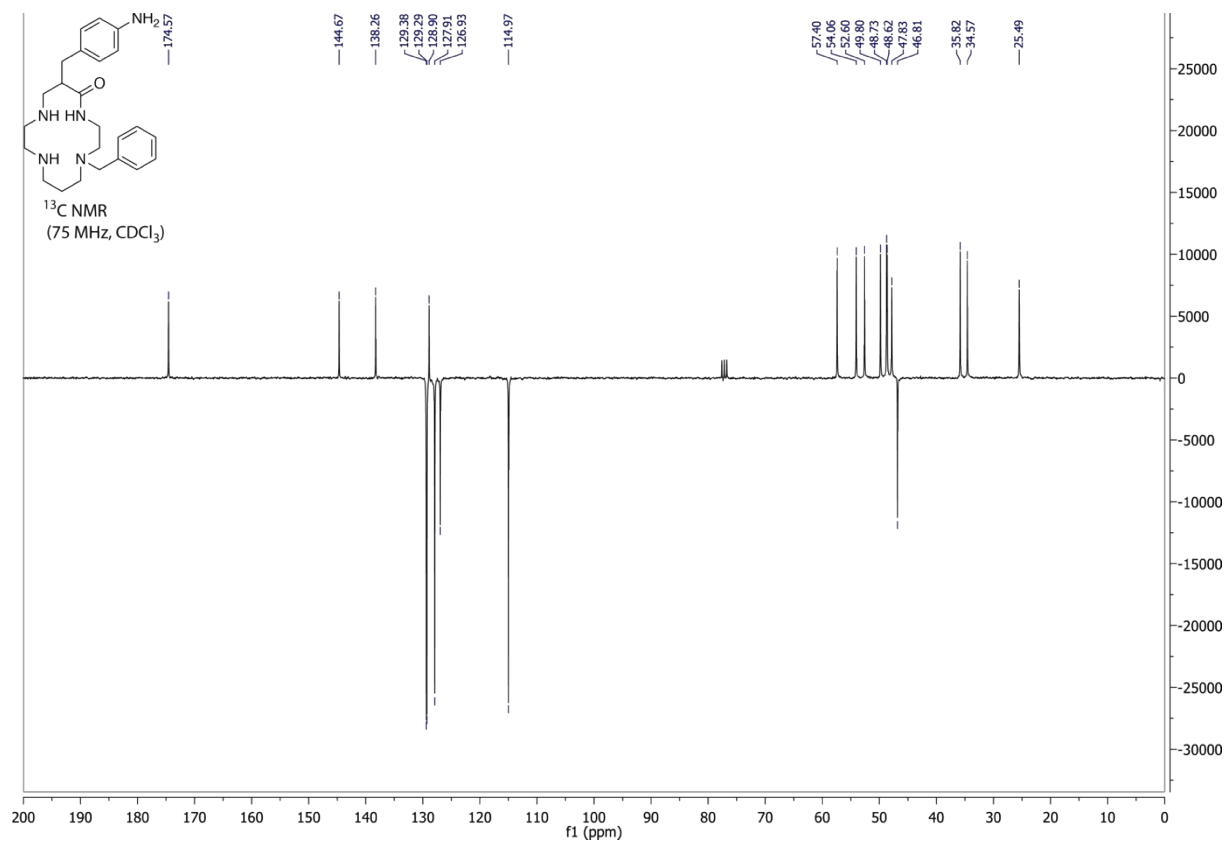


Figure S7: ¹³C NMR spectrum (75 MHz, CDCl₃, 25°C) of compound 3

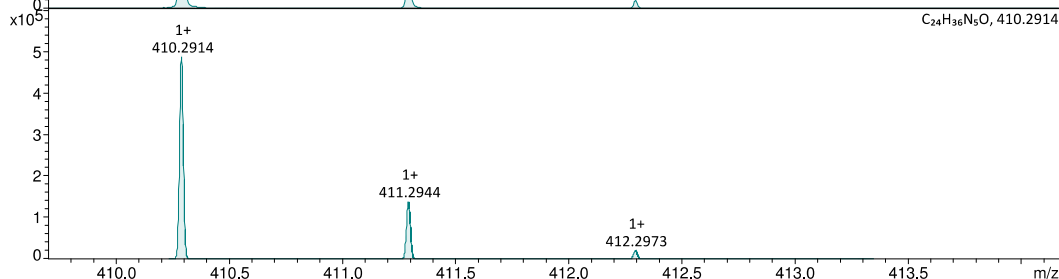
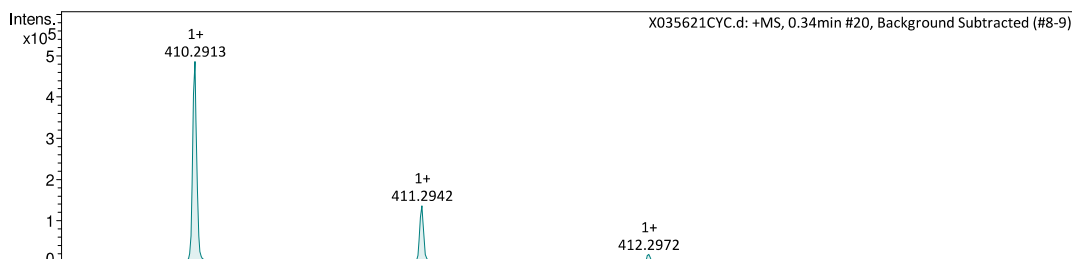
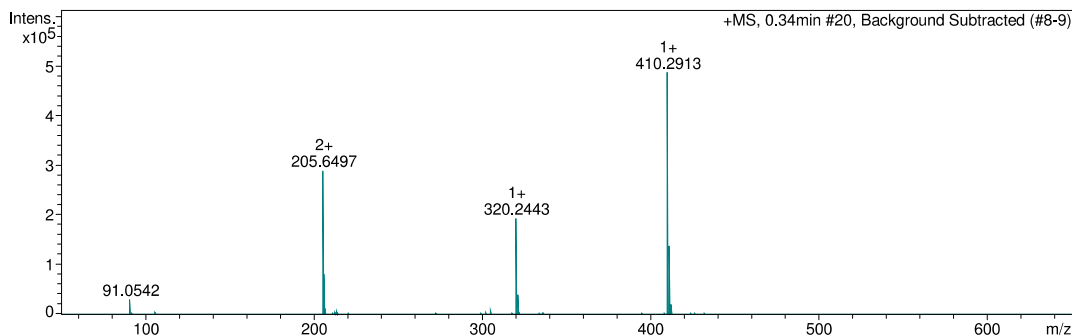
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Analysis Name X035621CYC.d

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Instrument / Ser# maXis 255552.00086
Method Positif.m

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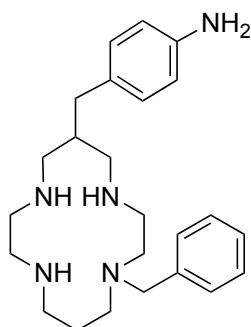
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Scan End 2500 m/z Set Collision Cell RF 1800.0 Vpp Set Dry Gas 7.0 l/min



Meas. m/z	z	#	Ion Formula	m/z	err [ppm]	mSigma	rdb	e ⁻ Conf
91.054195	2+	1	C14H14	91.054227	0.3	100.4	9.0	even
205.649673	2+	1	C24H37N5O	205.649357	-1.5	1.3	10.0	even
320.244312	1+	1	C17H30N5O	320.244487	0.5	3.3	6.0	even
410.291304	1+	1	C24H36N5O	410.291437	0.3	0.9	10.0	even

