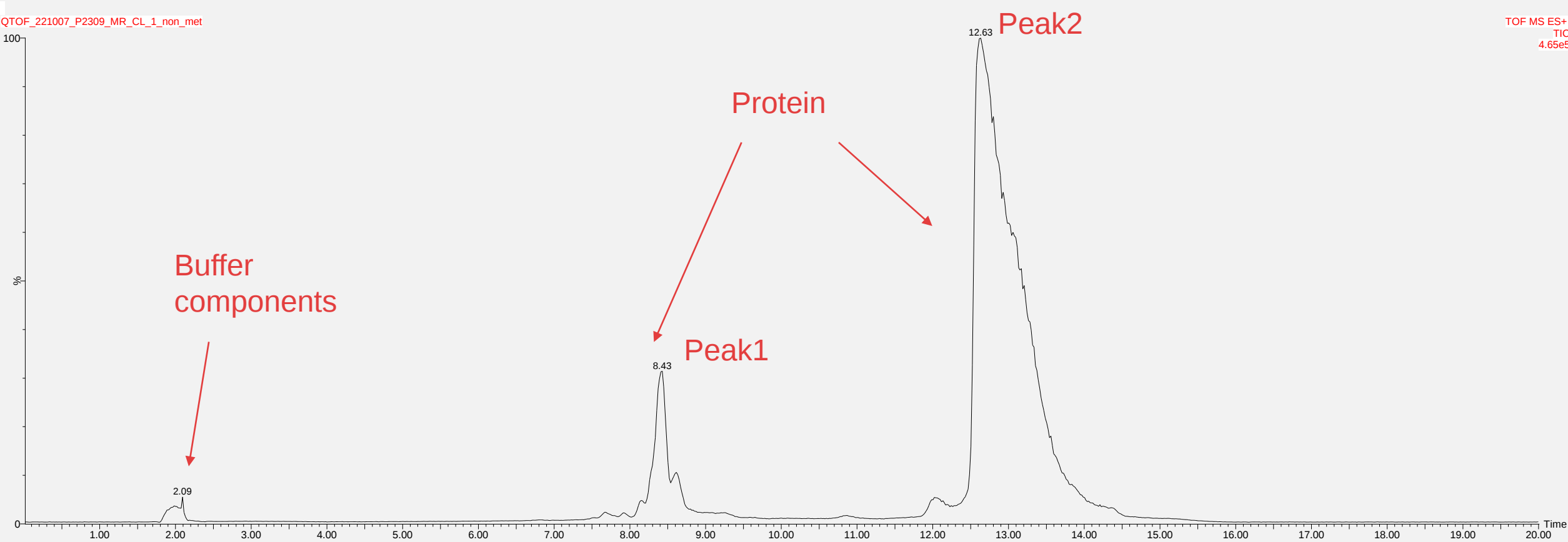


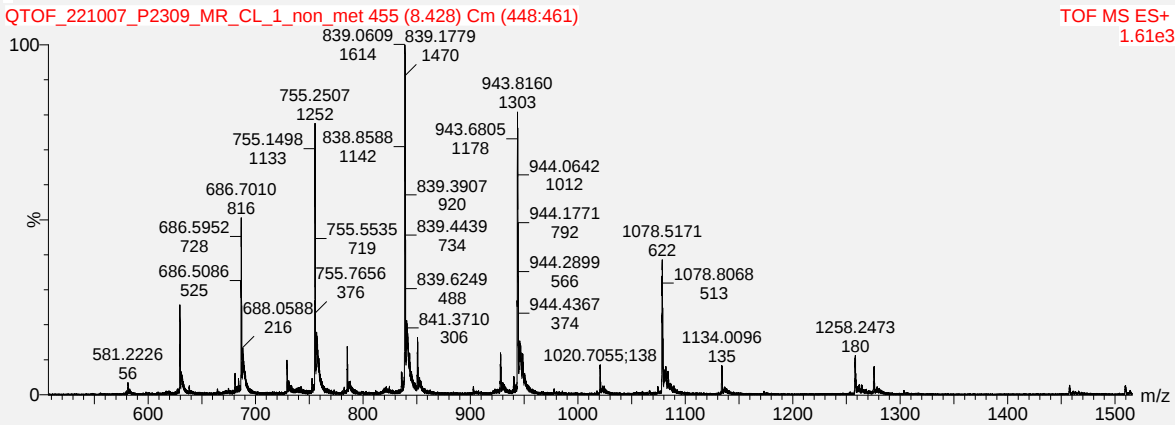
Intact mass measurement

P2309 Sample 1 non-methylated

Chromatogram



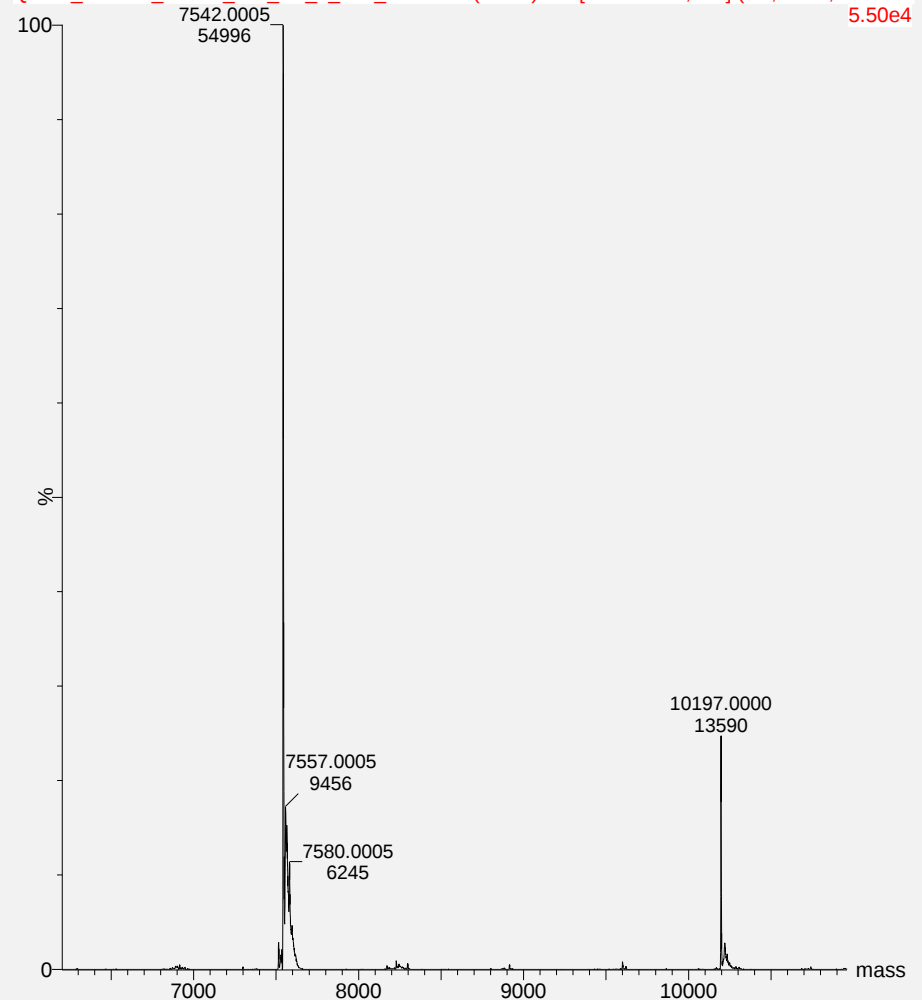
Spectrum and Mass – Peak1



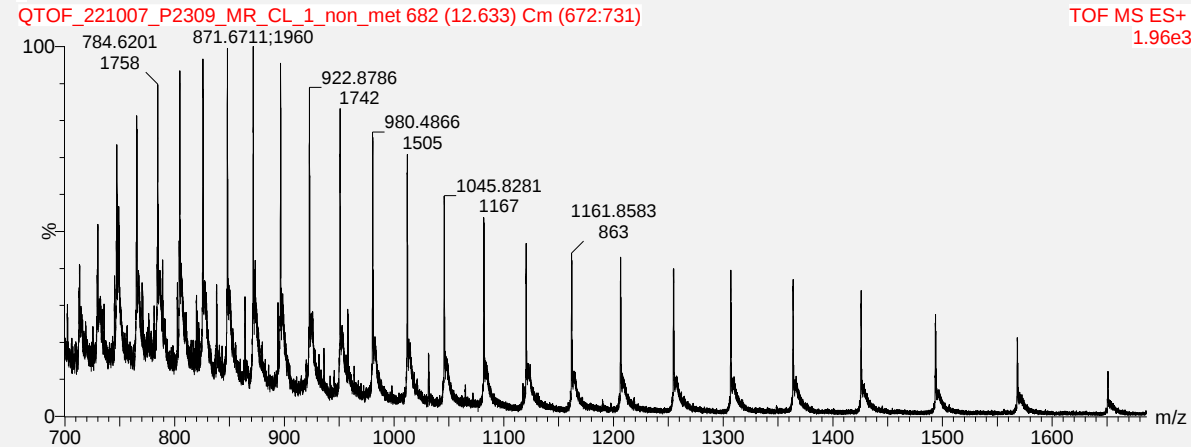
Measured Mass:

- 7542 Da
- 10197 Da

QTOF_221007_P2309_MR_CL_1_non_met 455 (8.428) M1 [Ev-110735,lt18] (Gs,0.500,507:1516) 5.50e4



Spectrum and Mass – Peak2



Expected Mass: 29163.54 Da

Measured Mass: 31345 Da (+2182Da)

Compute pI/Mw

Theoretical pI/Mw (average) for the user-entered sequence:

10	20	30	40	50	60
MQKAVEITYN	GKTLRGMHHL	PDDVKGKVP	VIMFHGFTGN	KVESHFIFVK	MSRALEKVG
70	80	90	100	110	120
GSVRFDFYGS	GESDGDSEF	TFSSELEDAR	QILKFVKEQP	TTDPERIGLL	GLSMGGAIA
130	140	150	160	170	180
IVAREYKDEI	KALVLWAPAF	NMPELIMNES	VKQYGAIMEQ	LGFVDIGGHK	LSKDFVEDIS
190	200	210	220	230	240
KLNIFFELSKG	YDKKVLIVHG	TNDEAVEYKV	SDRILKEVYG	DNATRVTIEN	ADHTFKSLEW
250					
EKKATIEESVE	FFKELLKG				

