

Validation Review

Procedure modification to the acceptance criteria
in the weekly maintenance of the GC/MS

Check the appropriate box: New Validation ☐ Modification ☒ Performance Check ☐

Sign and Date to indicate your acceptance of the procedure/instrument:

Examiner (if applicable) [Signature] Date 1-23-19
Unit Supervisor Glenn B. Everett Date 1-23-19
Technical Leader (if different than Supervisor) Glenn B. Everett Date 1-23-19
Crime Laboratory Regional Supervisor [Signature] Date 1-23-19
Quality Assurance Manager [Signature] Date 01-23-19

*All information must be submitted to the Quality Assurance Manager prior to the implementation of the procedure/instrument. If all technical staff training has not been completed, please include a proposed training plan and completion schedule.

Justification reflecting change of policy of %H₂O from 5.0% to 10.0%.

Upon review of tune data for all GC/MS instruments of the Forensic Chemistry Unit from 5-14-2018 to present (with the exception of GC/MS instrument, Java, noted on 2-12-2018) there were fifteen (15) incidences on four (4) separate instruments where the %H₂O was 5.0% or higher. The incidences for each instrument were as follows:

Kenny

6-5-2018	6.4% *
6-28-2018	5.8%
7-19-2018	5.7%
7-26-2018	5.2%
8-2-2018	5.3%
8-10-2018	5.0% *
8-24-2018	7.0%
9-13-2018	7.1%
9-24-2018	16.3% *
10-4-2018	5.1%
10-17-2018	6.7% *

Espresso

6-4-2018	6.48%
6-7-2018	6.92% *

Java

2-12-2018	5.33% *
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Donna2

10-24-2018	9.71% *
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*Calibration standard mixture analyzed under these tune parameters.

On seven (7) of the incidences a calibration standard mixture of pethidine, cocaine and hydrocodone was analyzed demonstrating the higher %H₂O ranging from 5.0% to 16.3% did not affect the data acquisition nor the identification of the compounds. It is therefore recommended that policy reflect a change in acceptance criterion for %H₂O from 5.0% to 10.0%. Although, as noted, that the higher %H₂O does not adversely affect the data and resulting identification of compounds, prolonged conditions over these values would not be favorable to the analyzer and the service longevity of its components.

To further validate the above position opportunity arose with the instrument identified as Eggroll requiring extensive maintenance that would expose the system to atmosphere for approximately four (4) days. Upon reassembly on 12-17-2018, the system was purposefully prepared for tune analysis prematurely to induce a higher %H₂O. The calibration standard mixture was then analyzed under the tune parameters including the %H₂O of 9.19% demonstrating this elevation does not affect the identification of the compounds. The subsequent tune and calibration standard mixture analysis on 12-18-2018 displays compliance within the specified ranges and that time to acclimate after such atmospheric exposure is advisable to consider when returning an instrument to service.

A further measure to insure compliance of acceptance range values is to log the numerical value to thwart inadvertent oversight of said values.

The following data included:

- Tune data of fifteen (15) incidences displaying %H₂O at or above 5.0%.
- Mass spectral data of seven (7) of those incidences demonstrating the identification of calibration standard mixture compounds.
- Data from Eggroll demonstrating compliance of values upon system acclimation after one day.
- Log of tune ranges

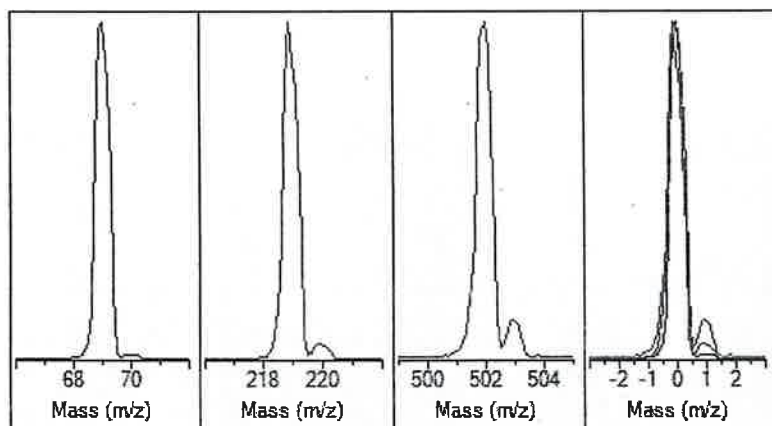
Autotune - 5977

Tune timestamp: 6/5/2018 11:59 AM (UTC-05:00)

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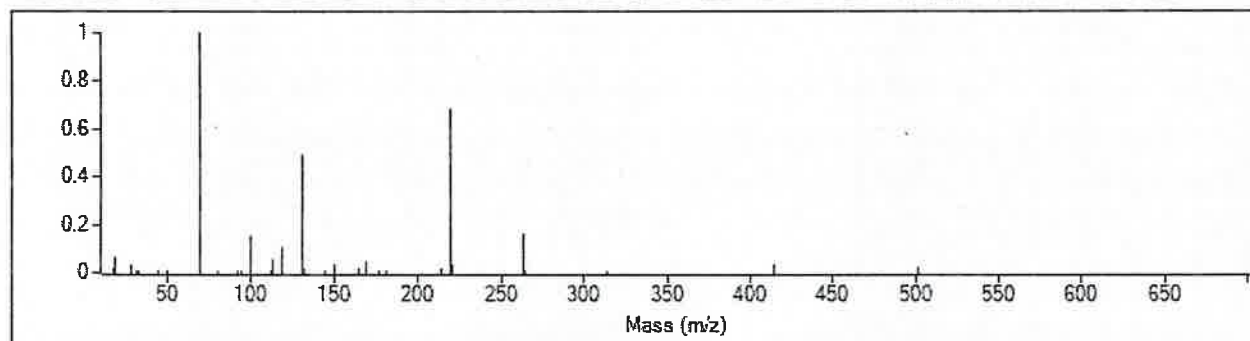
Ion Polarity	Pos	PFTBA	Open
Emission	34.6	Mass Gain	446
Electron Energy	70.0	Mass Offset	-24
Filament	2	Amu Gain	3055
Repeller	32.51	Amu Offset	138.63
Ion Focus	90.3	Width219	0.002
Entrance Lens	20.2	DC Polarity	Neg
Ent Lens Offset	13.23	HED Enable	On
Ion Body	0.00	EM Volts	902.2
Post Extractor 1	0	Extractor Lens	0.00
Post Extractor 2	0	Scan Speed	3
JetClean Flow	0	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	460,760	100.0%	0.60
218.90	323,585	70.2%	0.60
502.00	11,745	2.5%	0.60

Temperatures and Pressures

MS Source	230 Turbo Speed	100.0
MS Quad	150 HI Vac	9.81e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	120	69.00	437,632	1,382,046



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	437,632	100.0%	70.00	4,679	1.1%
219.00	219.00	297,344	67.9%	220.00	12,579	4.2%
502.00	502.00	10,907	2.5%	503.00	1,096	10.0%

Air/Water Check: H2O ~6.4% N2 ~3.3% O2 ~0.9% CO2 ~0.4% N2/H2O ~51.9%

Column(1) Flow: 1.00 Column(2): 3.35 ml/min Interface Temp: 200

Ramp Criteria:

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 52940.953

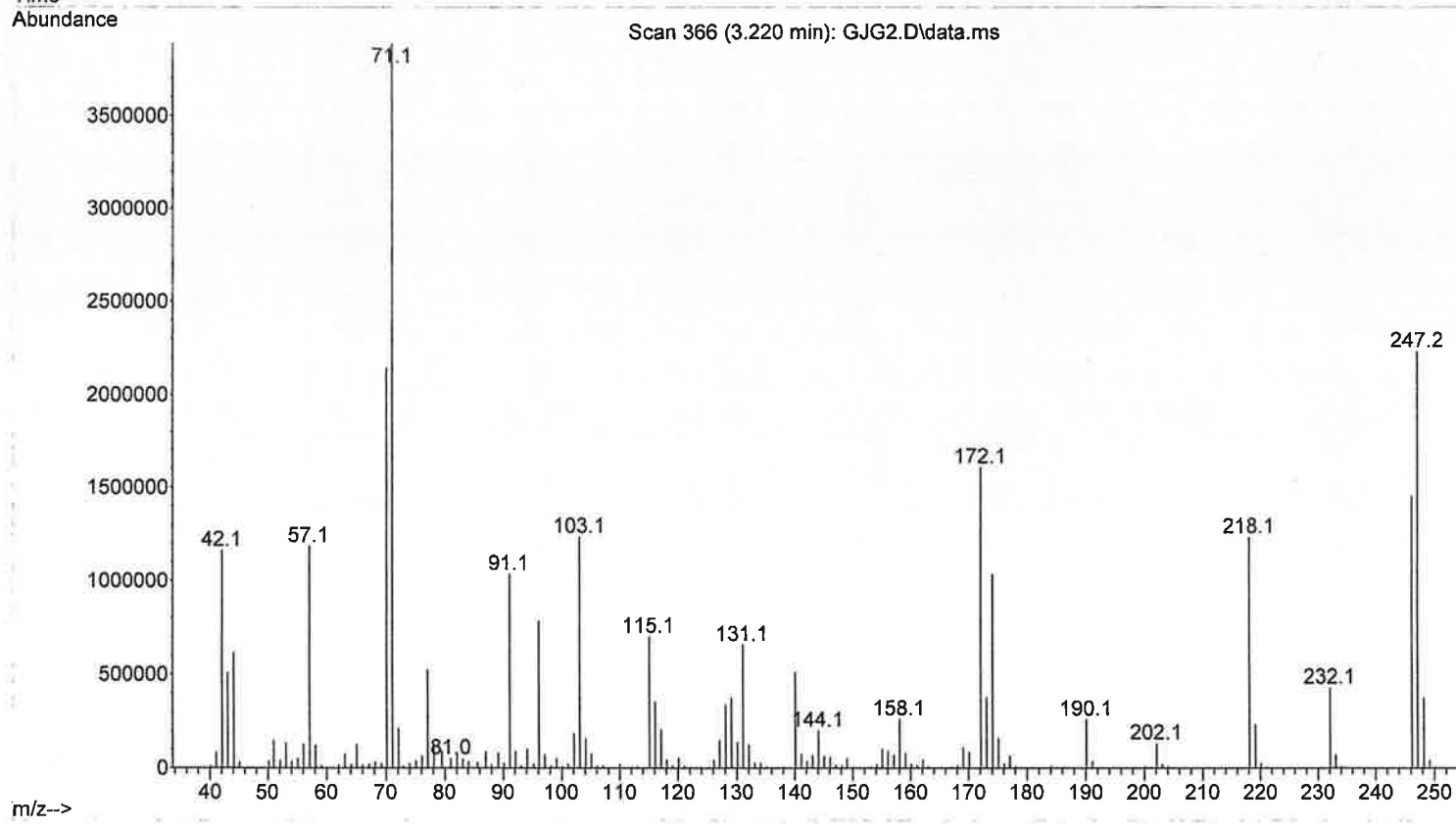
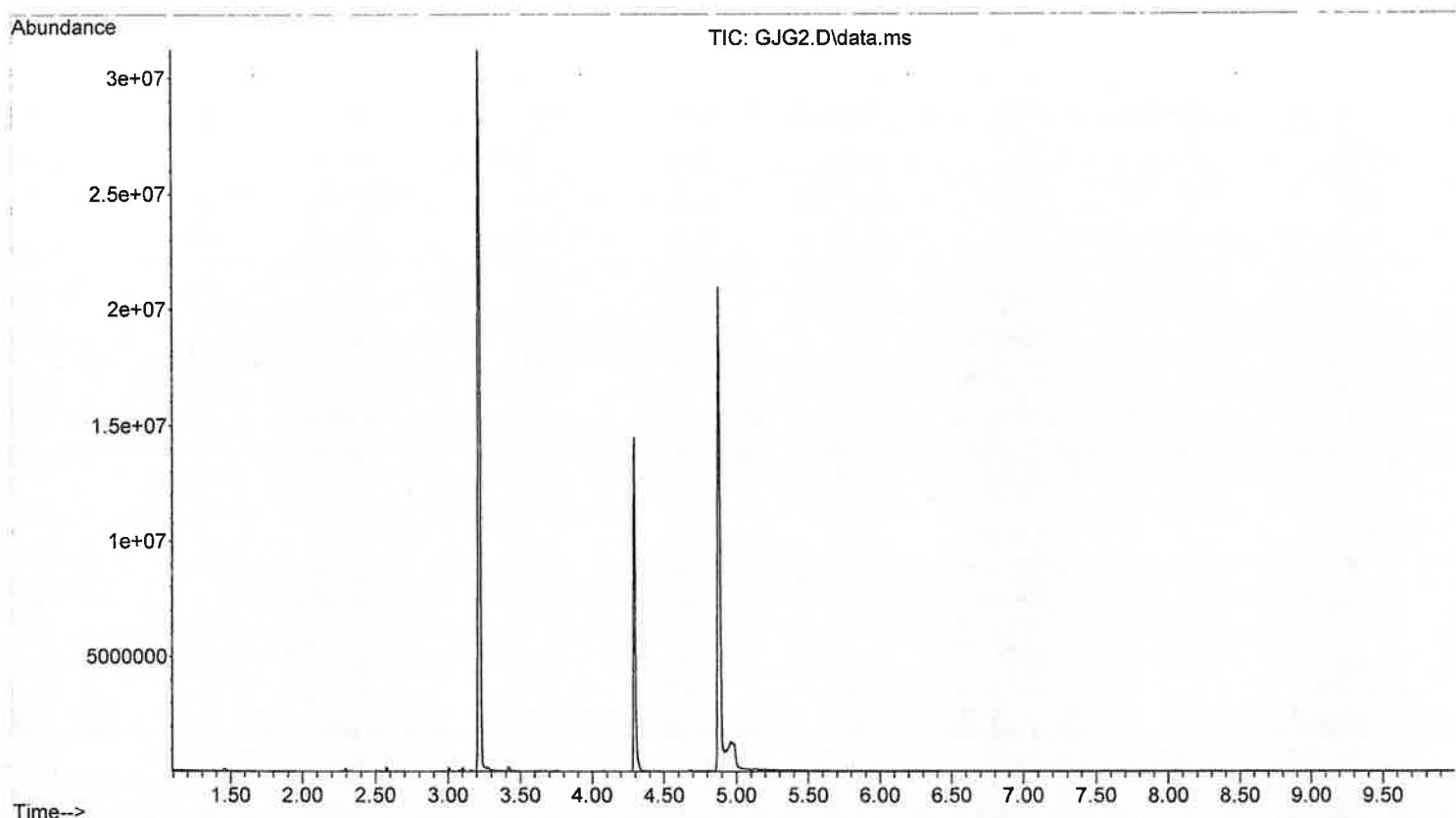
Repeller maximum 35 volts using ion 219; Gain Factor 0.5294

Mass Gain Values(Scan Speed): 450(3) 456(2) 468(1) 493(0) 537(FS1) 537(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	138.6	138.6	138.6	138.6	138.6	138.6	138.6
Entrance Lens Offset	13.2	13.2	13.2	13.2	13.2	13.2	13.2

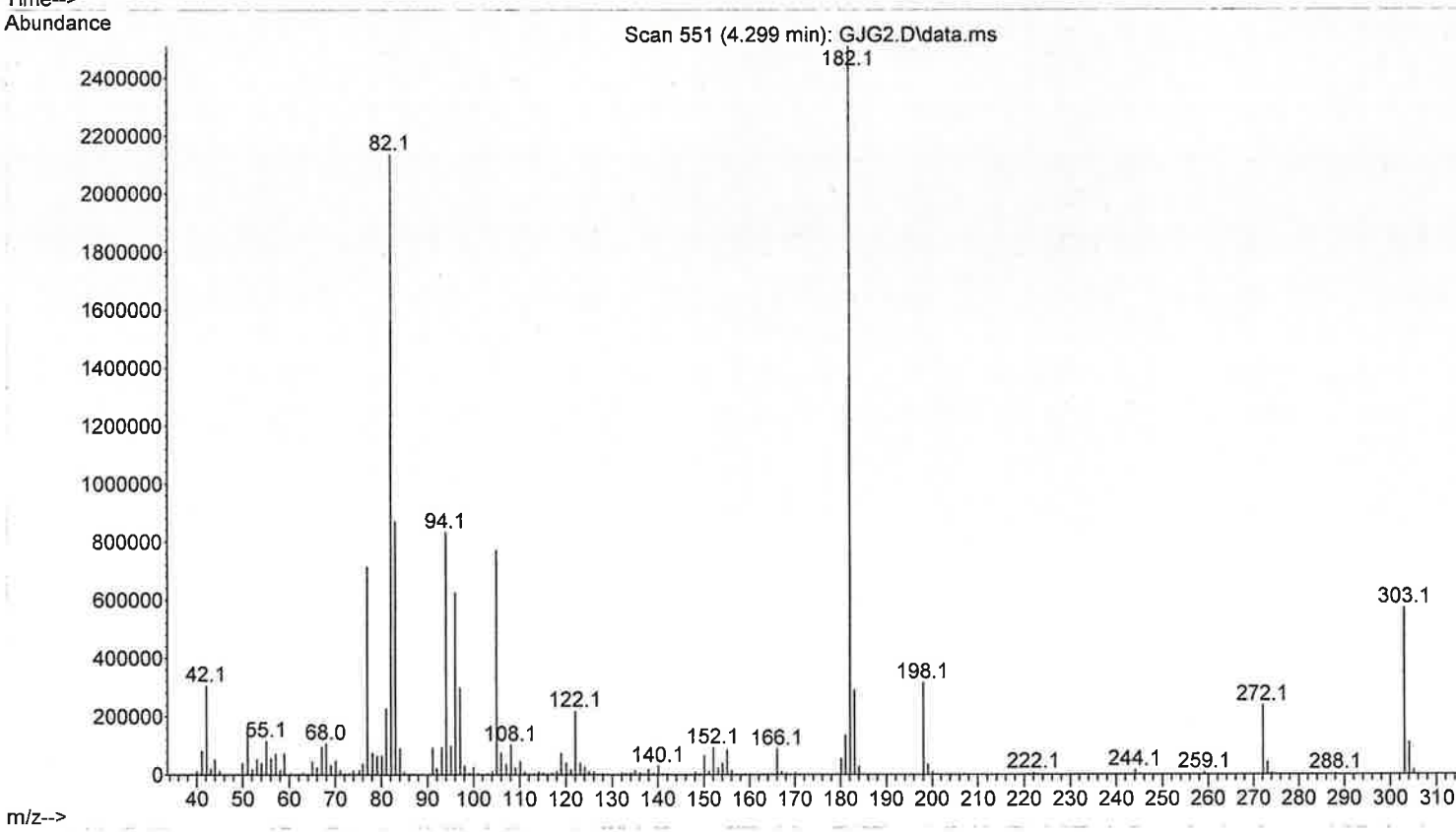
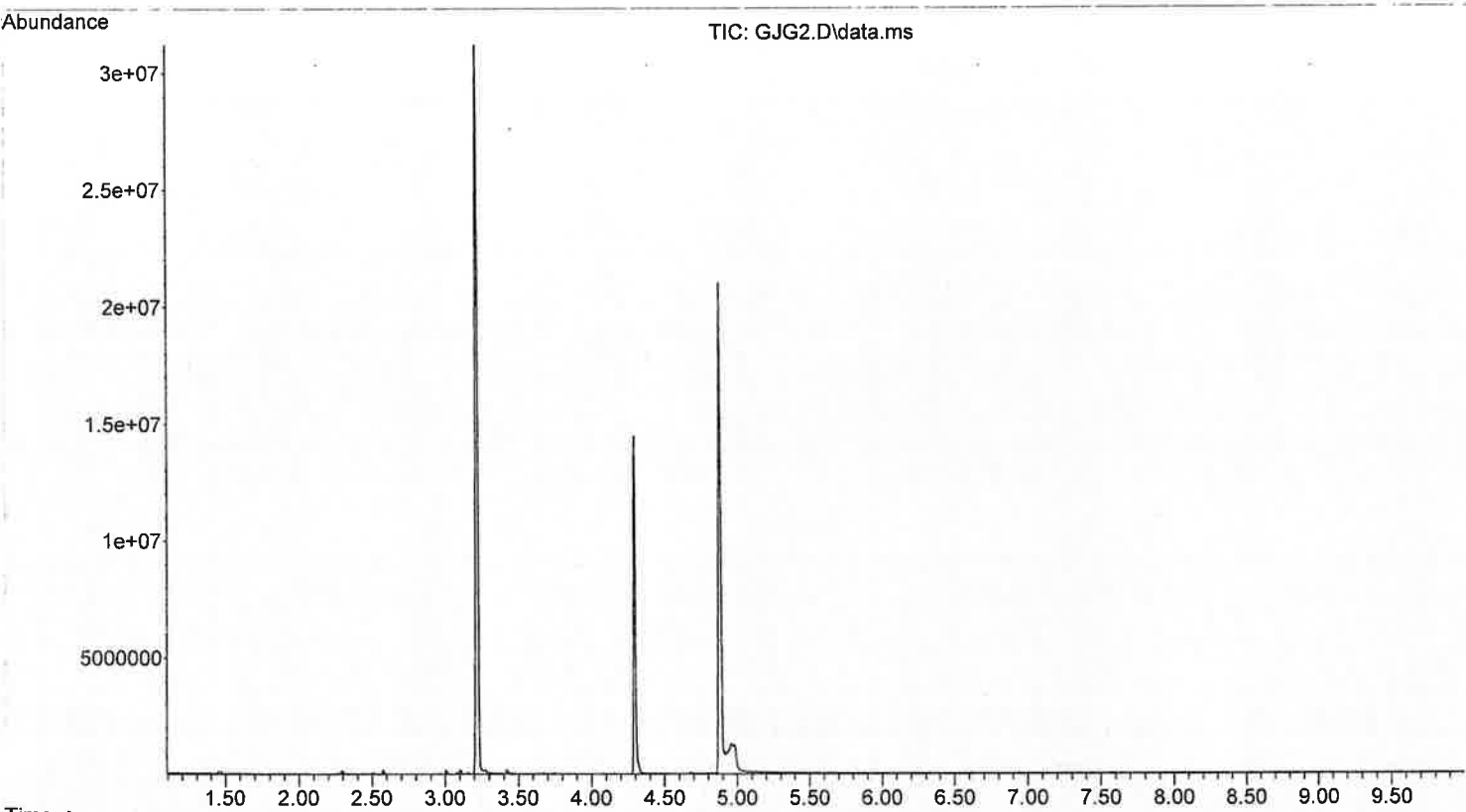
GJG 6-5-18

File :D:\MassHunter\GCMS\1\data\2018\GJG\CS1-65\GJG2.D
Operator : GJG
Acquired : 05 Jun 2018 12:24 using AcqMethod ASMSDRUGS100.M
Instrument : Kenny
Sample Name: CS1-65
Misc Info : PETHIDINE / COCAINE / HYDROCODONE
Vial Number: 22