Figure S8: HRMS spectrum (ESI) of compound 3

Compound 4



Formula: $C_{24}H_{37}N_5$

Exact Mass: $395.305 \text{ g.mol}^{-1}$

Molecular Weight: $395.595 \text{ g.mol}^{-1}$

Description: *colorless oil*

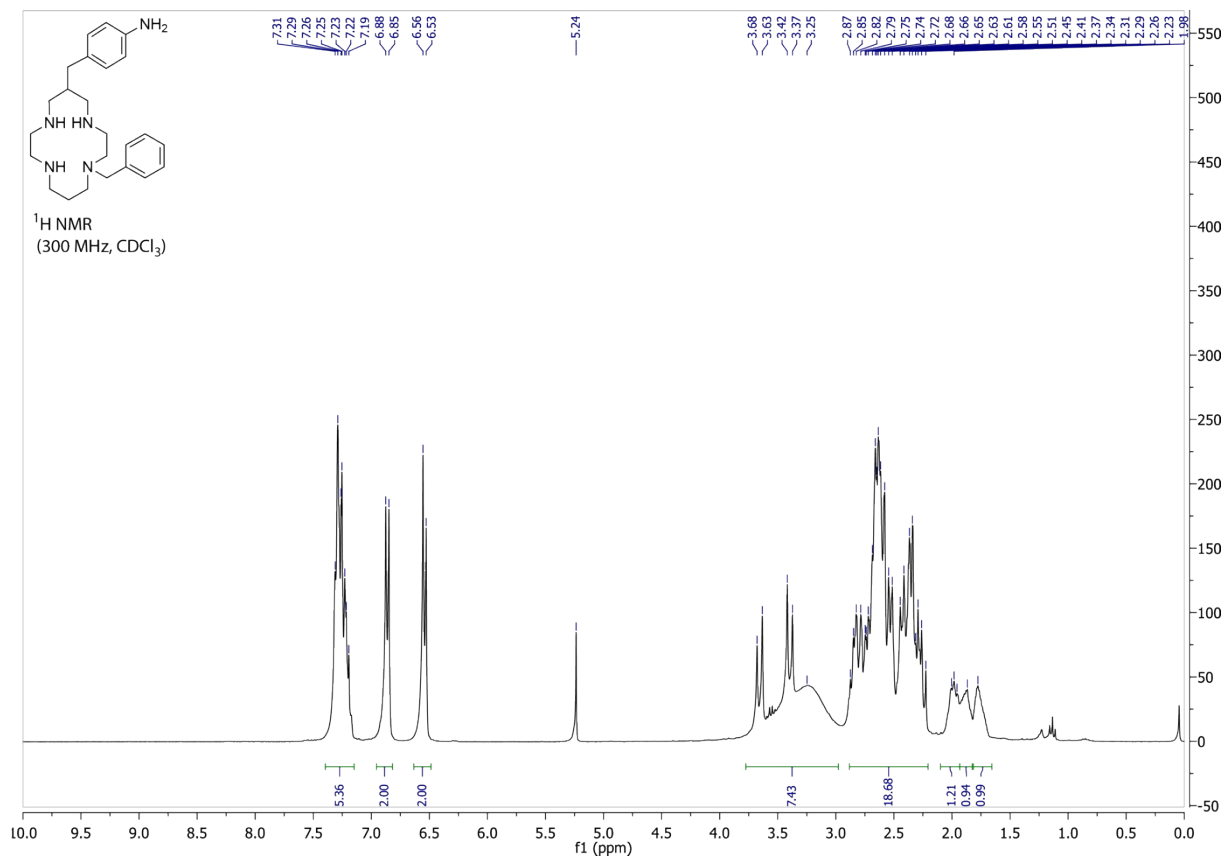


Figure S9: ¹H NMR spectrum (300 MHz, CDCl₃, 25°C) of compound 4

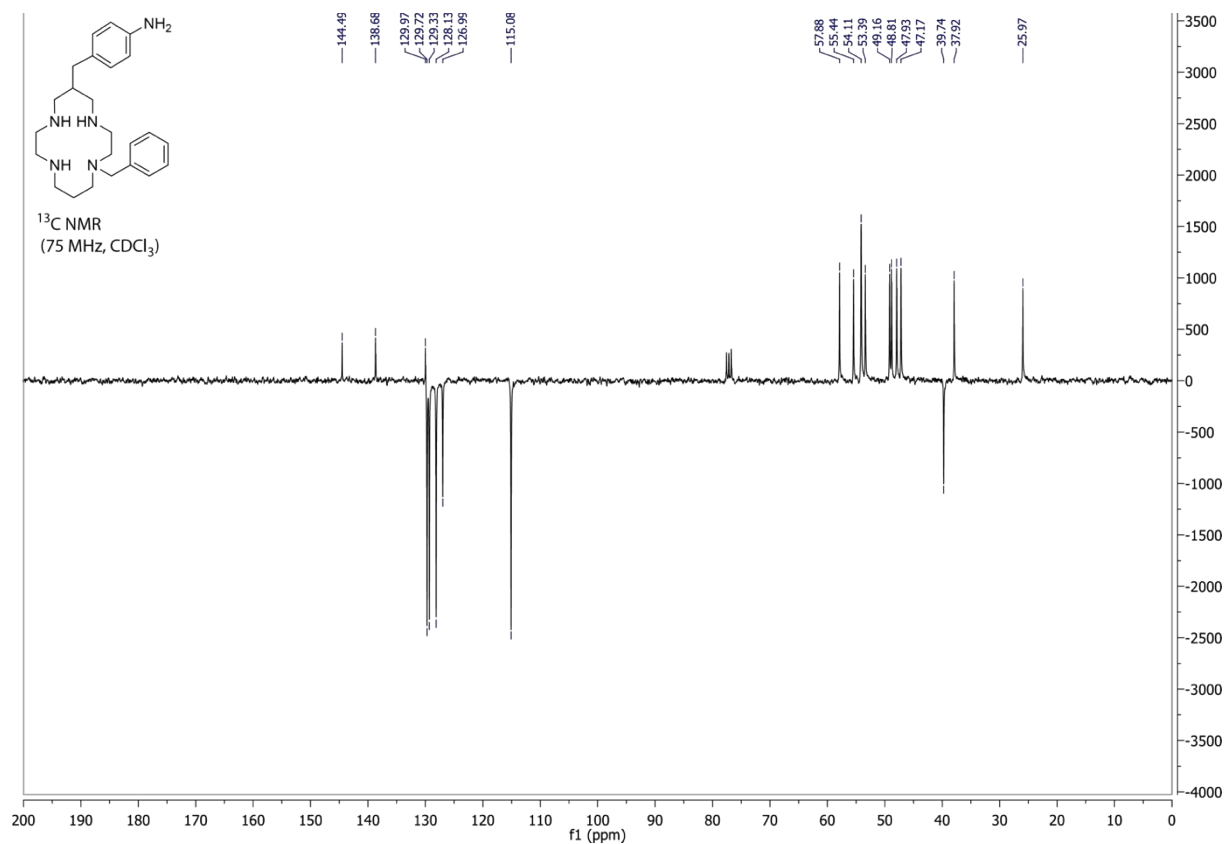


Figure S10: ¹³C NMR spectrum (75 MHz, CDCl₃, 25°C) of compound 4

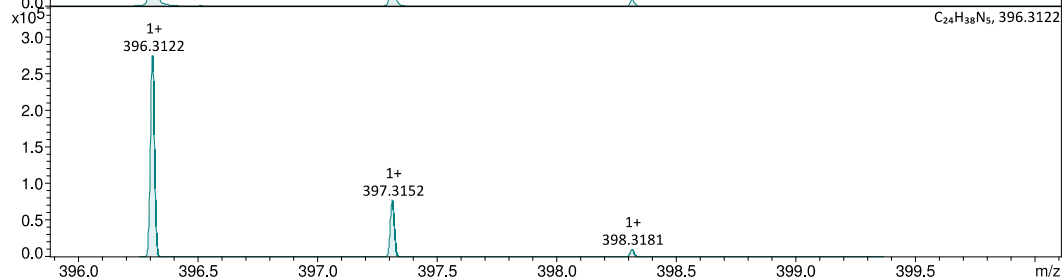
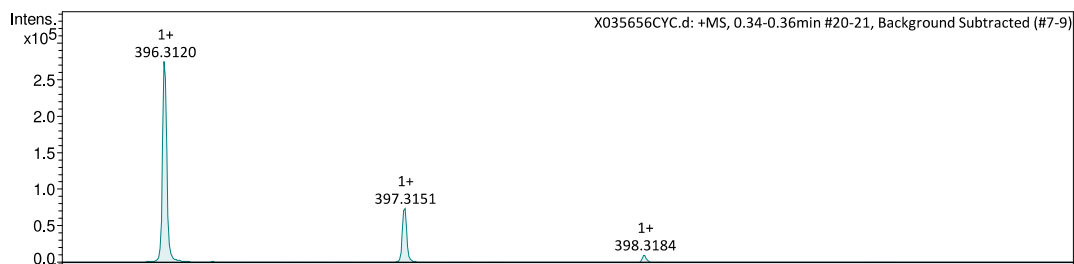
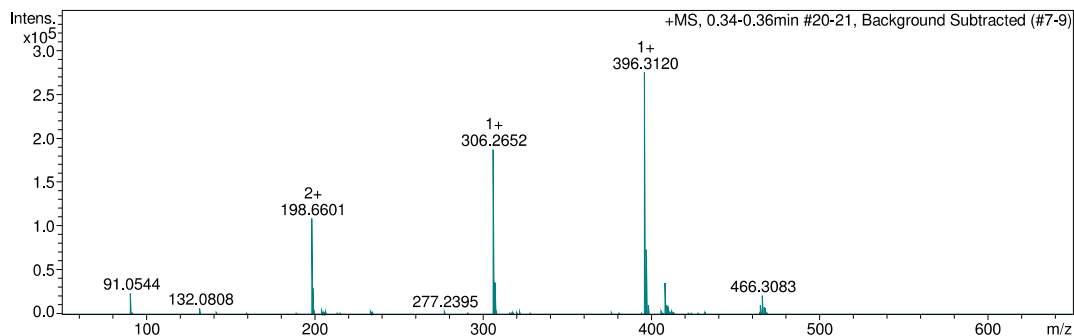
Analysis Info

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Analysis Name X035656CYC.d

Acquisition Date 11/07/2017 21:32:35
Instrument / Ser# maXis 255552.00086
Method Positif.m

Acquisition Parameter

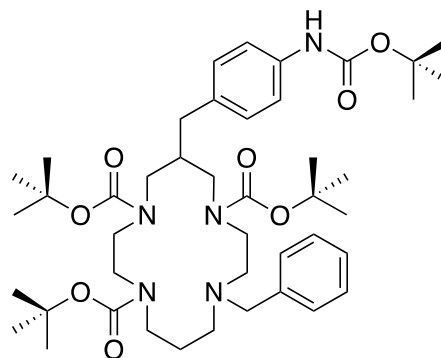
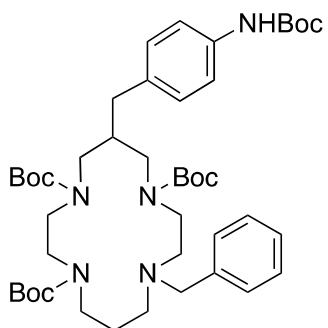
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Scan End 2500 m/z Set Collision Cell RF 1800.0 Vpp Set Dry Gas 7.0 l/min



Meas. m/z	z	#	Ion Formula	m/z	err [ppm]	mSigma	rdb	e ⁻ Conf
91.054432	1+	1	C7H7	91.054227	-2.3	8.5	5.0	even
198.660147	2+	1	C24H39N5	198.659725	-2.1	1.8	9.0	even
306.265189	1+	1	C17H32N5	306.265222	0.1	7.6	5.0	even
396.311986	1+	1	C24H38N5	396.312173	0.5	7.6	9.0	even
408.312162	1+	1	C25H38N5	408.312173	0.0	119.1	10.0	even