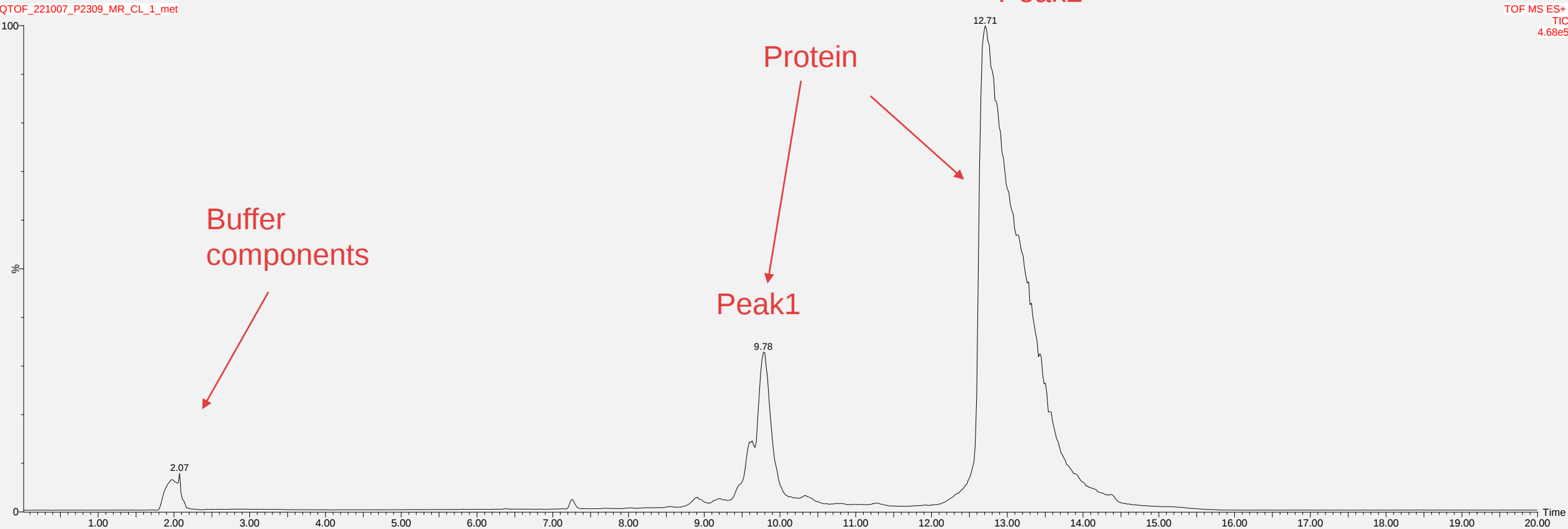
Theoretical pI/Mw: 5.40 / 29163.54



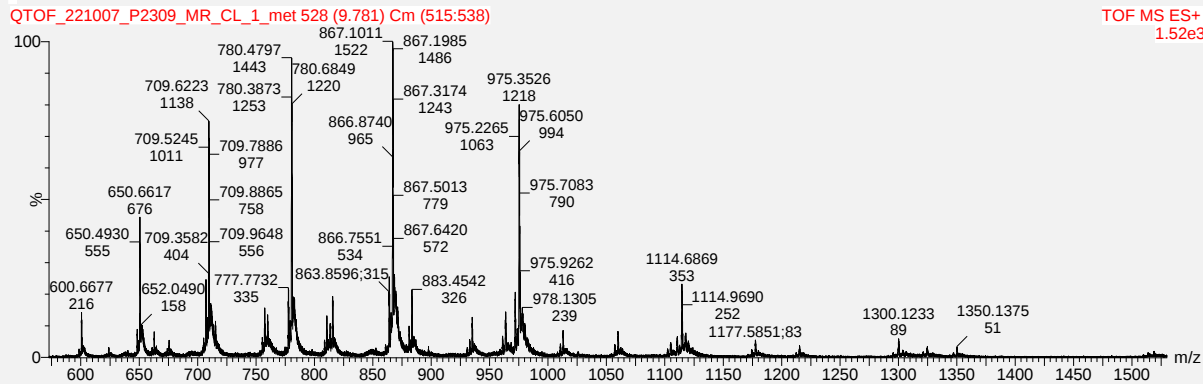
Intact mass measurement