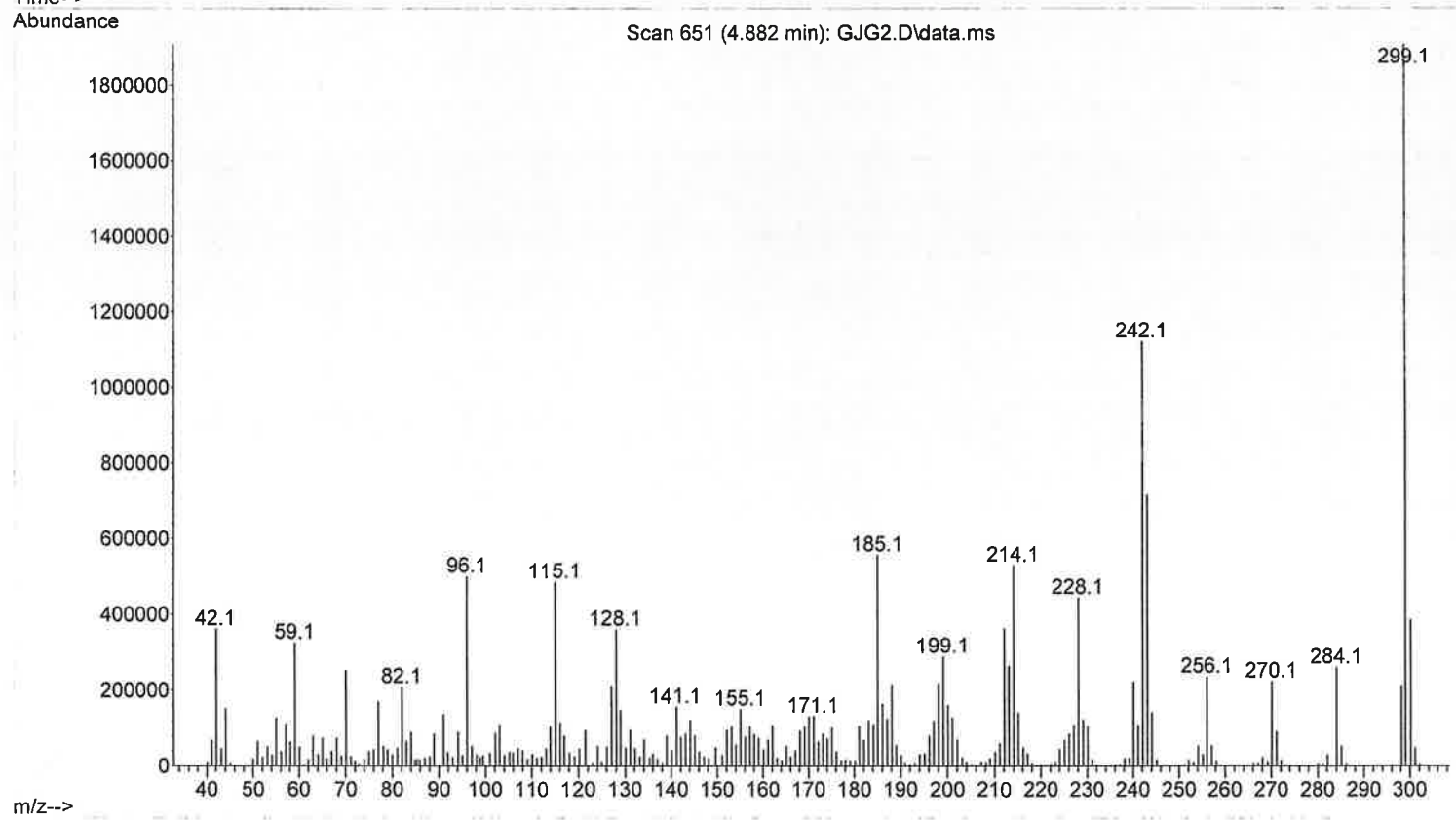
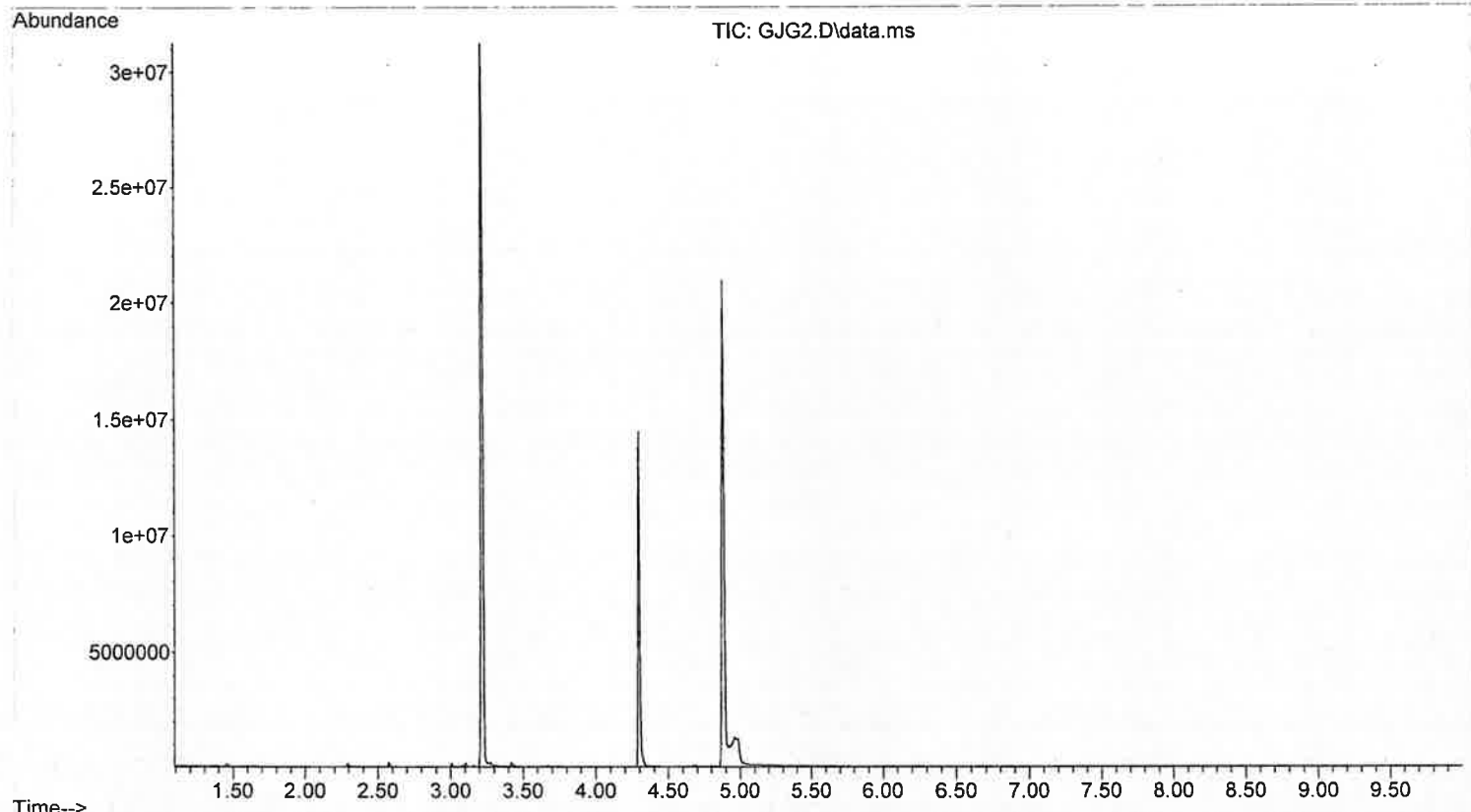
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Instrument : Kenny
Sample Name: CS1-65
Misc Info : PETHIDINE / COCAINE / HYDROCODONE
Vial Number: 22



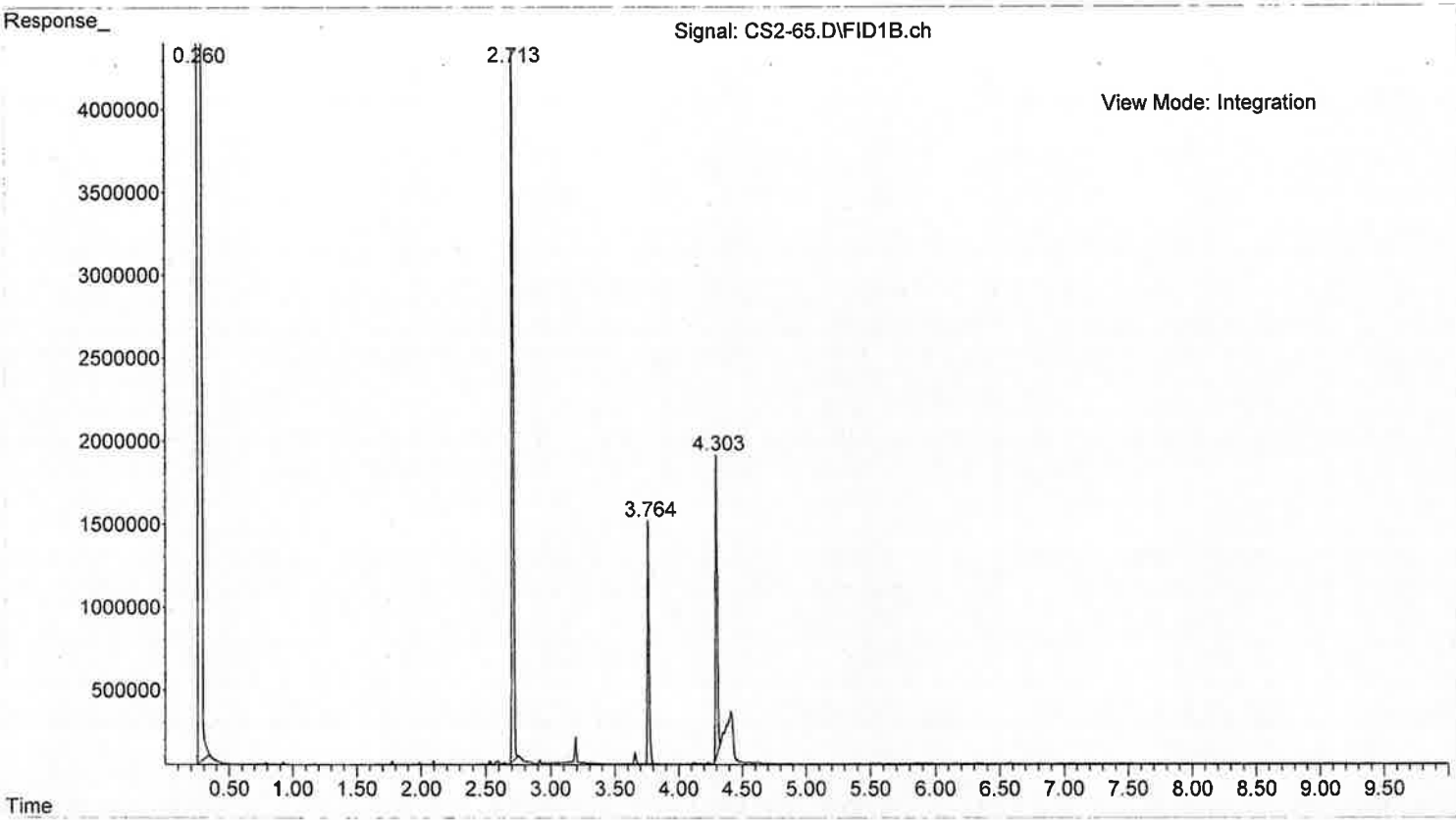
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Instrument : Kenny
Sample Name: CS1-65
Misc Info : PETHIDINE / COCAINE / HYDROCODONE
Vial Number: 22



GJG 6-5-18

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Operator : GJG
Acquired : 05 Jun 2018 13:14 using AcqMethod ASGC100.M
Instrument : Kenny
Sample Name: CS2-65
Misc Info : PETHIDINE / COCAINE / HYDROCODONE
Vial Number: 22



GJG-6-5-18

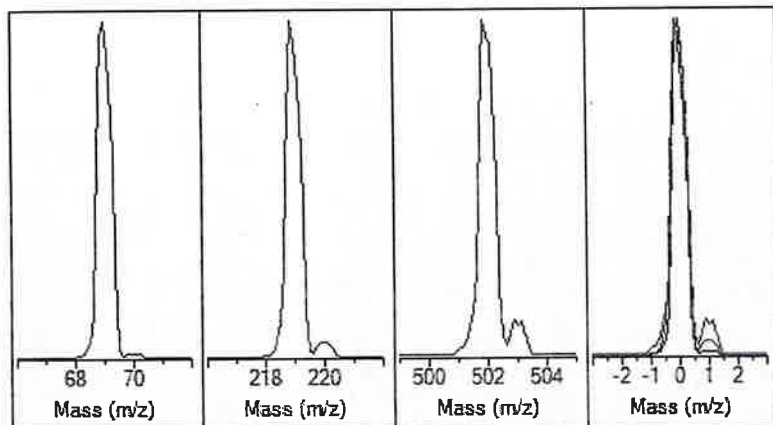
Autotune - 5977

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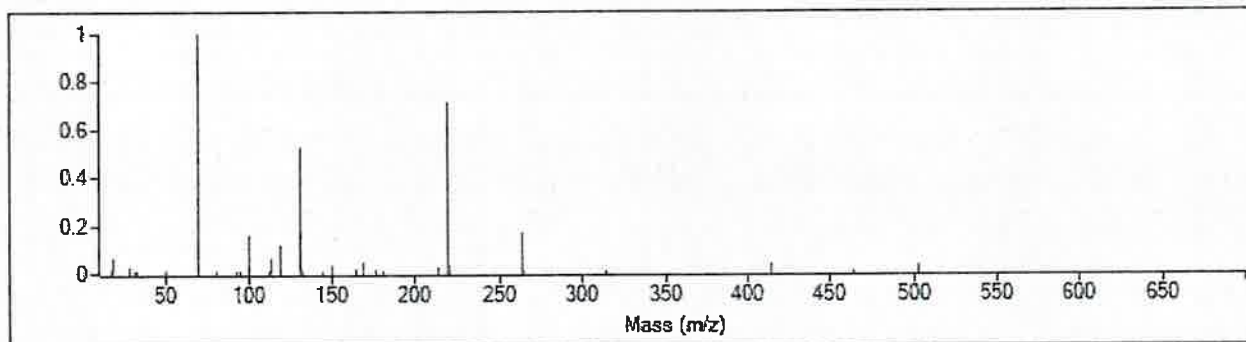
Ion Polarity	Pos	PFTBA	Open
Emission	34.6	Mass Gain	452
Electron Energy	70.0	Mass Offset	-23
Filament	2	Amu Gain	3054
Repeller	31.51	Amu Offset	137.00
Ion Focus	90.3	Width219	-0.012
Entrance Lens	20.2	DC Polarity	Neg
Ent Lens Offset	13.23	HED Enable	On
Ion Body	0.00	EM Volts	903.7
Post Extractor 1	0	Extractor Lens	0.00
Post Extractor 2	0	Scan Speed	3
JetClean Flow	0	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	452,491	100.0%	0.60
218.90	327,508	72.4%	0.60
501.90	14,524	3.2%	0.60

Temperatures and Pressures

MS Source	230 Turbo Speed	100.0
MS Quad	150 HI Vac	1.07e-05

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	104	69.00	429,120	1,392,489



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	429,120	100.0%	70.00	4,627	1.1%
219.00	219.00	304,000	70.8%	220.00	13,064	4.3%
502.00	502.10	13,188	3.1%	503.10	1,361	10.3%

Air/Water Check: H2O ~5.8% N2 ~2.1% O2 ~0.6% CO2 ~0.3% N2/H2O ~36.6%

Column(1) Flow: 1.00 Column(2): 3.35 ml/min Interface Temp: 200

Ramp Criteria:

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 48188.721

Repeller maximum 35 volts using ion 219; Gain Factor 0.4819

Mass Gain Values(Scan Speed): 459(3) 462(2) 471(1) 494(0) 581(FS1) 528(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	137.0	137.0	137.0	137.0	137.0	137.0	137.0
Entrance Lens Offset	13.2	13.2	13.2	13.2	13.2	13.2	13.2

GJG 6-28-18

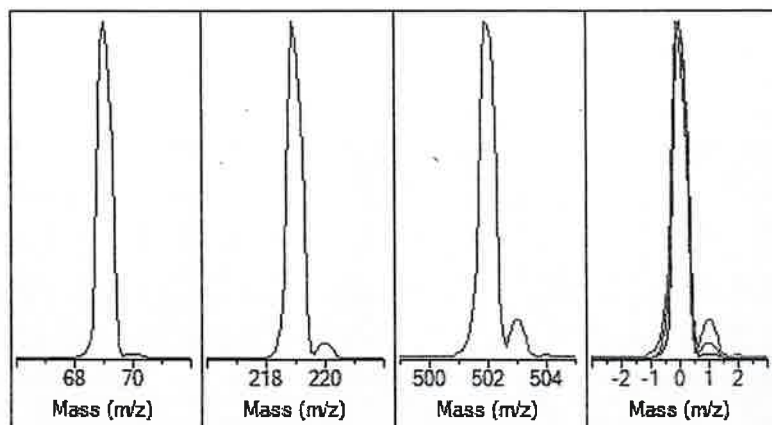
Autotune - 5977

Tune timestamp: 7/19/2018 3:50 PM (UTC-05:00)

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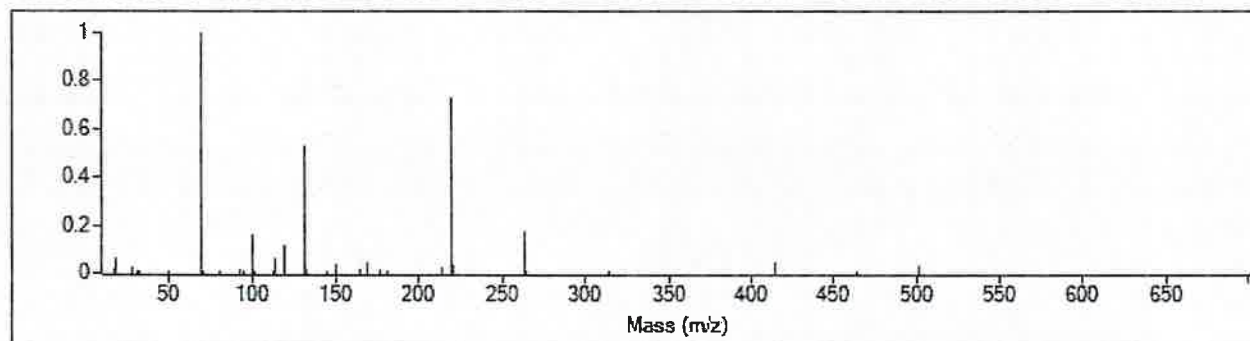
Ion Polarity	Pos	PFTBA	Open
Emission	34.6	Mass Gain	449
Electron Energy	70.0	Mass Offset	-22
Filament	2	Amu Gain	3051
Repeller	30.91	Amu Offset	137.69
Ion Focus	90.3	Width219	-0.008
Entrance Lens	22.7	DC Polarity	Neg
Ent Lens Offset	13.07	HED Enable	On
Ion Body	0.00	EM Volts	907.2
Post Extractor 1	0	Extractor Lens	0.00
Post Extractor 2	0	Scan Speed	3
JetClean Flow	0	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	456,846	100.0%	0.60
218.90	335,374	73.4%	0.60
501.90	14,027	3.1%	0.61

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	1.12e-05

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	106	69.00	424,000	1,396,997



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	424,000	100.0%	70.10	4,697	1.1%
219.00	219.00	308,544	72.8%	220.00	13,101	4.2%
502.00	502.00	13,781	3.3%	503.00	1,389	10.1%

Air/Water Check: H2O ~5.7% N2 ~1.9% O2 ~0.6% CO2 ~0.3% N2/H2O ~33.1%

Column(1) Flow: 1.00 Column(2): 3.35 ml/min Interface Temp: 200

Ramp Criteria:

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 45146.780

Repeller maximum 35 volts using ion 219; Gain Factor 0.4515

Mass Gain Values(Scan Speed): 455(3) 461(2) 469(1) 491(0) 578(FS1) 525(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	137.7	137.7	137.7	137.7	137.7	137.7	137.7
Entrance Lens Offset	13.1	13.1	13.1	13.1	13.1	13.1	13.1

GGG 7-19-18

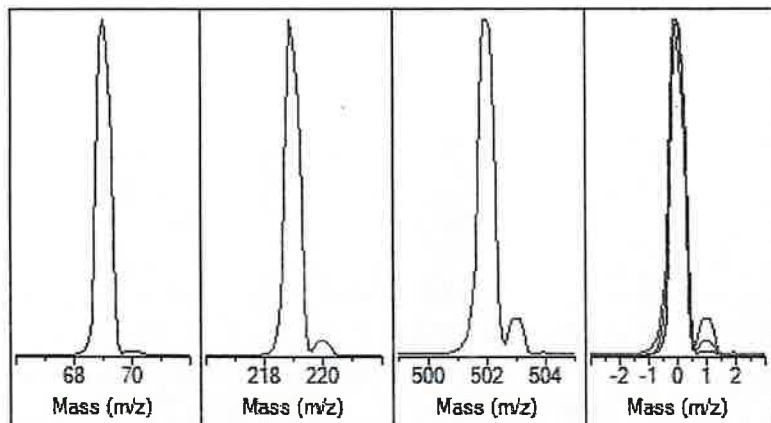
Autotune - 5977

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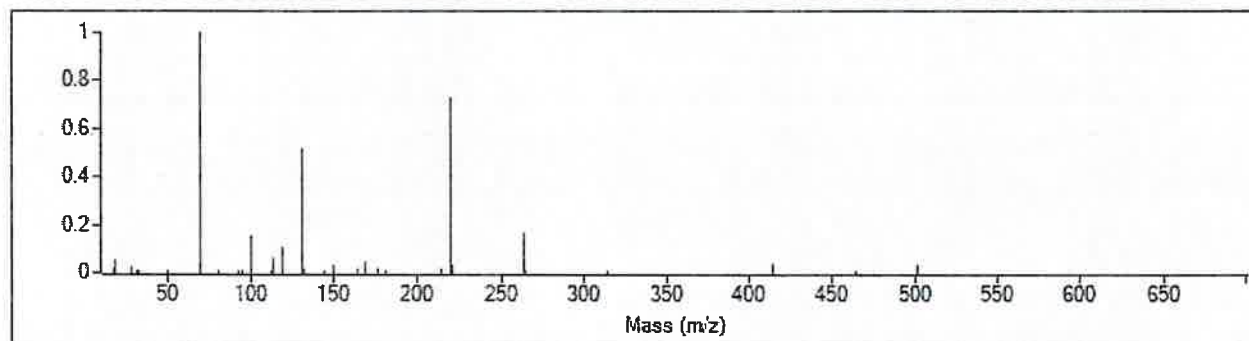
Ion Polarity	Pos	PFTBA	Open
Emission	34.6	Mass Gain	447
Electron Energy	70.0	Mass Offset	-22
Filament	2	Amu Gain	3054
Repeller	30.32	Amu Offset	137.50
Ion Focus	90.3	Width219	-0.006
Entrance Lens	20.2	DC Polarity	Neg
Ent Lens Offset	13.23	HED Enable	On
Ion Body	0.00	EM Volts	899.5
Post Extractor 1	0	Extractor Lens	0.00
Post Extractor 2	0	Scan Speed	3
JetClean Flow	0	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	466,190	100.0%	0.60
218.90	347,038	74.4%	0.60
501.90	13,265	2.8%	0.62

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	1.08e-05

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	116	69.00	440,192	1,419,849



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	440,192	100.0%	70.00	4,814	1.1%
219.00	219.00	320,448	72.8%	220.00	14,024	4.4%
502.00	502.00	13,578	3.1%	503.00	1,380	10.2%

Air/Water Check: H2O ~5.2% N2 ~2.1% O2 ~0.7% CO2 ~0.2% N2/H2O ~40.9%

Column(1) Flow: 1.00 Column(2): 3.35 ml/min Interface Temp: 200

Ramp Criteria:

Ion Focus maximum 90 volts using Ion 502; Electron Multiplier Gain 38646.344

Repeller maximum 35 volts using Ion 219; Gain Factor 0.3865

Mass Gain Values(Scan Speed): 450(3) 458(2) 467(1) 490(0) 568(FS1) 524(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	137.5	137.5	137.5	137.5	137.5	137.5	137.5
Entrance Lens Offset	13.2	13.2	13.2	13.2	13.2	13.2	13.2

GG 7-26-18

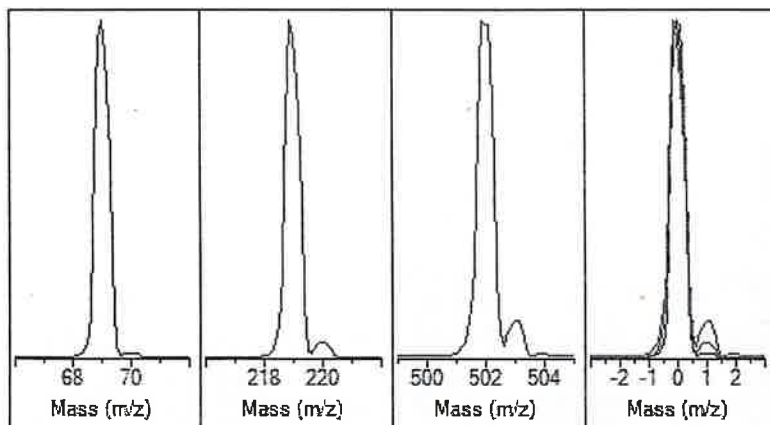
Autotune - 5977

Tune timestamp: 8/2/2018 11:48 AM (UTC-05:00)