Figure S11: HRMS spectrum (ESI) of compound 4

Compound 5



Formula: $C_{44}H_{69}N_5O_8$

Exact Mass: $795.515 \text{ g.mol}^{-1}$

Molecular Weight: $796.063 \text{ g.mol}^{-1}$

Description: *yellowish oil*

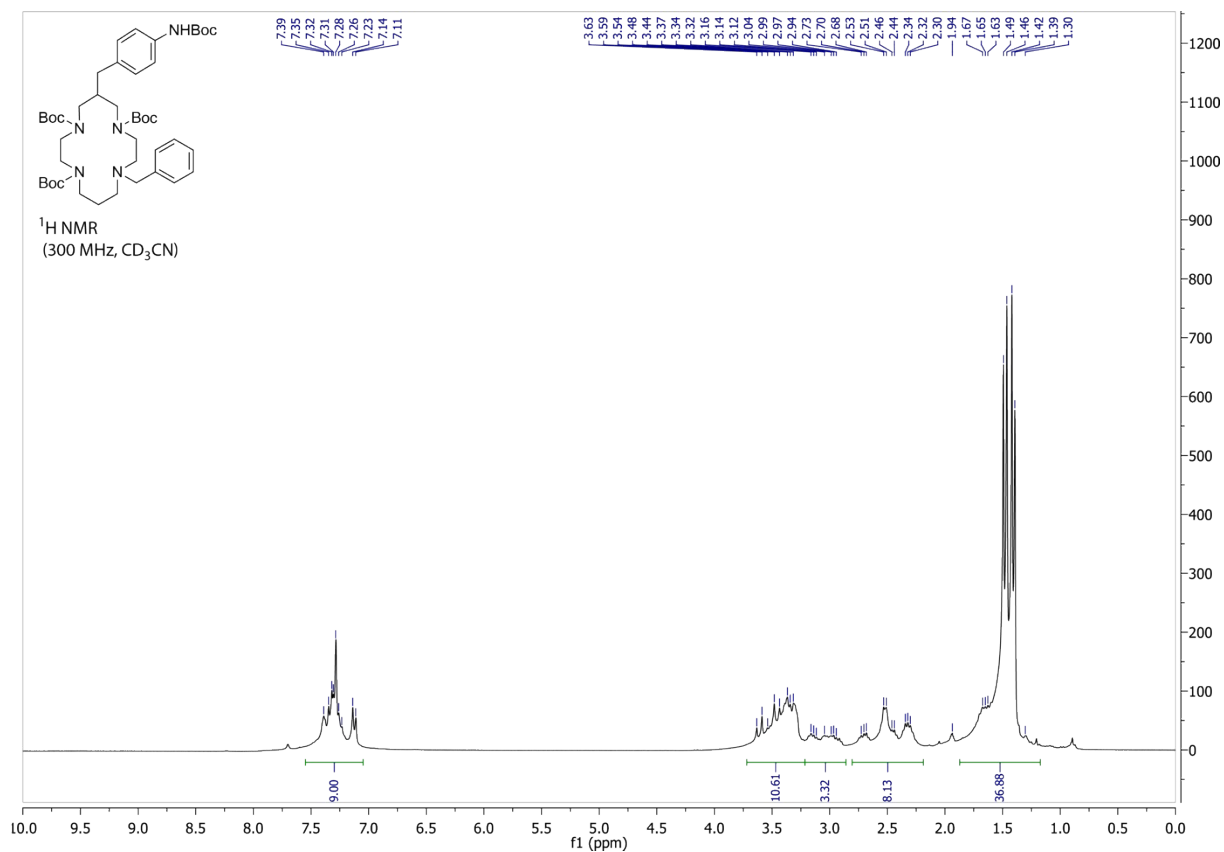


Figure S12: ¹H NMR spectrum (300 MHz, CD₃CN, 70°C) of compound 5

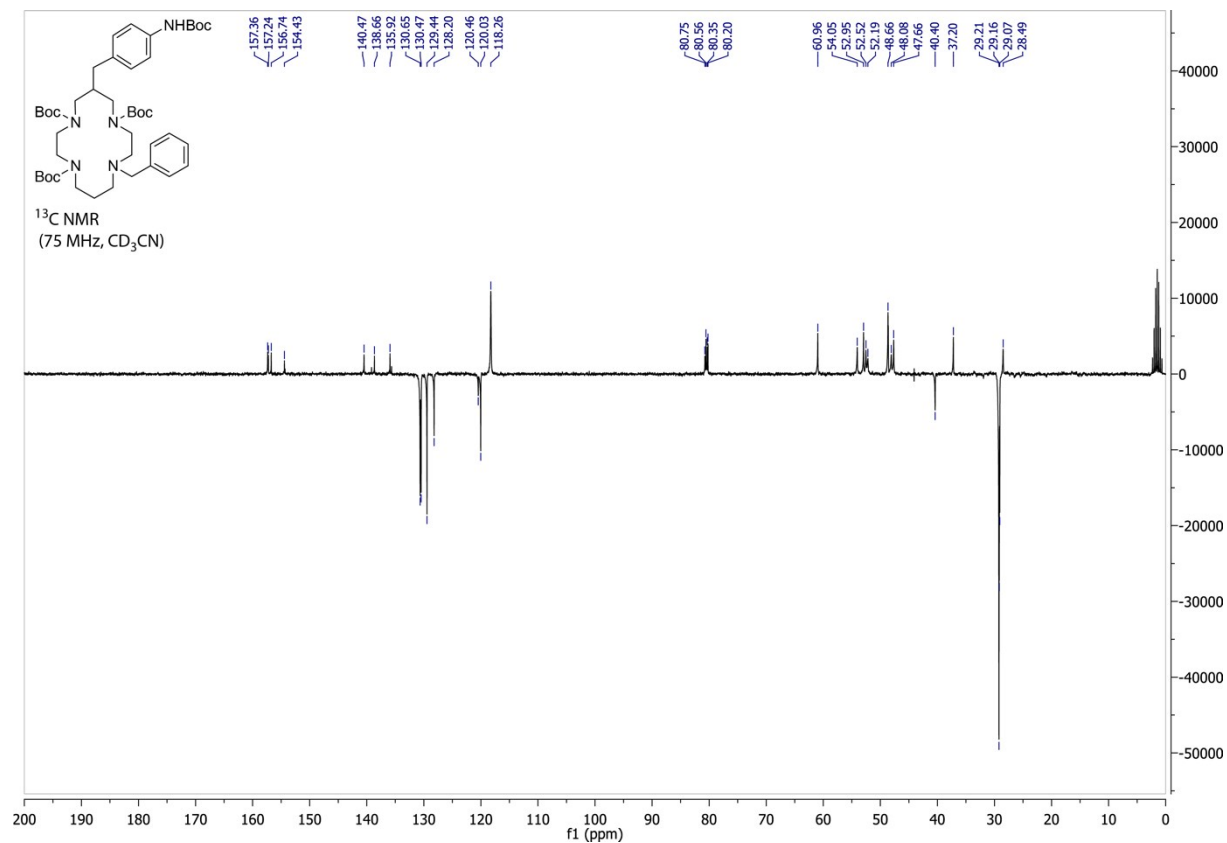


Figure S13: ¹³C NMR spectrum (75 MHz, CD₃CN, 70°C) of compound 5

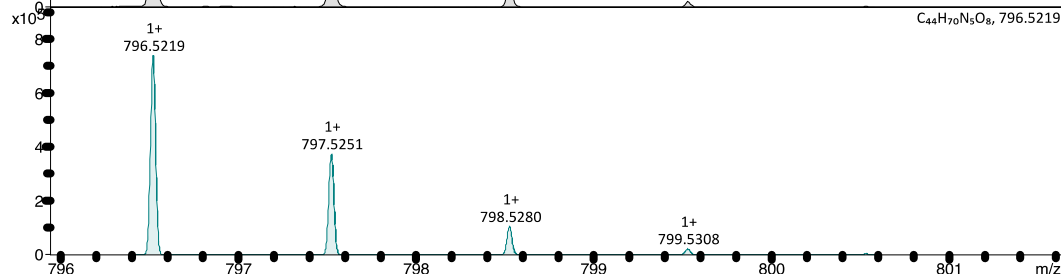
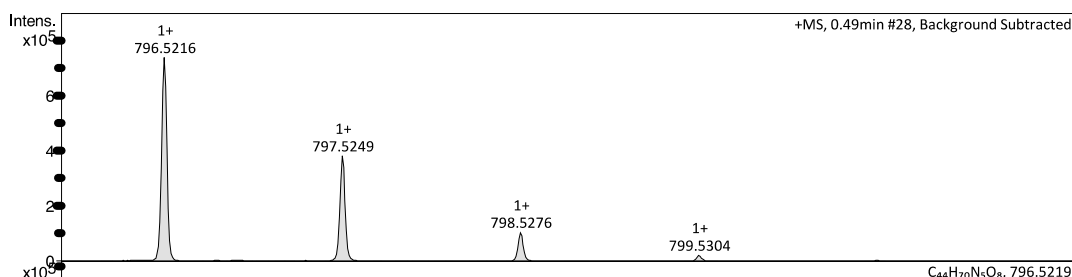
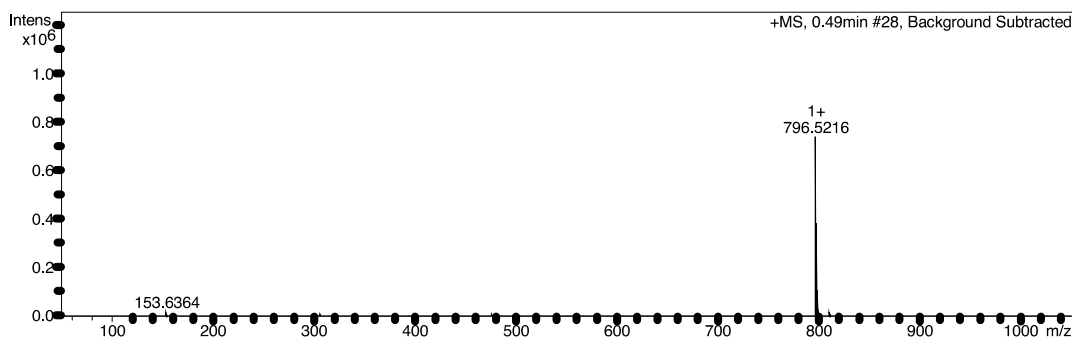
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Analysis Name X023259CYC.d

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Instrument / Ser# maXis 255552.00086
Method Positif.m

Acquisition Parameter

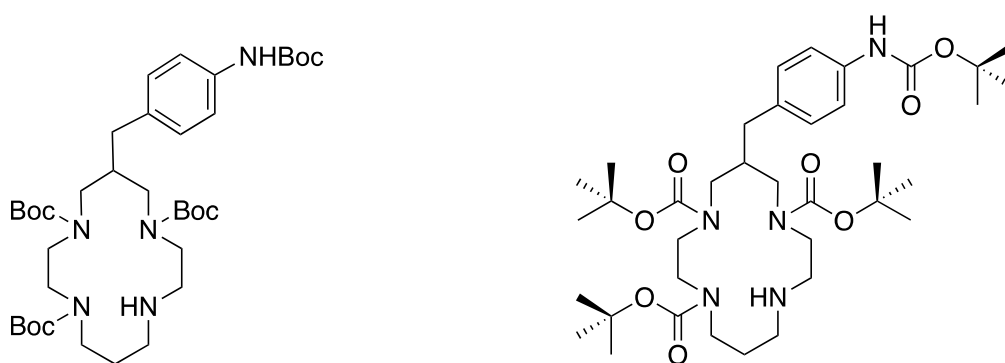
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Meas. m/z	z	#	Ion Formula	m/z	err [ppm]	mSigma	rdb	e ⁻	Conf
796.521627	1+	1	C ₄₄ H ₇₀ N ₅ O ₈	796.521891	-0.3	4.9	12.5	even	
	1+	2	C ₄₁ H ₆₂ N ₁₅ O ₂	796.520543	1.4	8.0	18.5	even	
	1+	3	C ₄₃ H ₇₄ N ₁₂	796.520553	1.3	15.4	7.5	even	
	1+	4	C ₅₆ H ₆₆ N ₃ O	796.520040	2.0	54.3	25.5	even	

