

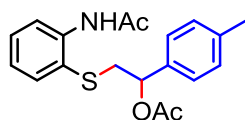
Silver Mediated Thio-Acetoxylation and TFA Triggered Cyclization of Amino Disulfides with Unactivated Alkenes: Synthesis of 3-Aryl/Alkyl-1,4-benzothiazines

Ch. Durga Prasad, Ajay Verma, Moh. Sattar, Sangit Kumar*

Content

HRMS of synthesized compounds S2-S27

HRMS spectra of compound 1a

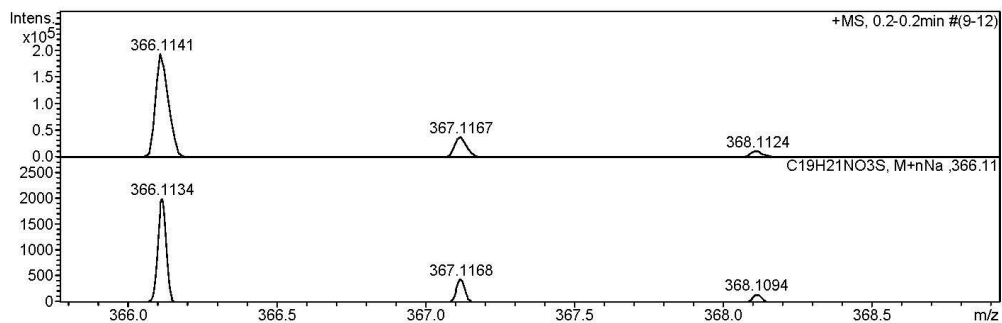
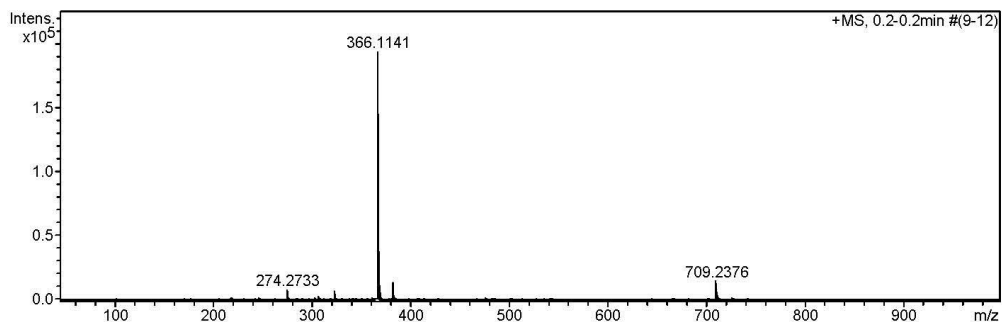
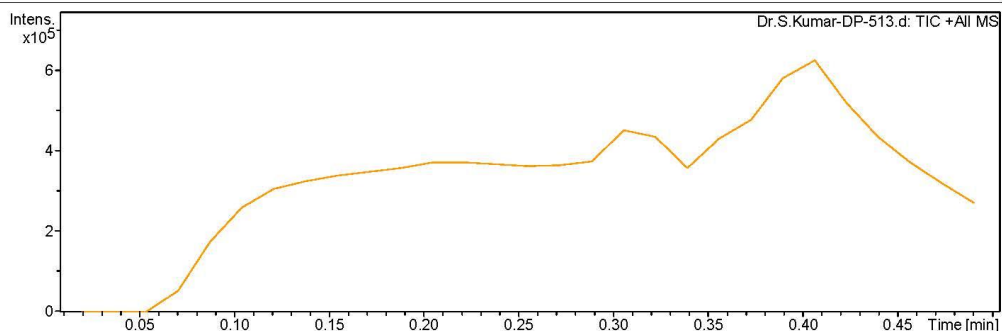


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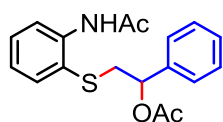
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Method	tune_low.m	Instrument	micrOTOF-Q II 10330
Sample Name	DP-513		
Comment			

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.4 Bar
Focus	Not active	Set Capillary	4600 V	Set Dry Heater	180 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	4.0 l/min
Scan End	3000 m/z	Set Collision Cell RF	130.0 Vpp	Set Divert Valve	Waste



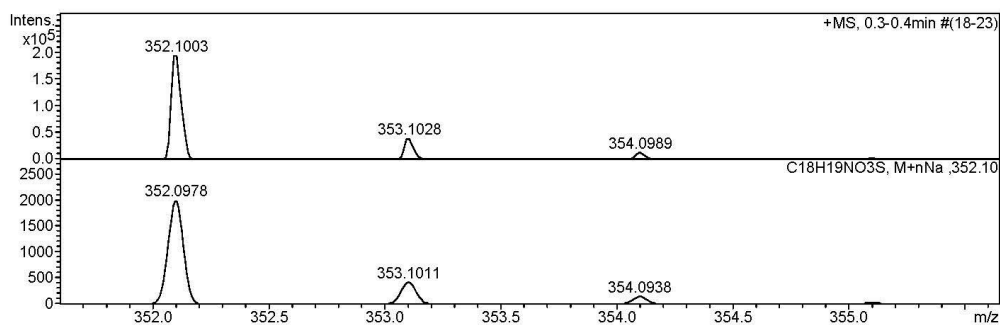
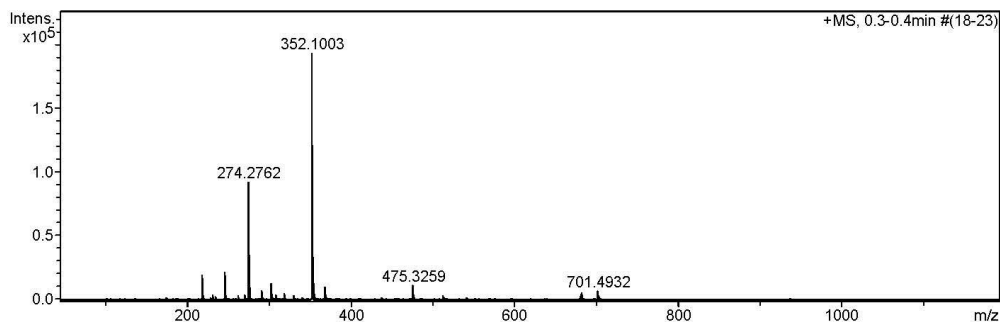
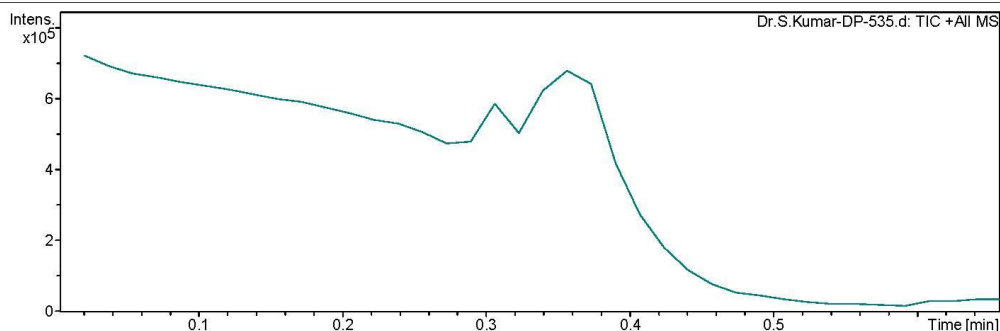
HRMS spectra of compound **1b**



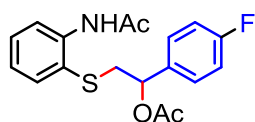
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Method: tune_low.m
Sample Name: DP-535
Comment:
Acquisition Date: 11/17/2014 4:25:10 AM
Operator: RUCHI
Instrument: micrOTOF-Q II 10330

Acquisition Parameter
Source Type: ESI
Focus: Not active
Scan Begin: 50 m/z
Scan End: 3000 m/z
Ion Polarity: Positive
Set Capillary: 4600 V
Set End Plate Offset: -500 V
Set Collision Cell RF: 130.0 Vpp
Set Nebulizer: 0.4 Bar
Set Dry Heater: 180 °C
Set Dry Gas: 4.0 l/min
Set Divert Valve: Waste



HRMS spectra of compound 1c

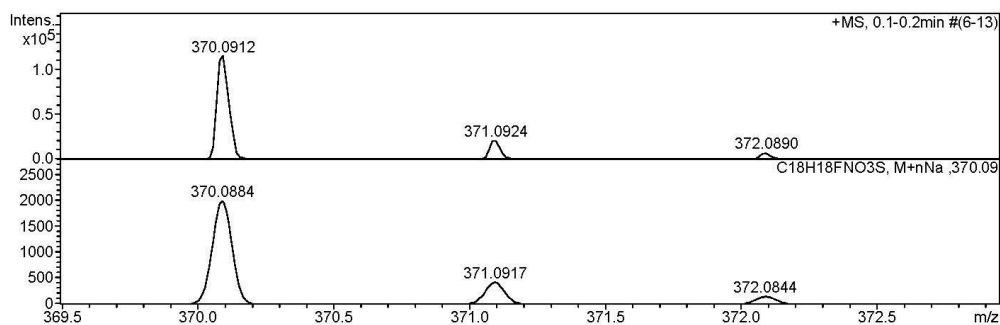
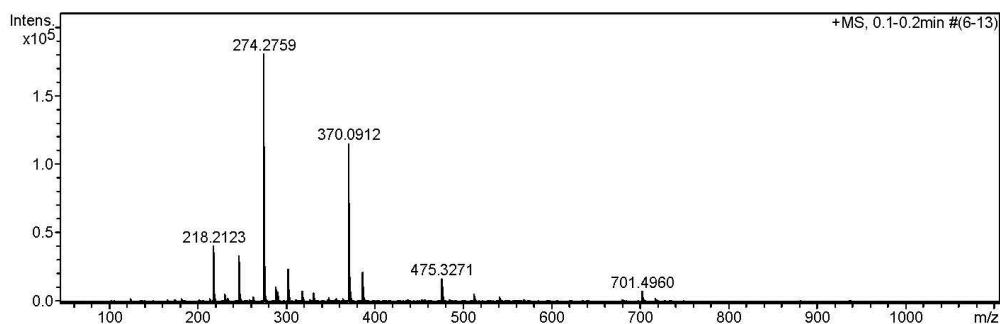
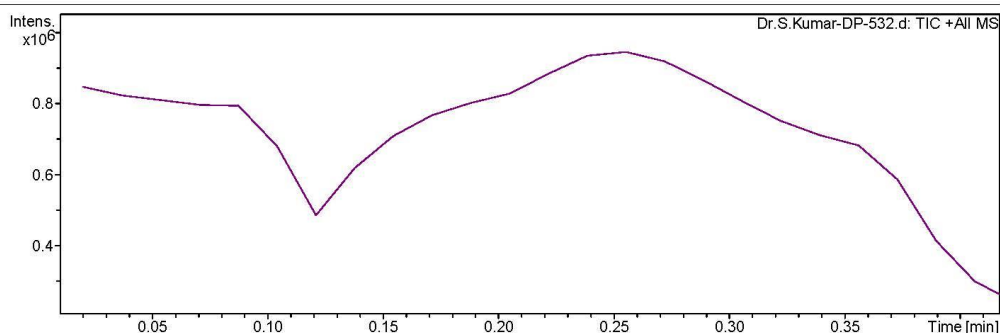


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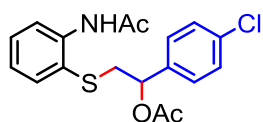
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Method	tune_low.m	Instrument	micrOTOF-Q II 10330
Sample Name	DP-532		
Comment			

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.4 Bar
Focus	Not active	Set Capillary	4600 V	Set Dry Heater	180 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	4.0 l/min
Scan End	3000 m/z	Set Collision Cell RF	130.0 Vpp	Set Divert Valve	Waste