P2309 Sample 1 methylated

Chromatogram

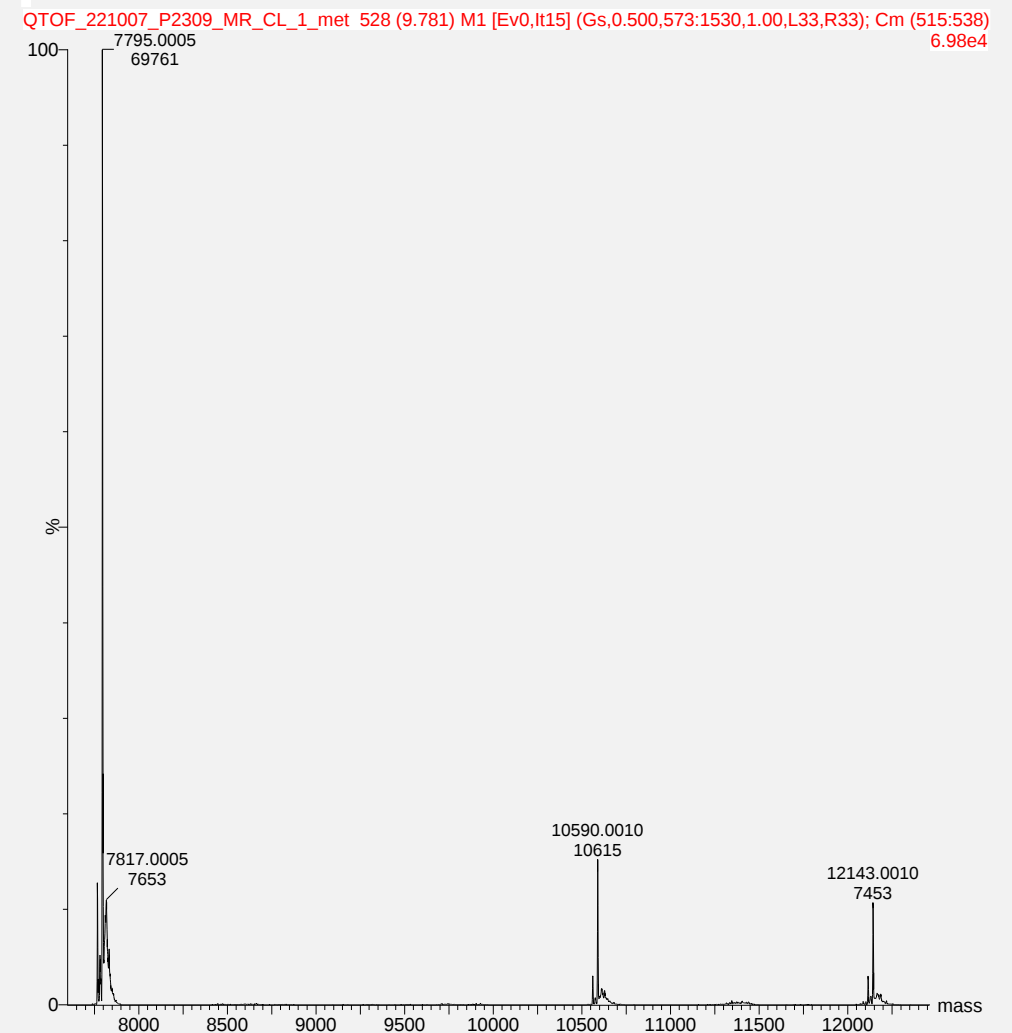


Spectrum and Mass – Peak1

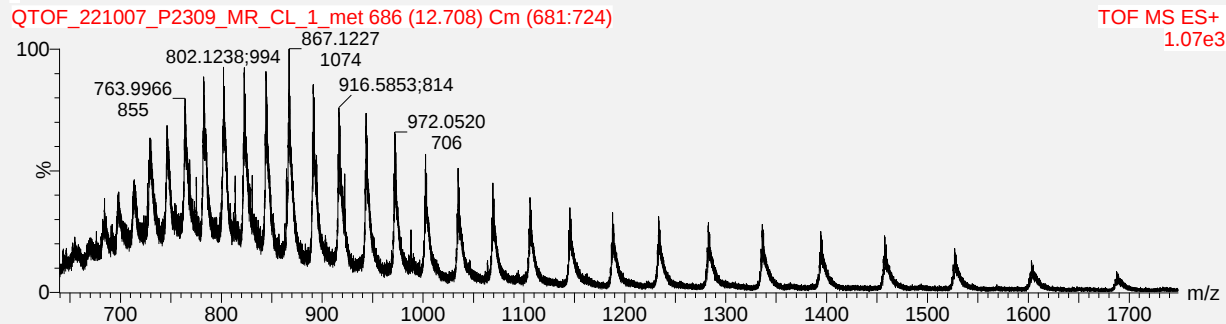


Measured Mass:

- 7795 Da
- 10590 Da
- 12143 Da



Spectrum and Mass – Peak2

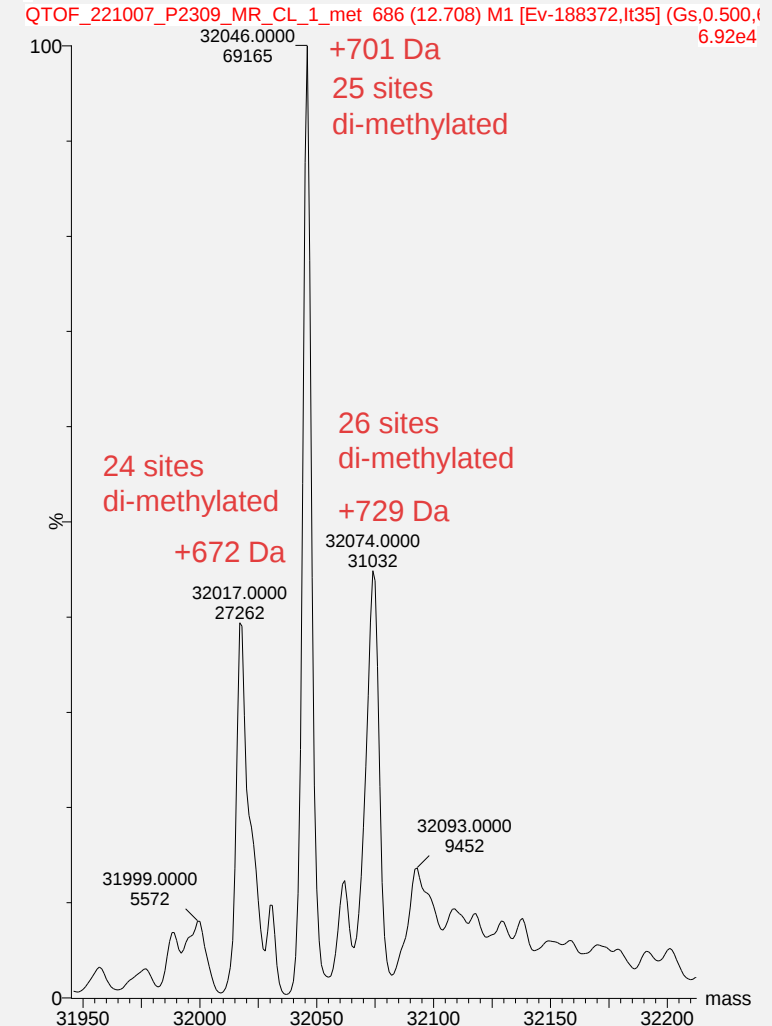


Expected Mass: 29163.54 Da

Measured Mass of non-modified: 31345 Da

Measured Mass:

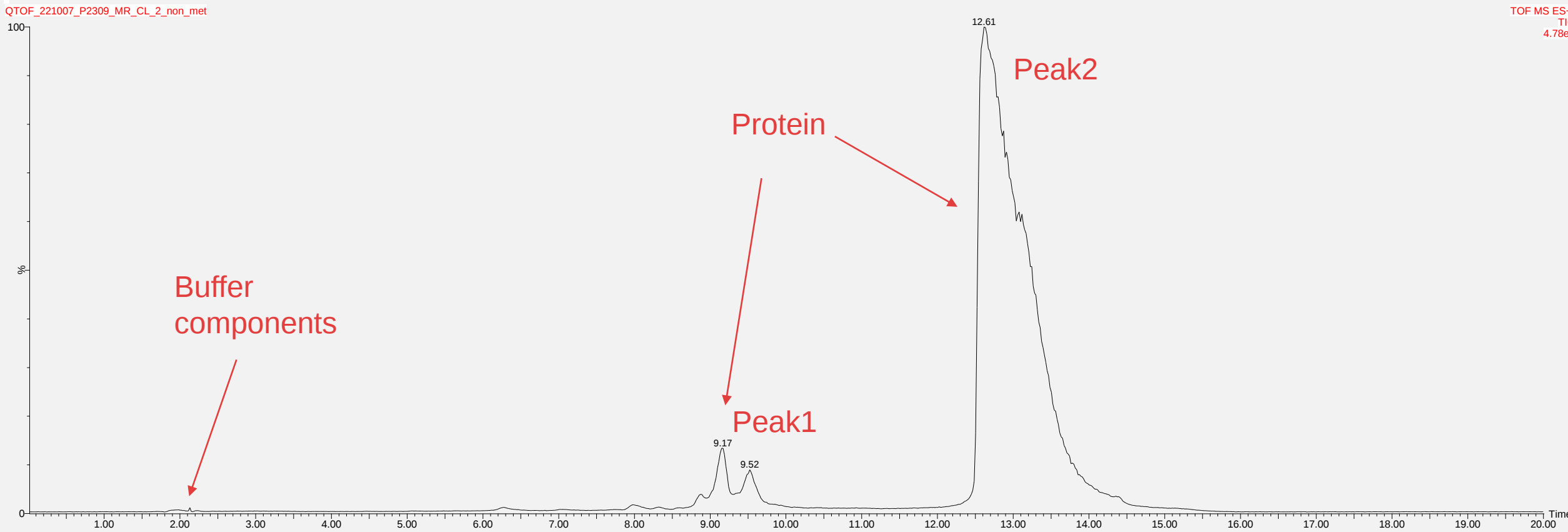
- 32017 Da (+672 Da)
 - 32046 Da (+701 Da)
 - 32074 Da (+729 Da)
- } Difference: 29 Da
- } Difference: 28 Da
- maybe a di-methylation pattern