Figure S14: HRMS spectrum (ESI) of compound 5

Compound 6



Formula: $C_{37}H_{63}N_5O_8$

Exact Mass: $705.468 \text{ g.mol}^{-1}$

Molecular Weight: $705.938 \text{ g.mol}^{-1}$

Description: *Yellowish oil*

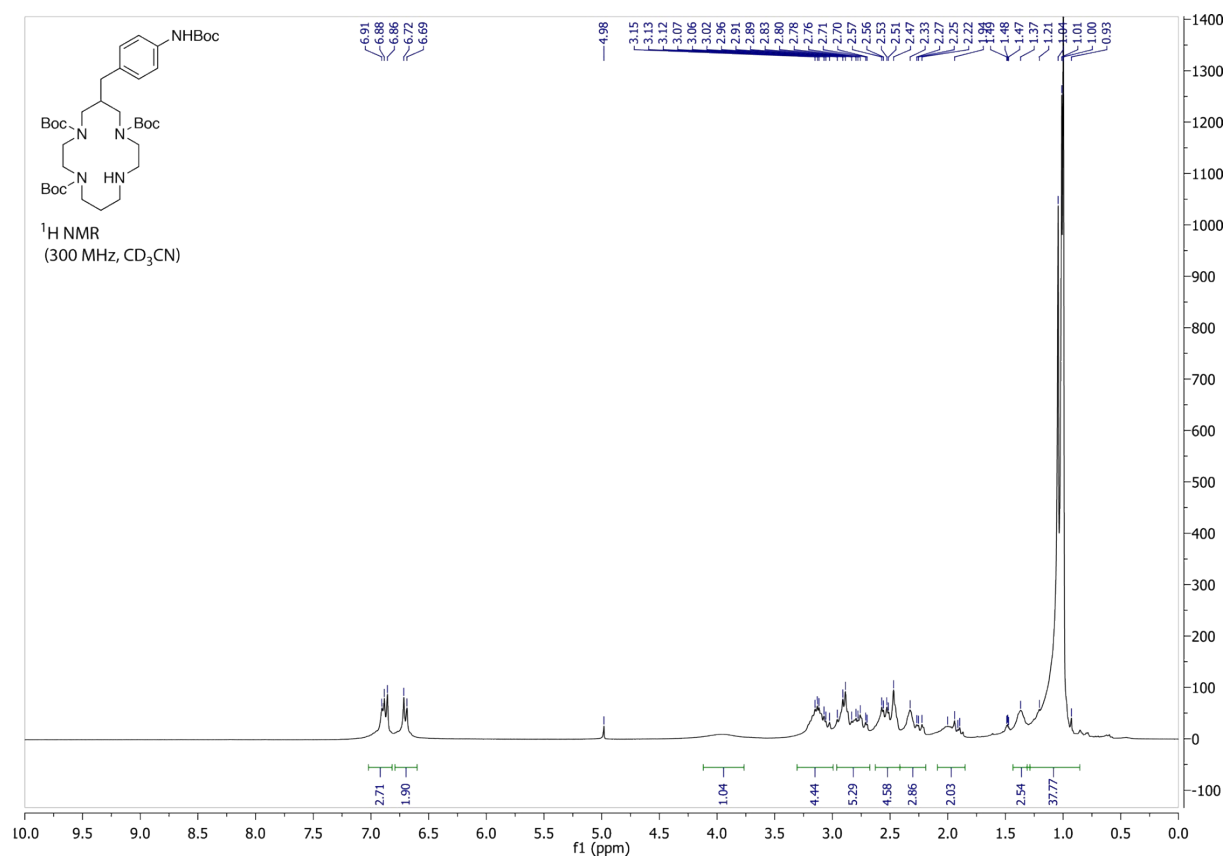


Figure S15: ¹H NMR spectrum (300 MHz, CD₃CN, 70°C) of compound 6

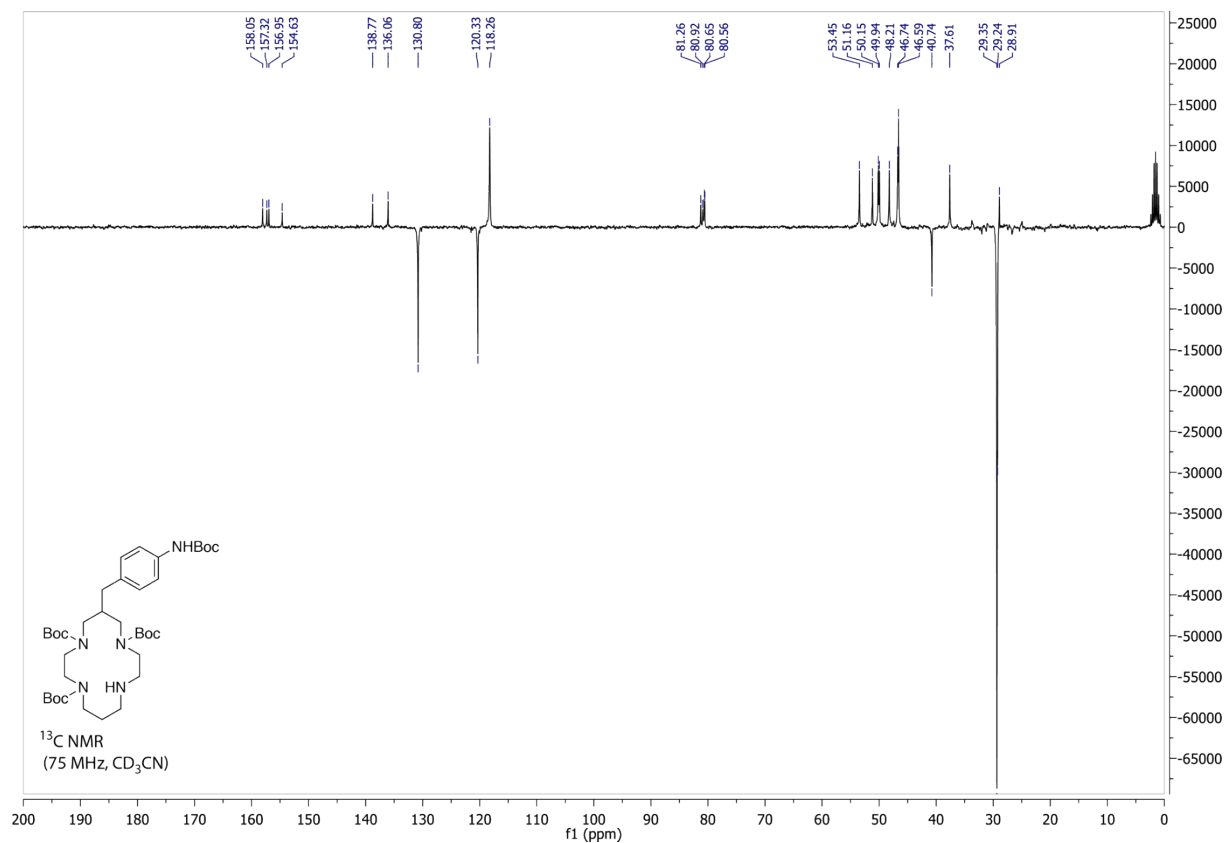


Figure S16: ¹³C NMR spectrum (75 MHz, CD₃CN, 70°C) of compound 6

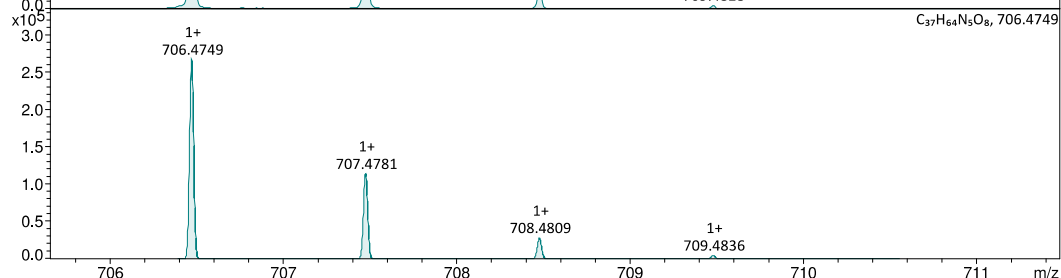
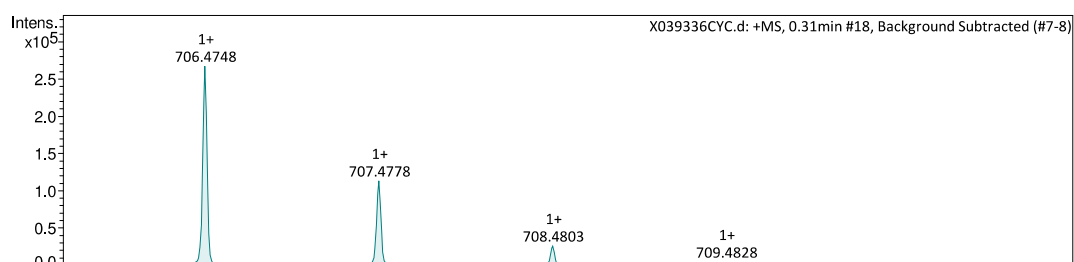
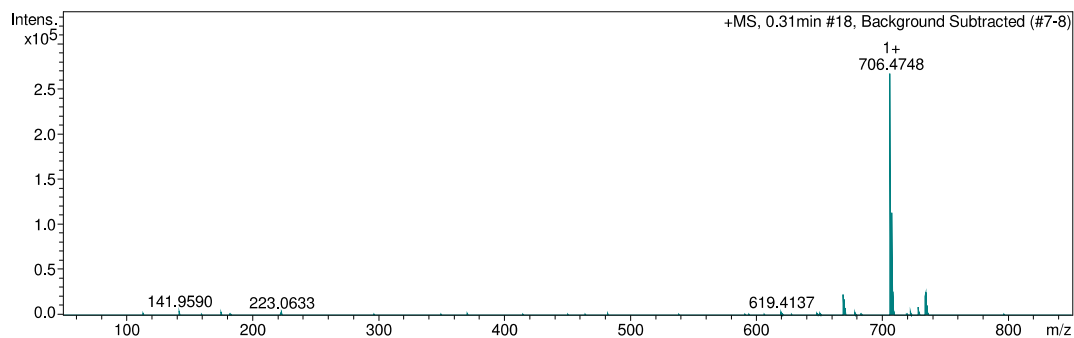
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Analysis Name X039336CYC.d

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Instrument / Ser# maXis 255552.00086
Method Positif.m

Acquisition Parameter

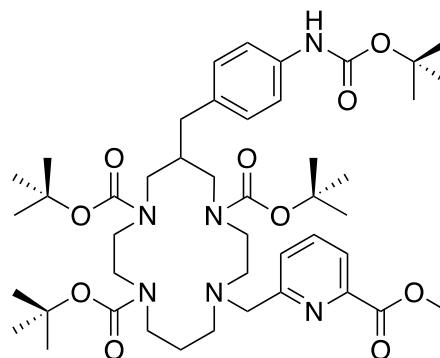
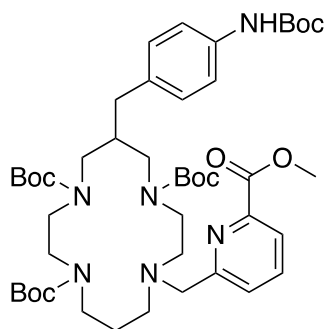
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706.474841	1+	1	C37H64N5O8	706.474940	0.1	3.9	9.0	even
	1+	2	C36H68NO12	706.473603	-1.8	10.2	4.0	even
728.456732	1+	1	C36H67NNaO12	728.455547	-1.6	11.8	4.0	even
	1+	2	C37H63N5NaO8	728.456885	0.2	19.2	9.0	even