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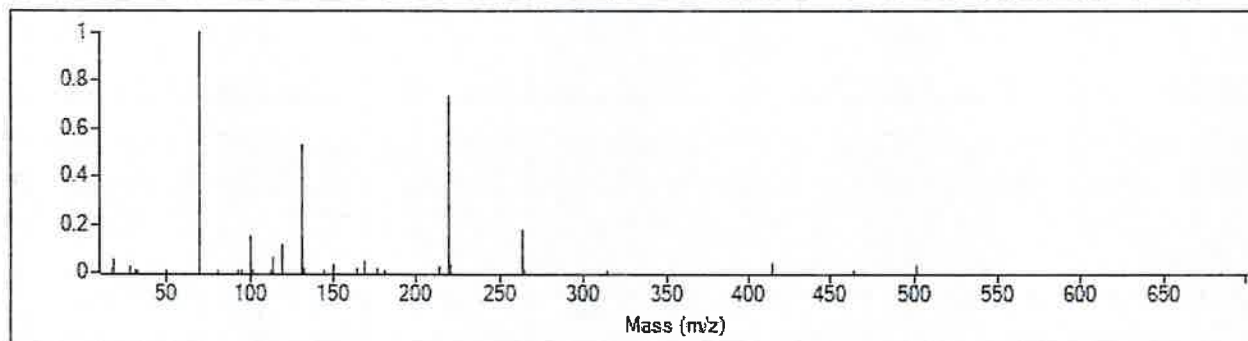
Ion Polarity	Pos	PFTBA	Open
Emission	34.6	Mass Gain	453
Electron Energy	70.0	Mass Offset	-23
Filament	2	Amu Gain	3050
Repeller	28.92	Amu Offset	137.13
Ion Focus	90.3	Width219	-0.011
Entrance Lens	22.7	DC Polarity	Neg
Ent Lens Offset	13.07	HED Enable	On
Ion Body	0.00	EM Volts	903.3
Post Extractor 1	0	Extractor Lens	0.00
Post Extractor 2	0	Scan Speed	3
JetClean Flow	0	Averages	3

Temperatures and Pressures

MS Source	230 Turbo Speed	100.0
MS Quad	150 HI Vac	1.28e-05

Actual m/z	Abund	Rel Abund	Pw50
69.00	444,719	100.0%	0.60
218.90	335,807	75.5%	0.60
501.90	13,890	3.1%	0.62

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	107	69.00	424,512	1,389,404



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	424,512	100.0%	70.00	4,519	1.1%
219.00	219.00	312,320	73.6%	220.00	13,631	4.4%
502.00	502.00	13,844	3.3%	503.10	1,170	8.5%

Air/Water Check: H2O ~5.3% N2 ~1.9% O2 ~0.6% CO2 ~0.2% N2/H2O ~35.6%

Column(1) Flow: 1.20 Column(2): 1.45 ml/min Interface Temp: 200

Ramp Criteria:

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 40642.547

Repeller maximum 35 volts using ion 219; Gain Factor 0.4064

Mass Gain Values(Scan Speed): 456(3) 462(2) 471(1) 494(0) 581(FS1) 528(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	137.1	137.1	137.1	137.1	137.1	137.1	137.1
Entrance Lens Offset	13.1	13.1	13.1	13.1	13.1	13.1	13.1

GJG 8-2-18

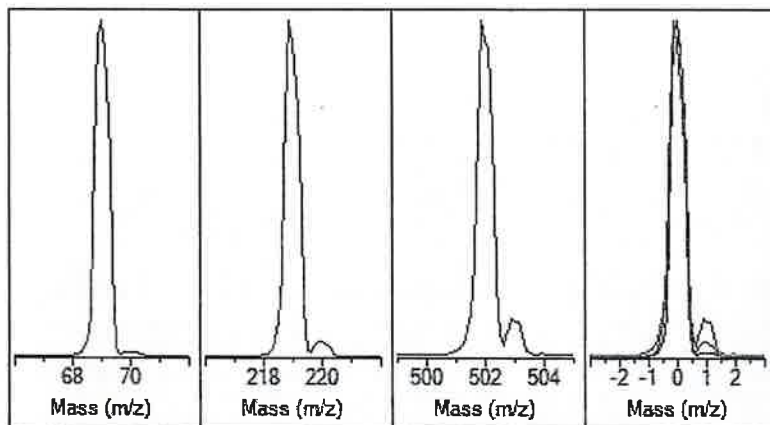
Autotune - 5977

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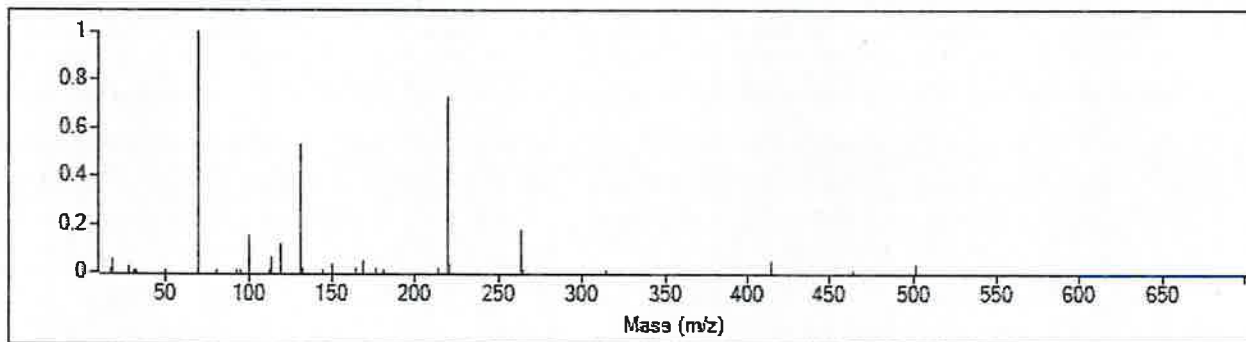
Ion Polarity	Pos	PFTBA	Open
Emission	34.6	Mass Gain	451
Electron Energy	70.0	Mass Offset	-23
Filament	2	Amu Gain	3051
Repeller	31.31	Amu Offset	137.06
Ion Focus	90.3	Width219	-0.013
Entrance Lens	20.2	DC Polarity	Neg
Ent Lens Offset	13.23	HED Enable	On
Ion Body	0.00	EM Volts	912.7
Post Extractor 1	0	Extractor Lens	0.00
Post Extractor 2	0	Scan Speed	3
JetClean Flow	0	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	432,203	100.0%	0.60
218.90	315,822	73.1%	0.60
501.90	14,974	3.5%	0.60

Temperatures and Pressures

MS Source	230 Turbo Speed	100.0
MS Quad	150 HI Vac	1.08e-05

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	102	69.00	408,896	1,330,836



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	408,896	100.0%	70.00	4,605	1.1%
219.00	219.00	296,640	72.5%	220.00	12,799	4.3%
502.00	502.00	13,730	3.4%	503.10	1,335	9.7%

Alr/Water Check: H2O ~5.0% N2 ~2.0% O2 ~0.7% CO2 ~0.3% N2/H2O ~40.7%

Column(1) Flow: 1.00 Column(2): 3.35 ml/min Interface Temp: 200

Ramp Criteria:

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 45105.349

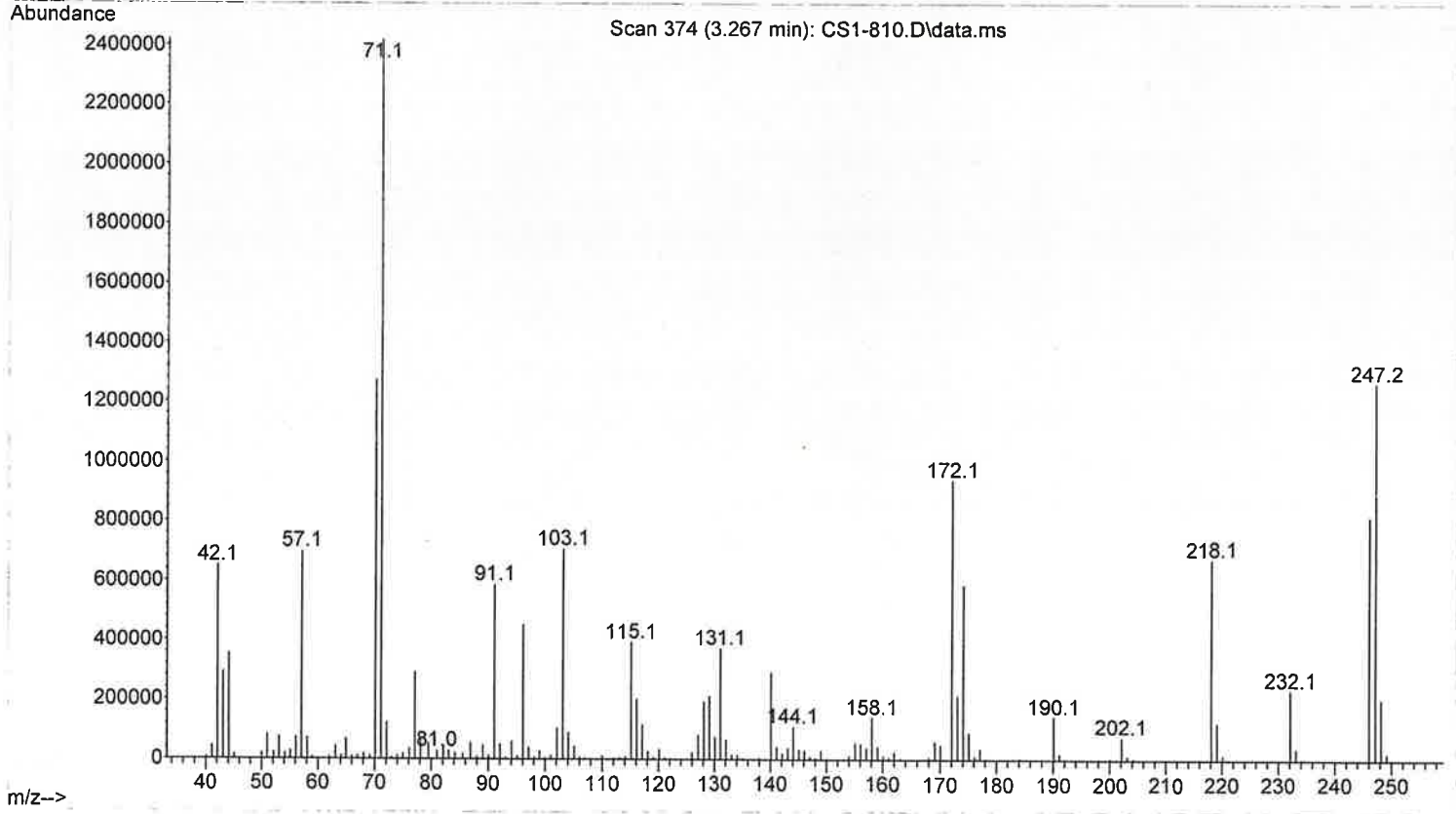
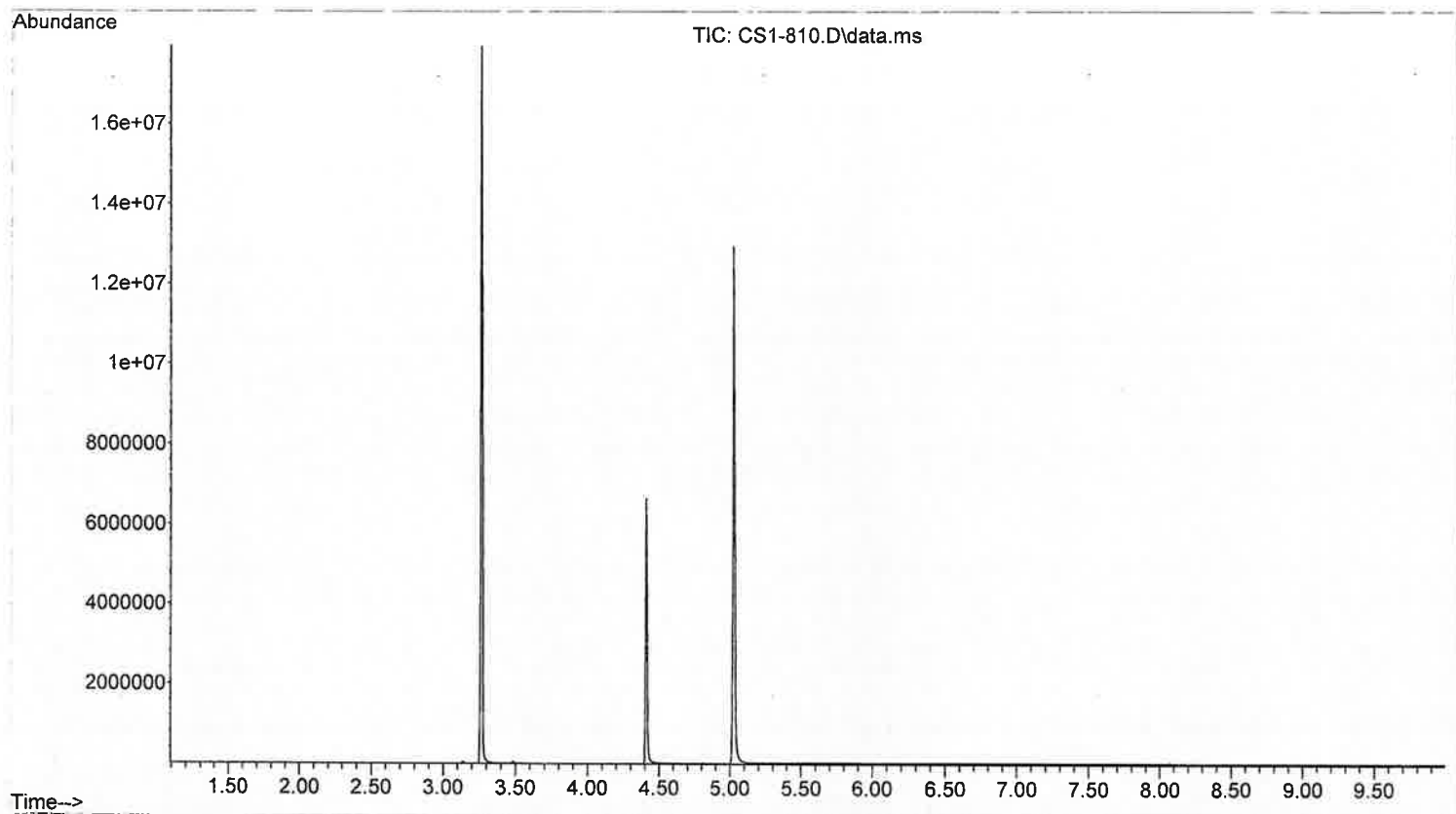
Repeller maximum 35 volts using ion 219; Gain Factor 0.4511

Mass Gain Values(Scan Speed): 459(3) 464(2) 470(1) 491(0) 579(FS1) 526(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	137.1	137.1	137.1	137.1	137.1	137.1	137.1
Entrance Lens Offset	13.2	13.2	13.2	13.2	13.2	13.2	13.2

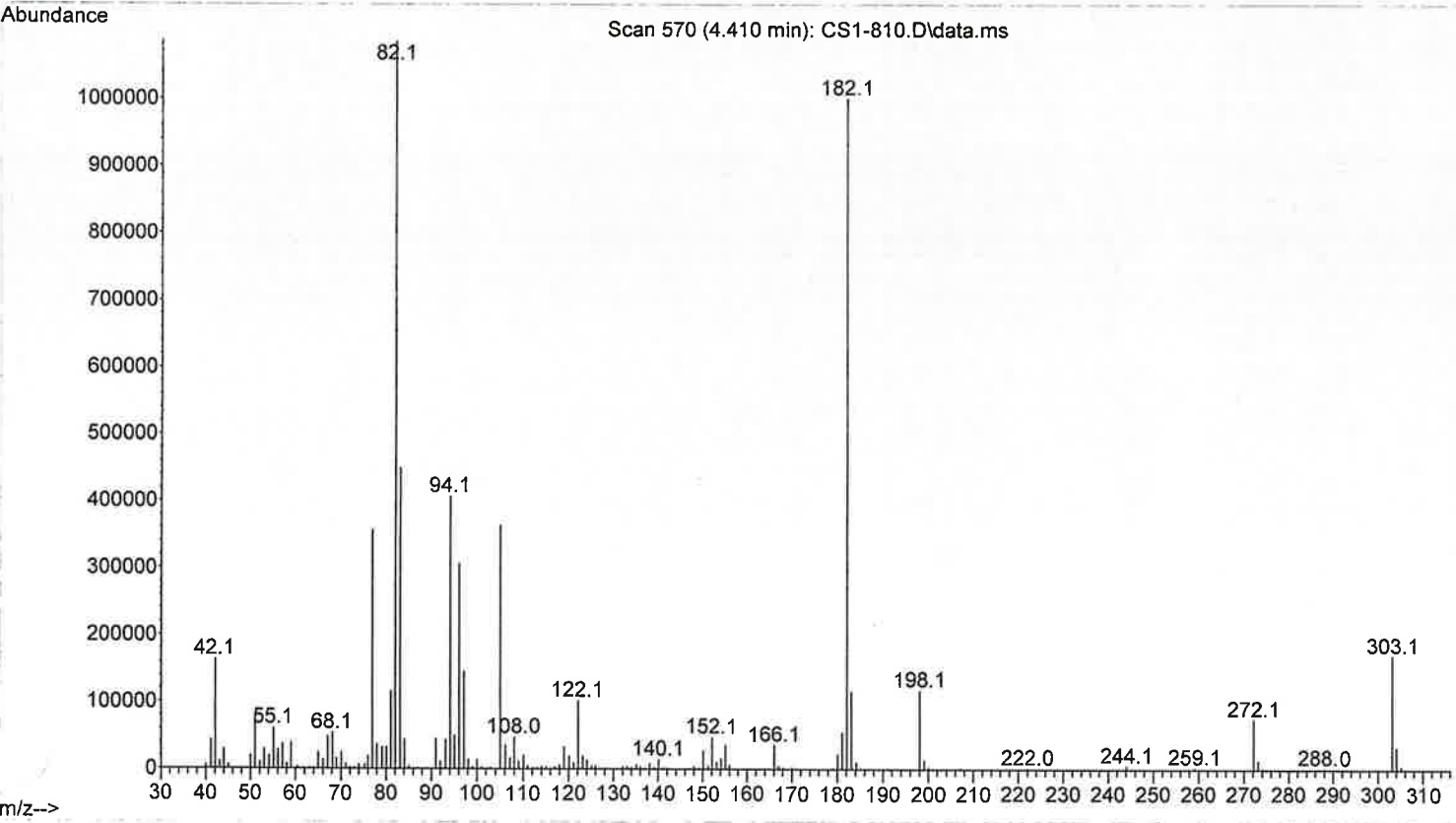
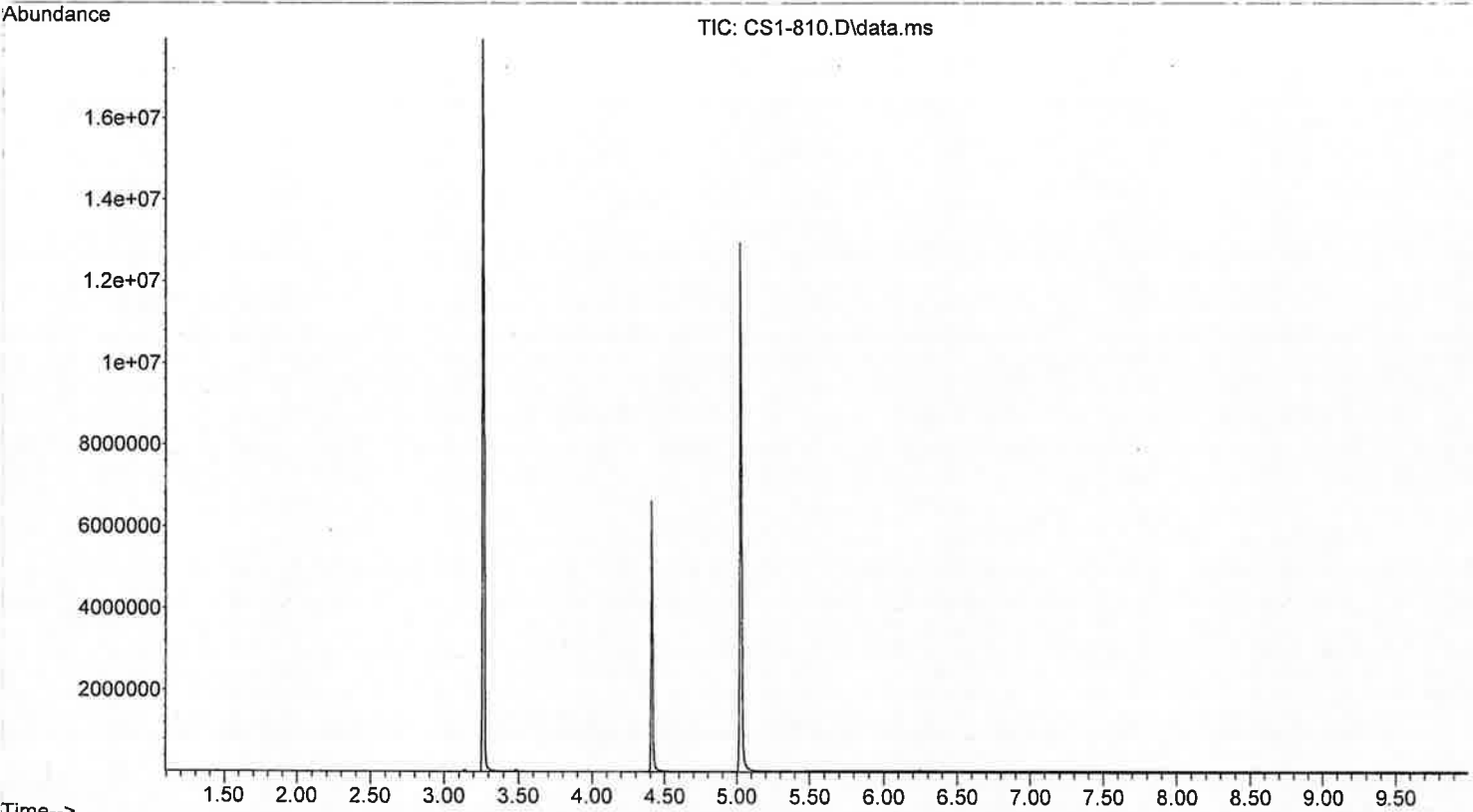
GJG 8-10-18

File :D:\MassHunter\GCMS\1\data\2018\GJG\CS1-810.D
Operator : GJG
Acquired : 10 Aug 2018 16:51 using AcqMethod ASMSDRUGS100.M
Instrument : Kenny
Sample Name: 002
Misc Info : MeOH
Vi umber: 42