HRMS spectra of compound **1d**

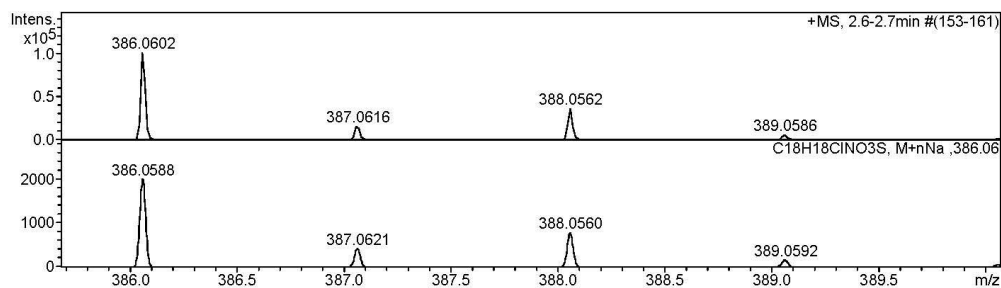
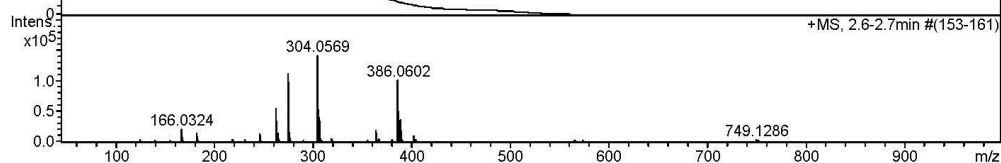
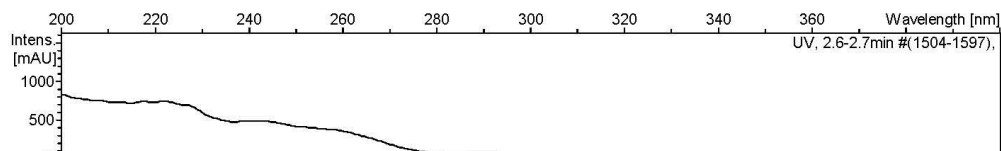
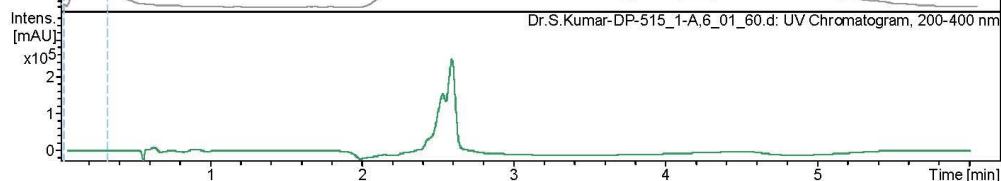
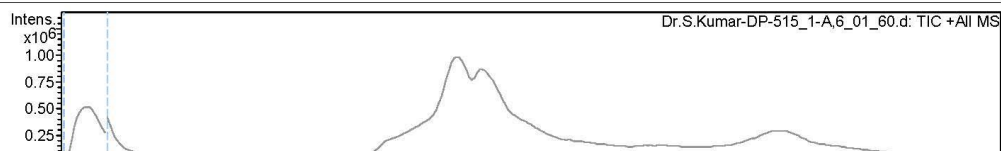


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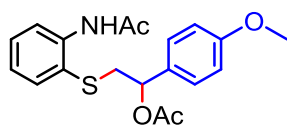
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Method	HRLCMS-20 Sept.m	Instrument	micrOTOF-Q II 10330
Sample Name	Dr.S.Kumar-DP-515		
Comment			

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	1.2 Bar
Focus	Active	Set Capillary	4500 V	Set Dry Heater	200 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	7.0 l/min
Scan End	3000 m/z	Set Collision Cell RF	130.0 Vpp	Set Divert Valve	Waste



HRMS spectra of compound **1e**

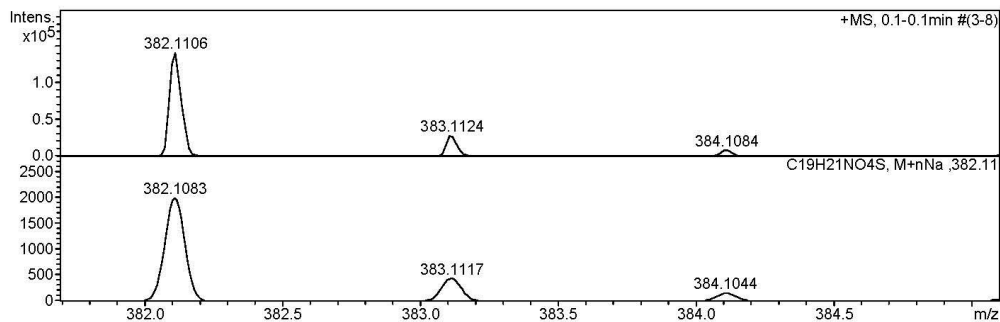
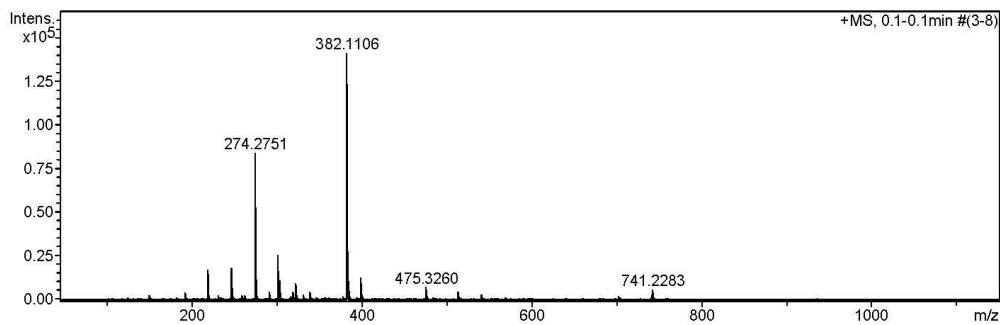
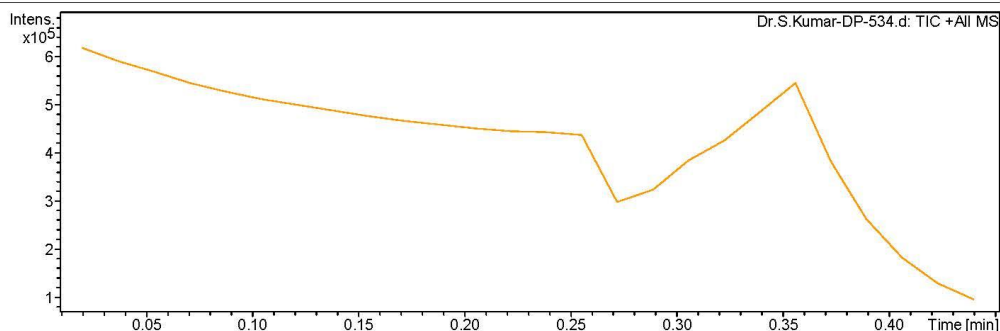


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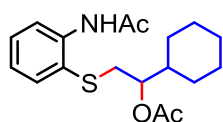
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Method	tune_low.m	Instrument	micrOTOF-Q II 10330
Sample Name	DP-534		
Comment			

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.4 Bar
Focus	Not active	Set Capillary	4600 V	Set Dry Heater	180 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	4.0 l/min
Scan End	3000 m/z	Set Collision Cell RF	130.0 Vpp	Set Divert Valve	Waste



HRMS spectra of compound **1f**

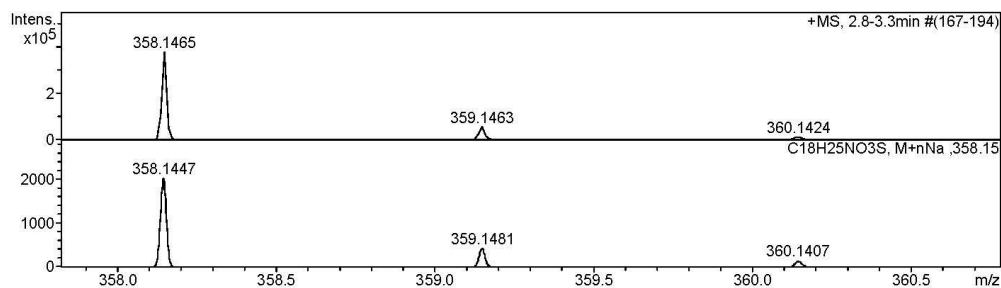
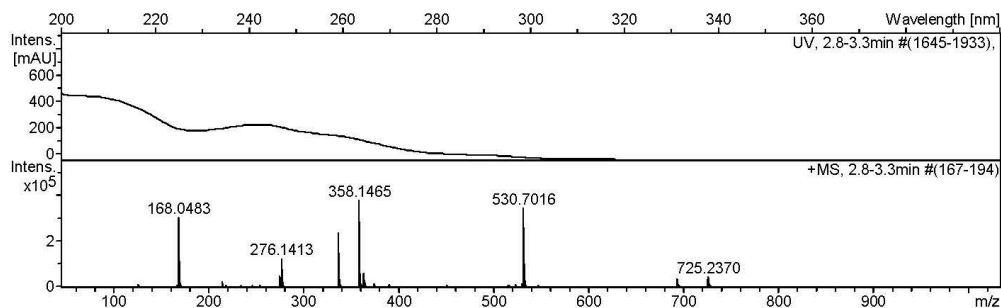
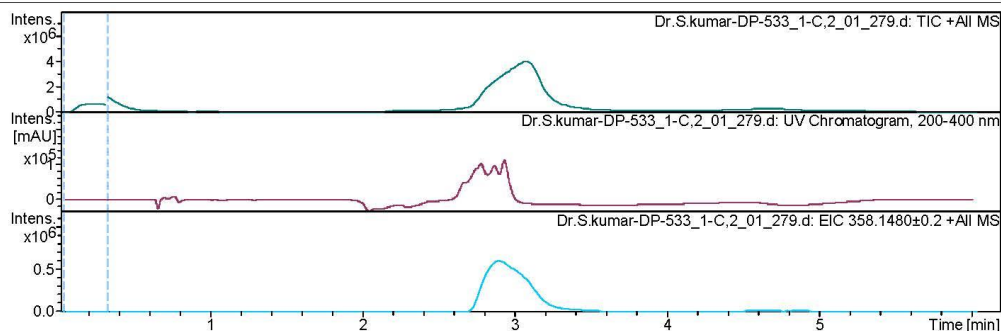


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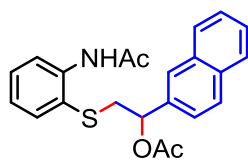
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Method	HRLCMS-20 Sept.m	Instrument	micrOTOF-Q II 10330
Sample Name	Dr.S.kumar-DP-533		
Comment			

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	1.2 Bar
Focus	Active	Set Capillary	4500 V	Set Dry Heater	200 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	7.0 l/min
Scan End	3000 m/z	Set Collision Cell RF	130.0 Vpp	Set Divert Valve	Waste