Figure S17: HMRS spectrum (ESI) of compound 6

Compound 7



Formula: $C_{45}H_{70}N_6O_{10}$

Exact Mass: $854.515 \text{ g.mol}^{-1}$

Molecular Weight: $855.087 \text{ g.mol}^{-1}$

Description: *Colorless oil*

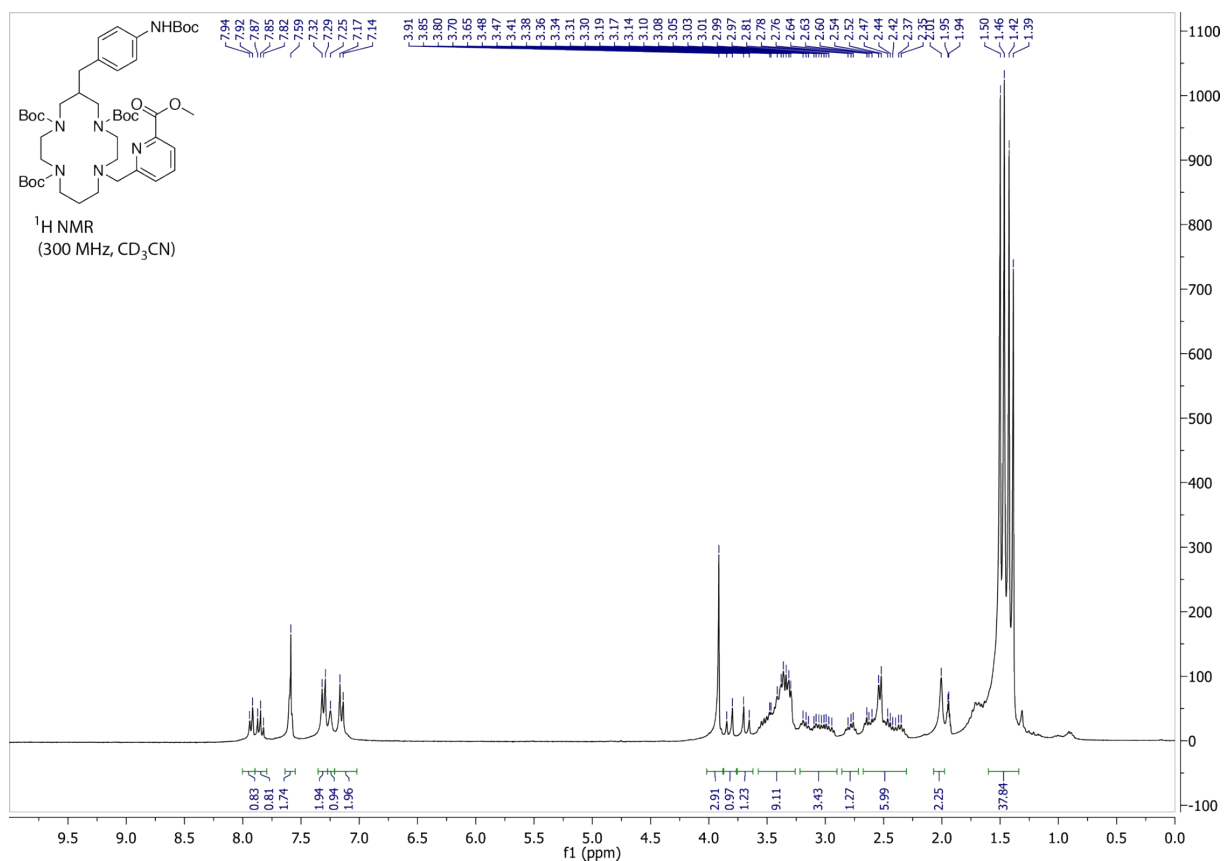


Figure S18: ¹H NMR spectrum (300 MHz, CD₃CN, 70°C) of compound 7

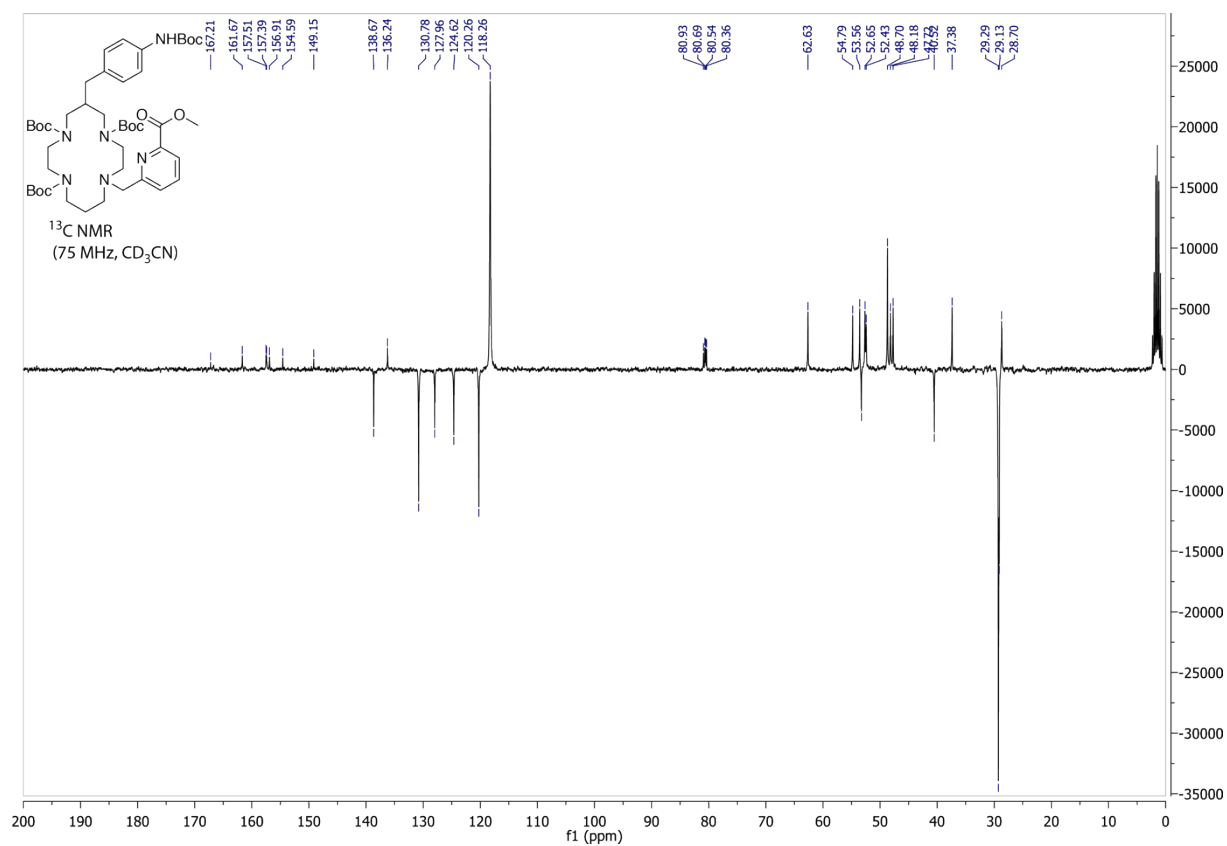


Figure S19: ¹³C NMR spectrum (75 MHz, CD₃CN, 70°C) of compound 7

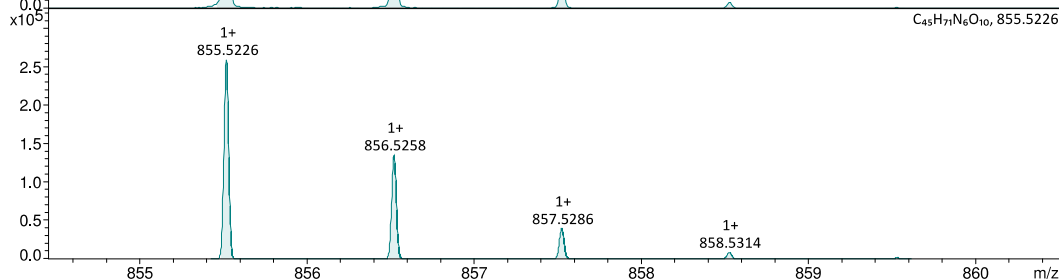
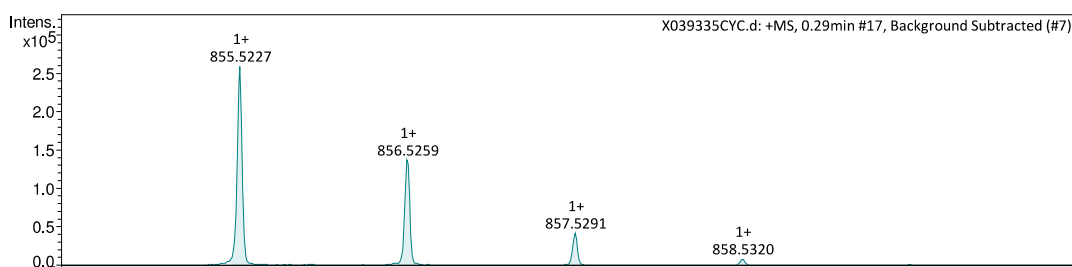
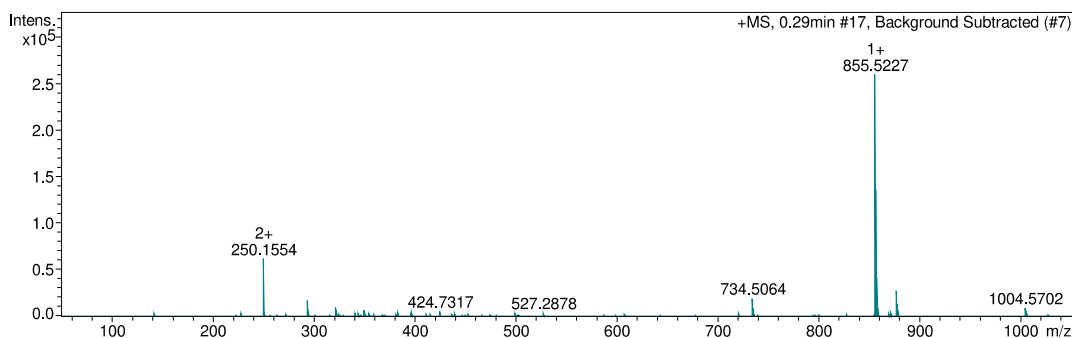
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Analysis Name X039335CYC.d

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Method Positif.m

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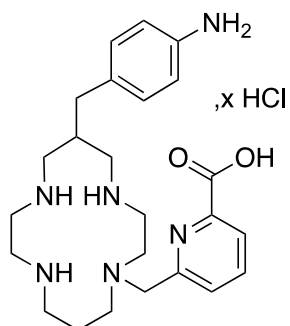
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Meas. m/z	z	#	Ion Formula	m/z	err [ppm]	mSigma	rdb	e ⁻ Conf
250.155387	2+	1	C ₂₆ H ₄₀ N ₆ O ₄	250.155003	-1.5	3.6	11.0	even
294.145195	2+	1	C ₂₈ H ₄₀ N ₆ O ₈	294.144833	-1.2	8.3	13.0	even
720.490821	1+	1	C ₃₈ H ₆₆ N ₅ O ₈	720.490591	-0.3	60.3	9.0	even
734.506405	1+	1	C ₃₉ H ₆₈ N ₅ O ₈	734.506241	-0.2	12.0	9.0	even
	1+	2	C ₃₈ H ₇₂ N ₅ O ₁₂	734.504903	-2.0	14.9	4.0	even
855.522679	1+	1	C ₄₅ H ₇₁ N ₆ O ₁₀	855.522619	-0.1	5.6	14.0	even
877.504944	1+	1	C ₄₅ H ₇₀ N ₆ NaO ₁₀	877.504563	-0.4	20.2	14.0	even