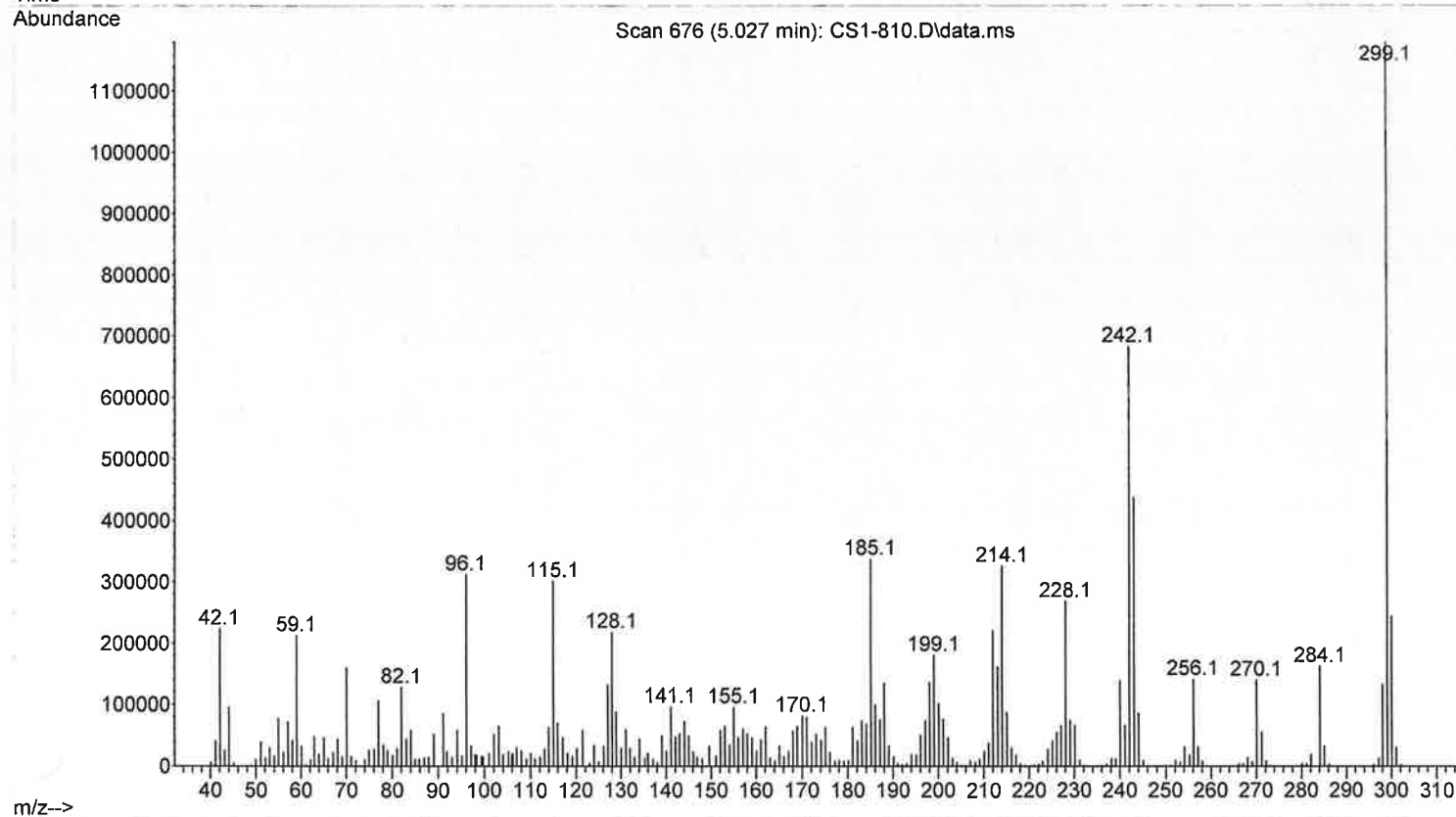
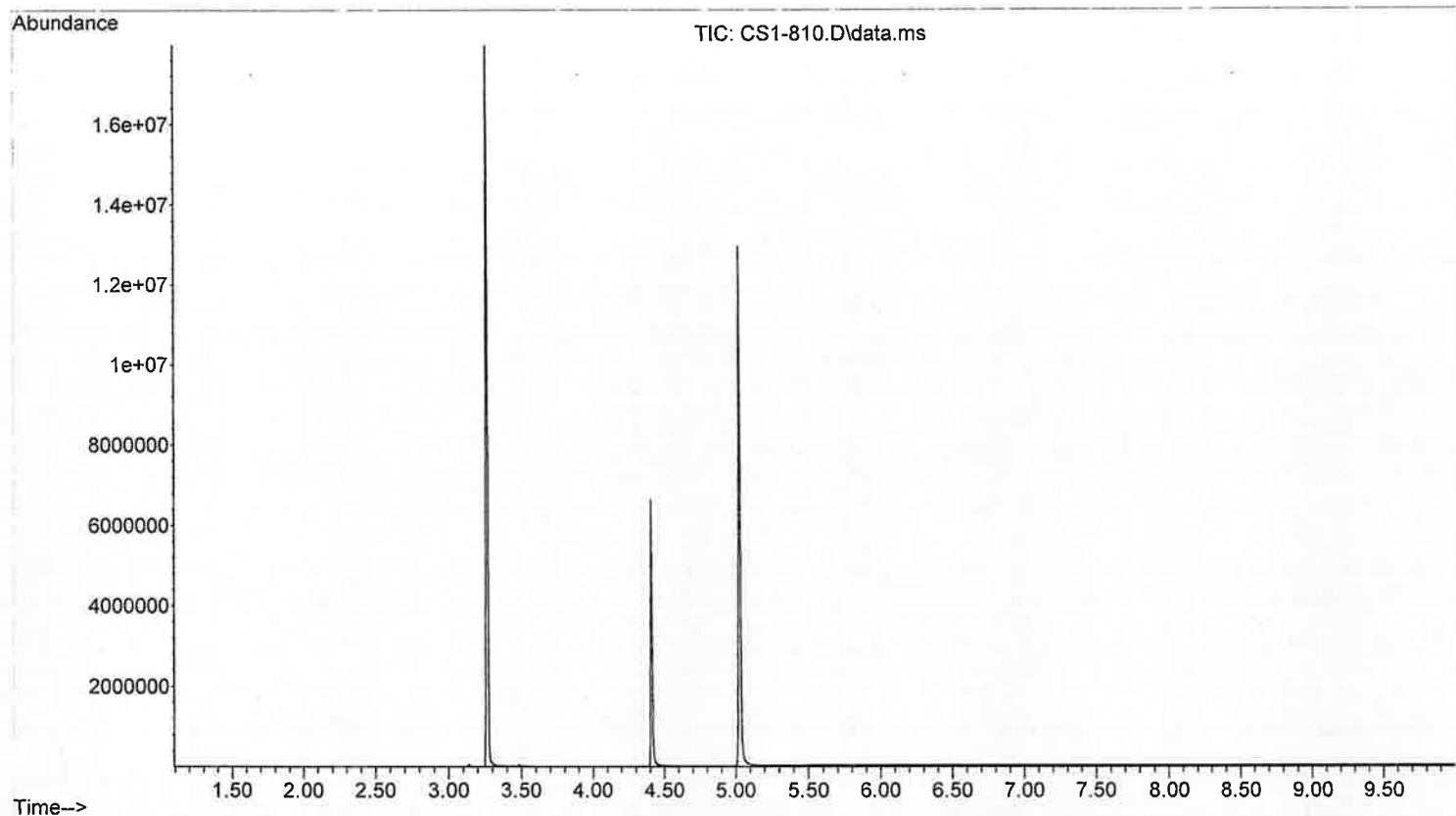
GJG 8-10-18

File :D:\MassHunter\GCMS\1\data\2018\GJG\CS1-810.D
Operator : GJG
Acquired : 10 Aug 2018 16:51 using AcqMethod ASMSDRUGS100.M
Instrument : Kenny
Sample Name: 002
Misc Info : MeOH
Vial Number: 42



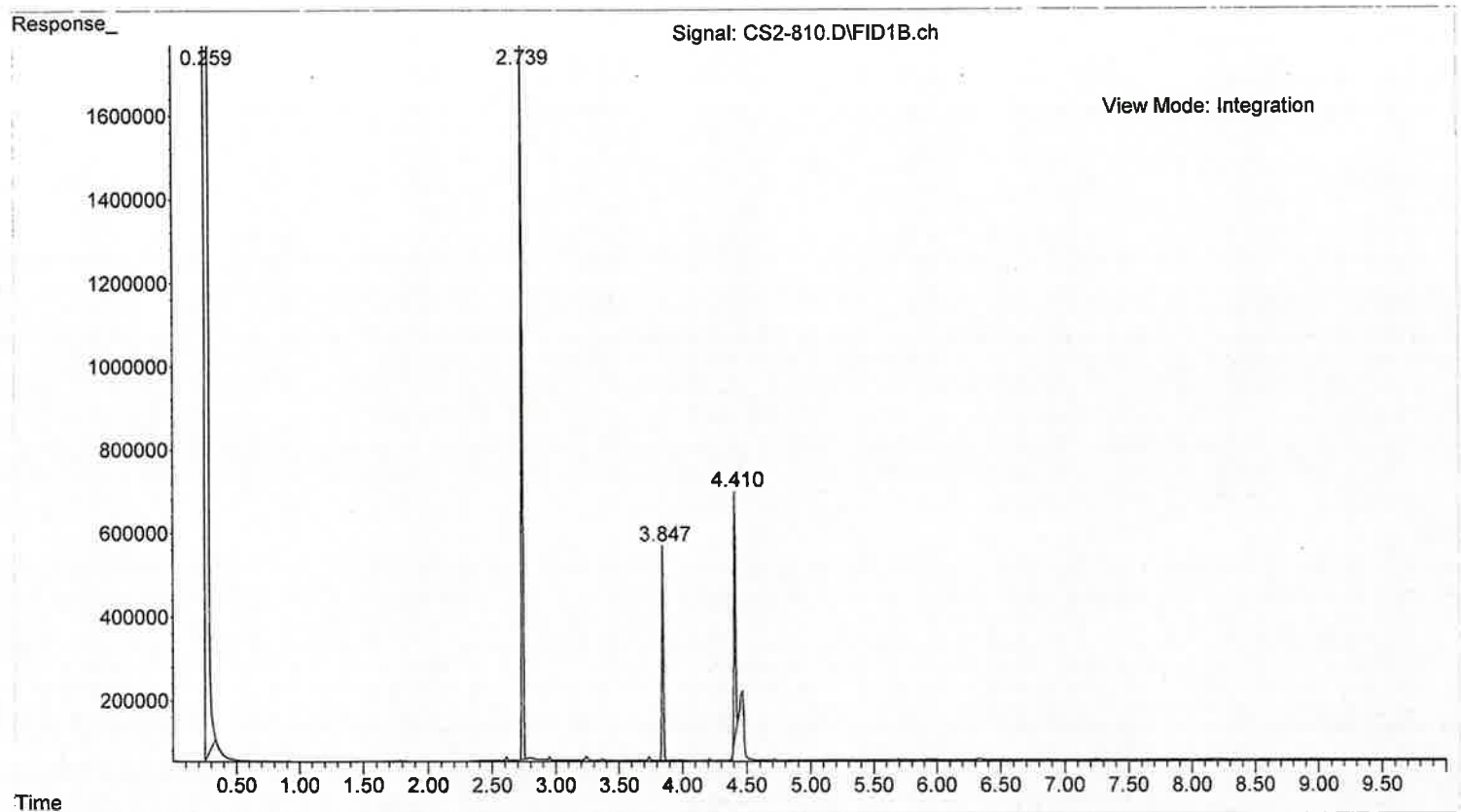
GJG 8-10-18

File :D:\MassHunter\GCMS\1\data\2018\GJG\CS1-810.D
Operator : GJG
Acquired : 10 Aug 2018 16:51 using AcqMethod ASMSDRUGS100.M
Instrument : Kenny
Sample Name: 002
Misc Info : MeOH
Vial Number: 42



GJG 8-10-18

File :D:\MassHunter\GCMS\1\data\2018\GJG\CS2-810.D
Operator : GJG
Acquired : 10 Aug 2018 17:29 using AcqMethod ASGC100.M
Instrument : Kenny
Sample Name: 002
Misc Info : MeOH
Via Number: 42



GJG 8-10-18

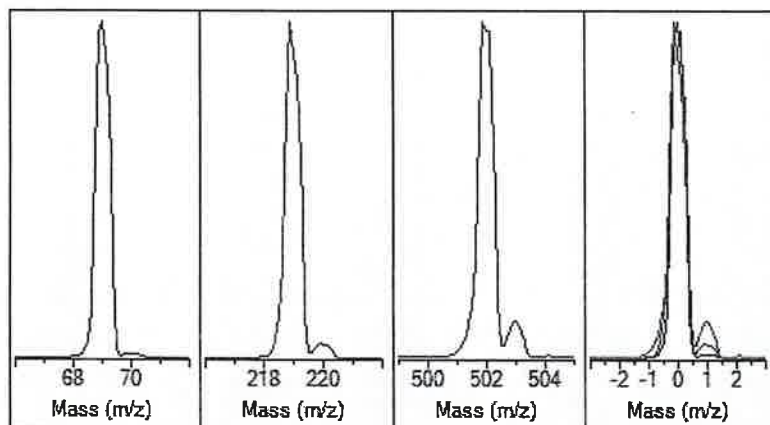
Autotune - 5977

Tune timestamp: 8/24/2018 8:00 AM (UTC-05:00)

Kenny

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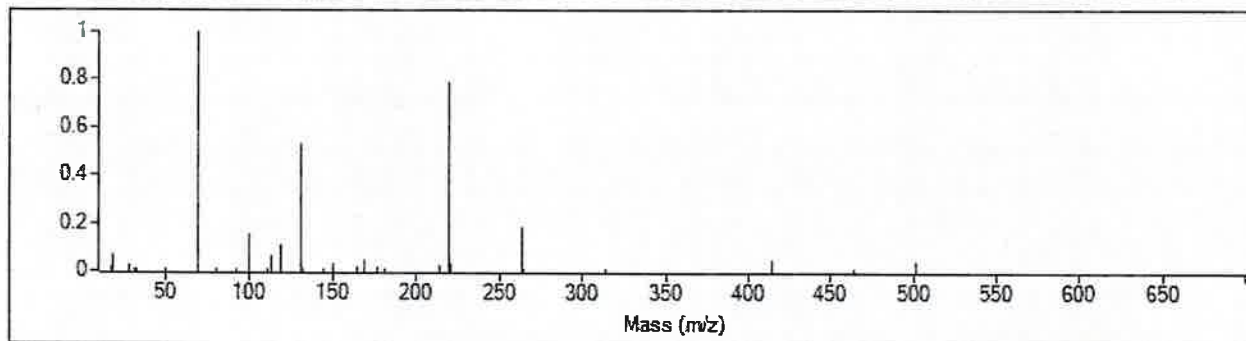
Ion Polarity	Pos	PFTBA	Open
Emission	34.6	Mass Gain	448
Electron Energy	70.0	Mass Offset	-23
Filament	2	Amu Gain	3058
Repeller	32.71	Amu Offset	137.13
Ion Focus	90.3	Width219	-0.008
Entrance Lens	20.2	DC Polarity	Neg
Ent Lens Offset	13.23	HED Enable	On
Ion Body	0.00	EM Volts	906.6
Post Extractor 1	0	Extractor Lens	0.00
Post Extractor 2	0	Scan Speed	3
JetClean Flow	0	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	390,569	100.0%	0.60
218.90	319,242	81.7%	0.60
501.90	14,453	3.7%	0.60

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	1.01e-05

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	121	69.00	375,232	1,268,615



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	375,232	100.0%	70.00	4,304	1.1%
219.00	219.00	297,024	79.2%	220.00	12,639	4.3%
502.00	502.00	13,277	3.5%	503.00	1,349	10.2%

Air/Water Check: H2O ~7.0% N2 ~2.6% O2 ~0.9% CO2 ~0.3% N2/H2O ~37.6%

Column(1) Flow: 1.00 Column(2): 3.35 ml/min Interface Temp: 200

Ramp Criteria:

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 39248.976

Repeller maximum 35 volts using ion 219; Gain Factor 0.3925

Mass Gain Values(Scan Speed): 454(3) 459(2) 468(1) 488(0) 575(FS1) 522(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	137.1	137.1	137.1	137.1	137.1	137.1	137.1
Entrance Lens Offset	13.2	13.2	13.2	13.2	13.2	13.2	13.2

GIG 8-24-18

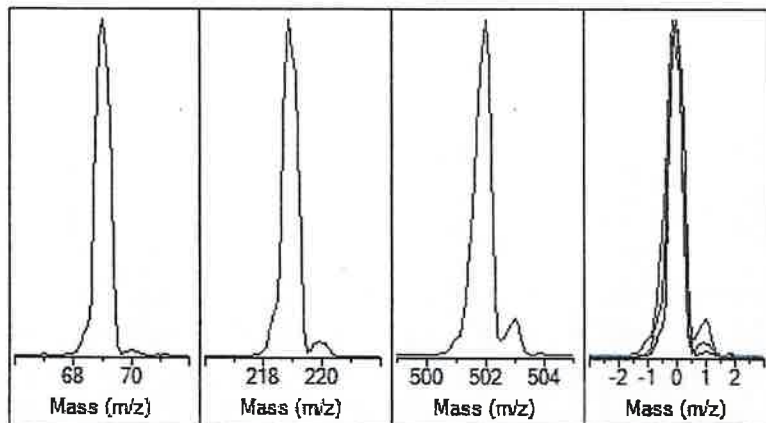
Autotune - 5977

Tune timestamp: 9/24/2018 11:47 AM (UTC-05:00)

Kenny

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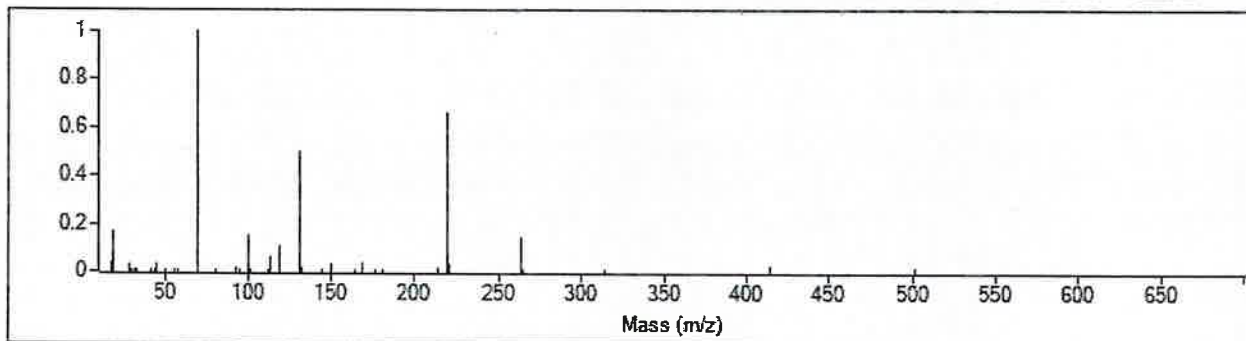
Ion Polarity	Pos	PFTBA	Open
Emission	34.6	Mass Gain	441
Electron Energy	70.0	Mass Offset	-23
Filament	1	Amu Gain	3087
Repeller	31.91	Amu Offset	133.19
Ion Focus	88.4	Width219	0.040
Entrance Lens	17.6	DC Polarity	Neg
Ent Lens Offset	14.44	HED Enable	On
Ion Body	0.00	EM Volts	944.0
Post Extractor 1	0	Extractor Lens	0.00
Post Extractor 2	0	Scan Speed	3
JetClean Flow	0	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	601,997	100.0%	0.62
218.90	402,958	66.9%	0.61
502.00	9,271	1.5%	0.63

Temperatures and Pressures

MS Source	230 Turbo Speed	100.0
MS Quad	150 Hi Vac	1.38e-05

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	211	69.00	569,920	1,942,253



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	569,920	100.0%	70.00	7,607	1.3%
219.00	219.00	377,664	66.3%	220.00	17,048	4.5%
502.00	502.00	8,578	1.5%	503.00	854	10.0%

Alr/Water Check: H2O ~16.3% N2 ~3.1% O2 ~0.7% CO2 ~2.7% N2/H2O ~18.8%

Column(1) Flow: 1.20 Column(2): 1.45 ml/min Interface Temp: 200

Ramp Criteria:

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 57951.916

Repeller maximum 35 volts using ion 219; Gain Factor 0.5795

Mass Gain Values(Scan Speed): 451(3) 451(2) 468(1) 503(0) 538(FS1) 538(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	133.2	133.2	133.2	133.2	133.2	133.2	133.2
Entrance Lens Offset	14.4	14.4	14.4	14.4	14.4	14.4	14.4

GJG 9-24-18

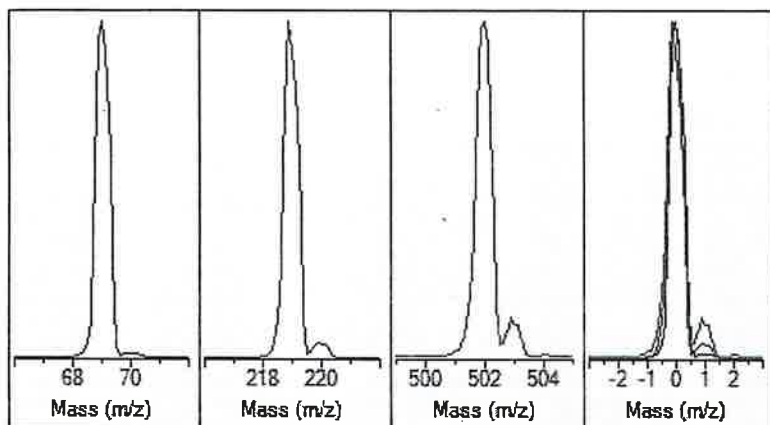
Autotune - 5977

Tune timestamp: 9/13/2018 11:38 AM (UTC-05:00)

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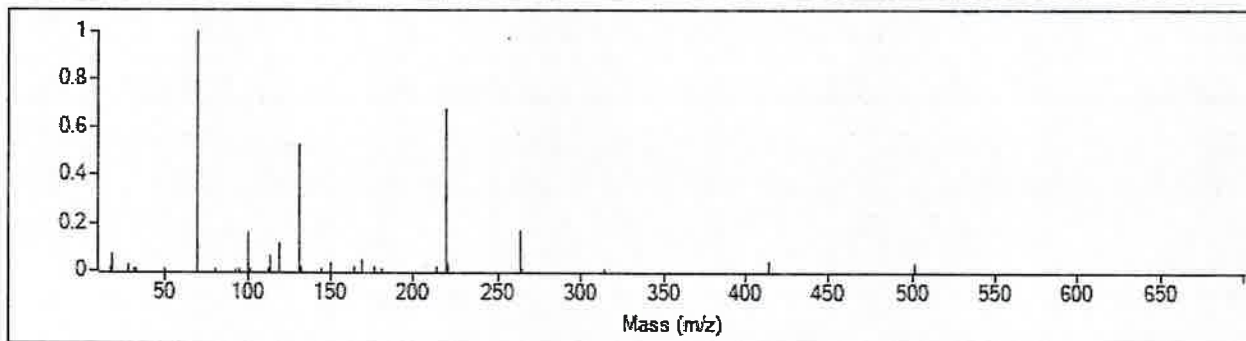
Ion Polarity	Pos	PFTBA	Open
Emission	34.6	Mass Gain	445
Electron Energy	70.0	Mass Offset	-22
Filament	2	Amu Gain	3051
Repeller	33.31	Amu Offset	137.63
Ion Focus	90.3	Width219	-0.008
Entrance Lens	20.2	DC Polarity	Neg
Ent Lens Offset	13.23	HED Enable	On
Ion Body	0.00	EM Volts	926.4
Post Extractor 1	0	Extractor Lens	0.00
Post Extractor 2	0	Scan Speed	3
JetClean Flow	0	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	471,019	100.0%	0.60
218.90	327,648	69.6%	0.60
502.00	13,946	3.0%	0.60

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	1.06e-05

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	108	69.00	445,568	1,430,591



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	445,568	100.0%	70.00	4,838	1.1%
219.00	219.00	299,008	67.1%	220.00	13,006	4.3%
502.00	502.00	13,429	3.0%	503.00	1,278	9.5%

Air/Water Check: H2O ~7.1% N2 ~2.3% O2 ~0.8% CO2 ~0.3% N2/H2O ~32.6%

Column(1) Flow: 1.00 Column(2): 3.35 ml/min Interface Temp: 200

Ramp Criteria:

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 46446.498

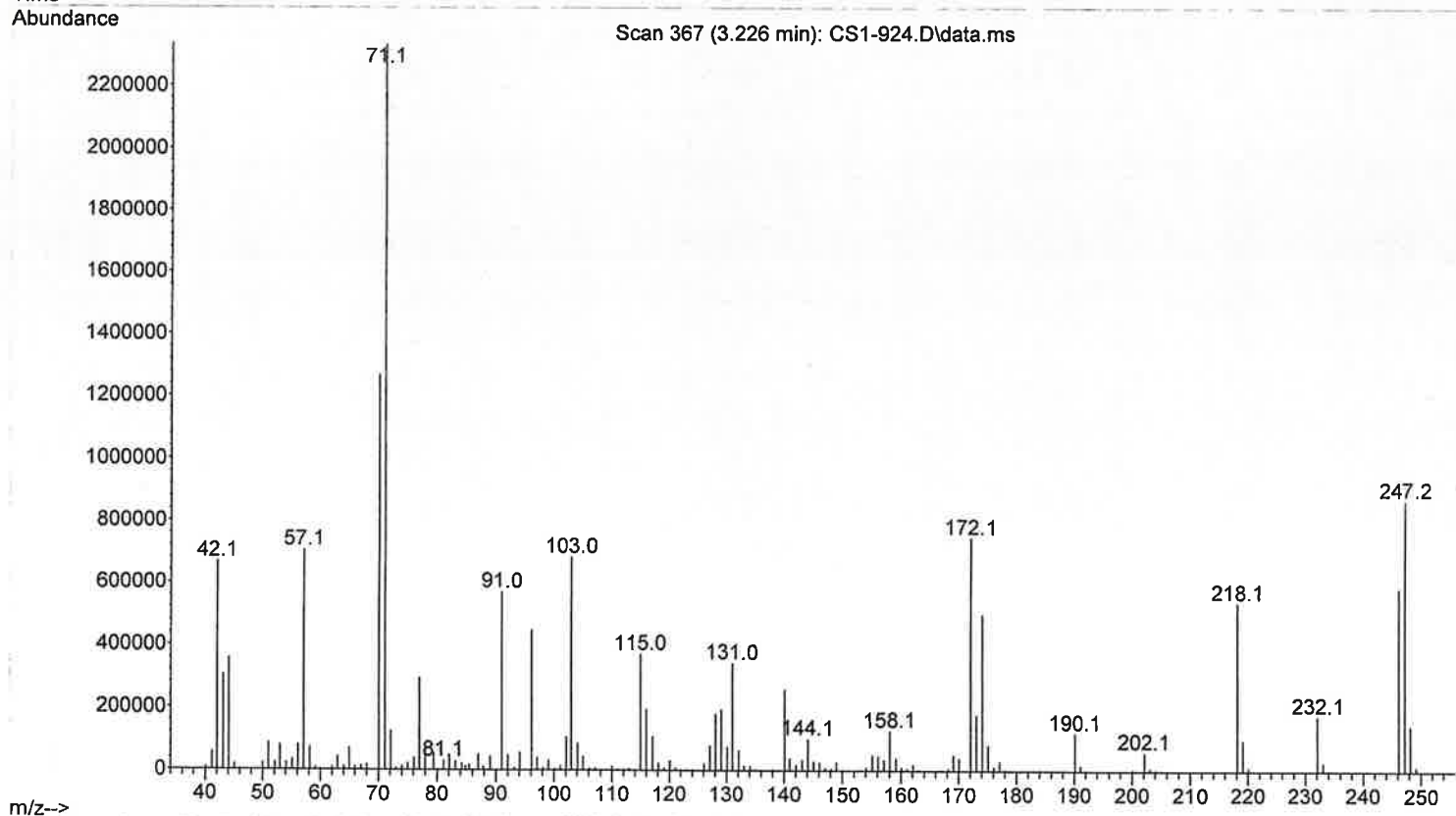
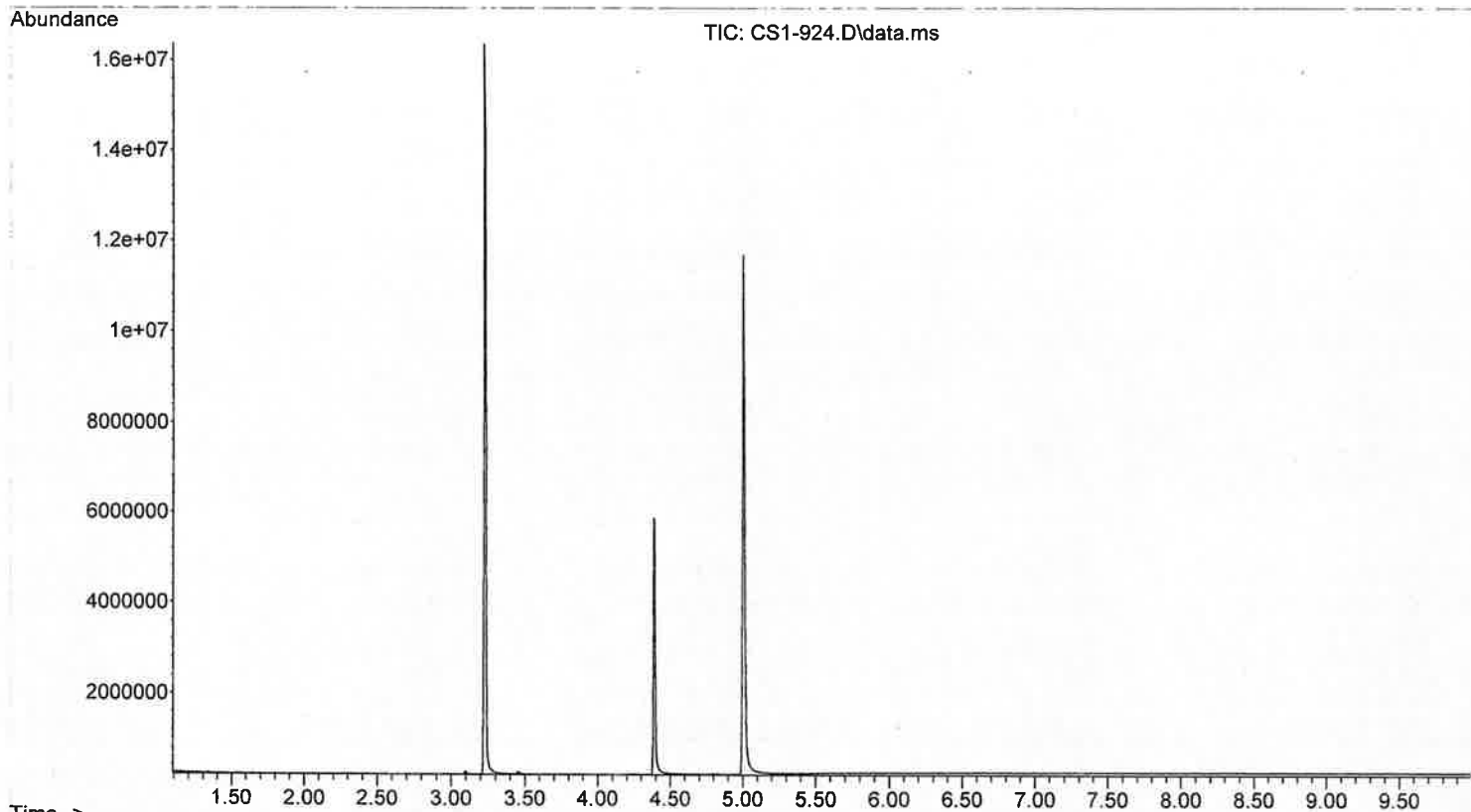
Repeller maximum 35 volts using ion 219; Gain Factor 0.4645

Mass Gain Values(Scan Speed): 451(3) 460(2) 469(1) 490(0) 578(FS1) 525(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	137.6	137.6	137.6	137.6	137.6	137.6	137.6
Entrance Lens Offset	13.2	13.2	13.2	13.2	13.2	13.2	13.2

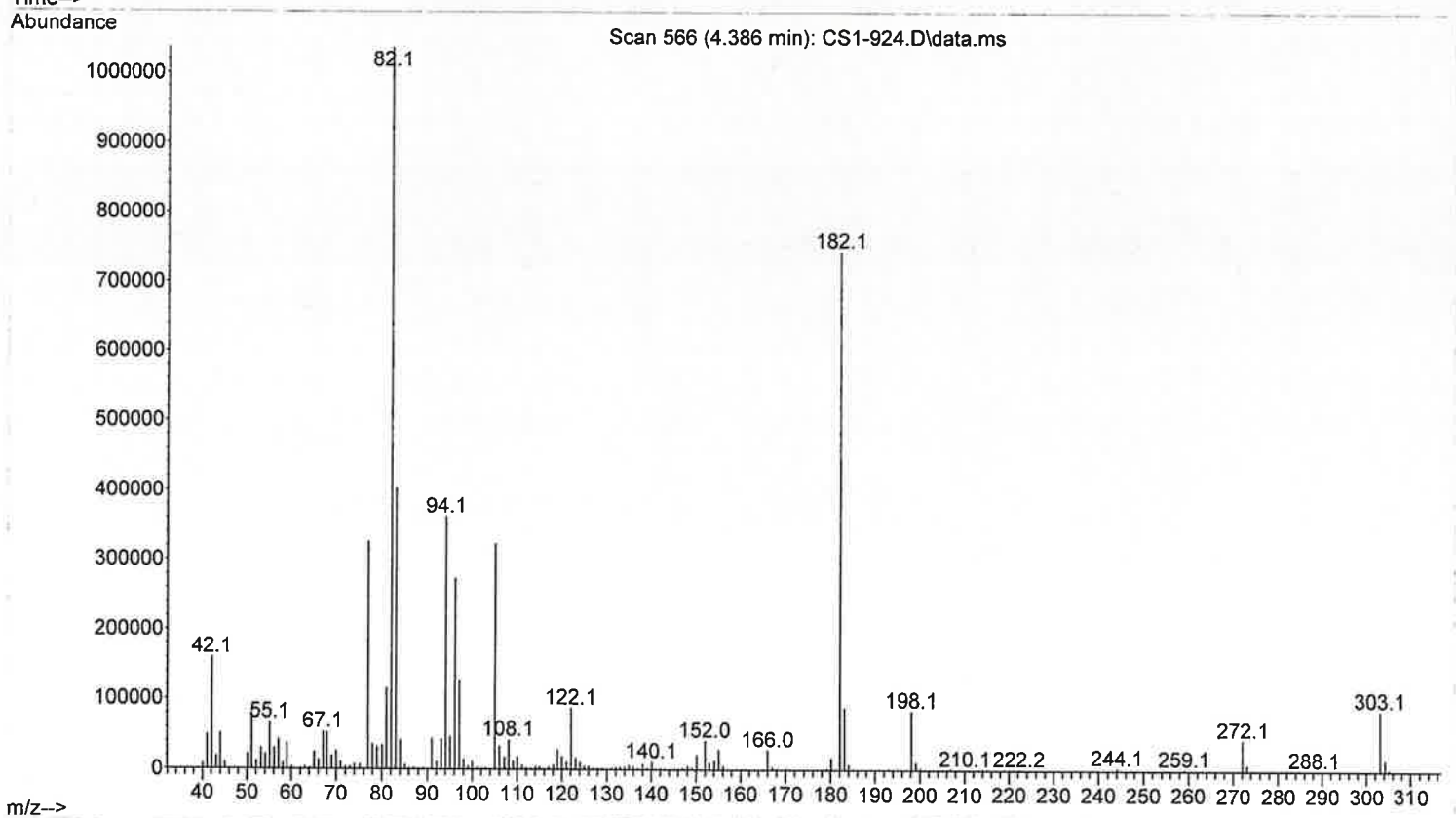
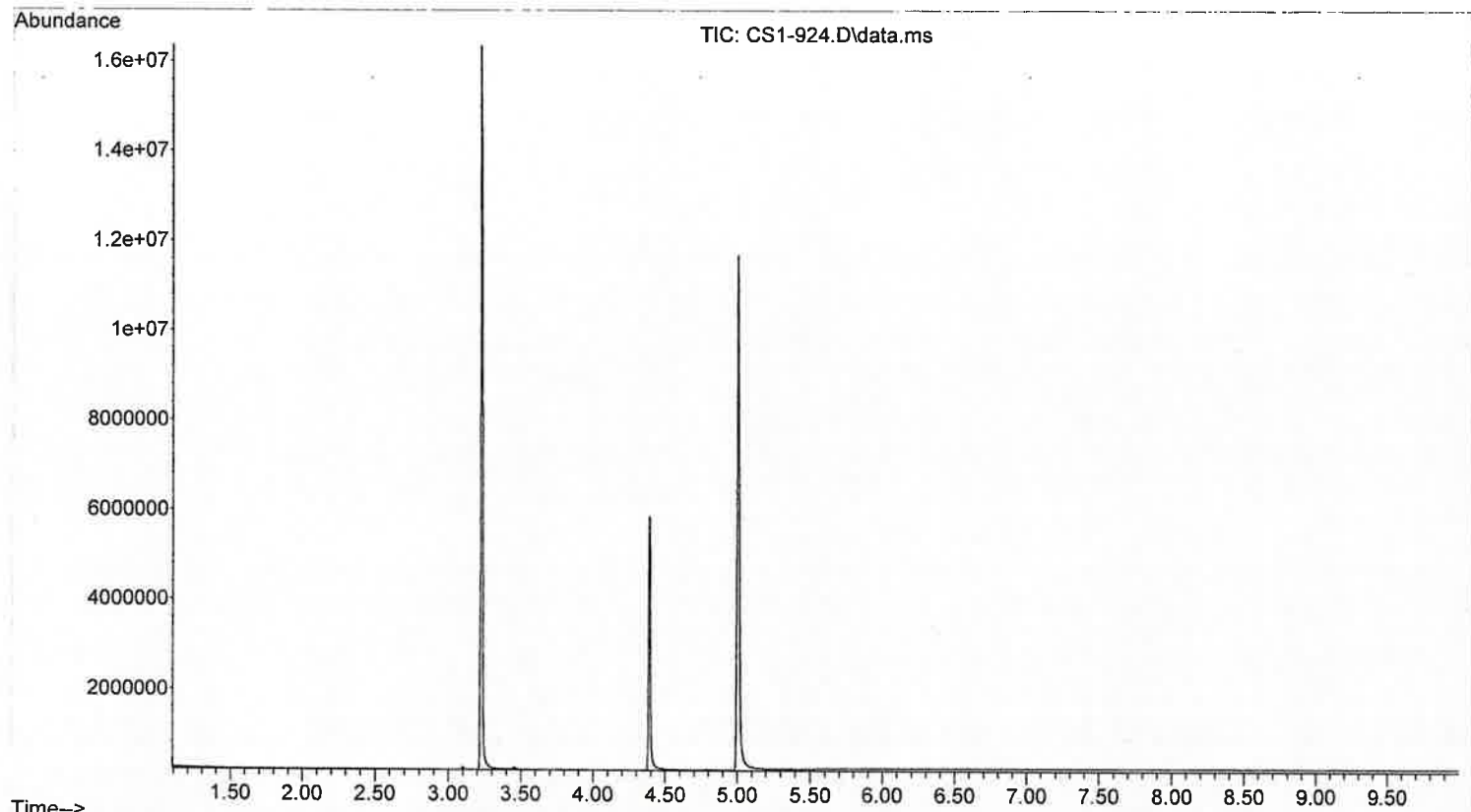
GJG 9-13-18

File :D:\MassHunter\GCMS\1\data\2018\GJG\CS1-924.D
Operator : GJG
Acquired : 24 Sep 2018 11:51 using AcqMethod MSDRUGS100.M
Instrument : Kenny
Sample Name:
Misc Info : PETHIDINE / COCAINE / HYDROCODONE
Vial Number: 0



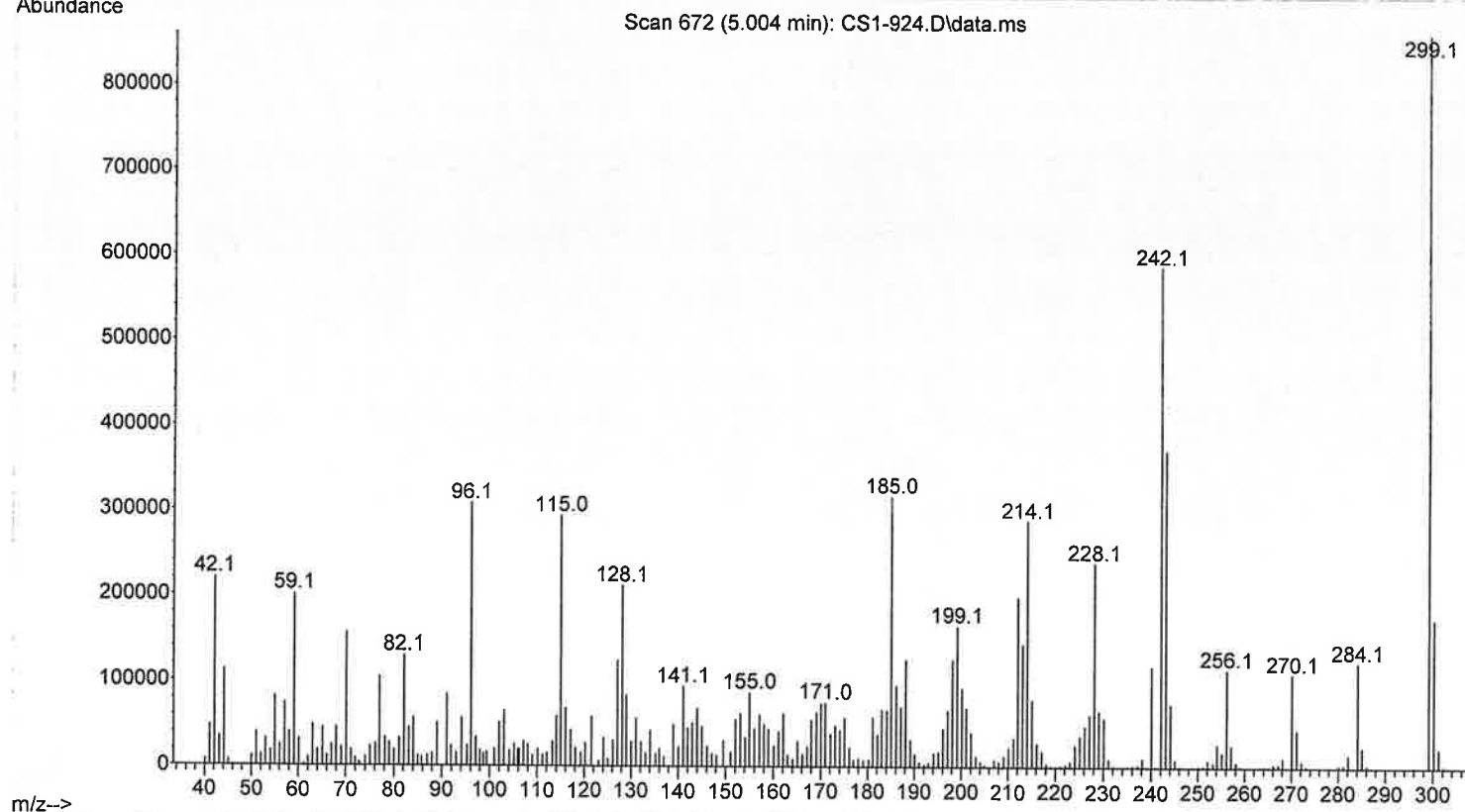
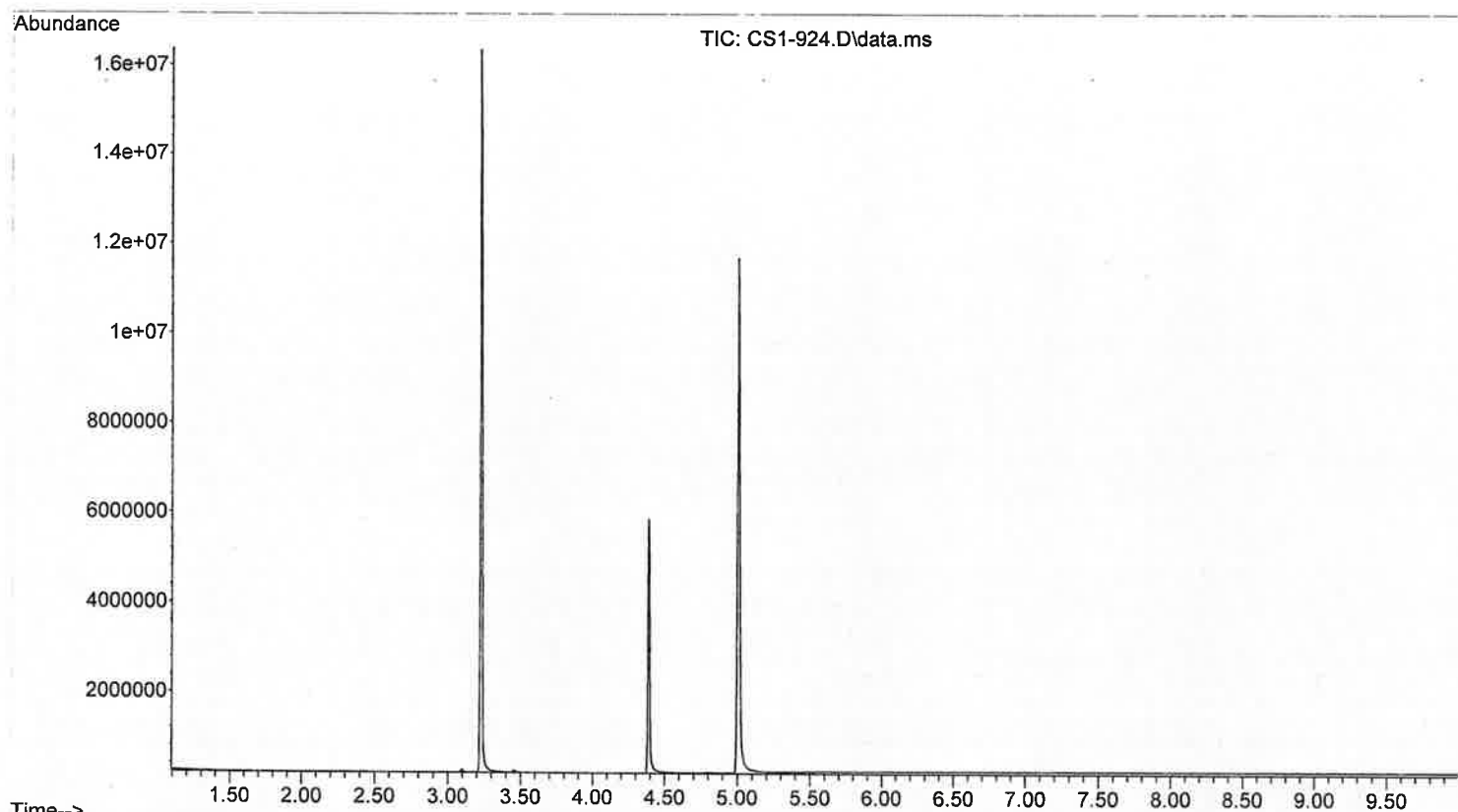
GJG 9-24-18

File :D:\MassHunter\GCMS\1\data\2018\GJG\CS1-924.D
Operator : GJG
Acquired : 24 Sep 2018 11:51 using AcqMethod MSDRUGS100.M
Instrument : Kenny
Sample Name:
Misc Info : PETHIDINE / COCAINE / HYDROCODONE
Vial Number: 0