HRMS spectra of compound **1g**

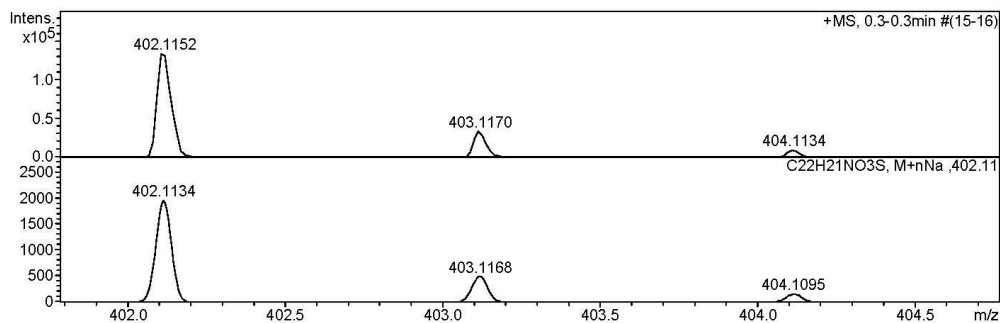
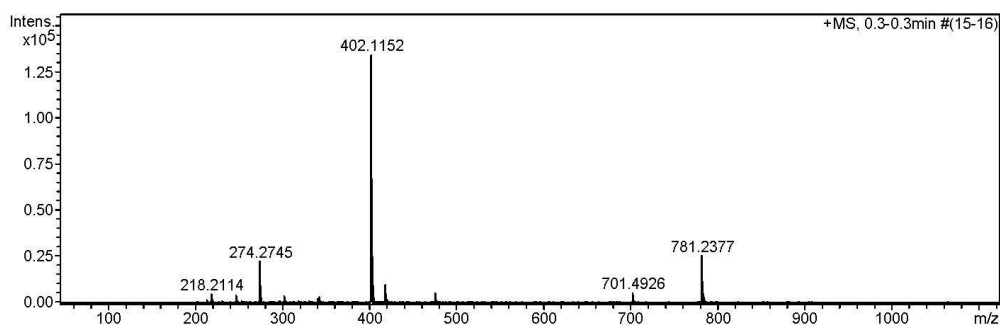
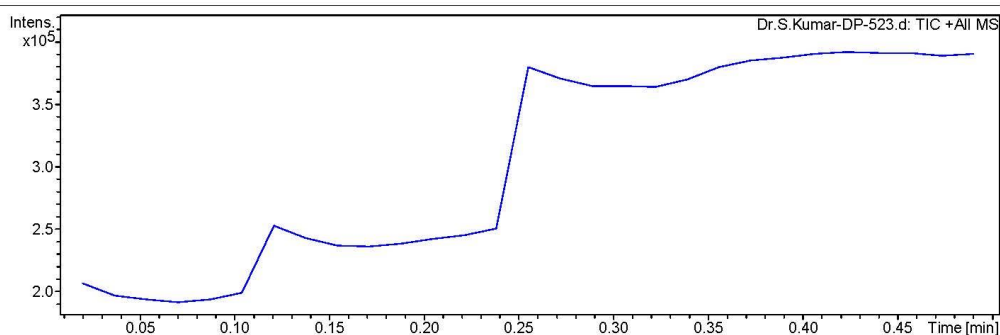


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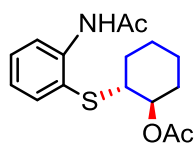
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Method	tune_low.m	Instrument	micrOTOF-Q II 10330
Sample Name	DP-523		
Comment			

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.4 Bar
Focus	Not active	Set Capillary	4600 V	Set Dry Heater	180 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	4.0 l/min
Scan End	3000 m/z	Set Collision Cell RF	230.0 Vpp	Set Divert Valve	Waste



HRMS spectra of compound 1h



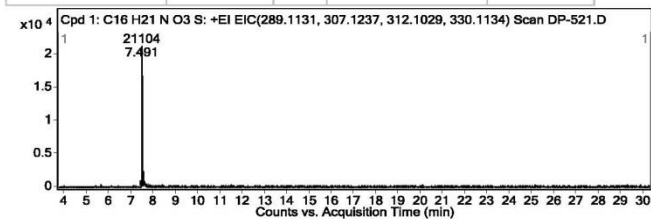
Qualitative Compound Report

Data File	DP-521.D	Sample Name	DP-521
Sample Type		Position	2
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Acq Method	IISER_GENERAL_HP5_80_V30.M	Acquired Time	11-Jun-15 2:07:43 PM
IRM Calibration Status	Success	DA Method	iSER13MAY 2013.m
Comment			
Expected Barcode	Sample Amount		
Dual Inj Vol	0.1	TuneName	Install_tune.ei.tune_1_4_13.tune.xml
TunePath	D:\MassHunter\GCMS\1\7200	TuneDateStamp	41954.1706
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RunCompletedFlag	TRUE		

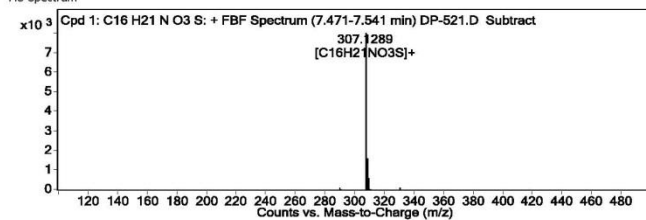
Compound Table

Compound Label	RT	Mass	Abund	Formula	Tgt Mass	Diff (ppm)	MFG Formula	DB Formula
Cpd 1: C16 H21 N O3 S	7.491	307.1291	8028	C16 H21 N O3 S	307.1242	15.85	C16 H21 N O3 S	C16 H21 N O3 S

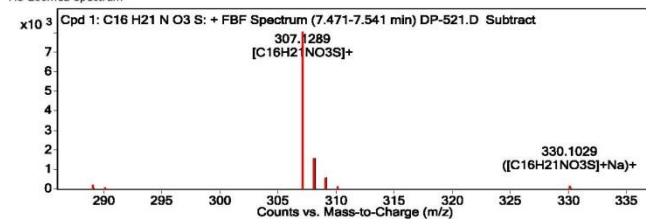
Compound Label	m/z	RT	Algorithm	Mass
Cpd 1: C16 H21 N O3 S	307.1289	7.491	Find By Formula	307.1291



MS Spectrum



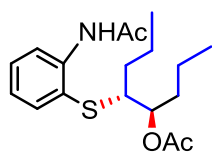
MS Zoomed Spectrum



MS Spectrum Peak List

m/z	z	Abund	Formula	Ion
289.1129	1	130.38	C16H21NO3S	M+[-H2O]
290.112	1	43	C16H21NO3S	M+[-H2O]

HRMS spectra of compound **1i**

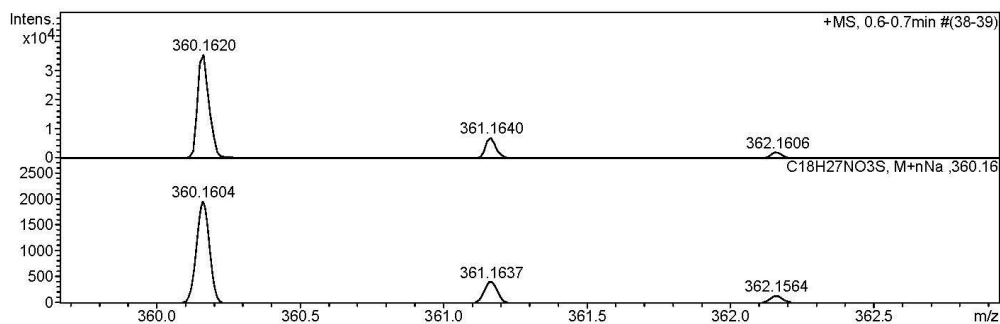
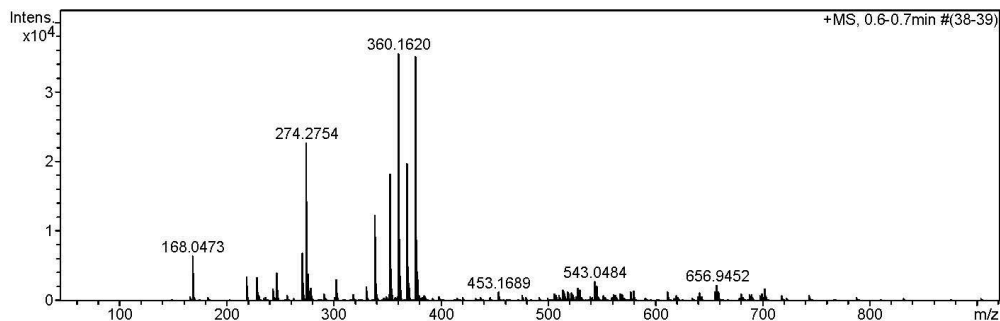
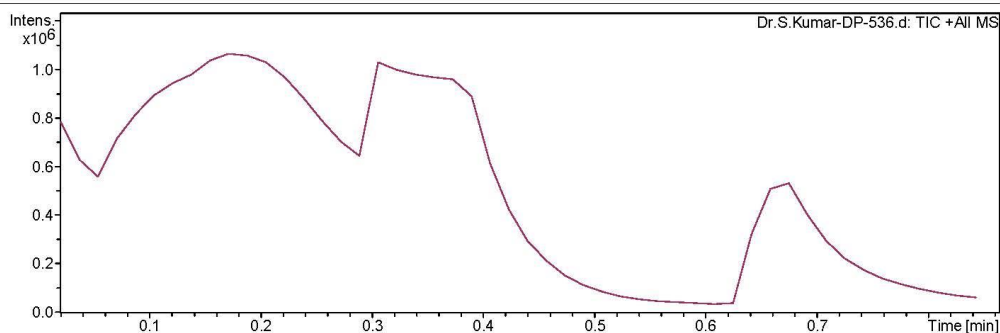


Display Report

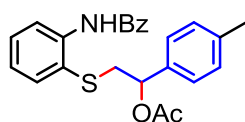
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Analysis Name	D:\Data\user data\2014\NOVEMBER\17 NOV\Dr.S.Kumar-DP-536.d	Operator	RUCHI
Method	tune_low.m	Instrument	micrOTOF-Q II 10330
Sample Name	DP-536		
Comment			

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.4 Bar
Focus	Not active	Set Capillary	4600 V	Set Dry Heater	180 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	4.0 l/min
Scan End	3000 m/z	Set Collision Cell RF	130.0 Vpp	Set Divert Valve	Waste



HRMS spectra of compound 1j

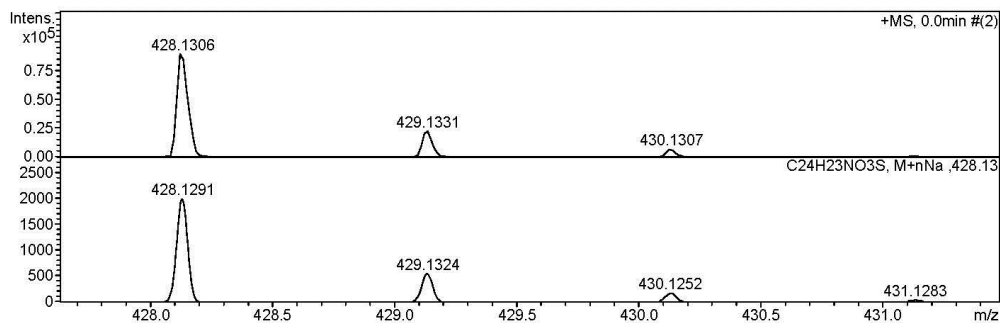
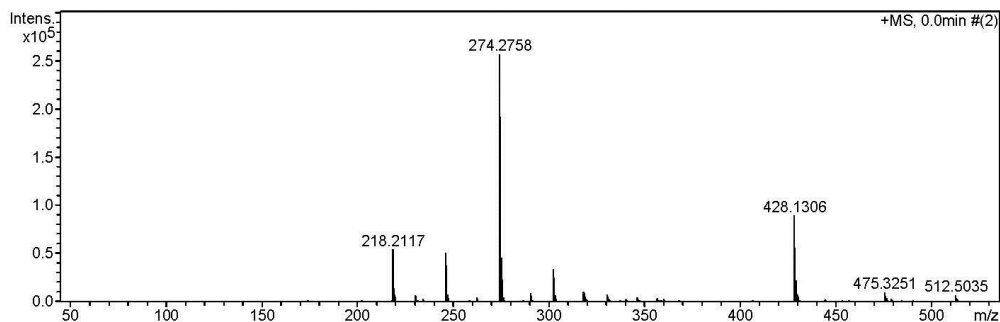
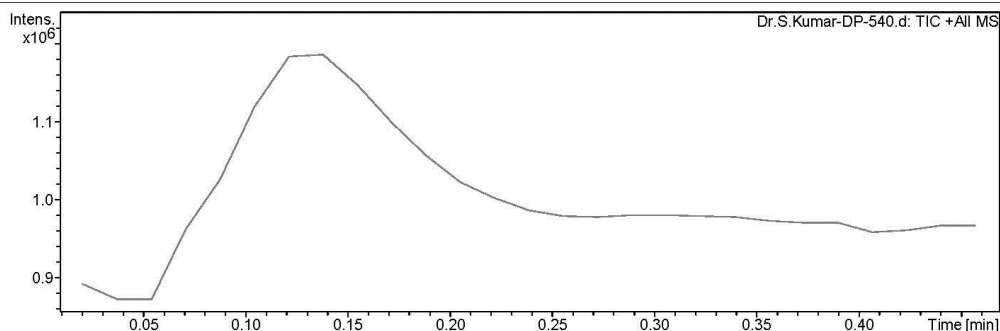