Figure S20: HRMS spectrum (ESI) of compound 7

Compound 8 : *p*-NH₂-Bn-te1pa



Formula: $C_{24}H_{36}N_6O_2 \cdot xHCl$

Exact Mass: $440.290 \text{ g.mol}^{-1}$

Molecular Weight: $440.592 \text{ g.mol}^{-1}$

Description: *Colorless oil*

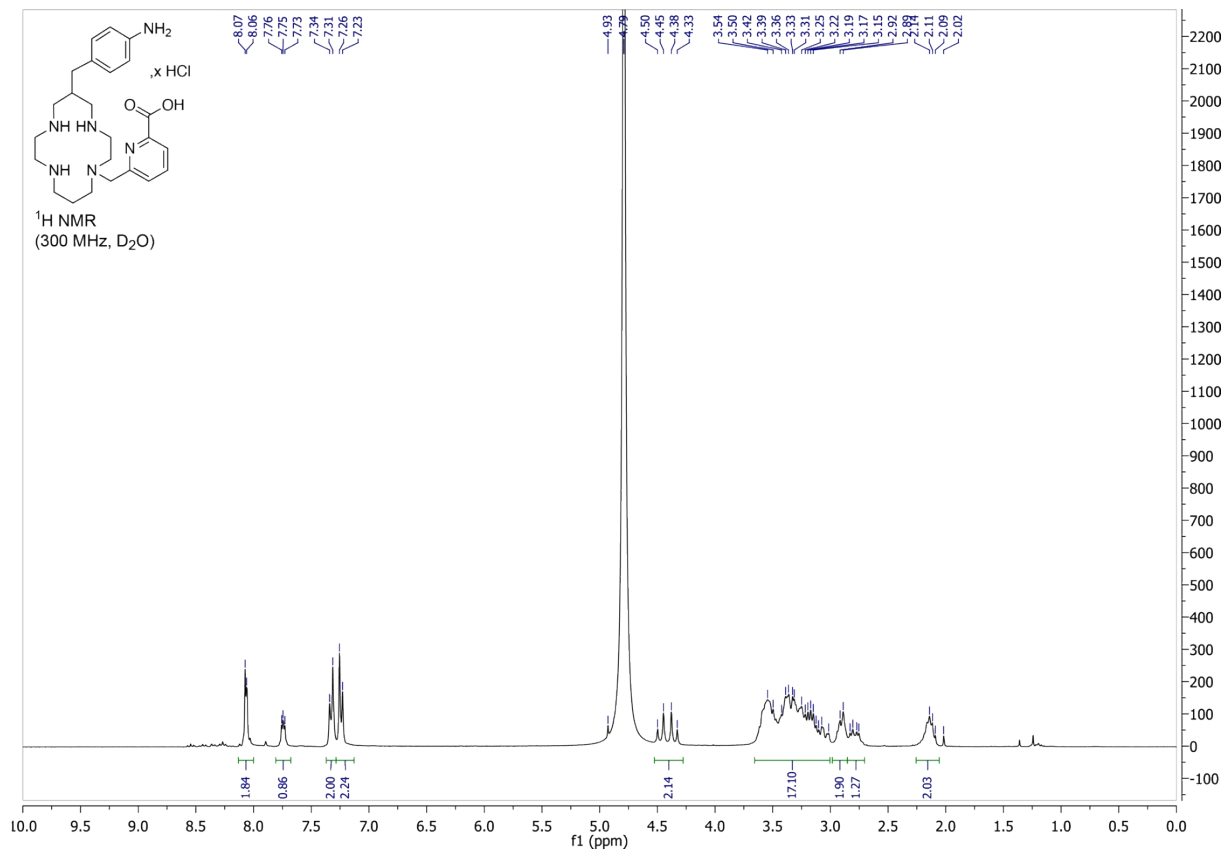


Figure S21: ¹H NMR spectrum (300 MHz, D₂O, 25°C) of compound 8

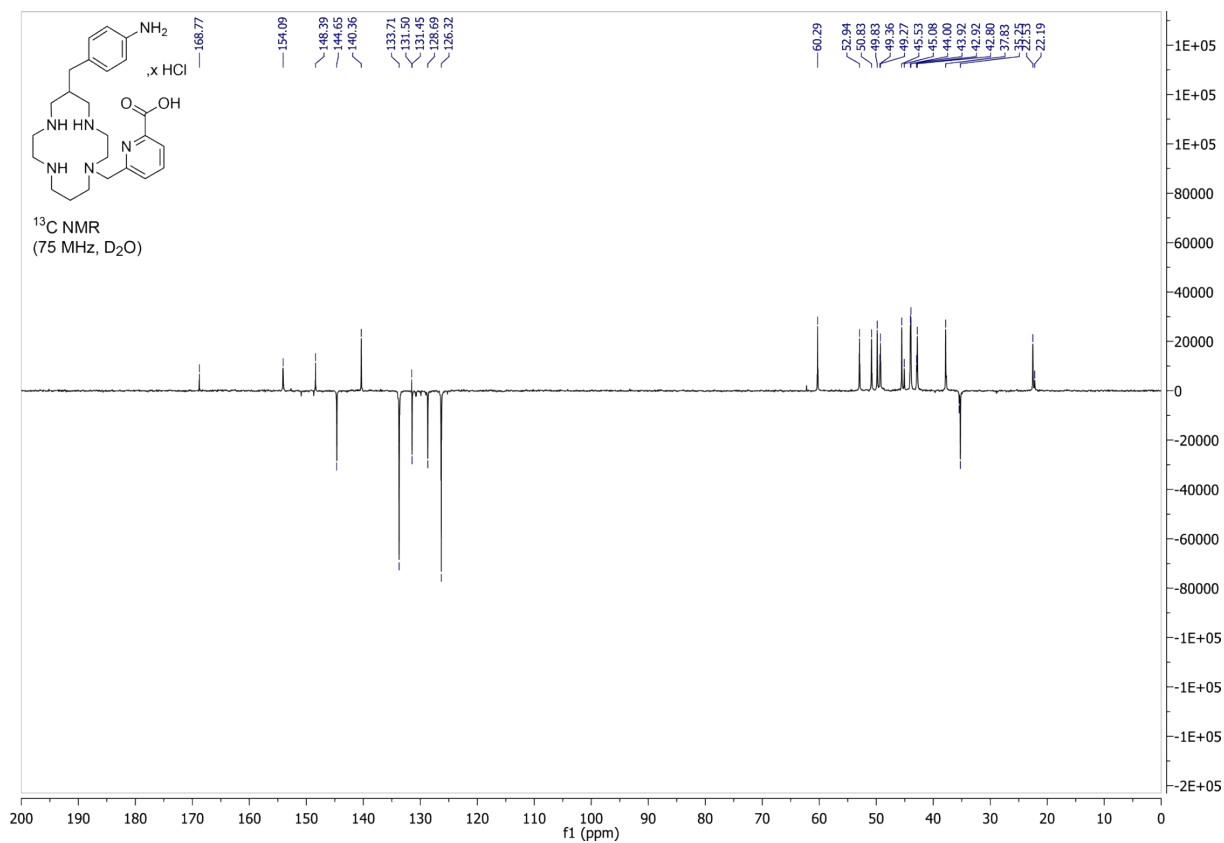


Figure S22: ¹³C NMR spectrum (75 MHz, D₂O, 25°C) of compound 8

HRMS *p*-SCN-Bn-TE1PA



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Plate-forme de Spectrométrie de Masse Haute Résolution

HRAM

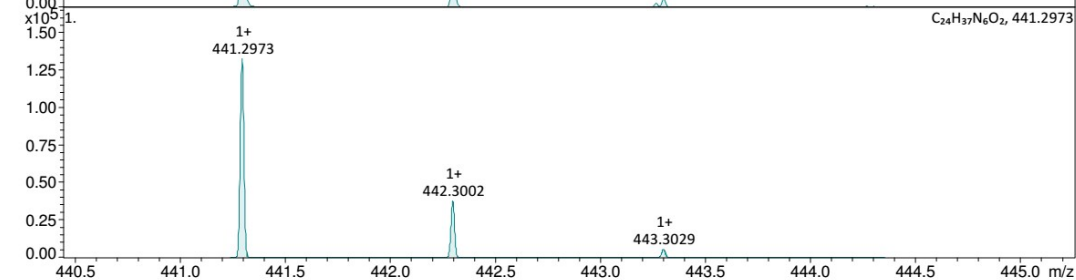
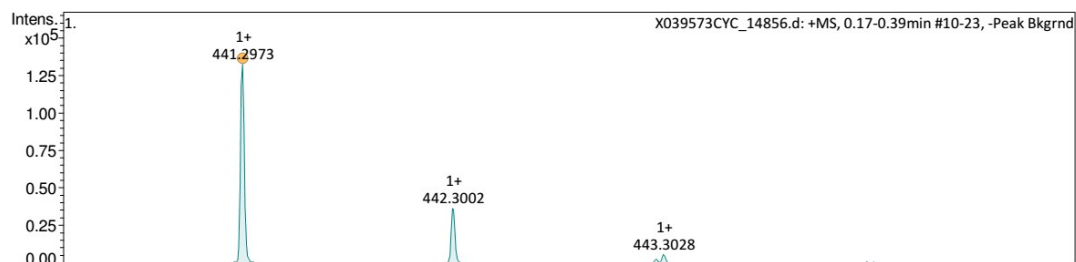
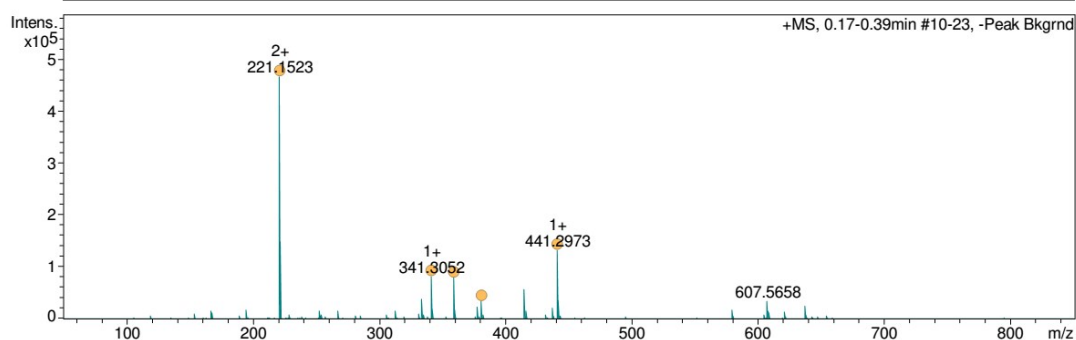
Analysis Info

Sample Name **te1pa-BnNH2**
Analysis Name X039573Cyc_14856.d

Acquisition Date 24/01/2018 23:15:21
Instrument / Ser# maXis 255552.00086
Method Positif.m

Acquisition Parameter

Source Type ESI Ion Polarity Positive Set Nebulizer 0.6 Bar
Scan Begin 50 m/z Set Capillary 4500 V Set Dry Heater 200 °C
Scan End 2500 m/z Set Collision Cell RF 1800.0 Vpp Set Dry Gas 7.0 l/min



Meas. m/z	z	#	Ion Formula	m/z	err [ppm]	mSigma	rdb	e ⁻	Conf
221.152332	2+	1	C24H38N6O2	221.152264	-0.3	18.5	10.0	even	
341.305177	1+	1	C21H41O3	341.305022	-0.5	6.2	2.0	even	
359.315873	1+	1	C21H43O4	359.315586	-0.8	7.1	1.0	even	
381.297574	1+	1	C21H42NaO4	381.297531	-0.1	1.6	1.0	even	
441.297274	1+	1	C24H37N6O2	441.297251	-0.1	5.6	10.0	even	

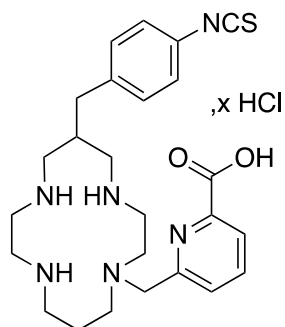
Institut de Chimie Organique et Analytique
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printed: 26/01/2018 20:48:01
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Figure S23: HRMS spectrum (ESI) of compound 9