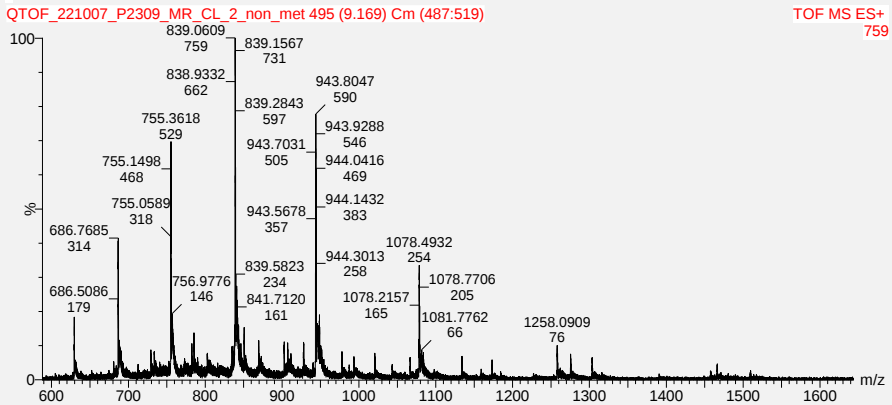
Intact mass measurement

P2309 Sample 2 non-methylated

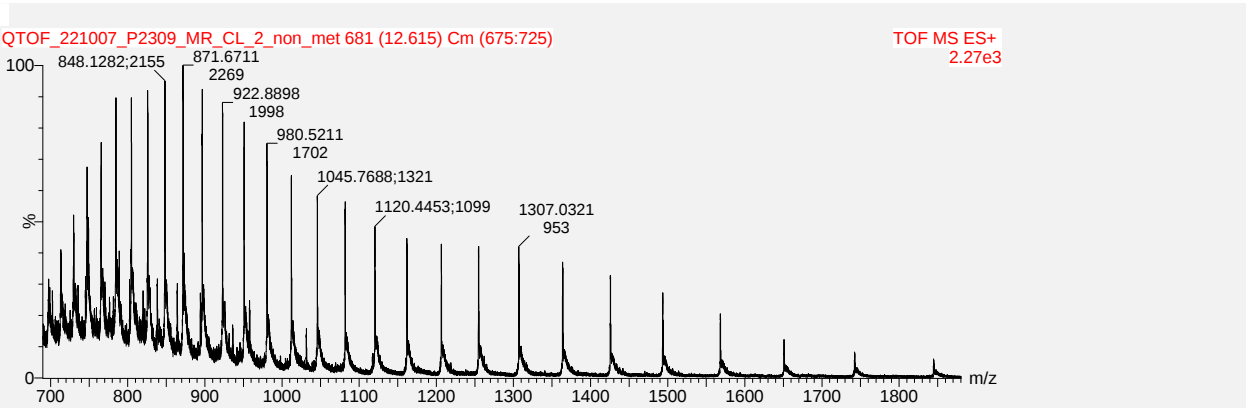
Chromatogram



Spectrum and Mass – Peak1



Spectrum and Mass – Peak2



Expected Mass: 29163.54 Da

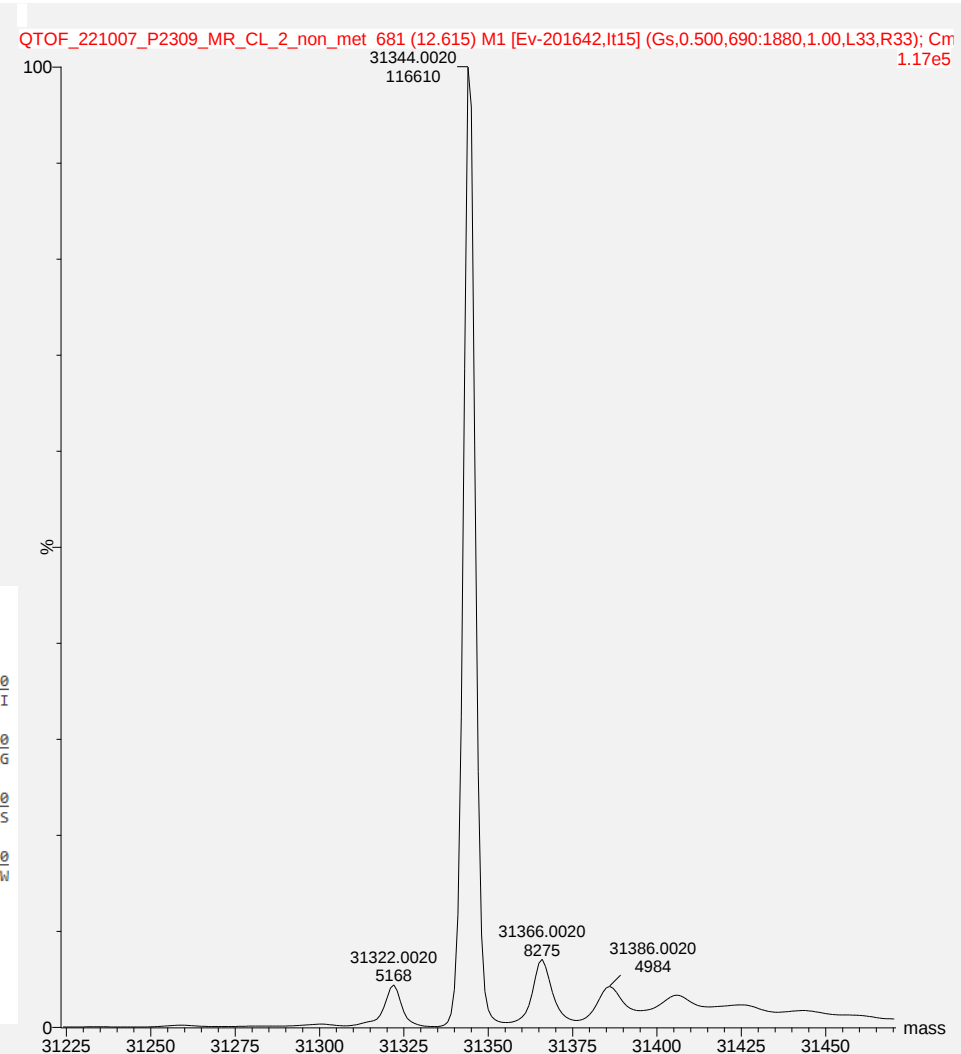
Measured Mass: 31344 Da

Compute pI/Mw

Theoretical pI/Mw (average) for the user-entered sequence:

10	20	30	40	50	60
MQKAVEITYN	GKTLRGWHL	PDDVKGVPM	VIMFHGFTGN	KVESHFIFVK	MSRALEKVGI
70	80	90	100	110	120
GSRVDFYGS	GESDGFSEM	TFSSELEDAR	QILKFVKEQP	TTDPERIGLL	GLSMGGAIAG
130	140	150	160	170	180
IVAREYKDEI	KALVLWAPAF	NMPELIMNES	VKQYGAISEQ	LGFDIGGHHK	LSKDFVEDIS
190	200	210	220	230	240
KLNIFELSKG	YDKKVLIVHG	TNDEAVEYKV	SDRILKEVYG	DNATRTIEN	ADHTFKSLEW
250					
EKKAIEESVE	FFKCELLKG				

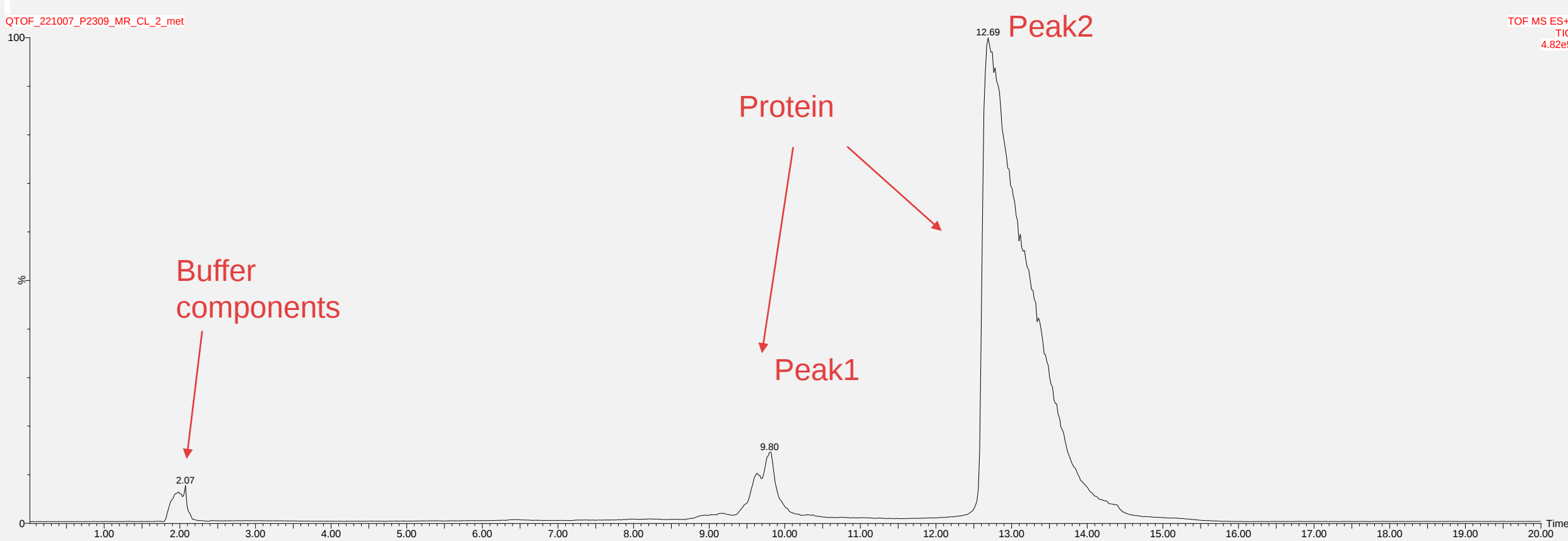
Theoretical pI/Mw: 5.40 / 29163.54



Intact mass measurement

P2309 Sample 2 methylated

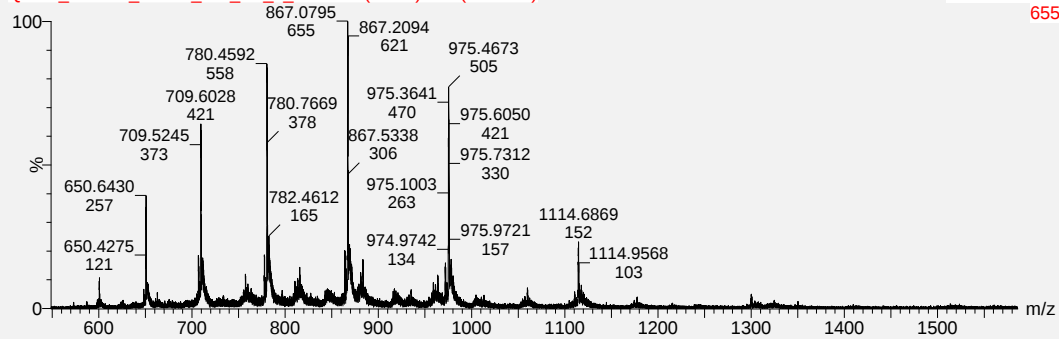
Chromatogram



Spectrum and Mass – Peak1

QTOF_221007_P2309_MR_CL_2_met 529 (9.799) Cm (514:535)