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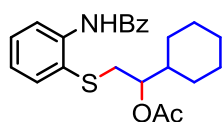
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Method	tune_low.m	Instrument	micrOTOF-Q II 10330
Sample Name	DP-540		
Comment			

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.4 Bar
Focus	Not active	Set Capillary	4600 V	Set Dry Heater	180 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	4.0 l/min
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HRMS spectra of compound **1k**

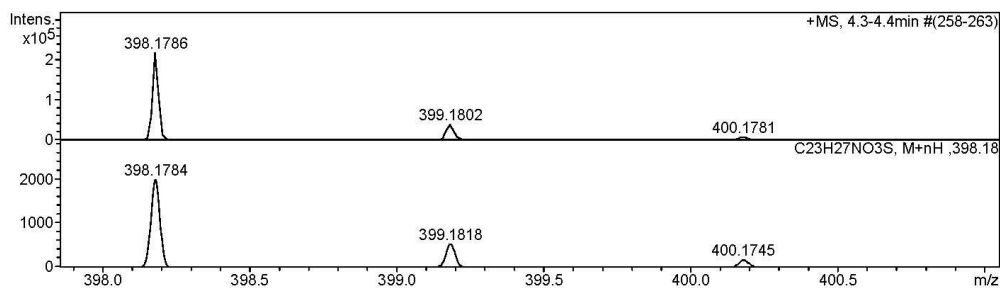
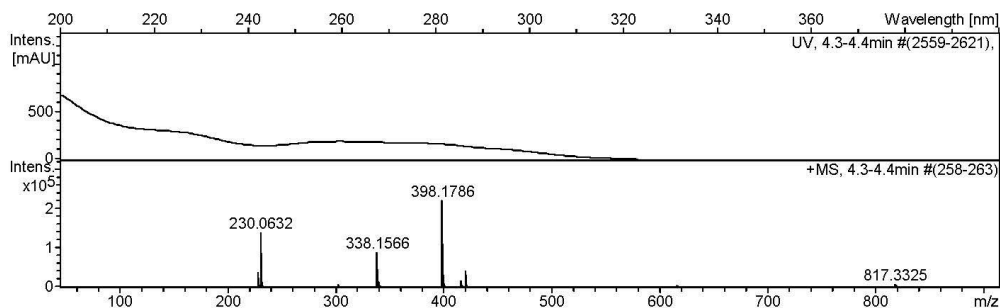
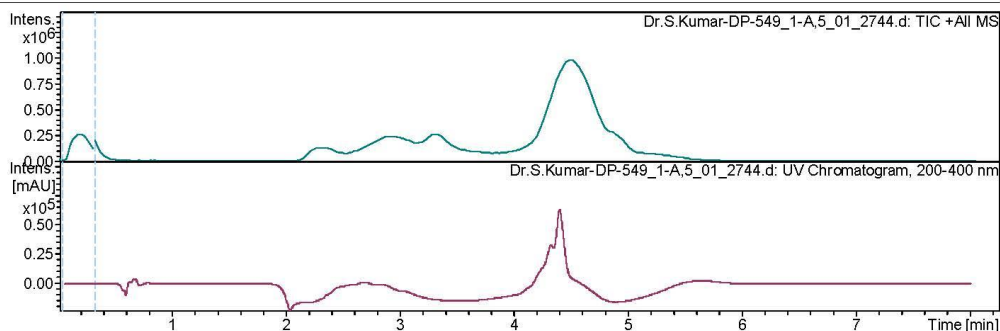


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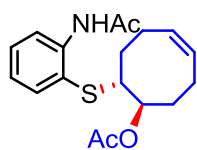
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Method	HRLCMS-20 Sept.m	Instrument	microTOF-Q II 10330
Sample Name	Dr.S.Kumar-DP-549		
Comment			

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	1.2 Bar
Focus	Active	Set Capillary	4500 V	Set Dry Heater	200 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	7.0 l/min
Scan End	3000 m/z	Set Collision Cell RF	130.0 Vpp	Set Divert Valve	Waste



HRMS spectra of compound **1m**

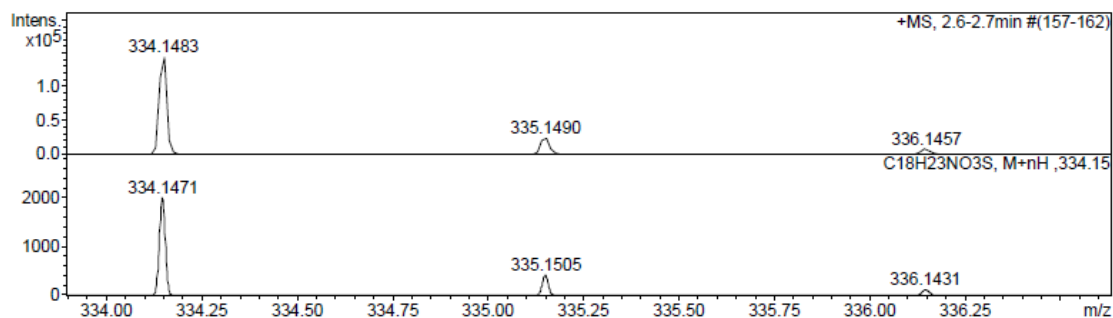
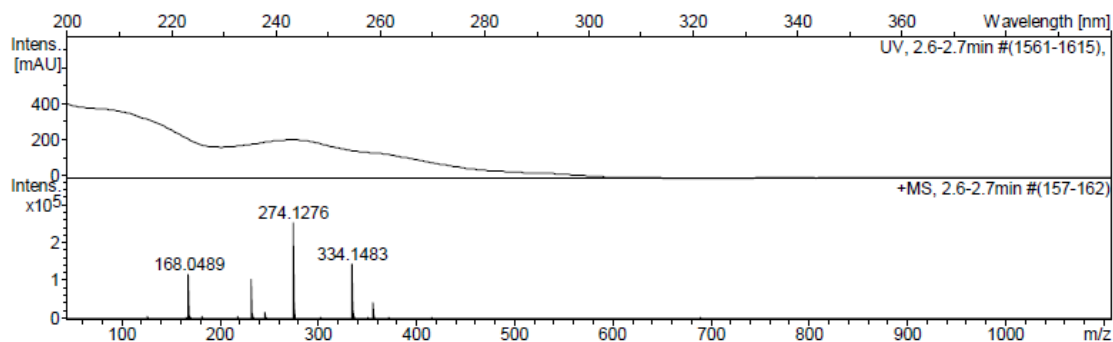
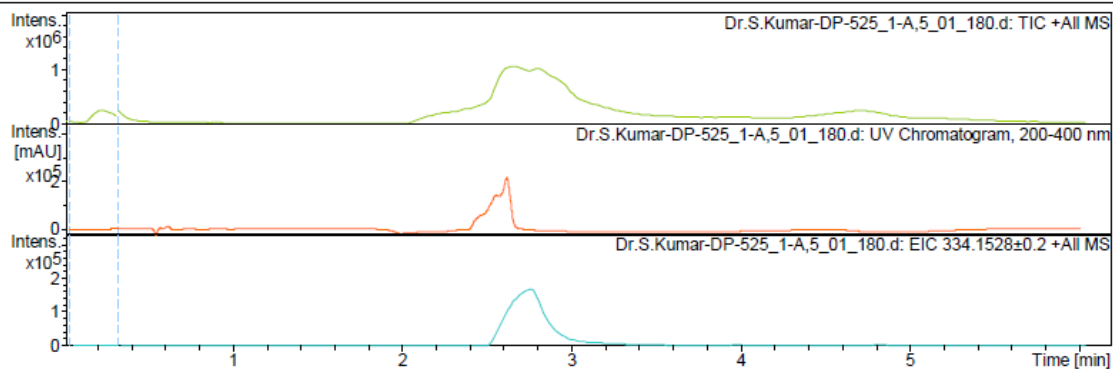


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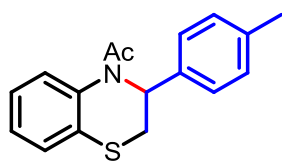
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Analysis Name	D:\Data\user data\2014\SEPT\22 SEPT\Dr.S.Kumar-DP-525_1-A,5_01_180.d	9/22/2014 1:18:09 PM	
Method	HRLCMS-20 Sept.m	Operator	RUCHI
Sample Name	Dr.S.Kumar-DP-525	Instrument	micrOTOF-Q II 10330
Comment			

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	1.2 Bar
Focus	Active	Set Capillary	4500 V	Set Dry Heater	200 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	7.0 l/min
Scan End	3000 m/z	Set Collision Cell RF	130.0 Vpp	Set Divert Valve	Waste



HRMS spectra of compound 2a

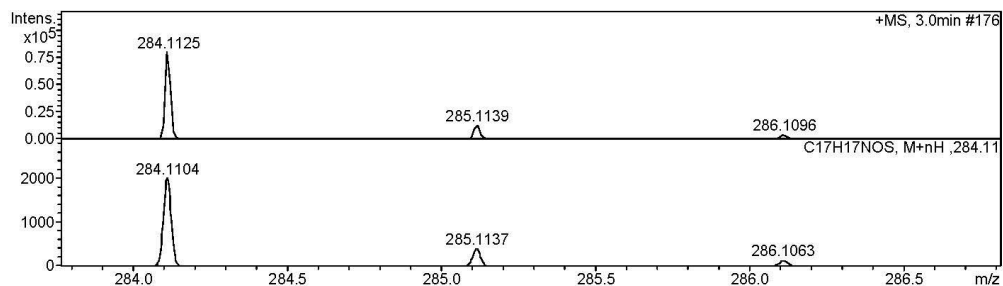
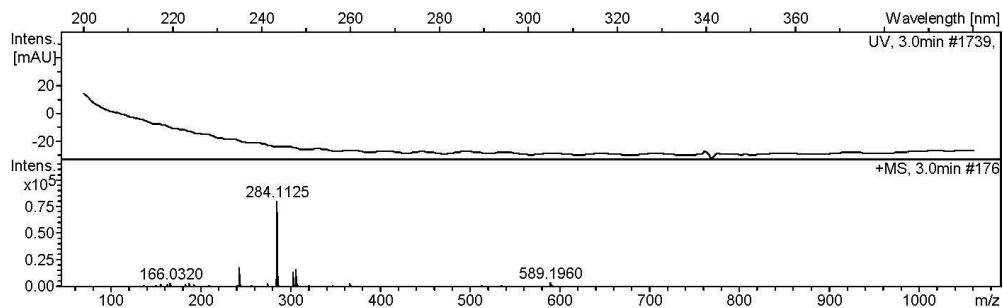
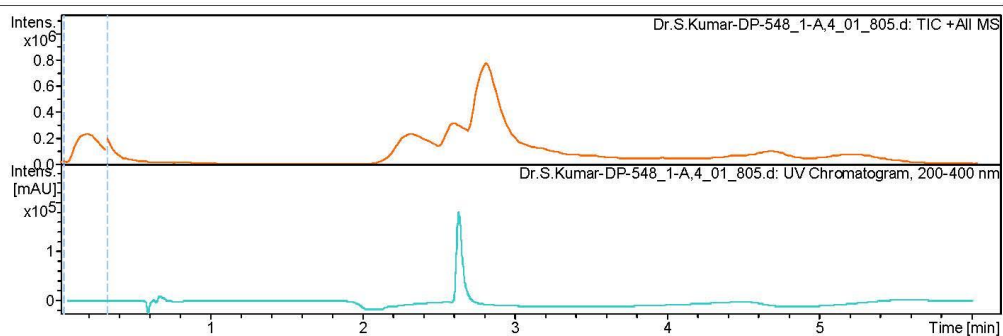