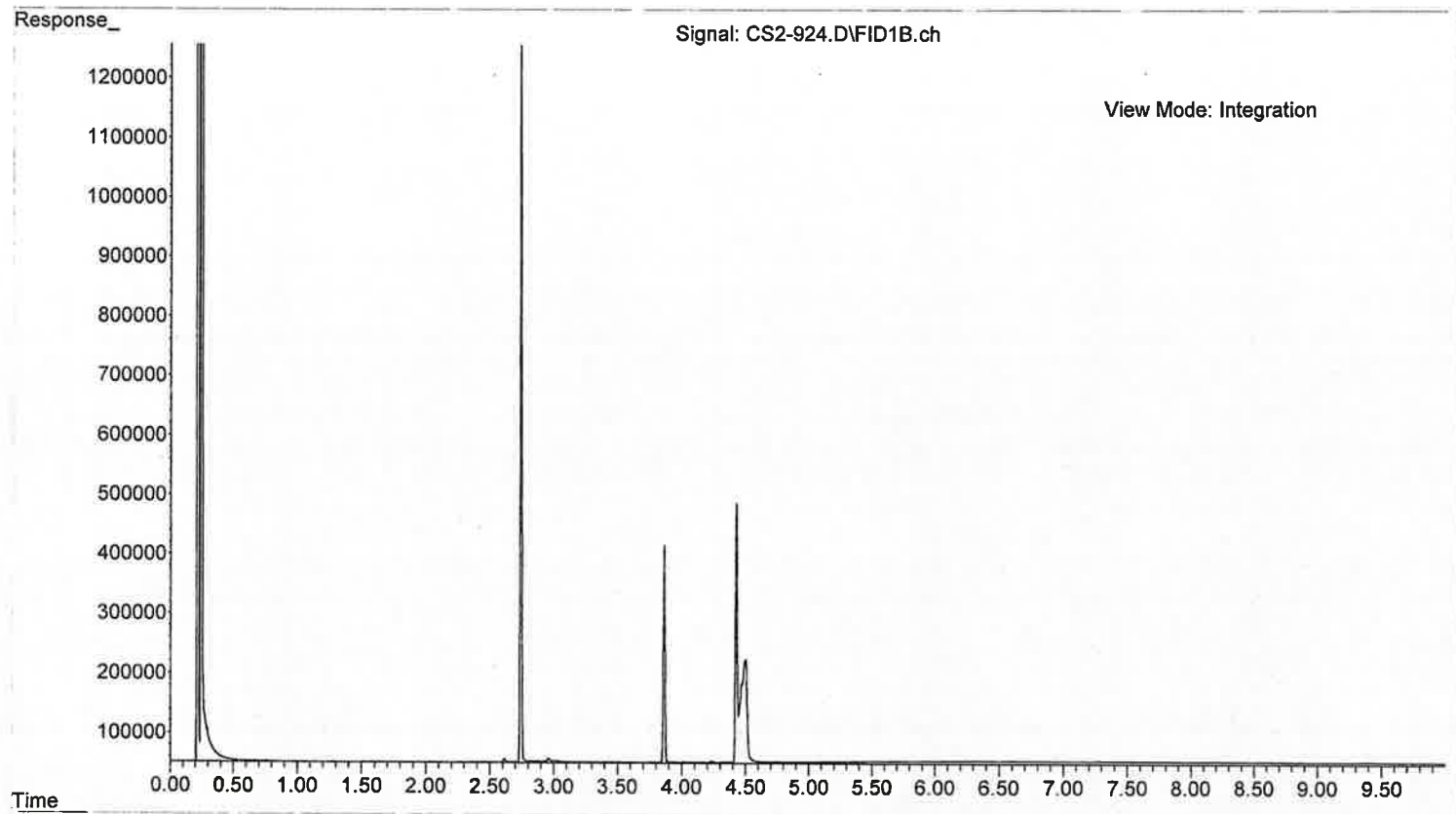
GJG-9-24-18

File :D:\MassHunter\GCMS\1\data\2018\GJG\CS1-924.D
Operator : GJG
Acquired : 24 Sep 2018 11:51 using AcqMethod MSDRUGS100.M
Instrument : Kenny
Sample Name:
Misc Info : PETHIDINE / COCAINE / HYDROCODONE
Vial Number: 0



GJG 9-24-18

File :D:\MassHunter\GCMS\1\data\2018\GJG\CS2-924.D
Operator : GJG
Acquired : 24 Sep 2018 12:39 using AcqMethod GC100.M
Instrument : Kenny
Sample Name: CALIBRATION STANDARD -- 100-280
Misc Info : PETHIDINE / COCAINE / HYDROCODONE
Vial Number: 1



GJG 9-24-18

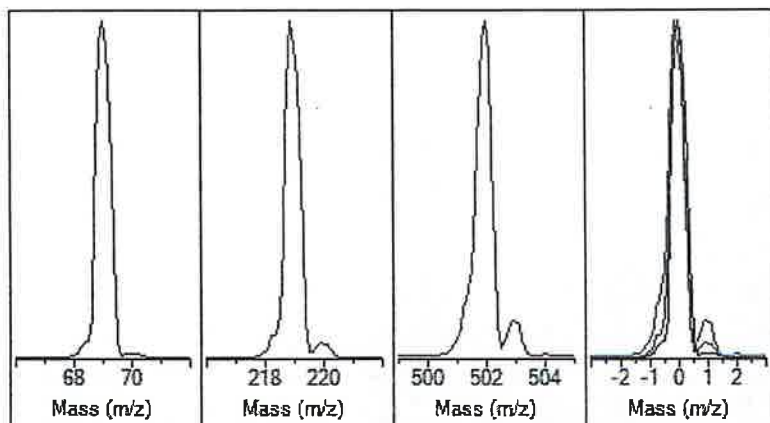
Autotune - 5977

Tune timestamp: 10/4/2018 12:44 PM (UTC-05:00)

Kenny

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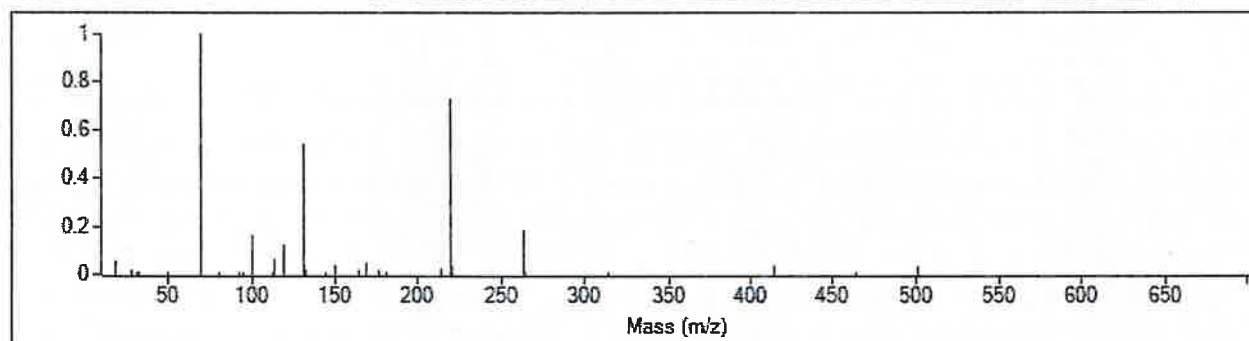
Ion Polarity	Pos	PFTBA	Open
Emission	34.6	Mass Gain	439
Electron Energy	70.0	Mass Offset	-23
Filament	1	Amu Gain	3040
Repeller	34.10	Amu Offset	132.19
Ion Focus	90.3	Width219	0.006
Entrance Lens	22.7	DC Polarity	Neg
Ent Lens Offset	13.07	HED Enable	On
Ion Body	0.00	EM Volts	915.6
Post Extractor 1	0	Extractor Lens	0.00
Post Extractor 2	0	Scan Speed	3
JetClean Flow	0	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	474,426	100.0%	0.61
218.90	354,743	74.8%	0.61
502.00	14,290	3.0%	0.61

Temperatures and Pressures

MS Source	230 Turbo Speed	100.0
MS Quad	150 HI Vac	1.10e-05

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	107	69.00	449,664	1,482,358



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	449,664	100.0%	70.00	4,899	1.1%
219.00	218.90	326,272	72.6%	220.00	14,068	4.3%
502.00	502.00	13,490	3.0%	503.00	1,351	10.0%

Air/Water Check: H2O ~5.1% N2 ~1.8% O2 ~0.6% CO2 ~0.3% N2/H2O ~35.5%

Column(1) Flow: 1.00 Column(2): 3.35 ml/min Interface Temp: 200

Ramp Criteria:

Ion Focus maximum 90 volts using Ion 502; Electron Multiplier Gain 42609.462

Repeller maximum 35 volts using ion 219; Gain Factor 0.4261

Mass Gain Values(Scan Speed): 444(3) 449(2) 463(1) 488(0) 575(FS1) 522(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	132.2	132.2	132.2	132.2	132.2	132.2	132.2
Entrance Lens Offset	13.1	13.1	13.1	13.1	13.1	13.1	13.1

GJG 10-4-18

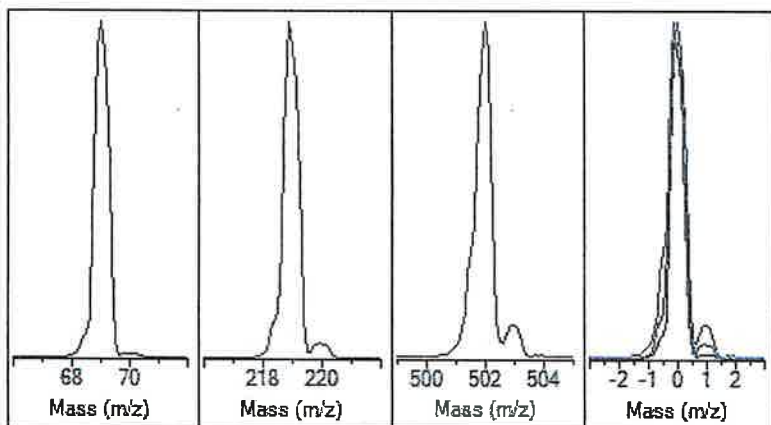
Autotune - 5977

Tune timestamp: 10/17/2018 12:32 PM (UTC-05:00)

Kenny

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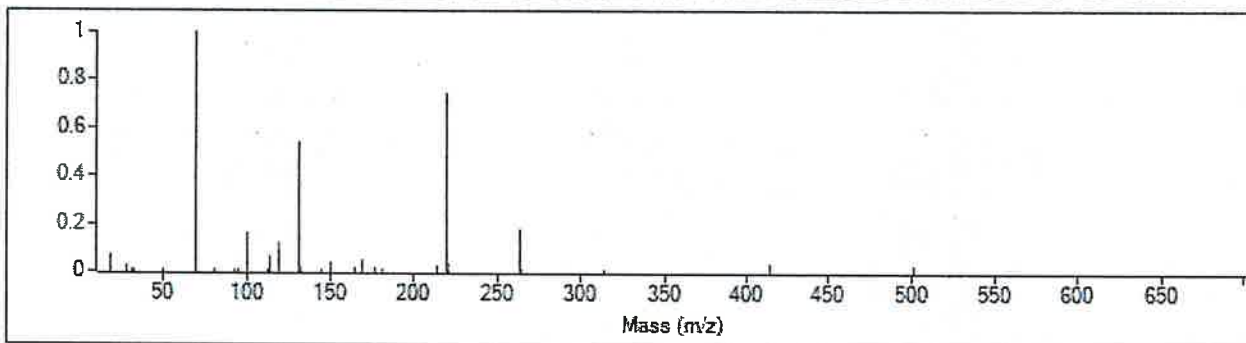
Ion Polarity	Pos	PFTBA	Open
Emission	34.6	Mass Gain	439
Electron Energy	70.0	Mass Offset	-23
Filament	1	Amu Gain	3065
Repeller	32.51	Amu Offset	133.31
Ion Focus	89.3	Width219	0.026
Entrance Lens	22.7	DC Polarity	Neg
Ent Lens Offset	13.07	HED Enable	On
Ion Body	0.00	EM Volts	935.5
Post Extractor 1	0	Extractor Lens	0.00
Post Extractor 2	0	Scan Speed	3
JetClean Flow	0	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	487,962	100.0%	0.60
218.90	369,544	75.7%	0.60
502.00	11,590	2.4%	0.57

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	HI Vac	1.07e-05

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	111	69.00	457,024	1,513,542



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	457,024	100.0%	70.00	5,131	1.1%
219.00	219.00	338,816	74.1%	220.00	14,654	4.3%
502.00	502.00	10,697	2.3%	503.00	1,031	9.6%

Air/Water Check: H2O ~6.7% N2 ~2.6% O2 ~0.8% CO2 ~0.3% N2/H2O ~39.1%

Column(1) Flow: 1.10 Column(2): 3.33 ml/min Interface Temp: 200

Ramp Criteria:

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 55033.834

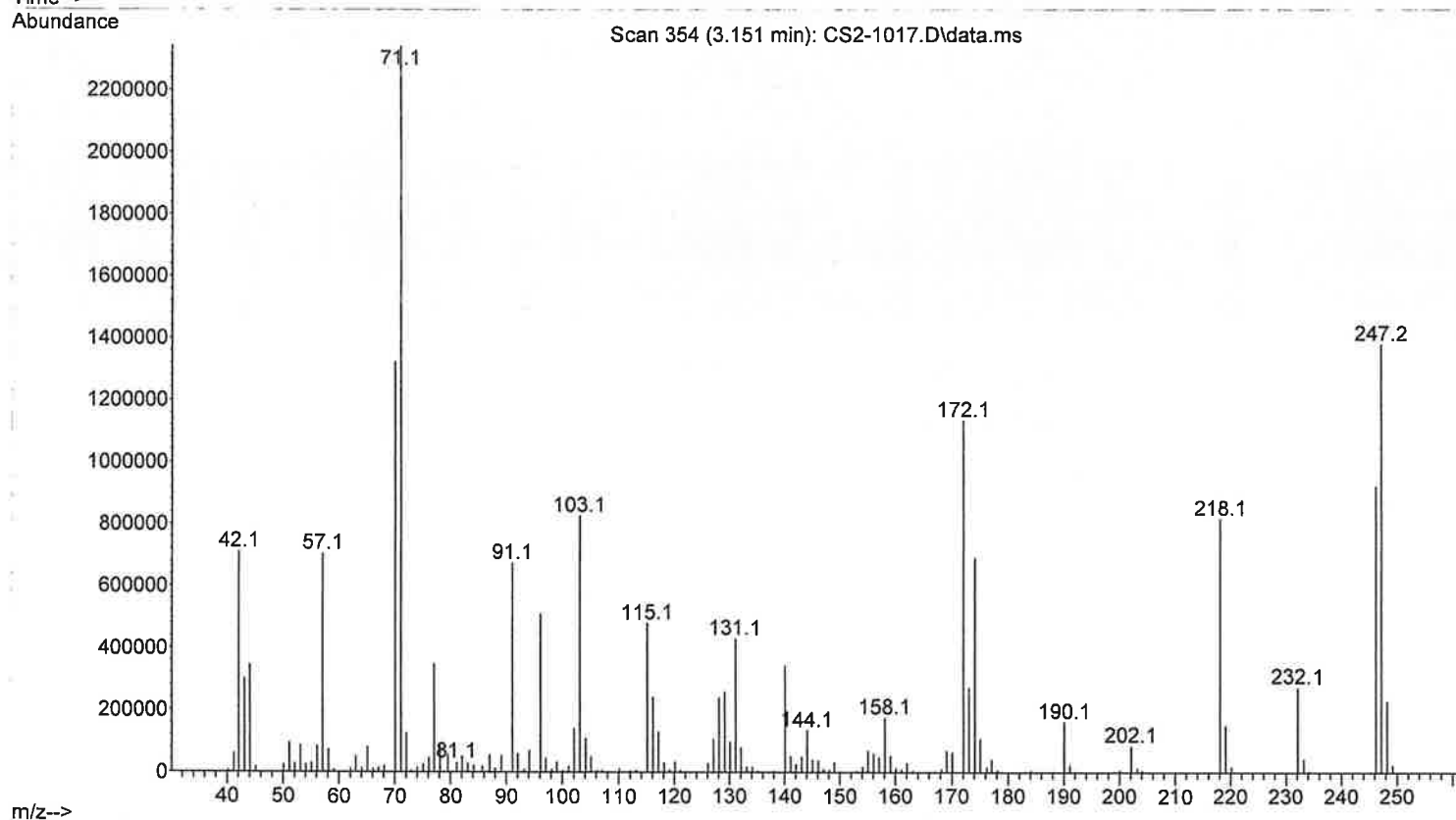
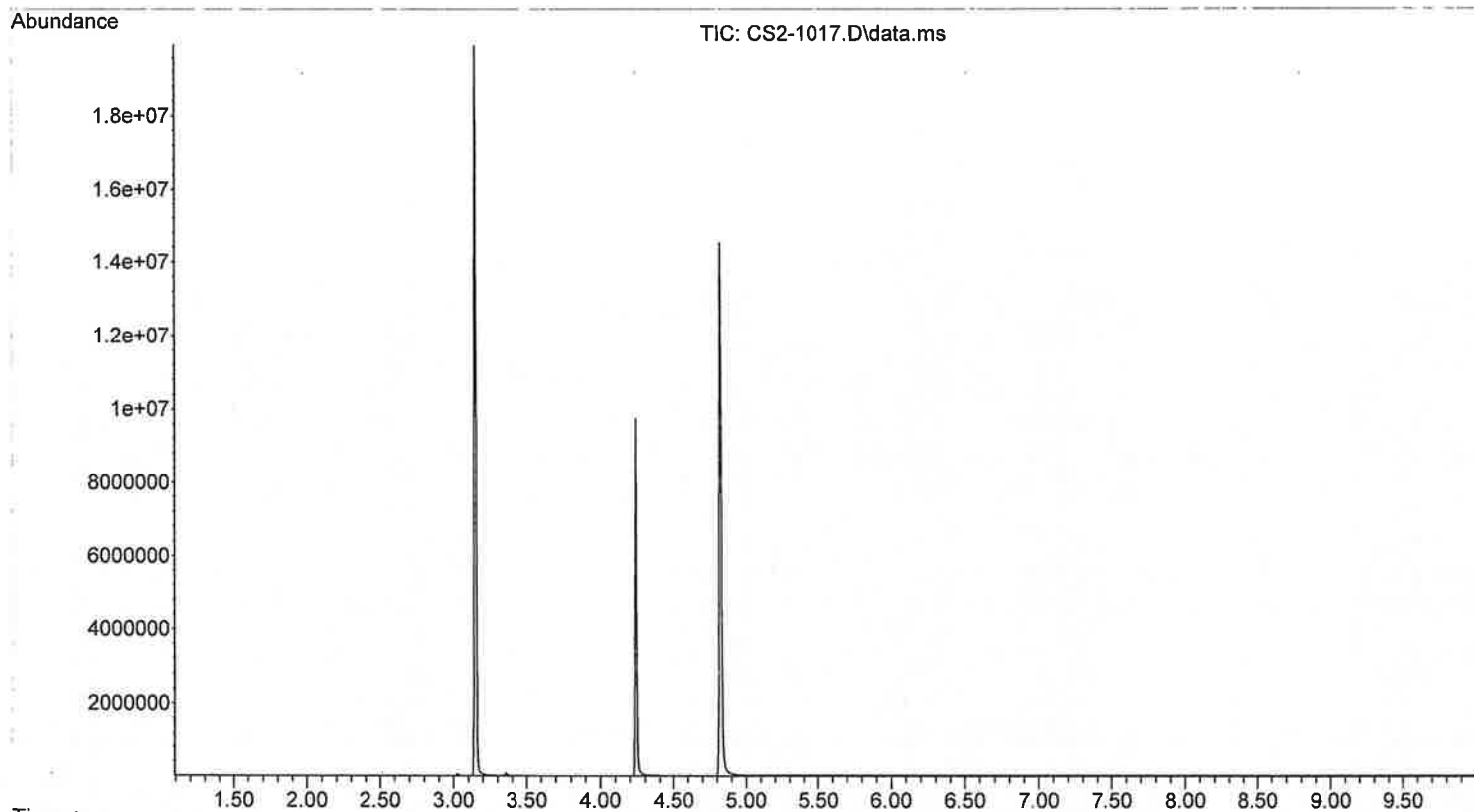
Repeller maximum 35 volts using ion 219; Gain Factor 0.5503

Mass Gain Values(Scan Speed): 445(3) 451(2) 465(1) 494(0) 582(FS1) 529(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	133.3	133.3	133.3	133.3	133.3	133.3	133.3
Entrance Lens Offset	13.1	13.1	13.1	13.1	13.1	13.1	13.1

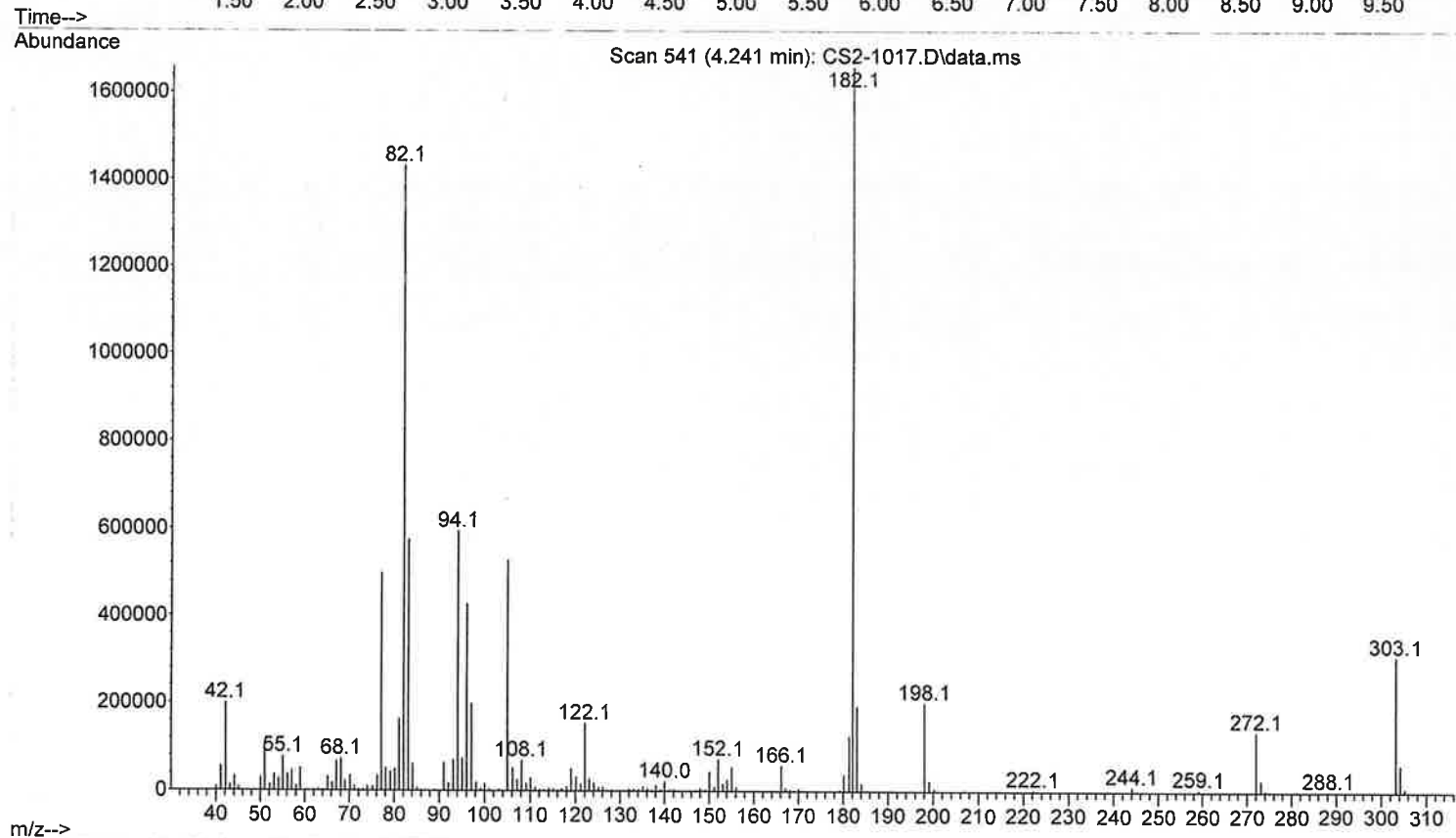
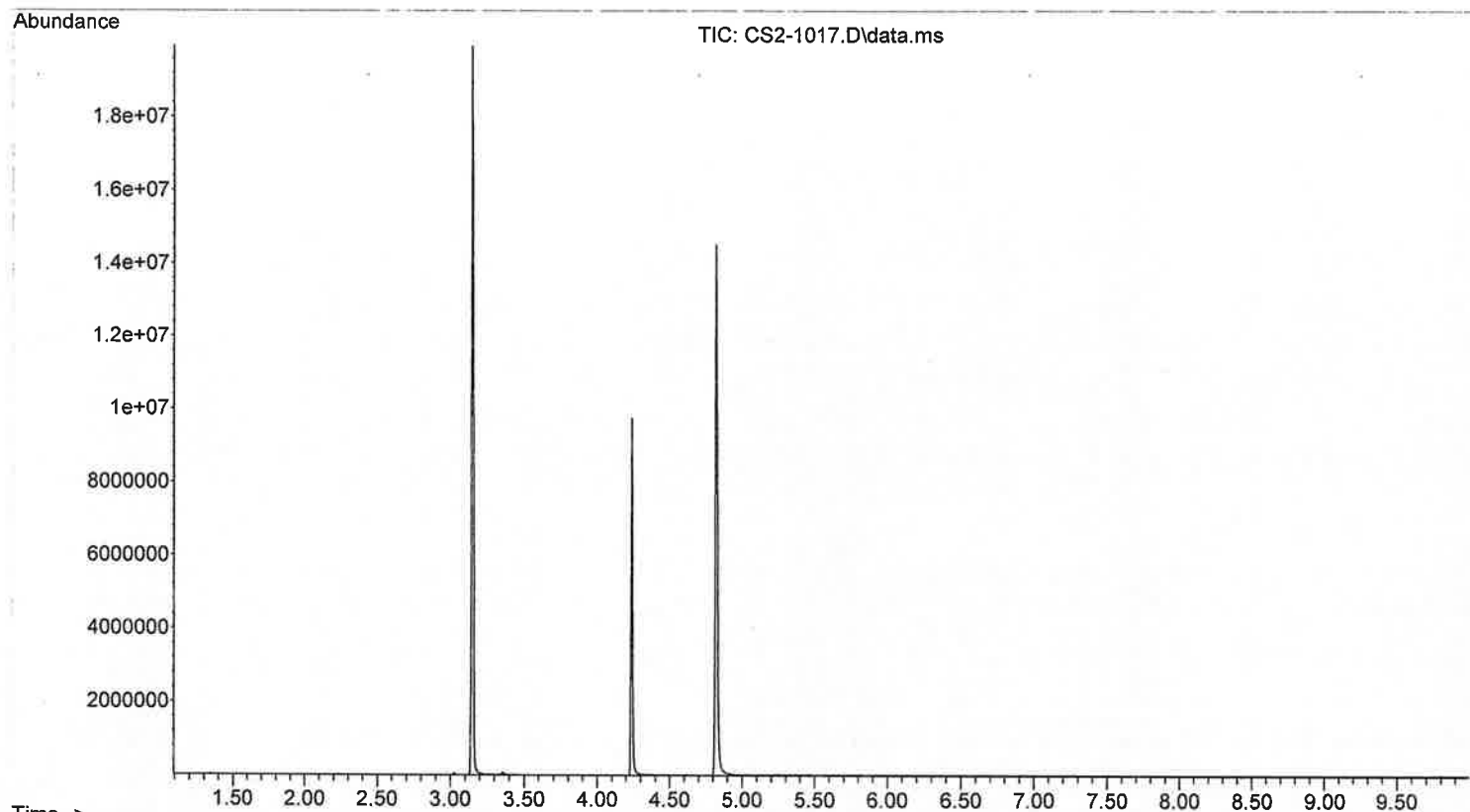
GJG 10-17-18

