

## Instrument Information

<b>MS Model</b>	G6550A	<b>Run Date</b>	03:26:21 11:09:03
<b>Serial Number</b>	SG1436B001	<b>Firmware Rev</b>	14.723
<b>Instrument Mode</b>	Extended Dynamic Range (2GHz)	<b>Slicer Mode</b>	High Resolution (Position: 6)
<b>Mass Range</b>	Standard (3200 m/z)	<b>Source Type</b>	Dual AJS ESI
<b>Ion Polarity</b>	Positive		
<b>Data Path</b>	C:\MassHunter\Tune\QTOF\Reports\Q-TOFSystemTune_Positive_20210326_110903\Q-TOFSystemTune_Positive_20210326_110903.tun		

## Positive Polarity Results

### Quad Results

#### Wide

<b>Width Target</b>	9.00	<b>Mass Tolerance</b>	1.00	<b>Width Tolerance</b>	1.00
<b>m/z Target</b>	<b>Mass Delta</b>	<b>Width Delta</b>	<b>Efficiency (%)</b>	<b>Score</b>	<b>Result</b>
322.05	-0.04	-0.03	100	100	Passed
2121.93	-0.23	0.24	65	88	Passed
<b>Width Gain</b>		1878	<b>Width Offset</b>		673
<b>Mass Gain</b>		1196	<b>Mass Offset</b>		2792
<b>Isolation Efficiency</b>		83	<b>Score</b>		92
<b>Result</b>		Passed			

#### Medium

<b>Width Target</b>	4.00	<b>Mass Tolerance</b>	.50	<b>Width Tolerance</b>	.50
<b>m/z Target</b>	<b>Mass Delta</b>	<b>Width Delta</b>	<b>Efficiency (%)</b>	<b>Score</b>	<b>Result</b>
322.05	-0.02	-0.08	95	97	Passed
2121.93	-0.23	0.25	60	58	Passed
<b>Width Gain</b>		1887	<b>Width Offset</b>		1490
<b>Mass Gain</b>		1201	<b>Mass Offset</b>		2427
<b>Isolation Efficiency</b>		77	<b>Score</b>		65
<b>Result</b>		Passed			

#### Narrow

<b>Width Target</b>	1.30	<b>Mass Tolerance</b>	.15	<b>Width Tolerance</b>	.15
<b>m/z Target</b>	<b>Mass Delta</b>	<b>Width Delta</b>	<b>Efficiency (%)</b>	<b>Score</b>	<b>Result</b>
322.05	0.01	0.02	77	98	Passed
2121.93	-0.02	0.07	34	79	Passed
<b>Width Gain</b>		1902	<b>Width Offset</b>		1935
<b>Mass Gain</b>		1210	<b>Mass Offset</b>		2223
<b>Isolation Efficiency</b>		55	<b>Score</b>		88
<b>Result</b>		Passed			

#### Lens 2

<b>Lens 2 Phase</b>	270.0					
<b>Mass</b>	118.1	322.0	922.0	1522.0	2121.9	2721.9
<b>RF Voltage</b>	.0	26.4	128.2	180.9	253.9	308.4
<b>DC Voltage</b>	4.9	17.6	14.0	4.5	.8	1.1