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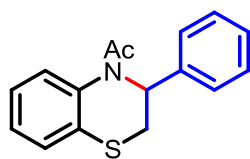
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Method	HRLCMS-20 Sept.m	Operator RUCHI
Sample Name	Dr.S.Kumar-DP-548	Instrument micrOTOF-Q II 10330
Comment		

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	1.2 Bar
Focus	Active	Set Capillary	4500 V	Set Dry Heater	200 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	7.0 l/min
Scan End	3000 m/z	Set Collision Cell RF	130.0 Vpp	Set Divert Valve	Waste



HRMS spectra of compound **2b**

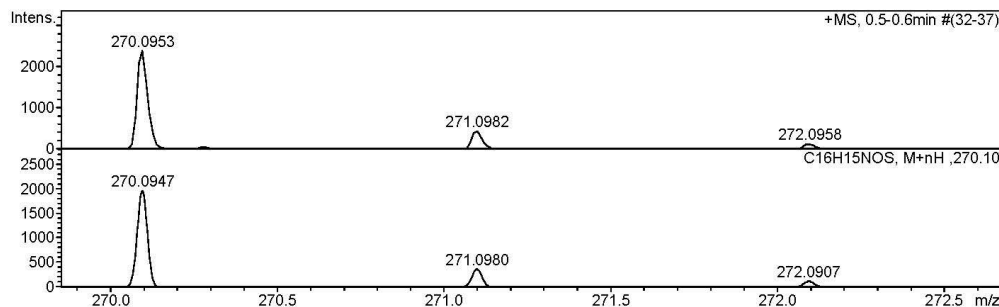
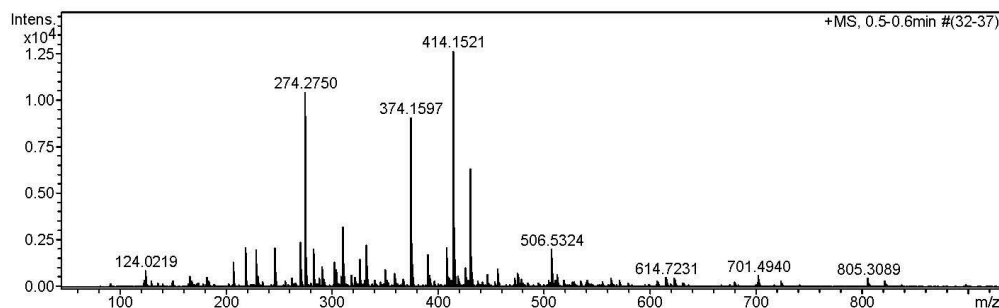
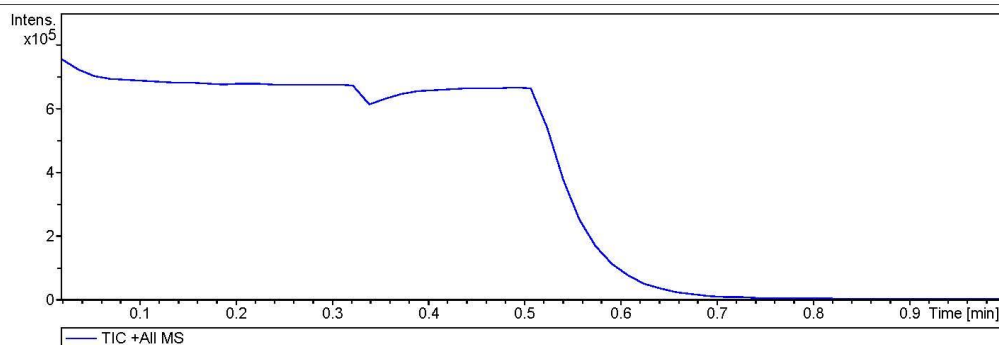


Display Report

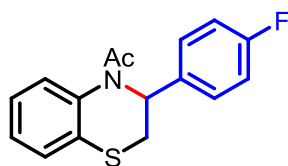
Analysis Info		Acquisition Date	6/4/2015 10:39:53 AM
Analysis Name	D:\Data\user data\2015\JUNE-2015\04-june-2015\Dr.S.Kumar-DP-535-E.d	Operator	RUCHI
Method	tune_low.m	Instrument	micrOTOF-Q II 10330
Sample Name	DP-535-E		
Comment			

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.4 Bar
Focus	Not active	Set Capillary	4600 V	Set Dry Heater	180 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	4.0 l/min
Scan End	3000 m/z	Set Collision Cell RF	130.0 Vpp	Set Divert Valve	Source



HRMS spectra of compound 2c

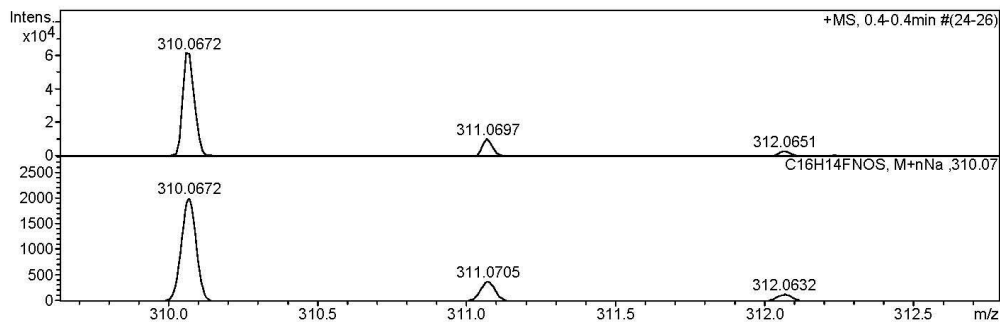
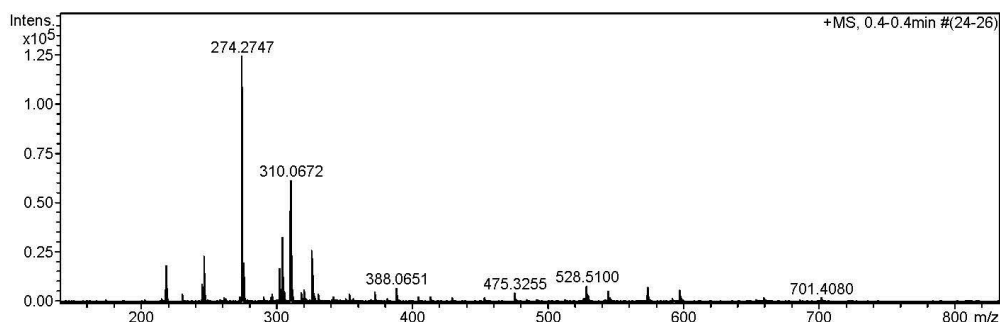
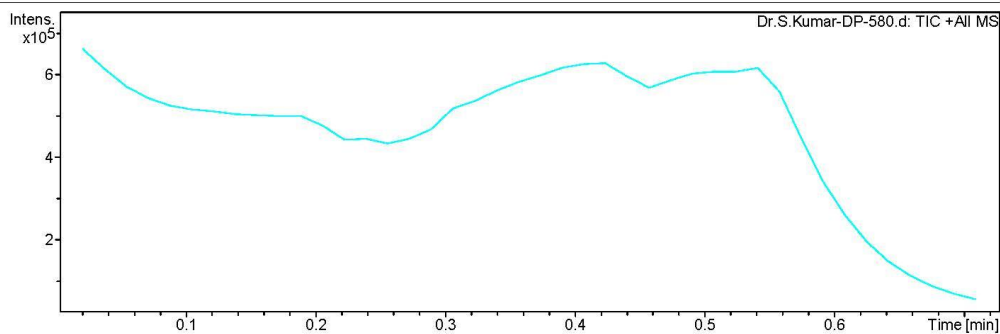


Display Report

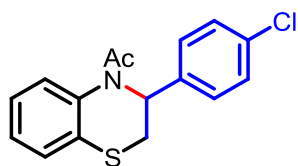
Analysis Info		Acquisition Date	4/24/2015 4:46:02 PM
Analysis Name	D:\Data\user data\2015\April-2015\24-April-2015\Dr.S.Kumar-DP-580.d	Operator	RUCHI
Method	tune_low.m	Instrument	micrOTOF-Q II 10330
Sample Name	DP-580		
Comment			

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.4 Bar
Focus	Not active	Set Capillary	4600 V	Set Dry Heater	180 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	4.0 l/min
Scan End	3000 m/z	Set Collision Cell RF	130.0 Vpp	Set Divert Valve	Waste



HRMS spectra of compound **2d**

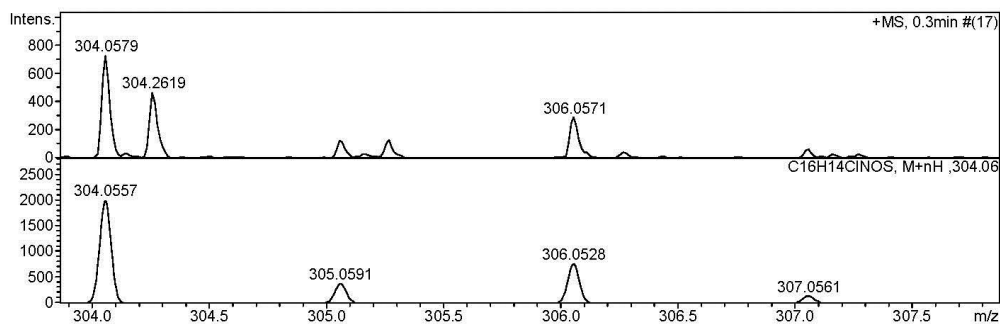
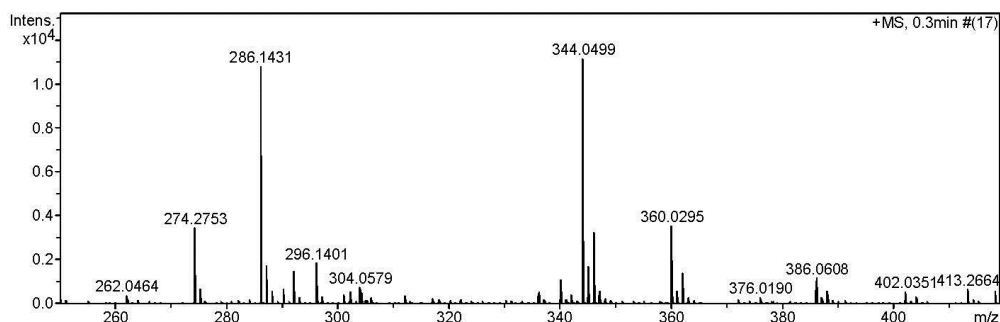
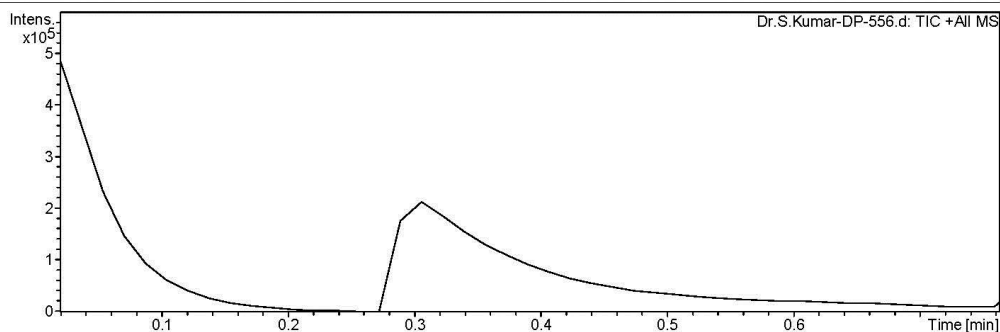