Compound 9 : *p*-SCN-Bn-te1pa



Formula: $C_{25}H_{34}N_6O_2S \cdot xHCl$

Exact Mass: $482.246 \text{ g.mol}^{-1}$

Molecular Weight: $482.647 \text{ g.mol}^{-1}$

Description: *Colorless oil*

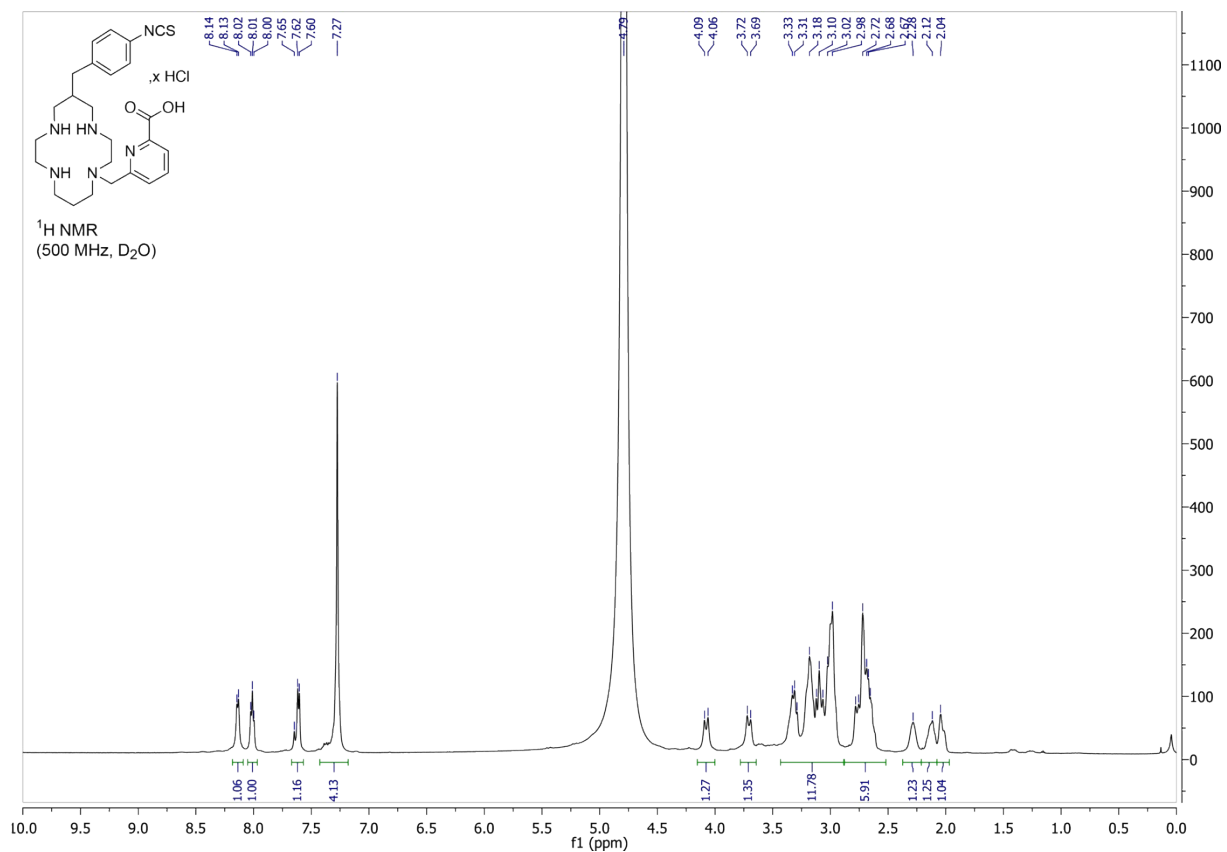


Figure S24: ¹H NMR spectrum (500 MHz, D₂O, 25°C) of compound **9**

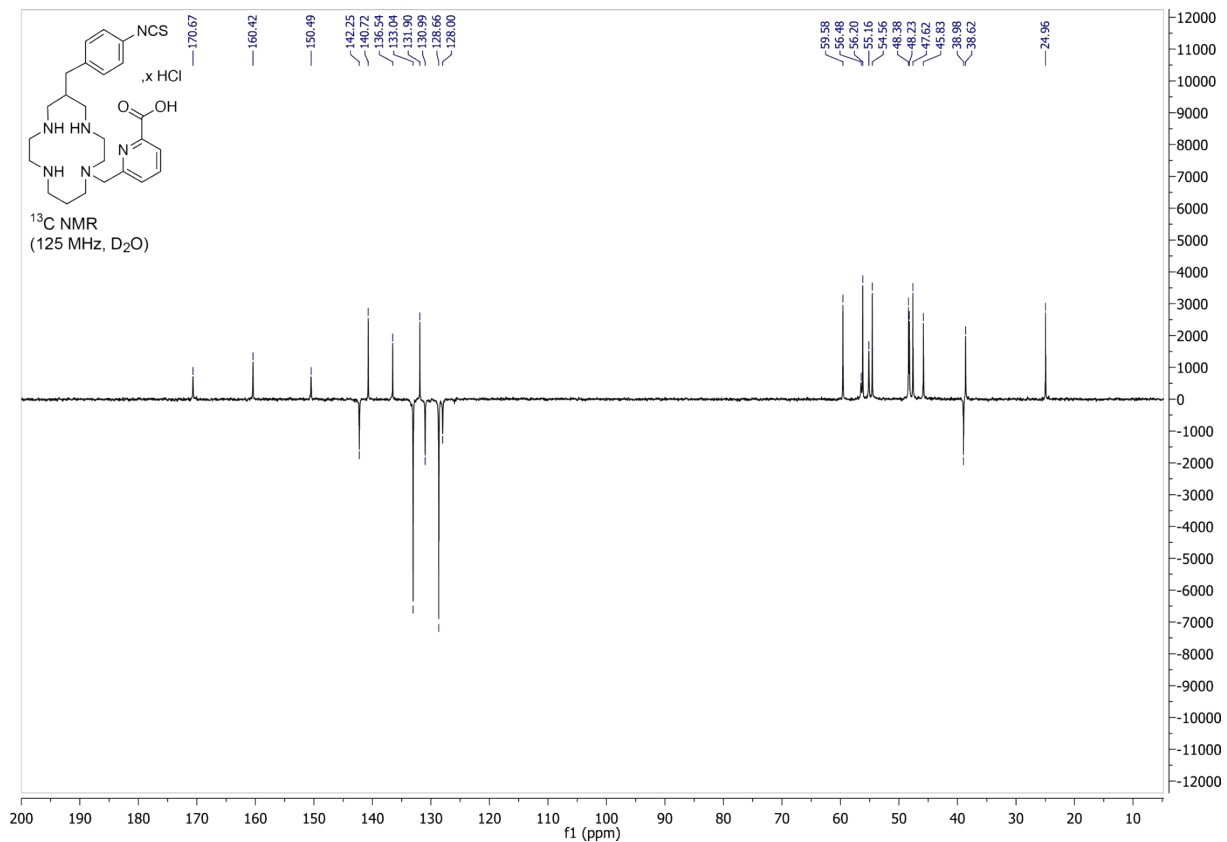


Figure S25: ¹³C NMR spectrum (125 MHz, D₂O, 25°C) of compound **9**

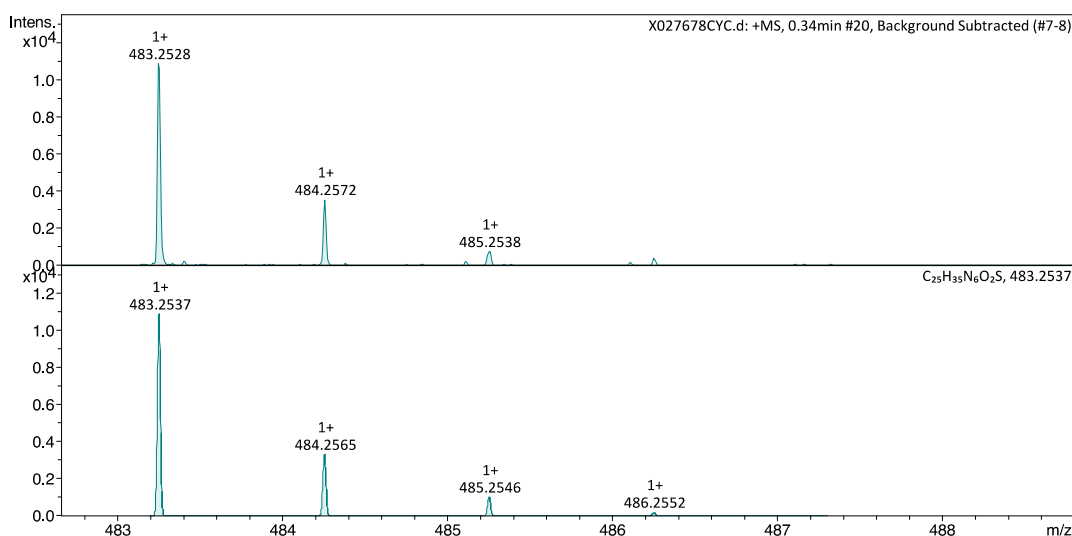
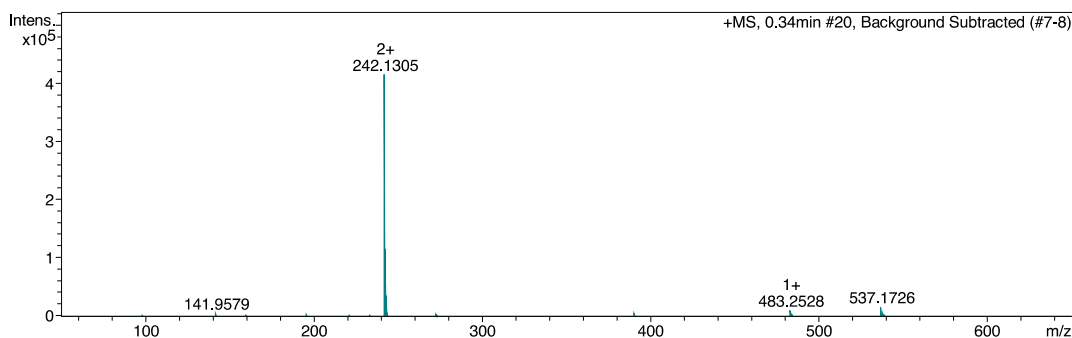
Analysis Info

Sample Name **TLB147**
Analysis Name X027678CYC.d

Acquisition Date 29/06/2016 14:38:51
Instrument / Ser# maXis 255552.00086
Method Positif.m

Acquisition Parameter

Source Type ESI Ion Polarity Positive Set Nebulizer 0.6 Bar
Scan Begin 50 m/z Set Capillary 4500 V Set Dry Heater 200 °C
Scan End 2500 m/z Set Collision Cell RF 1800.0 Vpp Set Dry Gas 7.0 l/min



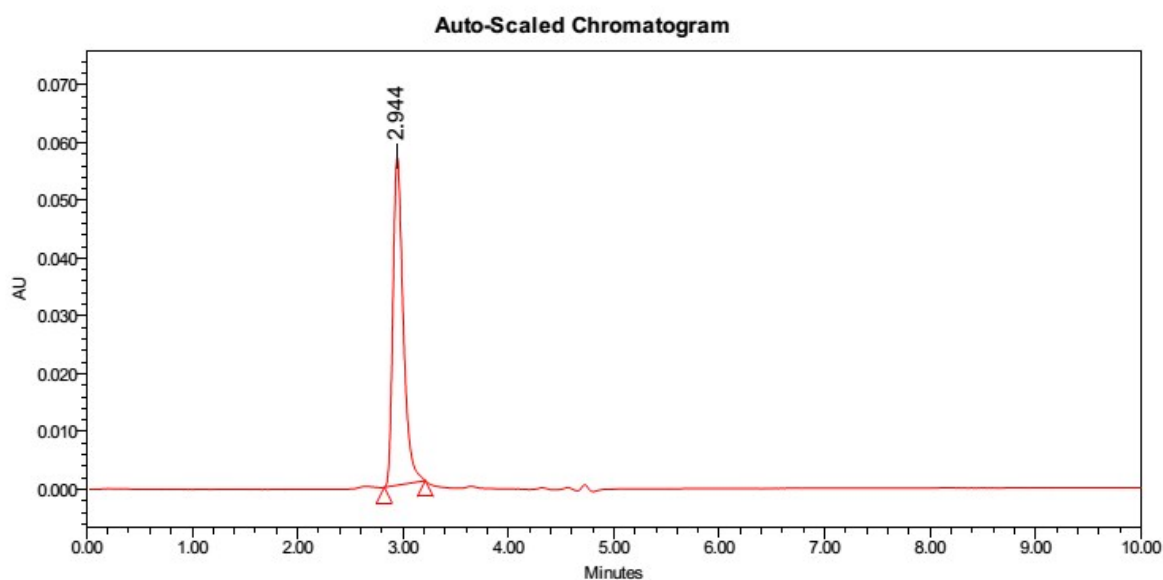
Meas. m/z	z	#	Ion Formula	m/z	err [ppm]	mSigma	rdb	e ⁻ Conf
242.130539	2+	1	C ₂₅ H ₃₆ N ₆ O ₂ S	242.130474	-0.3	14.2	12.0	even
483.252841	1+	1	C ₂₅ H ₃₅ N ₆ O ₂ S	483.253672	1.7	19.6	12.0	even
	1+	2	C ₂₄ H ₃₉ N ₂ O ₆ S	483.252334	-1.0	28.4	7.0	even
537.172577	1+	1	C ₂₅ H ₃₃ FeN ₆ O ₂ S	537.172959	0.8	13.8	13.0	even
	1+	2	C ₂₄ H ₃₇ FeN ₂ O ₆ S	537.171622	-1.7	20.3	8.0	even

