Certificate of Analysis

MOTS-c

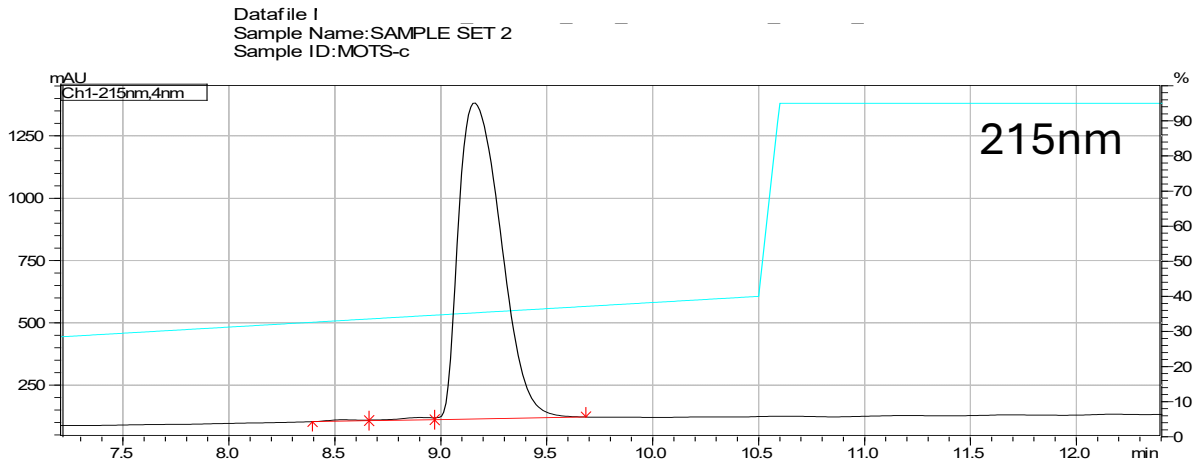
002 sample

Bio-Analysis Centre

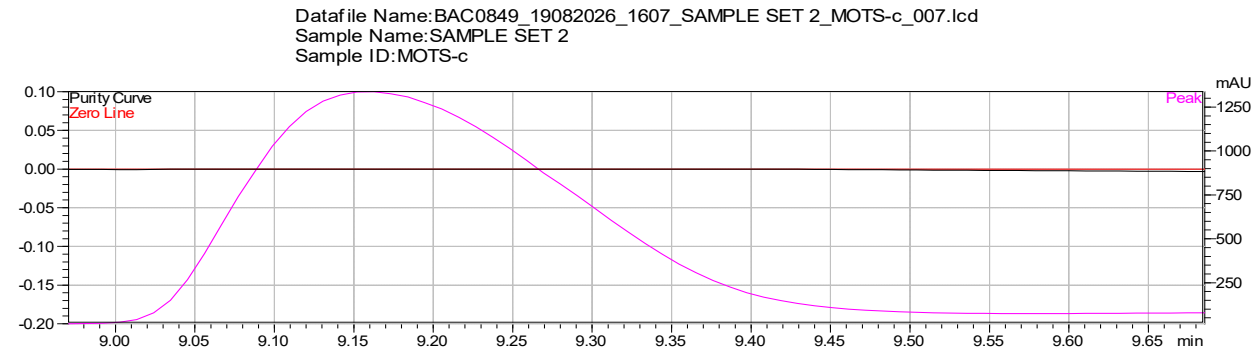
Analysis Method:

Sample Preparation	2ml H_2O	Injection Volume	1µl	
Instrument	Shimadzu LCMS8040	Analysis wavelength	215nm	
Column	Zorbax Extend C18	Mass Scan Range	500 – 2000 m/z	
Column Dimensions	4.6 x 150 mm	Run time	20 mins	
Guard Column	yes	Gradient	Time (min)	%B
Mobile Phase A	0.1% Formic Acid in Water		0 – 0.5	5
Mobile Phase B	0.1% Formic Acid in Acetonitrile		0.5 – 10.5	5-40
Flow	0.5ml/min		10.5 – 10.6	40 – 95
Column Temperature	40°C		10.6 – 12.6	95
Autosampler temperature	15°C		12.6 – 12.7	95 - 5

Purity Check



Purity Profile

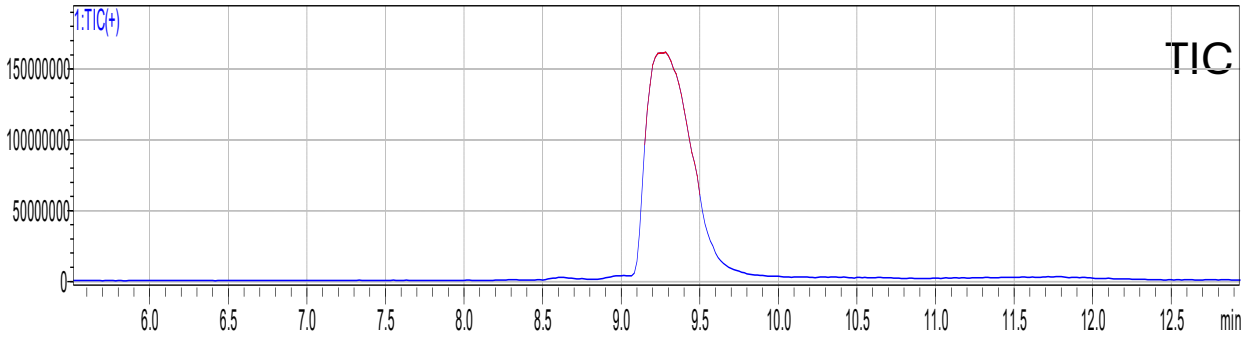


Peak#	Name	Ret. Time	Area	Area%	Peak Purity Index
1		8.523	53631	0.301	1
2		8.896	106848	0.599	0.9999
3	MOTS-c	9.163	17672077	99.1	0.9969

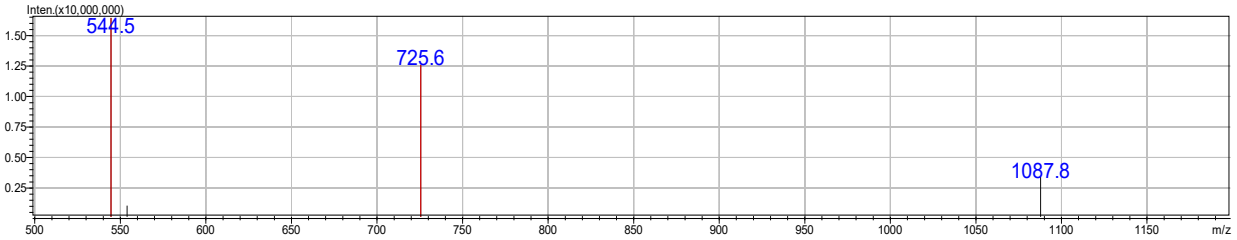
Purity

MOTS-c 98.8%

Identity Check



Detected Ions



m/z	Absolute Intensity	Relative Intensity
544.5	16401317	100
553.95	1013330	6.18
725.6	12555331	76.55
1087.8	3361211	20.49

Expected Ions

Name	M	M+H	M+H/2	M+H/3	M+H/4
MOTS-c	2174.62	2175.62	1088.31	725.873	544.655