Display Report

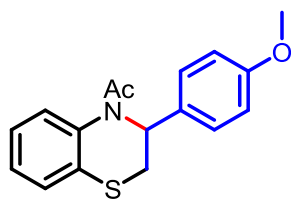
Analysis Info		Acquisition Date	4/24/2015 4:32:26 PM
Analysis Name	D:\Data\user data\2015\April-2015\24-April-2015\Dr.S.Kumar-DP-556.d	Operator	RUCHI
Method	tune_low.m	Instrument	micrOTOF-Q II 10330
Sample Name	DP-556		
Comment			

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.4 Bar
Focus	Not active	Set Capillary	4600 V	Set Dry Heater	180 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	4.0 l/min
Scan End	3000 m/z	Set Collision Cell RF	130.0 Vpp	Set Divert Valve	Waste



HRMS spectra of compound 2e



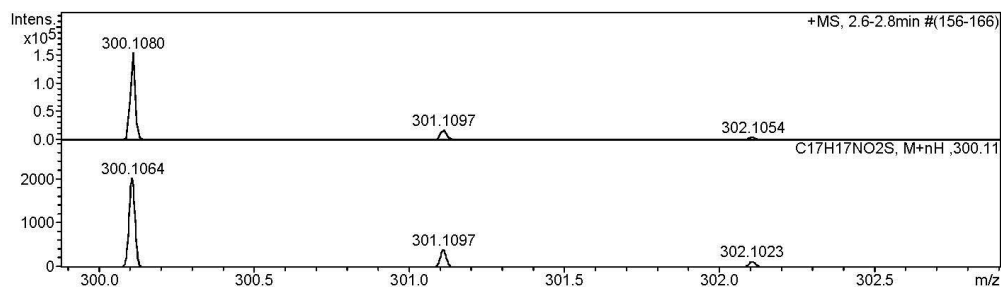
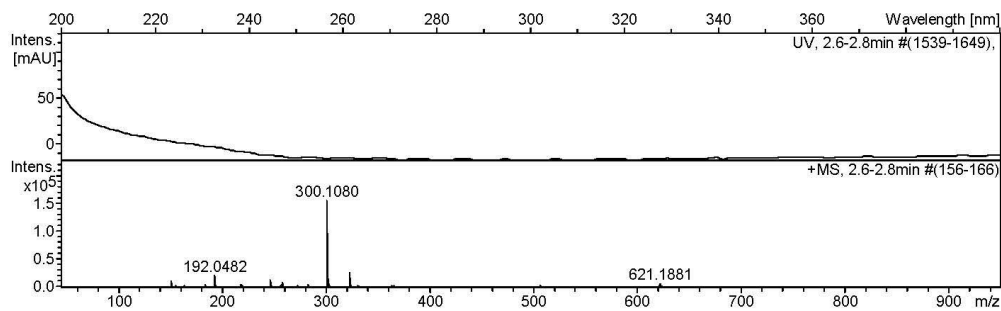
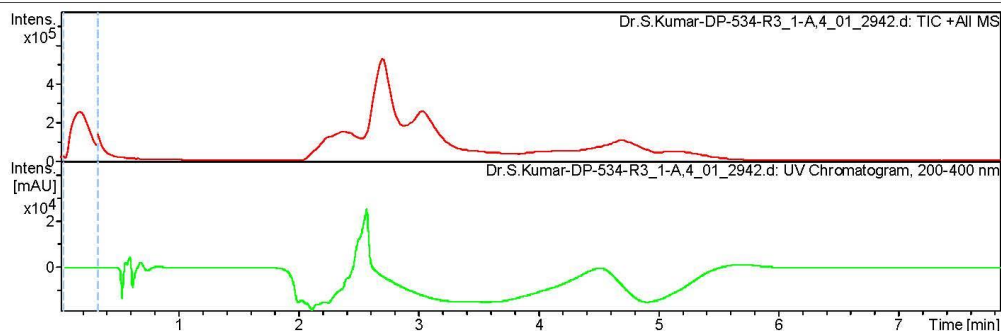
Display Report

Analysis Info

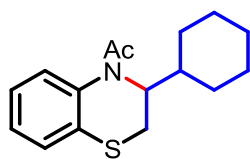
Analysis Name	D:\Data\user data\2015\JUNE-2015\29-JUNE-2015\Dr.S.Kumar-DP-534-R3_1-A,4_01_2942.d	Acquisition Date	6/29/2015 1:26:44 PM
Method	HRLCMS-20 Sept.m	Operator	RUCHI
Sample Name	Dr.S.Kumar-DP-534-R3	Instrument	micrOTOF-Q II 10330
Comment			

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	1.2 Bar
Focus	Active	Set Capillary	4500 V	Set Dry Heater	200 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	7.0 l/min
Scan End	3000 m/z	Set Collision Cell RF	130.0 Vpp	Set Divert Valve	Waste



HRMS spectra of compound 2f



Qualitative Compound Report

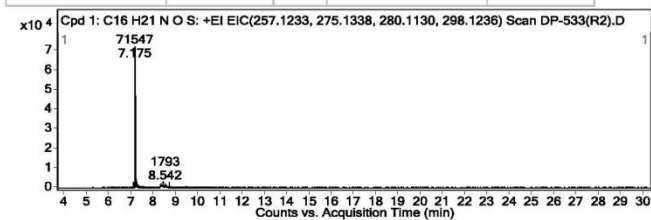
Data File DP-533(R2).D **Sample Name** DP-533(R2)
Sample Type **Position** 2
Instrument Name GCQTOF **User Name** Agilent-PC\admin
Acq Method IISER_GENERAL_HP5_80_V30.M **Acquired Time** 05-Jun-15 5:11:32 PM
IRM Calibration Status Success **DA Method** iSER13MAY 2013.m
Comment

Expected Barcode **Sample Amount**
Dual Inj Vol 0.1 **TuneName** Install_tune.ei.tune_1_4_13.tune.xml
TunePath D:\MassHunter\GCMS\1\7200 **TuneDateStamp** 41954.1706
MSFirmwareVersion G.7200.01.09 **OperatorName** Agilent-PC\admin
RunCompletedFlag TRUE

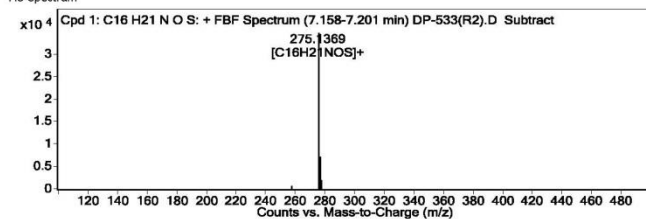
Compound Table

Compound Label	RT	Mass	Abund	Formula	Tgt Mass	Diff (ppm)	MFG Formula	DB Formula
Cpd 1: C16 H21 N O S	7.175	275.1375	34844	C16 H21 N O S	275.1344	11.3	C16 H21 N O S	C16 H21 N O S

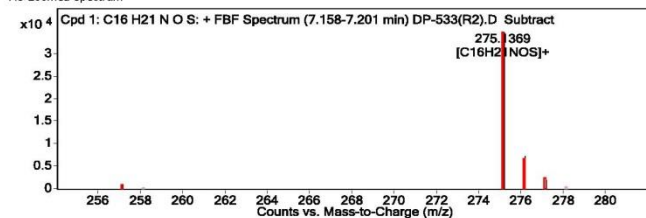
Compound Label	m/z	RT	Algorithm	Mass
Cpd 1: C16 H21 N O S	275.1369	7.175	Find By Formula	275.1375



MS Spectrum



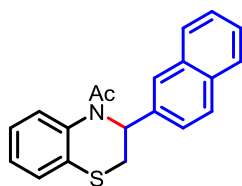
MS Zoomed Spectrum



MS Spectrum Peak List

m/z	z	Abund	Formula	Ion
257.1255	1	891.77	C16H21NOS	M+[-H2O]
275.1369	1	34843.55	C16H21NOS	M+
276.1403	1	7313.62	C16H21NOS	M+

HRMS spectra of compound 2g

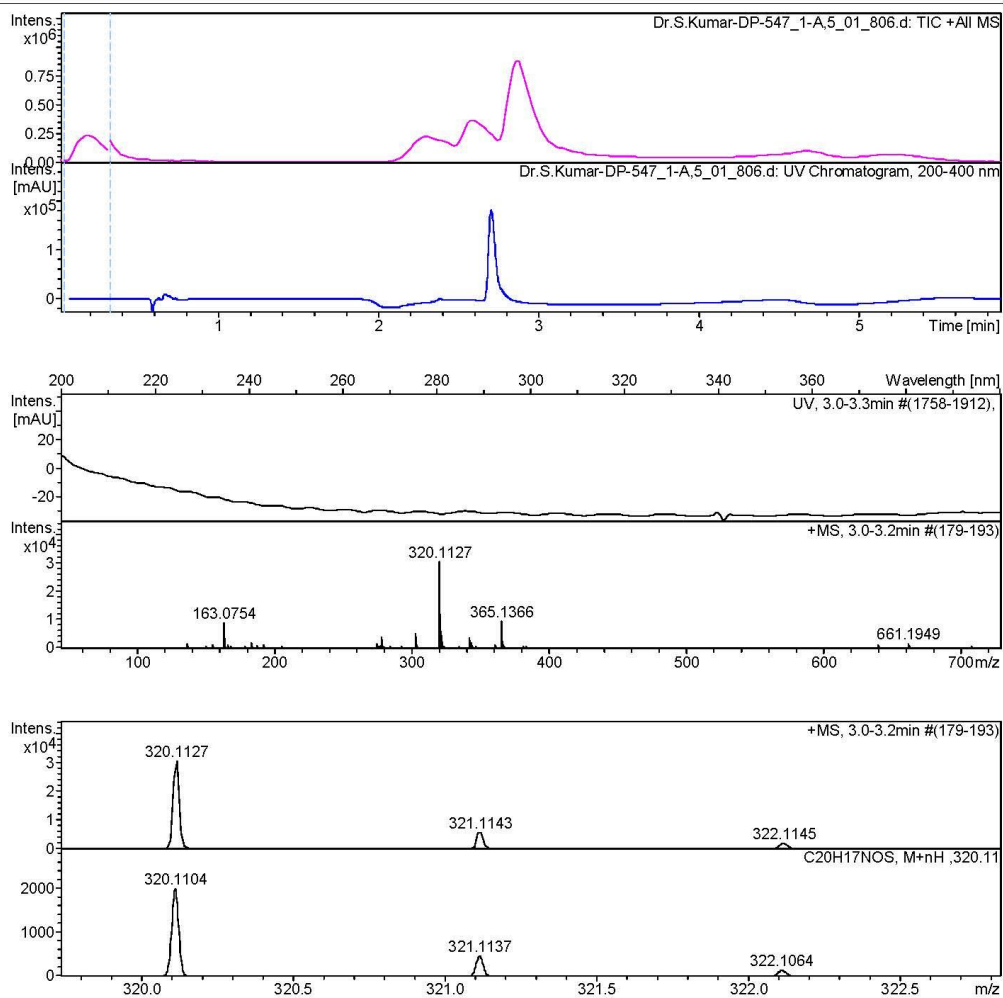


Display Report

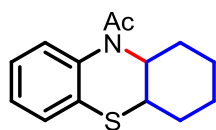
Analysis Info		Acquisition Date	11/18/2014 11:59:52 PM
Analysis Name	D:\Data\user data\2014\NOVEMBER\19 NOV\Dr.S.Kumar-DP-547_1-A,5_01_806.d	Operator	RUCHI
Method	HRLCMS-20 Sept.m	Instrument	microTOF-Q II 10330
Sample Name	Dr.S.Kumar-DP-547		
Comment			

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	1.2 Bar
Focus	Active	Set Capillary	4500 V	Set Dry Heater	200 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	7.0 l/min
Scan End	3000 m/z	Set Collision Cell RF	130.0 Vpp	Set Divert Valve	Waste