File :D:\MassHunter\GCMS\1\data\2018\GJG\CS2-1017.D
Operator :
Acquired : 17 Oct 2018 16:23 using AcqMethod MSDRUGS100.M
Instrument : Kenny
Sample Name:
Misc Info : PETHIDINE / COCAINE / HYDROCODONE
Vial Number: 0



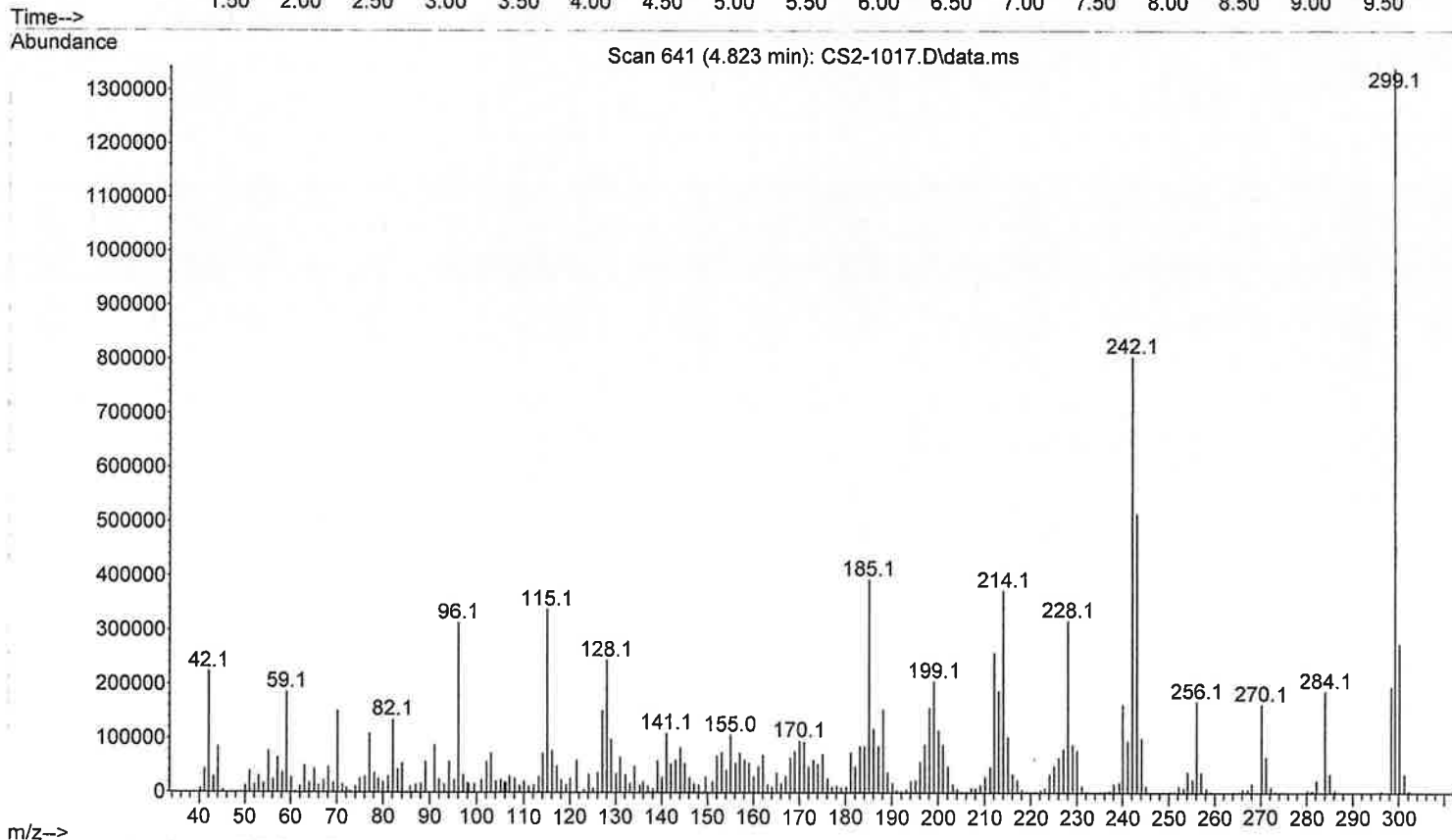
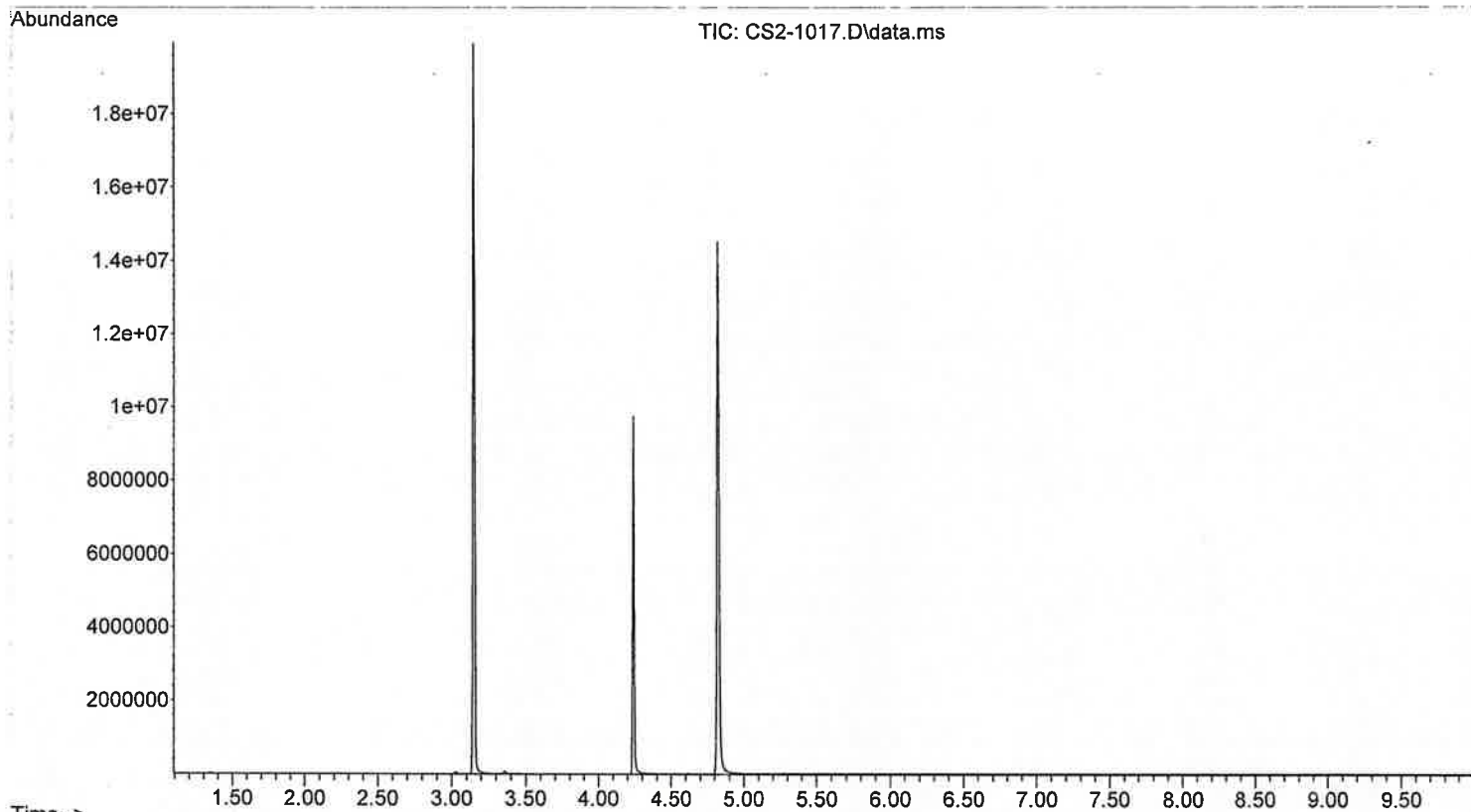
GJG 10-17-18

File :D:\MassHunter\GCMS\1\data\2018\GJG\CS2-1017.D
Operator :
Acquired : 17 Oct 2018 16:23 using AcqMethod MSDRUGS100.M
Instrument : Kenny
Sample Name:
Misc Info : PETHIDINE / COCAINE / HYDROCODONE
Vial Number: 0



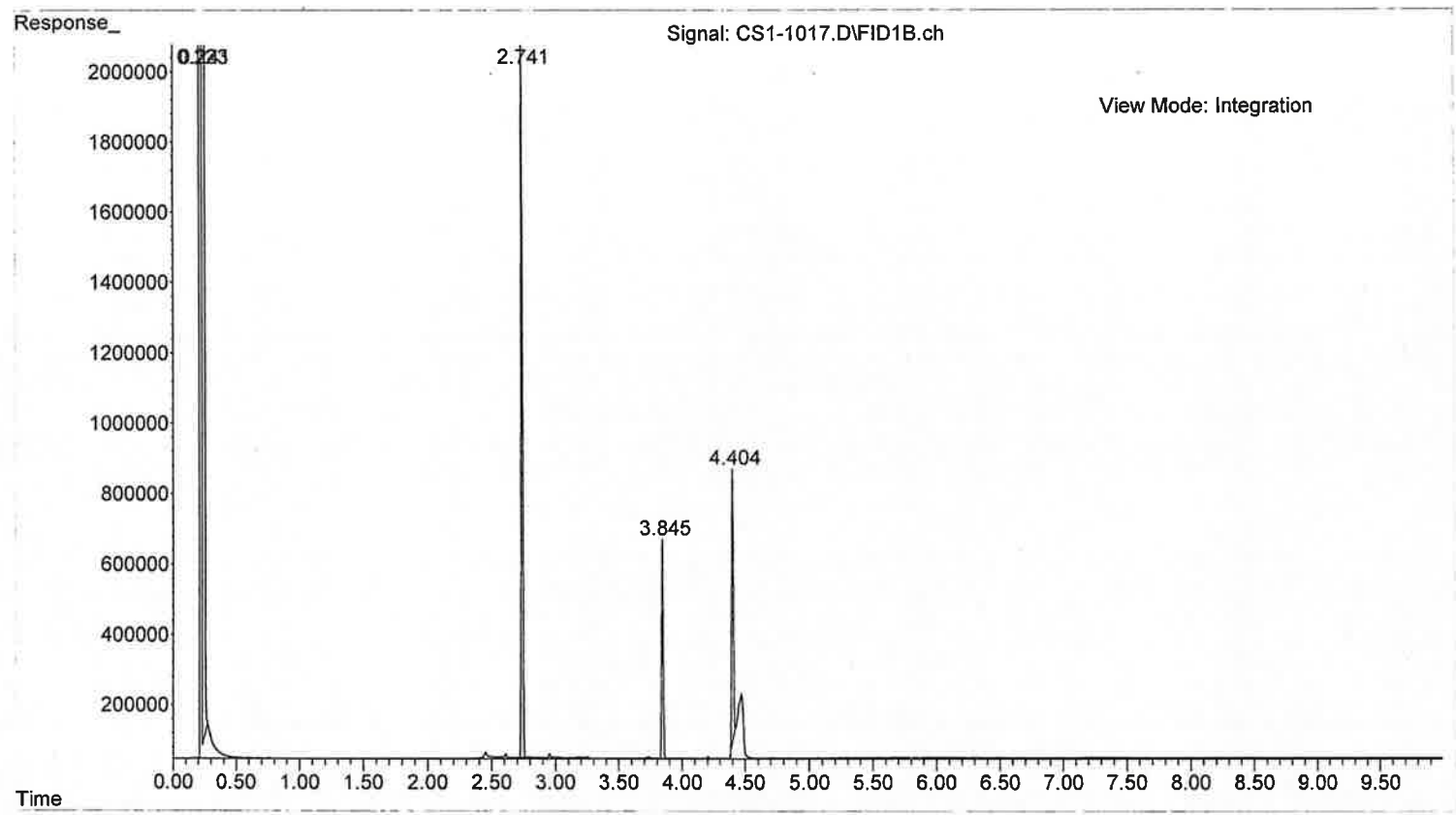
GJG 10-17-18

File :D:\MassHunter\GCMS\1\data\2018\GJG\CS2-1017.D
Operator :
Acquired : 17 Oct 2018 16:23 using AcqMethod MSDRUGS100.M
Instrument : Kenny
Sample Name:
Misc Info : PETHIDINE / COCAINE / HYDROCODONE
Vial Number: 0

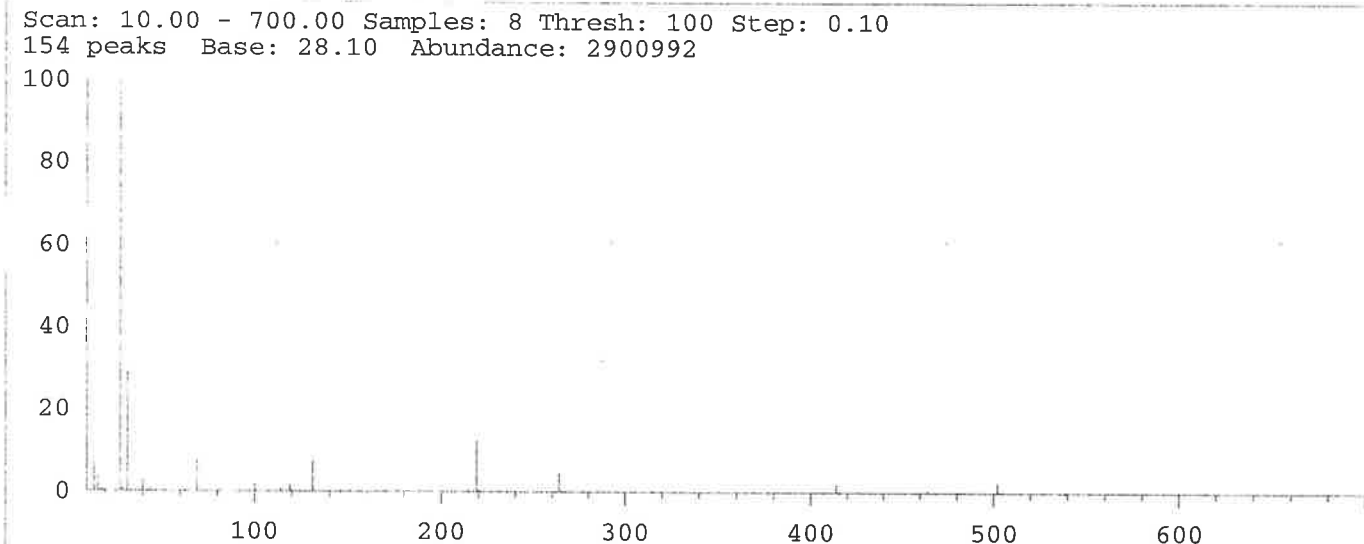
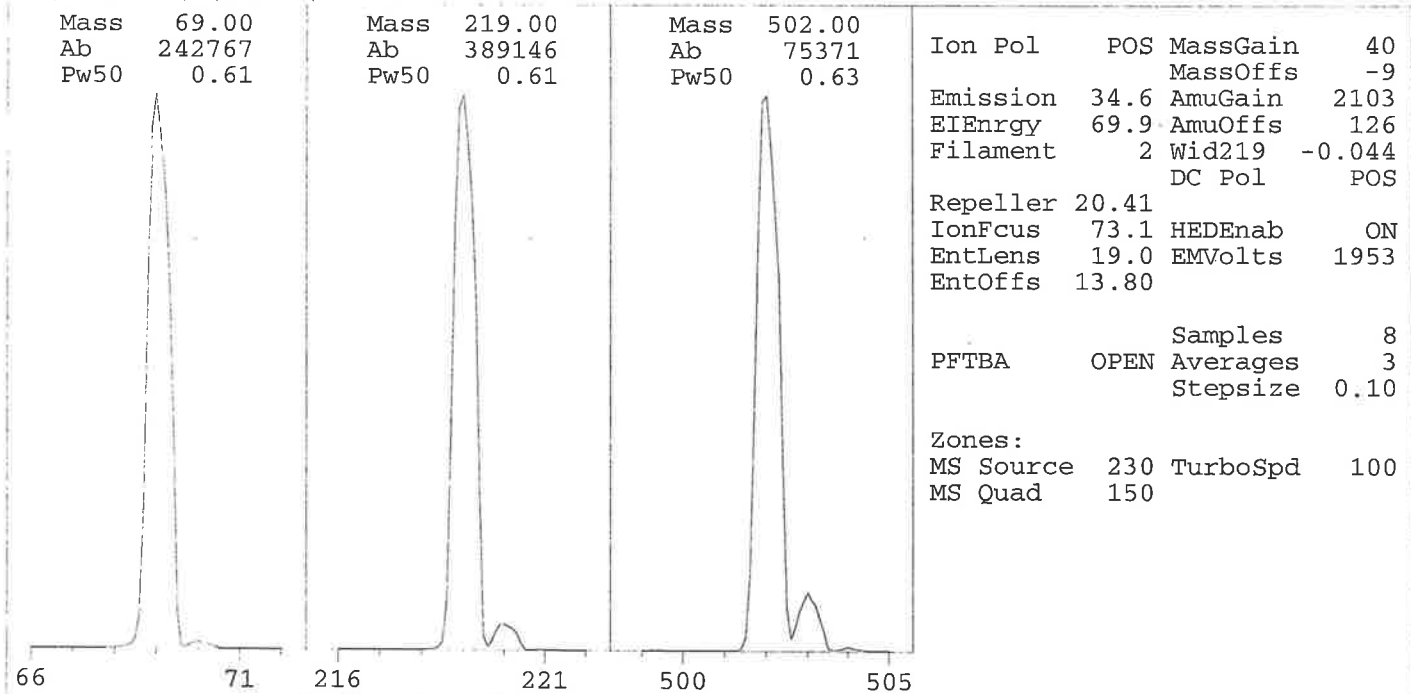


GJG 10-17-18

File :D:\MassHunter\GCMS\1\data\2018\GJG\CS1-1017.D
Operator :
Acquired : 17 Oct 2018 16:06 using AcqMethod GC100.M
Instrument : Kenny
Sample Name: CALIBRATION STANDARD -- 100-280
Micro Info : PETHIDINE / COCAINE / HYDROCODONE
Vial Number: 1



GJG 10-17-18



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	222016	100.00	70.00	2361	1.06
219.00	356224	160.45	220.00	15407	4.33
502.10	69432	31.27	503.10	6886	9.92

Air/Water Check: H2O~6.48% N2~1306.66% O2~381.84% CO2~5.06% N2/H2O~20170.99%

Column Flow: Front: 1.467 Back: 1.781 ml/min. Interface Temp: 280

Ramp Criteria:

Ion Focus Maximum 90 volts using ion 502; EM Gain 158028
Repeller Maximum 35 volts using ion 219;

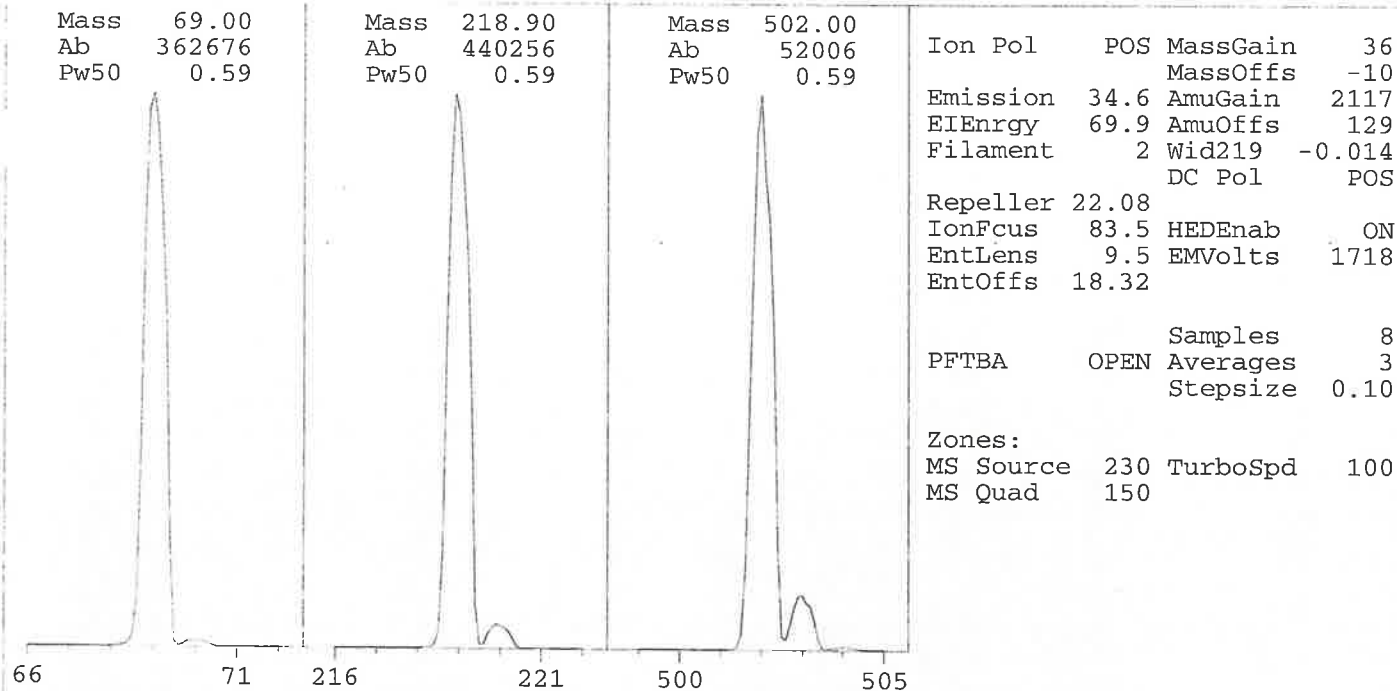
MassGain Values @Samples: 44@3 36@2 40@1 40@0 40@FS