Figure S26: HRMS spectrum (ESI) of compound 9

Table S1: Bioconjugation rates and immunoreactivity obtained with *p*-Bn-SCN-DOTA with 9E7.4

	Chelates / mAb	Immunoreactivity (%)
Exp 1	2.5	42.3 ± 3.1
Exp 2	2	39.3 ± 0.5
Exp 3	1	68.9 ± 0.3
Exp 4	1	69.9 ± 0.3
Exp 5	2	53.2 ± 0.7

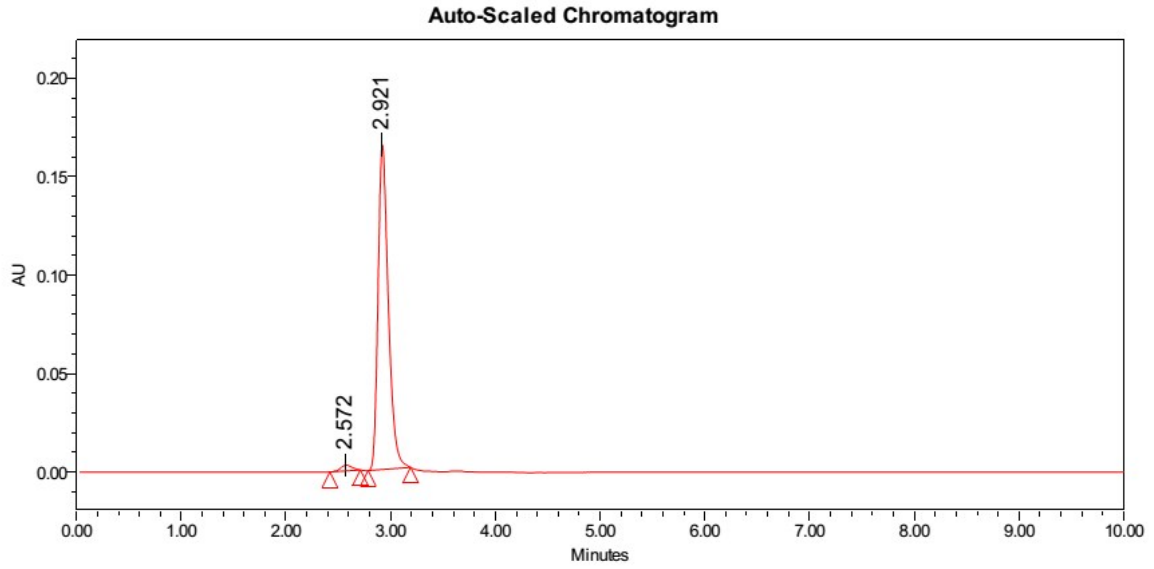
SAMPLE INFORMATION			
Sample Name:	20180125 ctrl IgG9E7 lot180917	Acquired By:	Empower
Sample Type:	Unknown	Sample Set Name:	20180125 ctrl IgG colBEH3ss pc
Vial:	1:A,1	Acq. Method Set:	mAb
Injection #:	1	Processing Method:	pm
Injection Volume:	10.00 ul	Channel Name:	PDA Ch1 280nm@4.8nm
Run Time:	10.0 Minutes	Proc. Chnl. Descr.:	PDA Ch1 280nm@4.8nm
Date Acquired:	25/Jan/2018 16:06:44 CET		
Date Processed:	25/Jan/2018 17:04:41 CET		



Peak Results				
	Name	RT	Area	% Area
1		2.944	386630	100.00

Figure S27: UPLC profile of unmodified mAb 9E7.4

SAMPLE INFORMATION			
Sample Name:	20180125 ctrl IgG9E7NOTA	Acquired By:	Empower
Sample Type:	Unknown	Sample Set Name:	20180125 ctrl colBEH3 ss preco
Vial:	1:A,1	Acq. Method Set:	mAb
Injection #:	1	Processing Method:	pm
Injection Volume:	5.00 ul	Channel Name:	PDA Ch1 280nm@4.8nm
Run Time:	10.0 Minutes	Proc. Chnl. Descr.:	PDA Ch1 280nm@4.8nm
Date Acquired:	25/Jan/2018 15:20:12 CET		
Date Processed:	25/Jan/2018 16:08:52 CET		



Peak Results

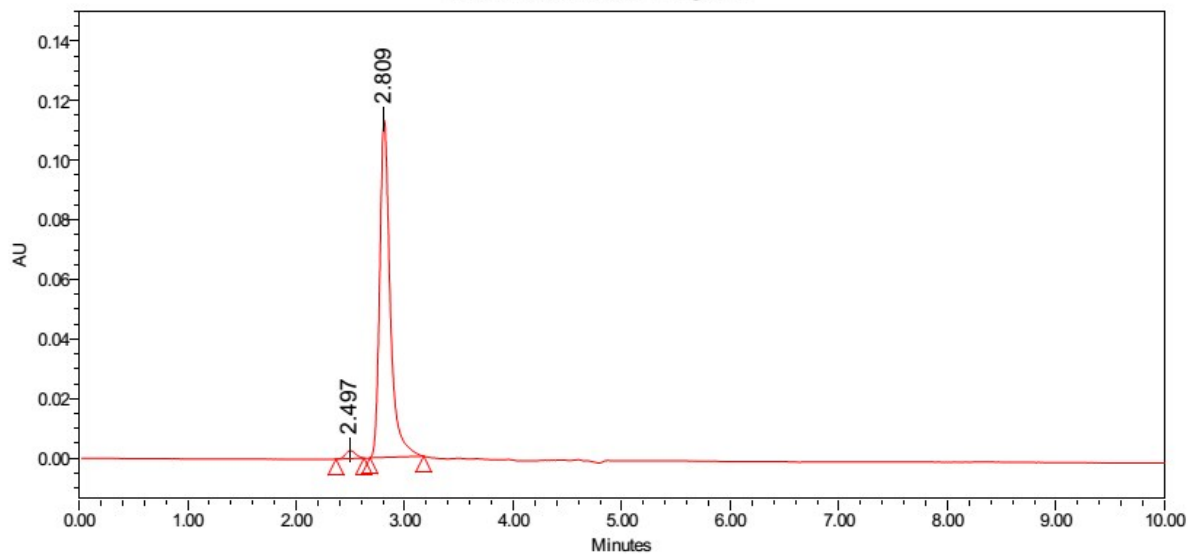
Name	RT	Area	% Area
1	2.572	22014	1.92
2	2.921	1124214	98.08

Figure S28: UPLC profile of 9E7.4-*p*-SCN-Bn-NOTA

SAMPLE INFORMATION

Sample Name:	20170217 ctrl IgG9E7-DOTA	Acquired By:	Empower
Sample Type:	Unknown	Sample Set Name:	20170217 ctrl mAb couple ASN
Vial:	1:A,1	Acq. Method Set:	mAb
Injection #:	1	Processing Method:	pm
Injection Volume:	5.00 ul	Channel Name:	PDA Ch1 280nm@4.8nm
Run Time:	10.0 Minutes	Proc. Chnl. Descr.:	PDA Ch1 280nm@4.8nm
Date Acquired:	17/Feb/2017 15:38:35 CET		
Date Processed:	20/Jun/2017 17:38:16 CEST		

Auto-Scaled Chromatogram



Peak Results

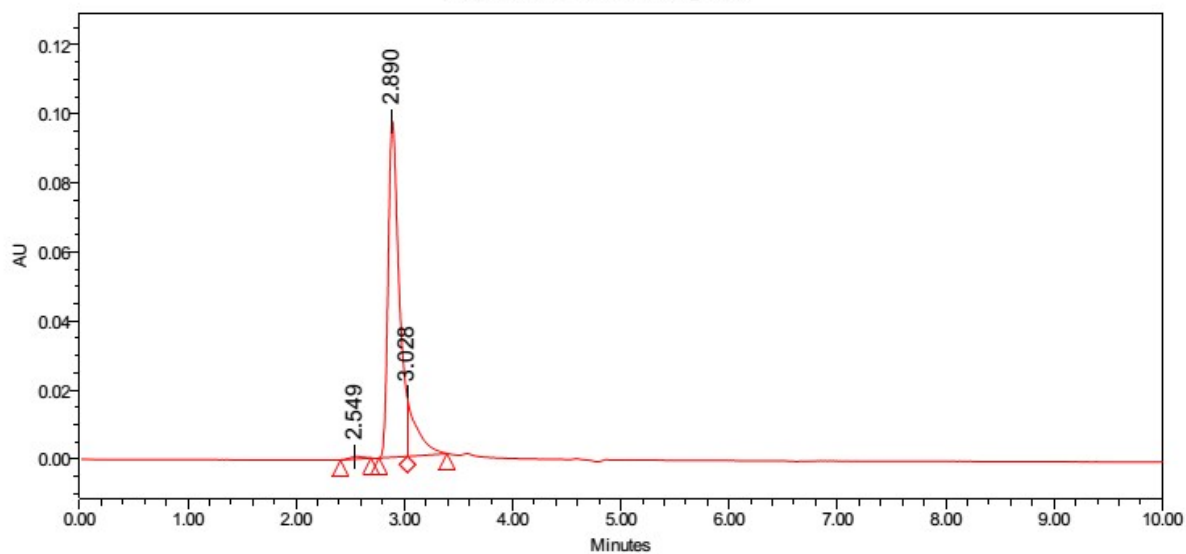
Name	RT	Area	% Area
1	2.497	17436	2.24
2	2.809	760578	97.76

Figure S29: UPLC profile of 9E7.4-*p*-SCN-Bn-DOTA

SAMPLE INFORMATION

Sample Name:	20170217 ctrl IgG9E7-HTE1PA	Acquired By:	Empower
Sample Type:	Unknown	Sample Set Name:	20170217 ctrl mAb couple ASN
Vial:	1:A,2	Acq. Method Set:	mAb
Injection #:	1	Processing Method:	pm
Injection Volume:	5.00 ul	Channel Name:	PDA Ch1 280nm@4.8nm
Run Time:	10.0 Minutes	Proc. Chnl. Descr.:	PDA Ch1 280nm@4.8nm
Date Acquired: 17/Feb/2017 15:49:16 CET			
Date Processed: 20/Jun/2017 17:38:44 CEST			

Auto-Scaled Chromatogram



Peak Results

Name	RT	Area	% Area
1	2.549	5868	0.74
2	2.890	676559	85.87
3	3.028	105421	13.38

Figure S30: UPLC profile of 9E7.4-*p*-SCN-Bn-TE1PA