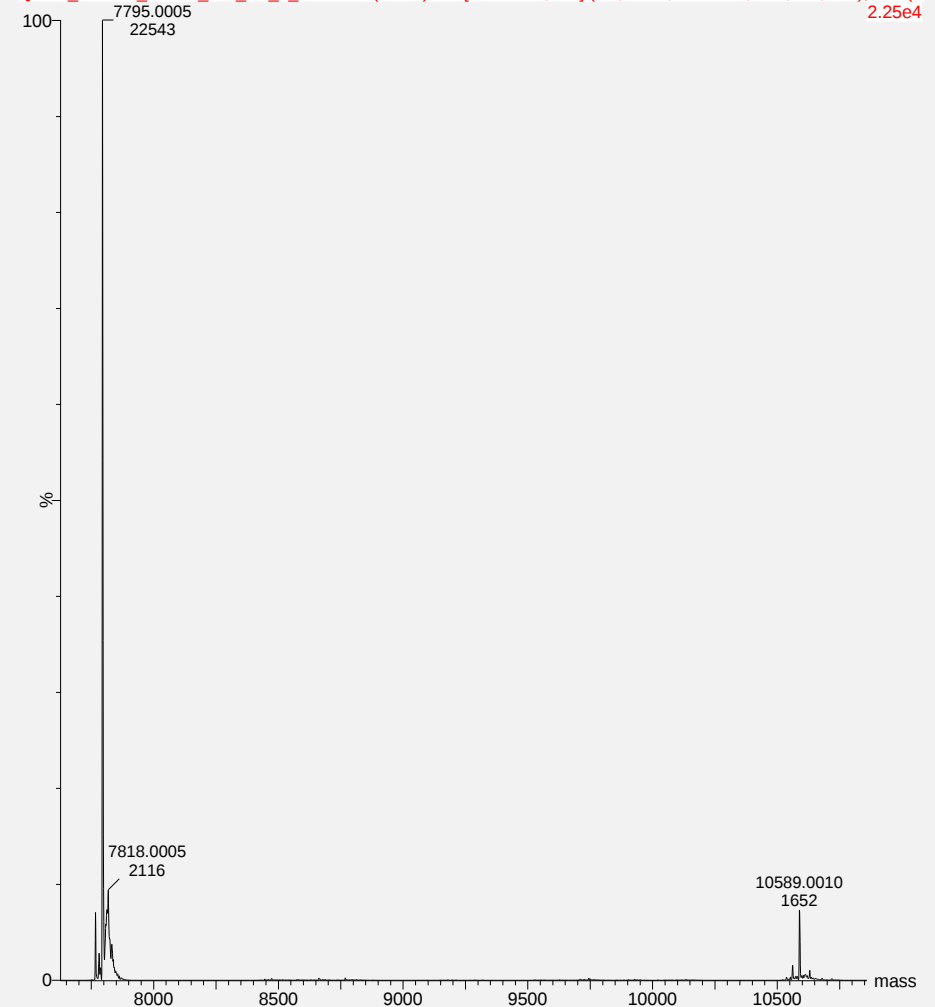
TOF MS ES+
655



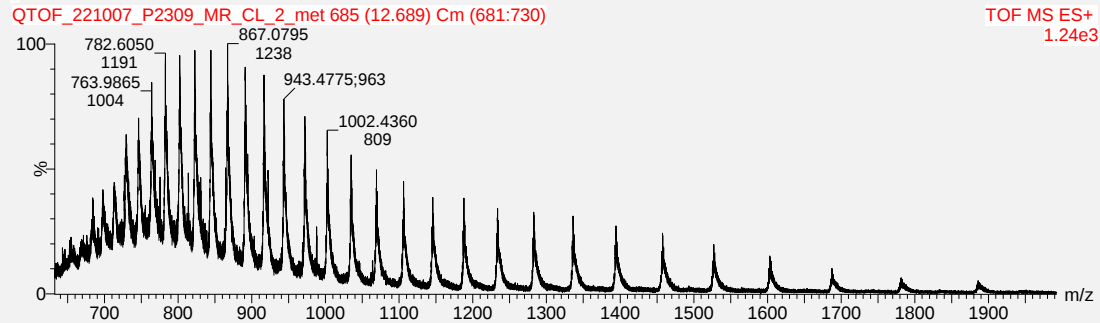
Measured Mass:

- 7542 Da
- 10197 Da

QTOF_221007_P2309_MR_CL_2_met 529 (9.799) M1 [Ev-83686,It20] (Gs,0.500,579:1439,1.00,L33,R33); Cm (5: 2.25e4)



Spectrum and Mass – Peak2



Expected Mass: 29163.54 Da

Measured Mass of non-modified: 31344 Da

Measured Mass:

- 32018 Da (+674 Da)
 - 32046 Da (+702 Da)
 - 32073 Da (+729 Da)
- Difference: 28 Da
 Difference: 27 Da
 maybe a di-methylation pattern