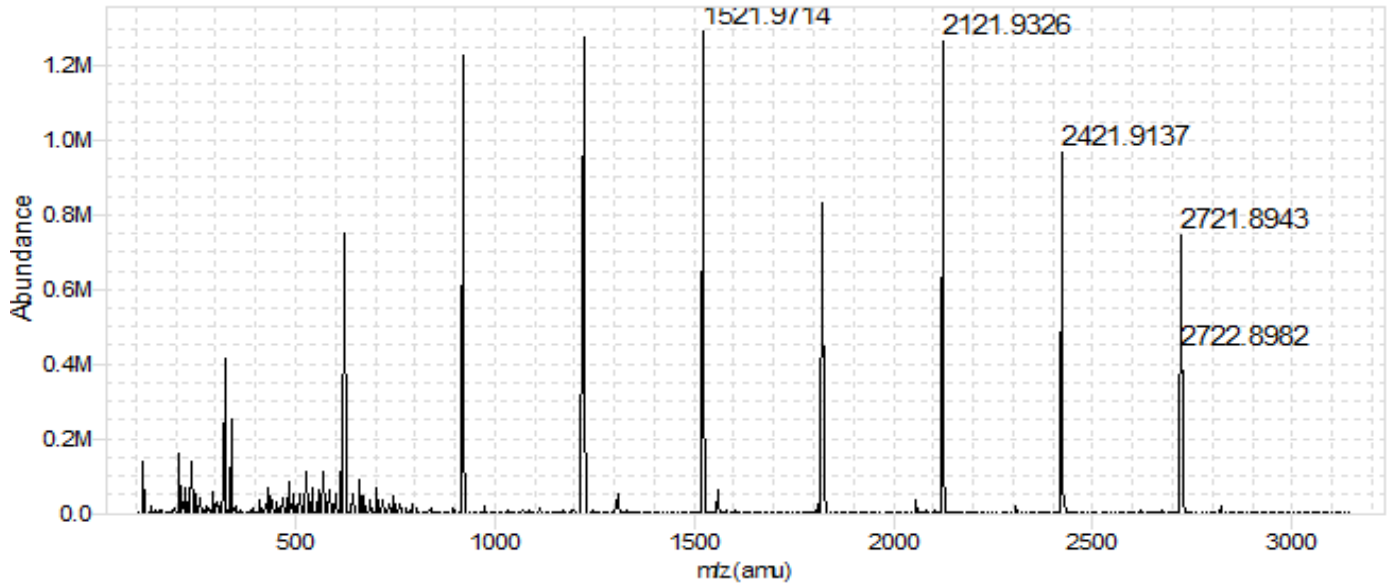
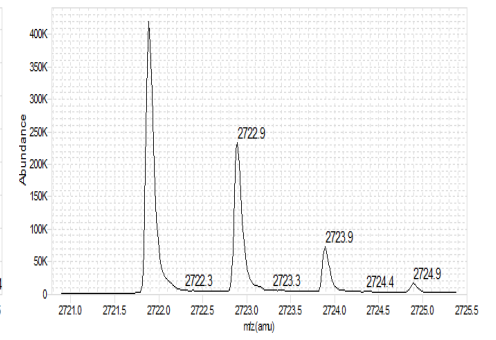
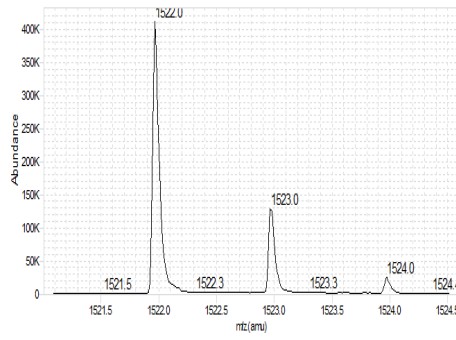
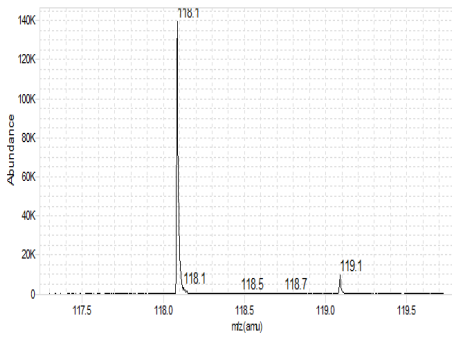
#### Total Ion

<b>Quad AMU</b>	115.9
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#### Quad Overall

<b>Overall Score</b>	81	<b>Overall Result</b>	Passed
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## TOF Results