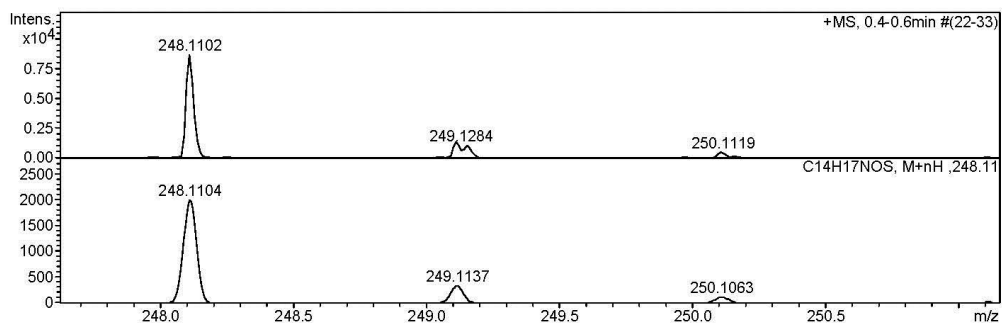
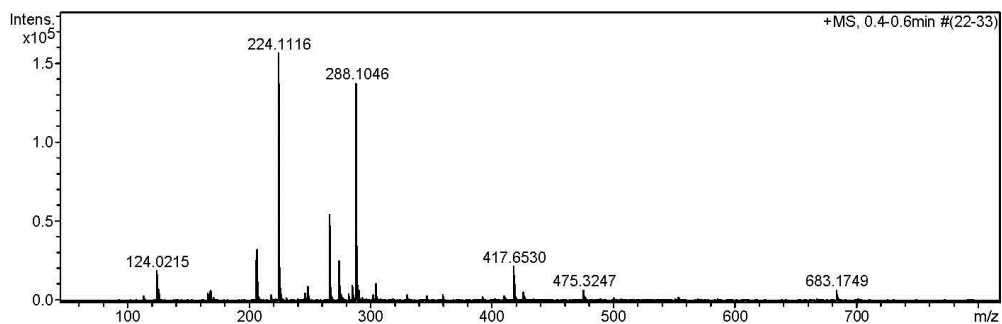
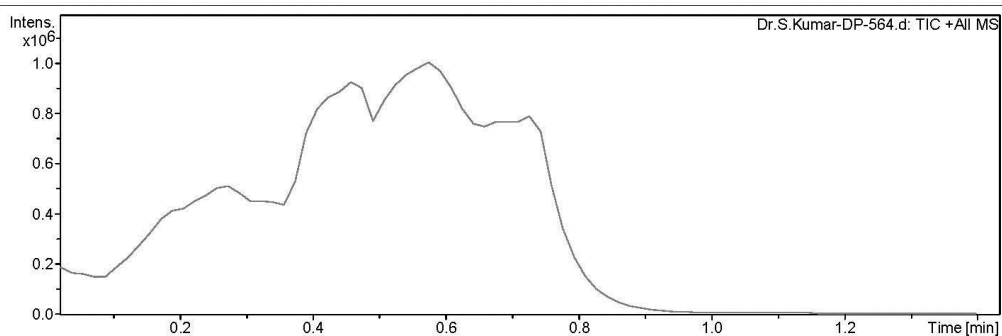
HRMS spectra of compound 2h



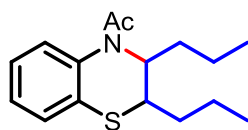
Display Report

Analysis Info
Analysis Name: D:\Data\user data\2015\JUNE-2015\02-JUNE-2015\Dr.S.Kumar-DP-564.d
Method: tune_low.m
Sample Name: DP-564
Comment:
Acquisition Date: 6/2/2015 4:42:50 PM
Operator: RUCHI
Instrument: micrOTOF-Q II 10330

Acquisition Parameter
Source Type: ESI
Focus: Not active
Scan Begin: 50 m/z
Scan End: 3000 m/z
Ion Polarity: Positive
Set Capillary: 4600 V
Set End Plate Offset: -500 V
Set Collision Cell RF: 130.0 Vpp
Set Nebulizer: 0.4 Bar
Set Dry Heater: 180 °C
Set Dry Gas: 4.0 l/min
Set Divert Valve: Waste



HRMS spectra of compound 2i

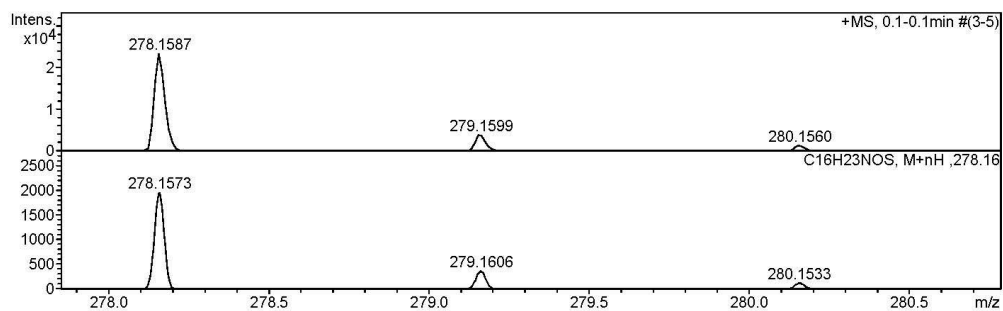
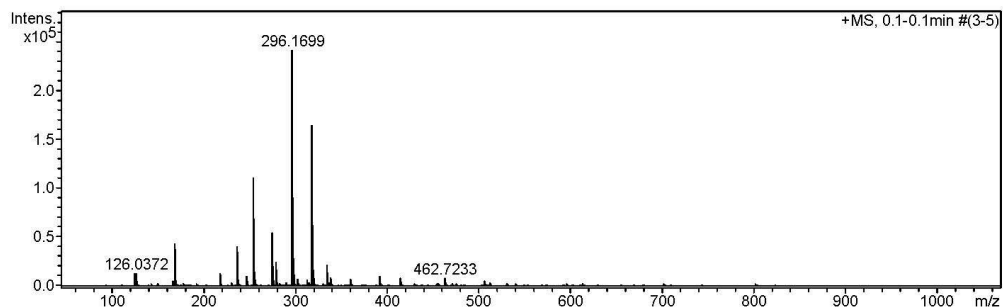
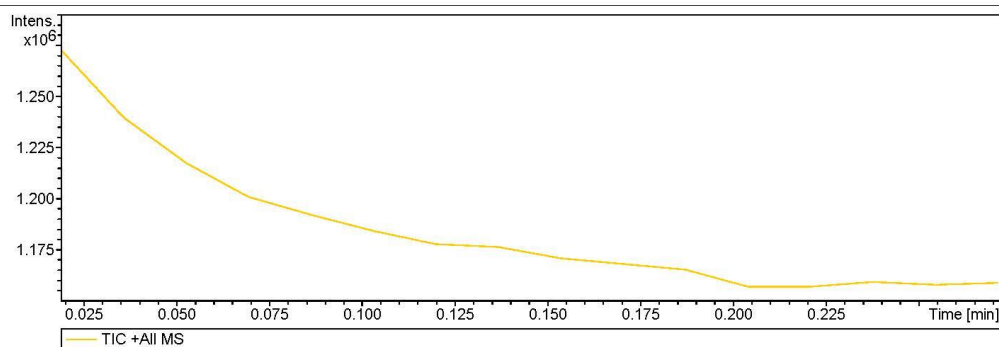


Display Report

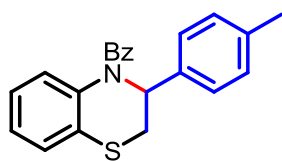
Analysis Info		Acquisition Date	6/4/2015 10:42:06 AM
Analysis Name	D:\Data\user data\2015\JUNE-2015\04-june-2015\Dr.S.Kumar-DP-536-R2.d	Operator	RUCHI
Method	tune_low.m	Instrument	micrOTOF-Q II 10330
Sample Name	DP-536-R2		
Comment			

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.4 Bar
Focus	Not active	Set Capillary	4600 V	Set Dry Heater	180 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	4.0 l/min
Scan End	3000 m/z	Set Collision Cell RF	130.0 Vpp	Set Divert Valve	Waste



HRMS spectra of compound 2j

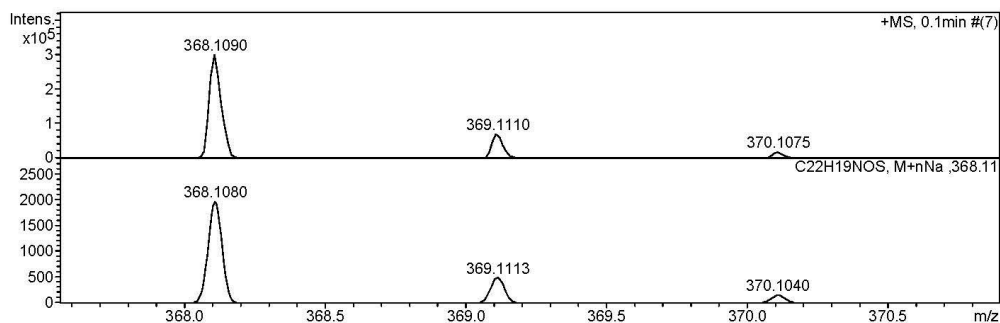
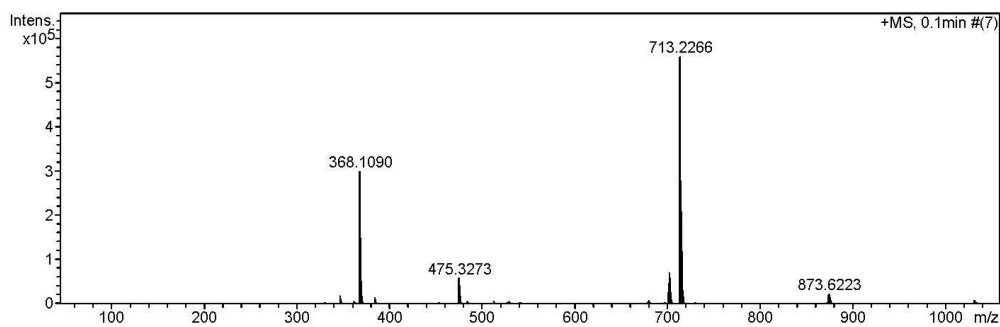
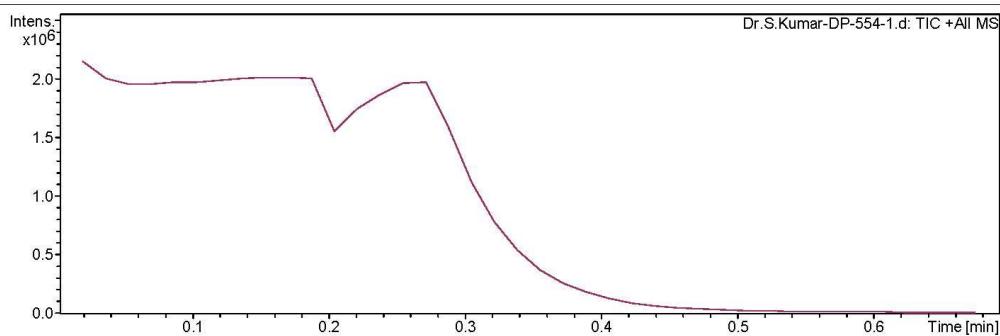


Display Report

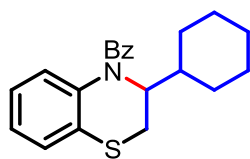
Analysis Info		Acquisition Date	6/1/2015 5:01:46 PM
Analysis Name	D:\Data\user data\2015\JUNE-2015\01-JUNE-2015\Dr.S.Kumar-DP-554-1.d	Operator	RUCHI
Method	tune_wide.m	Instrument	micrOTOF-Q II 10330
Sample Name	DP-554-1		
Comment			