## TOF Mass Calibration Data

Theoretical	Actual	Time	Abundance	Calibration Abundance	Resolution	Primary Residuals	Corrected Residuals
118.086255	118.086255	32.422451	139,804	147,928	10,709	-1.65	0.00
322.048121	322.048124	52.884266	422,316	441,308	17,382	2.31	0.01
622.028960	622.028955	73.102774	769,175	445,835	21,230	1.27	-0.01
922.009798	922.009772	88.781152	1,224,671	413,271	23,439	0.57	-0.03
1221.990636	1221.990695	102.055406	1,337,842	425,003	25,151	0.42	0.05
1521.971475	1521.971497	113.777747	1,287,034	414,155	26,336	0.19	0.01
1821.952313	1821.952230	124.391305	827,322	421,670	27,513	-0.25	-0.05
2121.933152	2121.933098	134.161499	1,293,141	435,676	27,657	-0.74	-0.03
2421.913990	2421.914132	143.262223	965,989	449,610	28,774	-1.06	0.06
2721.894828	2721.894769	151.814746	746,830	412,109	29,090	-1.07	-0.02

## Setpoints

Source Settings			
Gas Temperature	225	Drying Gas	13.0
Nebulizer Pressures	20	Capillary	4000
Sheath Gas Temperature	275	Sheath Gas Flow	12.0
Nozzle Voltage	2000		
Source Actuals			
Gas Temperature	225	Drying Gas	12.9
Nebulizer Pressures	20	Capillary	3992
Cap Current	5.175	Chamber Current	6.12
Ion Funnel			
Funnel DC	50.0	HP Funnel dV	150.0
HP Funnel RF	200.0	LP Funnel dV	100.0
LP Funnel RF	100.0		
Optics 1			
Fragmentor	360	Oct 1 RF Vpp	750
Oct 1 DC	26.9	Lens 1	25.4
Lens 2	16.1	Lens 2 RF Enable	1
Lens 2 RF Voltage	0	Lens 2 RF Phase	270
Quad			
TTI Quad AMU	115.9	Quad DC	24.0
Post Filter DC	23.9		
Cell			
Collision Cell Gas Flow	22.0	Hex RF	550
Hex DC	21.0	Hex Delta	-7.0
Cell Entrance	22.3	Hex 2 RF	600
Hex 2 DC	14.0	Hex 2 DV	-1.0
Optics 2			
Ion Focus	8.5	Extractor DC	-8.6
Lens 3	-59.4	Bottom Slit	-46.70
Top Slit	-48.40	Hex 3 DC	12.8
TOF			
Pusher	1200	Pusher Offset	0
Puller	-700	Puller Offset	28
Acc Focus	-1950	Front Mirror	-7000
Mid Mirror	-1671.2	Back Mirror	1250
Minimum Mass	100	Maximum Mass	3200
Acquisition Rate	1.0	Acquisition Time	1000
#Transients / Spectrum	5904	Acq Hold Off Delay (ns)	20000
Detector			
MCP	771	PreAmpOffset	29843
Low Gain PreAmpOffset	33594	Gain Abund Ratio	12.0
Gain T0 Offset	-0.088		
Vacuum And Temperatures			
Quad Temp	100	Rough Vac	2.58E+00
Quad Vac	3.20E-05	TOF Vac	5.03E-07
Turbo 1 Speed	100.0	Turbo 1 Power	133
Turbo 2 Speed	99.3	Turbo 2 Power	32

## TOF Mass Calibration Coefficients

<b>a</b>	3459.605E-04	<b>t0</b>	1012.095E-03	<b>a2</b>	-6466.435E-09
<b>b2</b>	4024.586E-10	<b>c2</b>	-9108.423E-12	<b>d2</b>	9764.185E-14
<b>e2</b>	-5029.704E-16	<b>f2</b>	1000.716E-18	<b>Term Flag</b>	0x00FC
<b>Trad</b>	1	<b>Poly</b>	6		