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.4 Bar
Focus	Not active	Set Capillary	4500 V	Set Dry Heater	180 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	4.0 l/min
Scan End	3000 m/z	Set Collision Cell RF	600.0 Vpp	Set Divert Valve	Waste



HRMS spectra of compound 2k



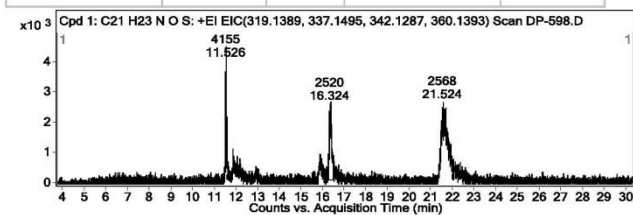
Qualitative Compound Report

Data File DP-598.D **Sample Name** DP-598
Sample Type **Position** 1
Instrument Name GCQTOF **User Name** Agilent-PC\admin
Acq Method IISER_GENERAL_HP5_80_V30.M **Acquired Time** 05-Jun-15 4:38:34 PM
IRM Calibration Status Success **DA Method** IISER13MAY 2013.m
Comment
Expected Barcode **Sample Amount**
Dual Inj Vol 0.1 **TuneName** Install_tune.ei.tune_1_4_13.tune.xml
TunePath D:\MassHunter\GCMS\117200 **TuneDateStamp** 41954.1706
MSFirmwareVersion G.7200.01.09 **OperatorName** Agilent-PC\admin
RunCompletedFlag TRUE

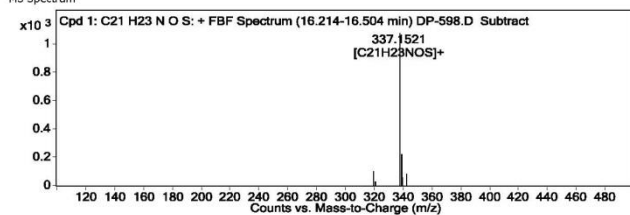
Compound Table

Compound Label	RT	Mass	Abund	Formula	Tgt Mass	DRT (ppm)	MFG Formula	DB Formula
Cpd 1: C21 H23 N O S	16.324	337.1513	1079	C21 H23 N O S	337.15	3.68	C21 H23 N O S	C21 H23 N O S

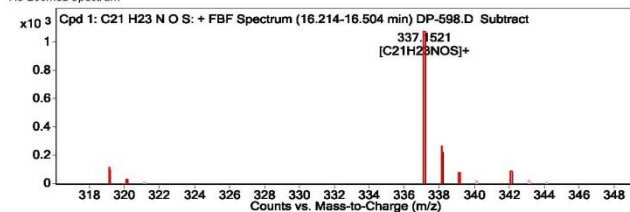
Compound Label	m/z	RT	Algorithm	Mass
Cpd 1: C21 H23 N O S	337.1521	16.324	Find By Formula	337.1513



MS Spectrum



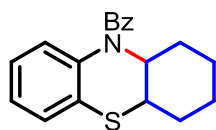
MS Zoomed Spectrum



MS Spectrum Peak List

m/z	z	Abund	Formula	Ion
319.1399	1	103.38	C21H23NOS	M+[-H2O]
320.1485	1	31.97	C21H23NOS	M+[-H2O]
337.1521	1	1079.15	C21H23NOS	M+
338.1541	1	227.3	C21H23NOS	M+
339.1374	1	60.86	C21H23NOS	M+

HRMS spectra of compound 21

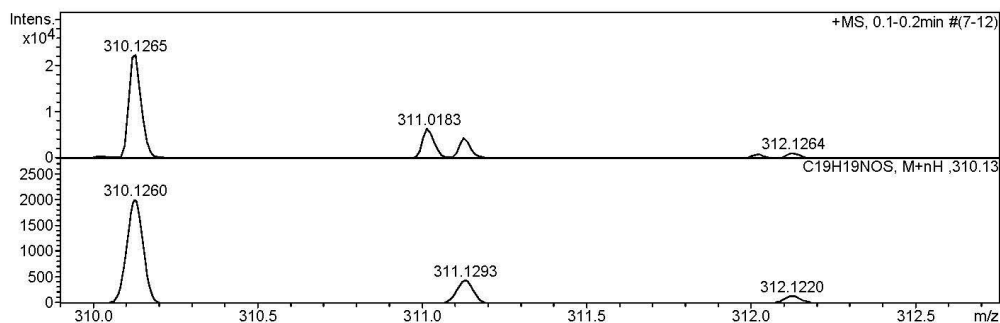
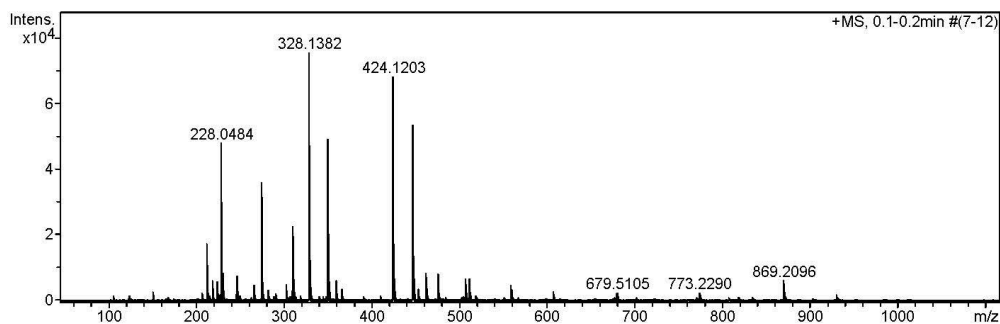
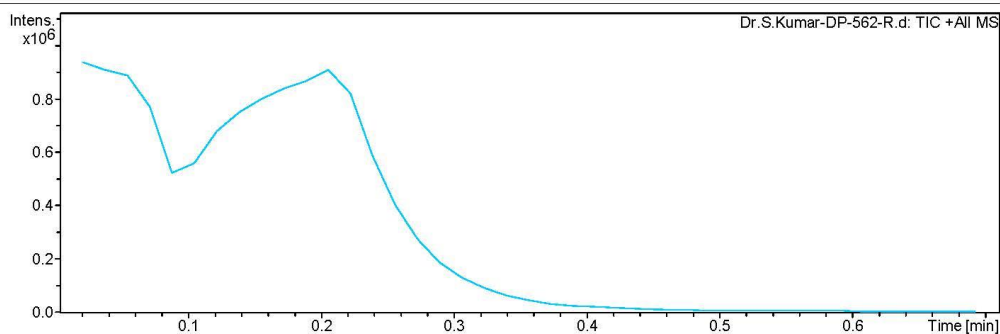


Display Report

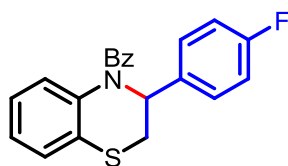
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Analysis Name	D:\Data\user data\2015\JUNE-2015\02-JUNE-2015\Dr.S.Kumar-DP-562-R.d	Operator	RUCHI
Method	tune_low.m	Instrument	micrOTOF-Q II 10330
Sample Name	DP-562-R		
Comment			

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.4 Bar
Focus	Not active	Set Capillary	4600 V	Set Dry Heater	180 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	4.0 l/min
Scan End	3000 m/z	Set Collision Cell RF	130.0 Vpp	Set Divert Valve	Waste



HRMS spectra of compound 3a

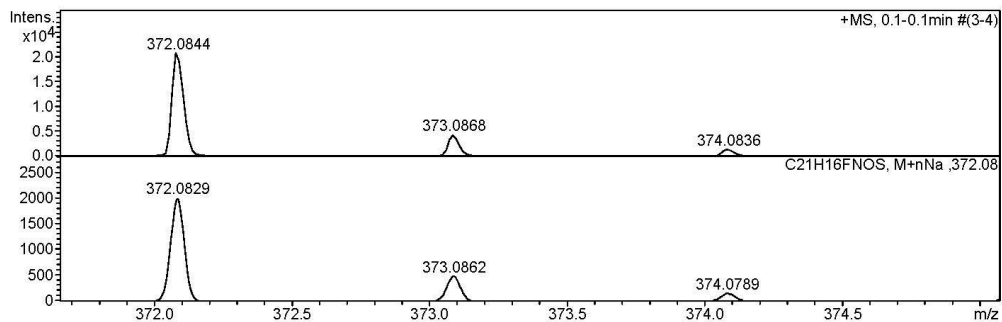
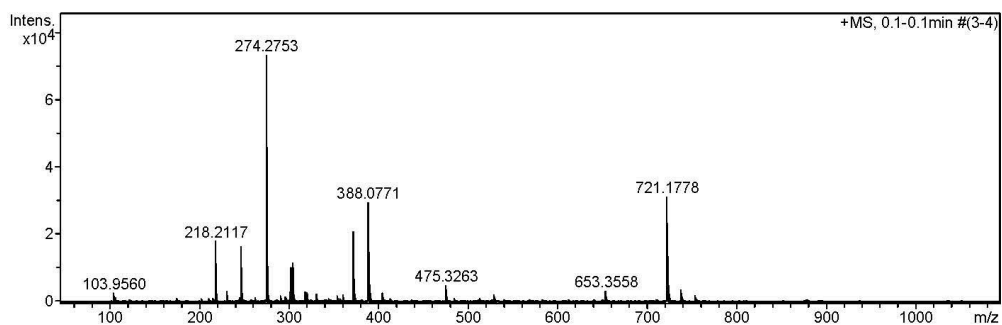
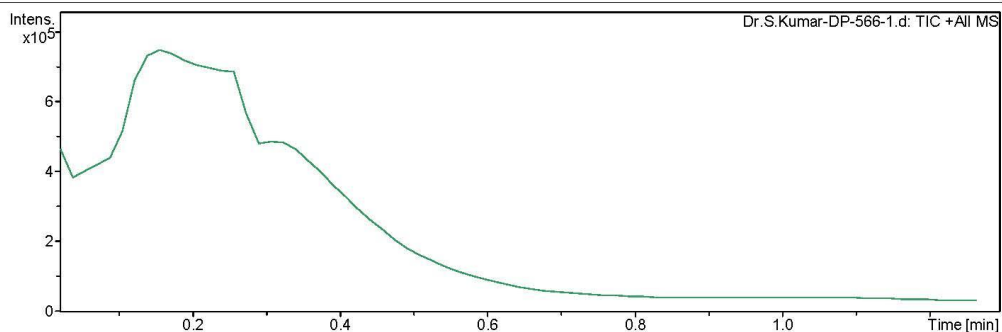


Display Report

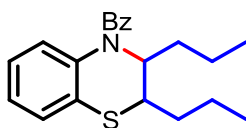
Analysis Info		Acquisition Date	4/24/2015 4:43:39 PM
Analysis Name	D:\Data\user data\2015\April-2015\24-April-2015\Dr.S.Kumar-DP-566-1.d	Operator	RUCHI
Method	tune_low.m	Instrument	micrOTOF-Q II 10330
Sample Name	DP-566-1		
Comment			

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.4 Bar
Focus	Not active	Set Capillary	4600 V	Set Dry Heater	180 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	4.0 l/min
Scan End	3000 m/z	Set Collision Cell RF	130.0 Vpp	Set Divert Valve	Waste



HRMS spectra of compound **3b**



Display Report

Analysis Info		Acquisition Date	6/4/2015 10:47:06 AM
Analysis Name	D:\Data\user data\2015\JUNE-2015\04-june-2015\Dr.S.Kumar-DP-605.d	Operator	RUCHI
Method	tune_low.m	Instrument	micrOTOF-Q II 10330
Sample Name	DP-605		
Comment			

Acquisition Parameter

Source Type	ESI	Ion Polarity	Positive	Set Nebulizer	0.4 Bar
Focus	Not active	Set Capillary	4600 V	Set Dry Heater	180 °C
Scan Begin	50 m/z	Set End Plate Offset	-500 V	Set Dry Gas	4.0 l/min
Scan End	3000 m/z	Set Collision Cell RF	430.0 Vpp	Set Divert Valve	Waste