TARGET MASS:	50	69	131	219	414	502	800
Amu Offset:	126.0	126.0	126.0	126.0	126.0	126.0	126.0
Entrance Lens Offset:	13.8	13.8	13.8	13.8	13.8	13.8	13.8

56-6-4-18

Wed Jun 06 14:58:49 2018
C:\MSDCHEM\1\5973N\atune.u

Instrument: Espresso

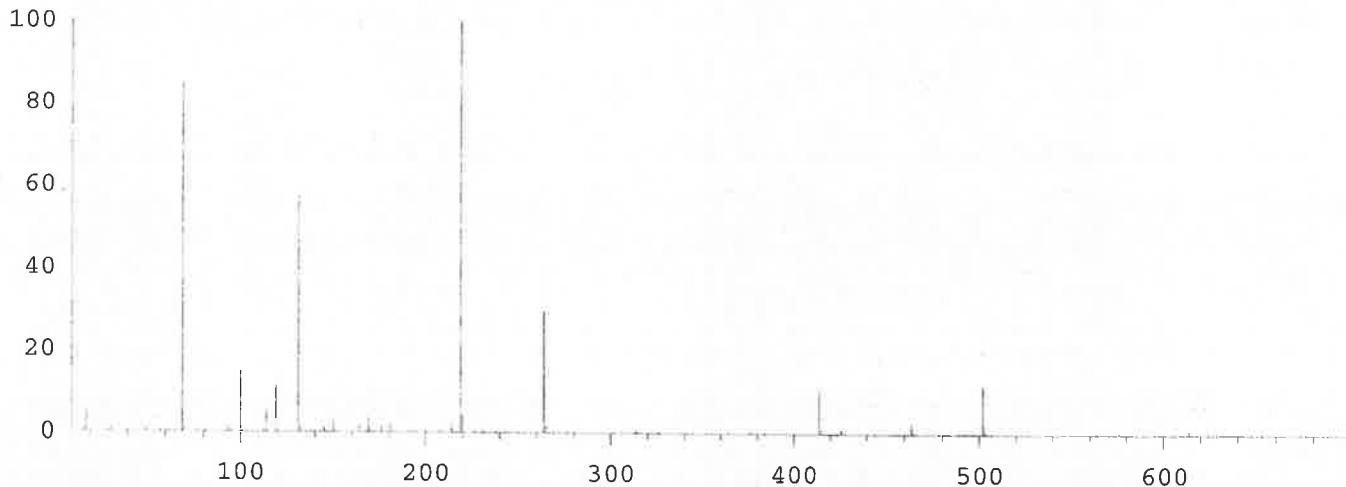


Ion Pol POS MassGain 36
MassOffs -10
Emission 34.6 AmuGain 2117
EIEnrgy 69.9 AmuOffs 129
Filament 2 Wid219 -0.014
DC Pol POS
Repeller 22.08
IonFcus 83.5 HEDenab ON
EntLens 9.5 EMVolts 1718
EntOffs 18.32
PFTBA OPEN Samples 8
Averages 3
Stepsize 0.10

Zones:
MS Source 230 TurboSpd 100
MS Quad 150

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100 Step: 0.10

143 peaks Base: 219.00 Abundance: 397440



Air/Water Check: H2O~6.92% N2~0.70% O2~0.15% CO2~0.93% N2/H2O~10.19%

Column Flow: Front: 1.467 Back: 1.781 ml/min. Interface Temp: 280

Ramp Criteria:

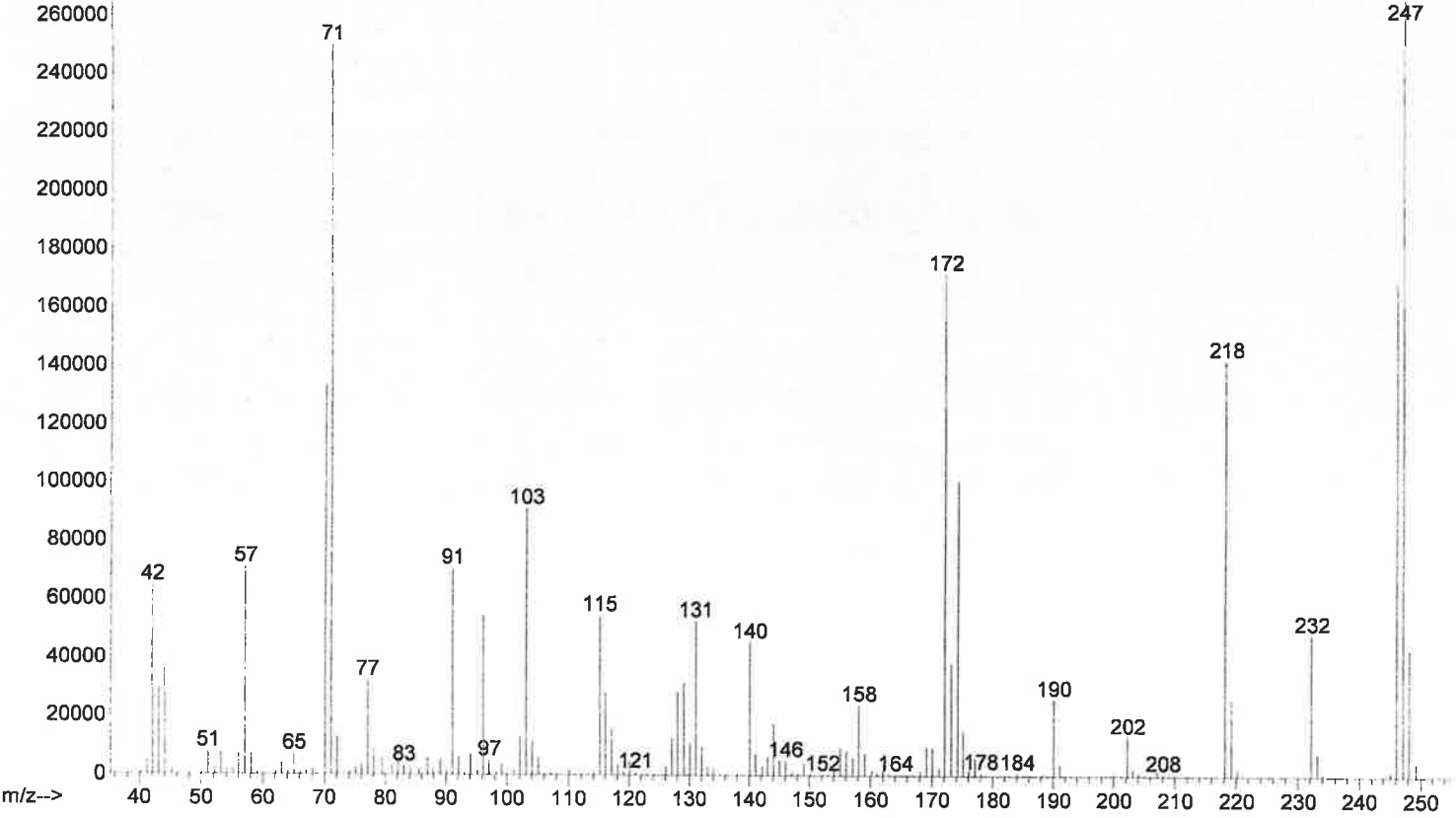
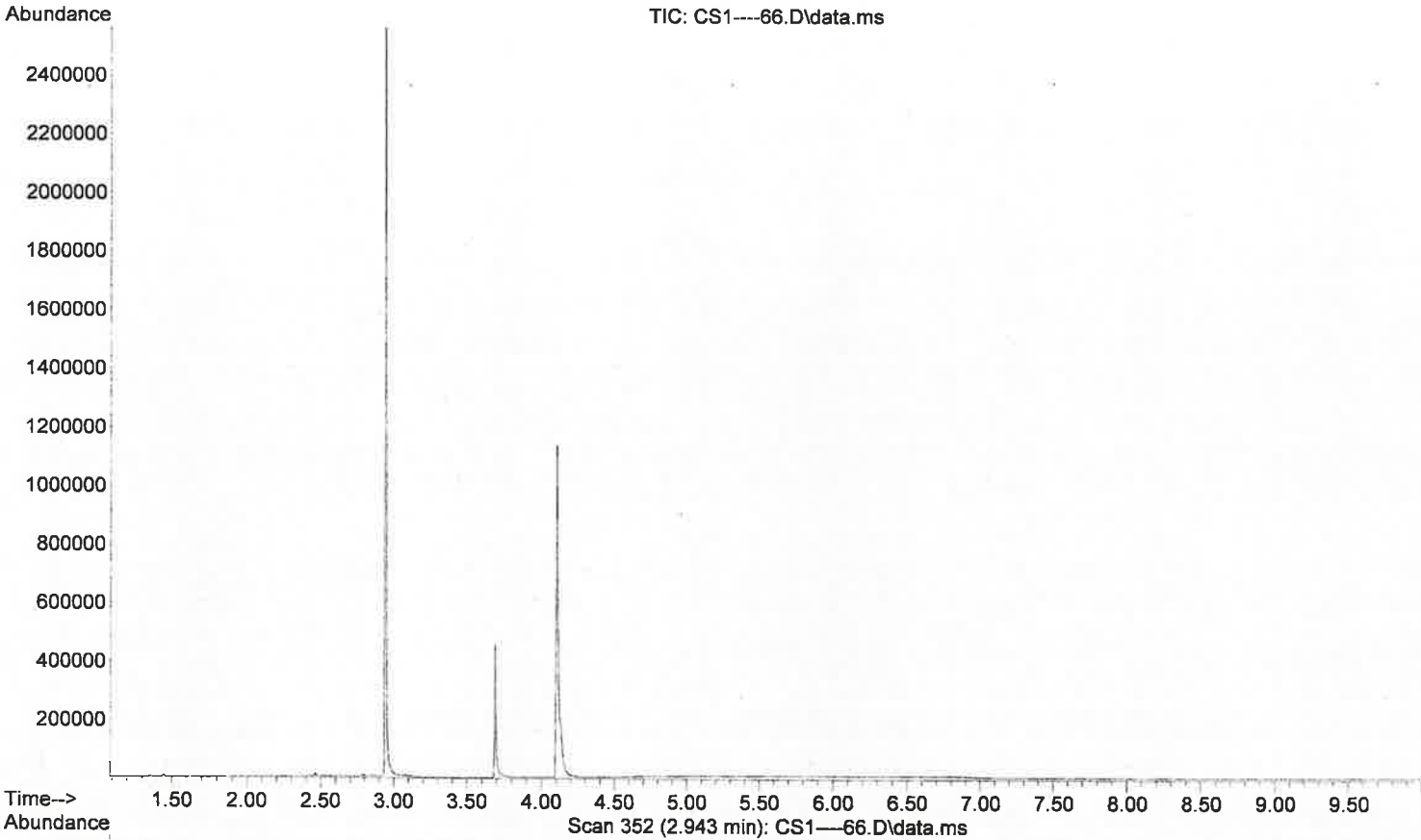
Ion Focus Maximum 90 volts using ion 502; EM Gain 55298
Repeller Maximum 35 volts using ion 219;

MassGain Values @Samples: 39@3 39@2 39@1 38@0 36@FS

TARGET MASS:	50	69	131	219	414	502	800
Amu Offset:	129.0	129.0	129.0	129.0	129.0	129.0	129.0
Entrance Lens Offset:	18.3	18.3	18.3	18.3	18.3	18.3	18.3

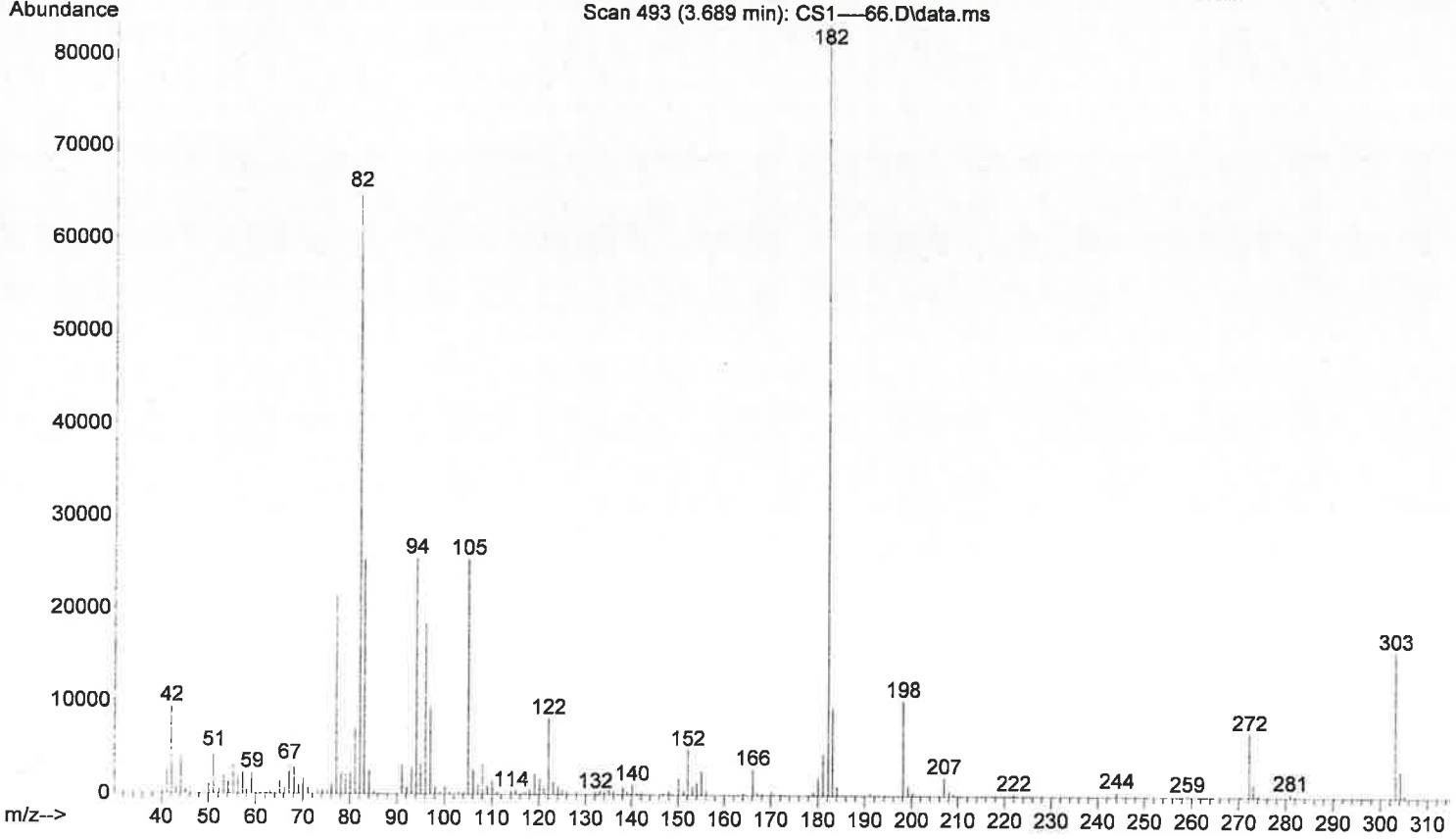
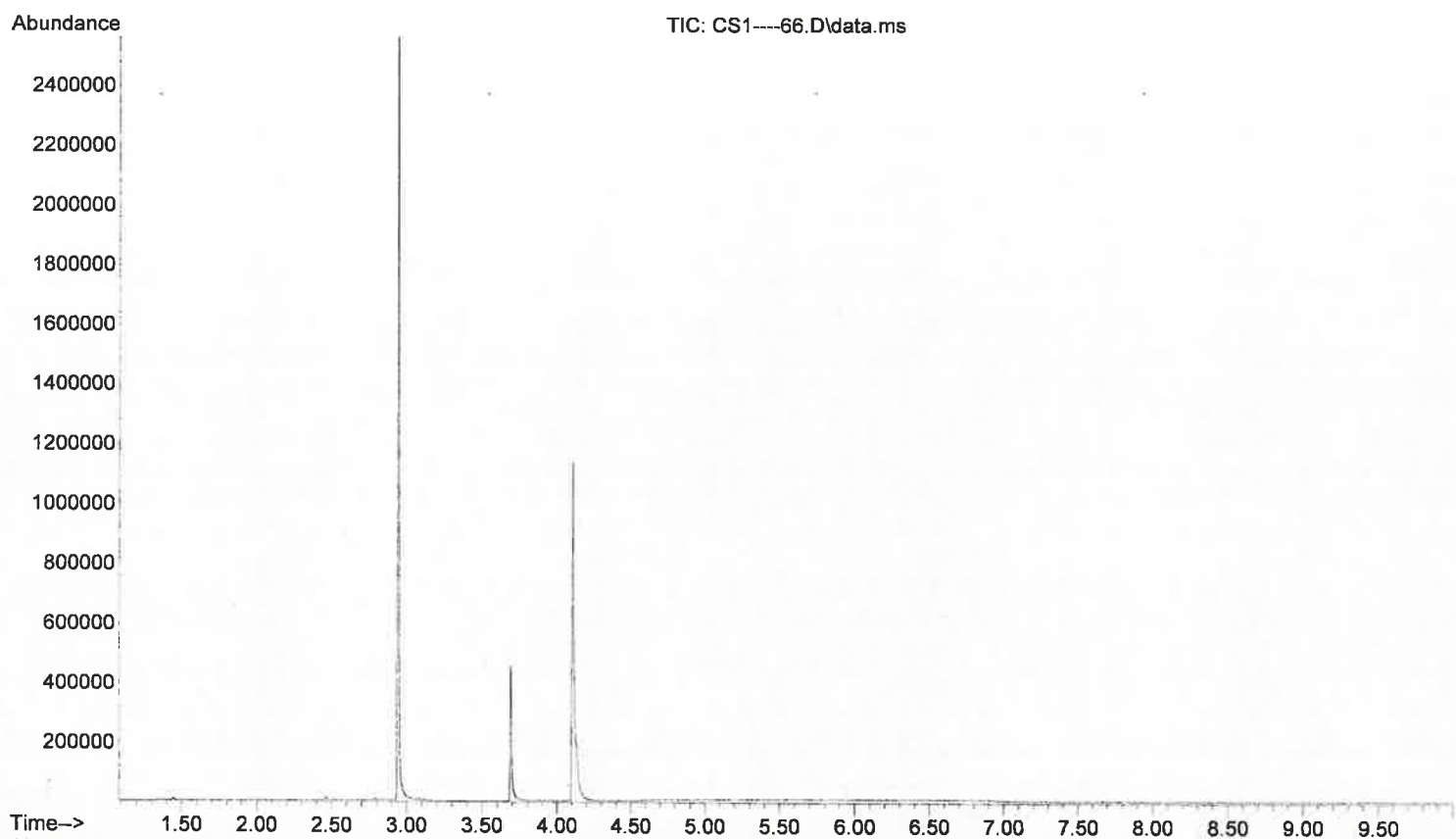
GJG 6-7-18

File :C:\msdchem\1\DATA\2018\GJG\CS1----66.D
Operator : GJG
Acquired : 6 Jun 2018 15:28 using AcqMethod MSDRUGS100.M
Instrument : Espresso
Sample Name: CALIBRATION STANDARD -- 100-280
Misc Info : PETHIDINE / COCAINE / HYDROCODONE
Vi Number: 1



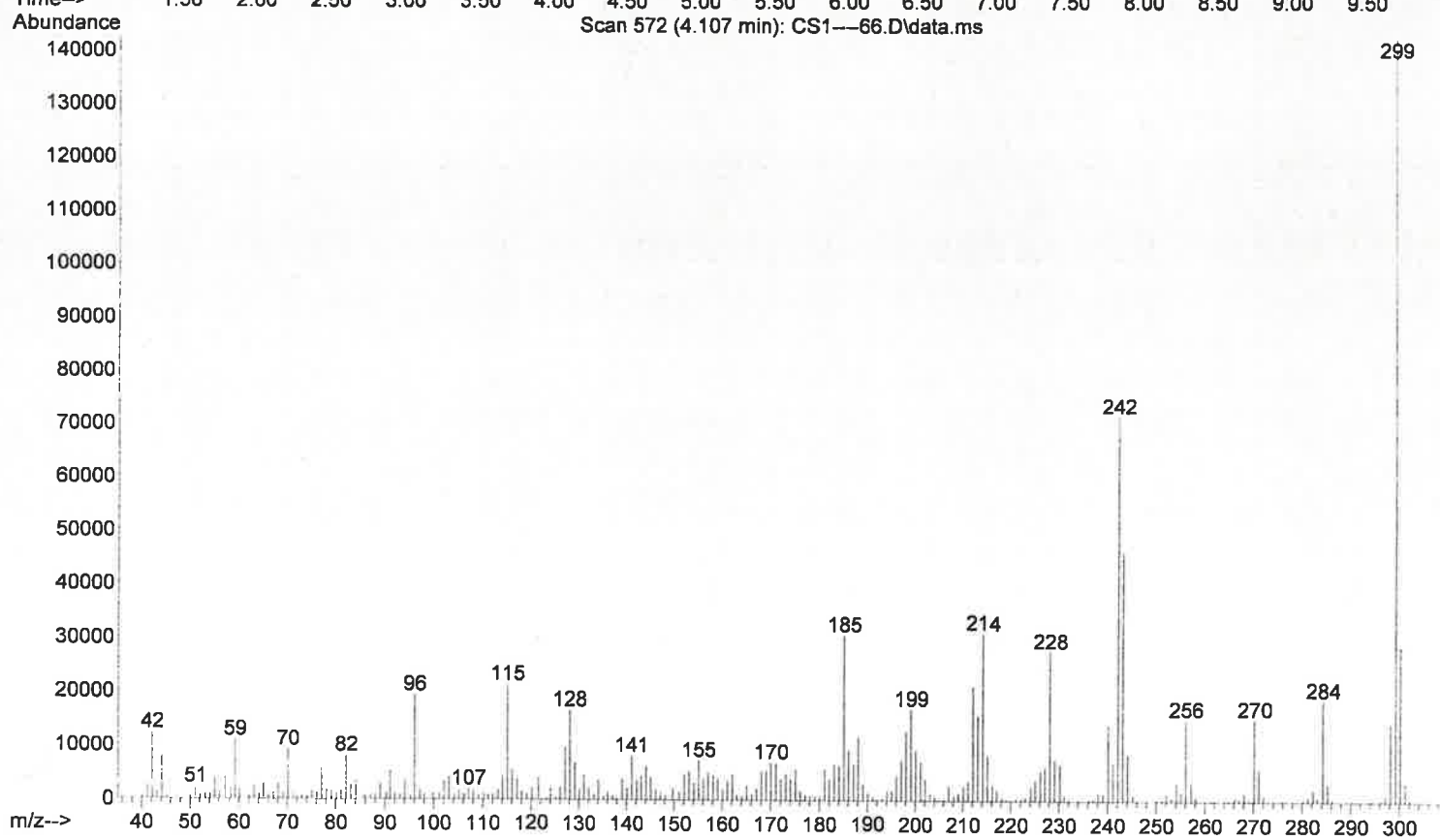
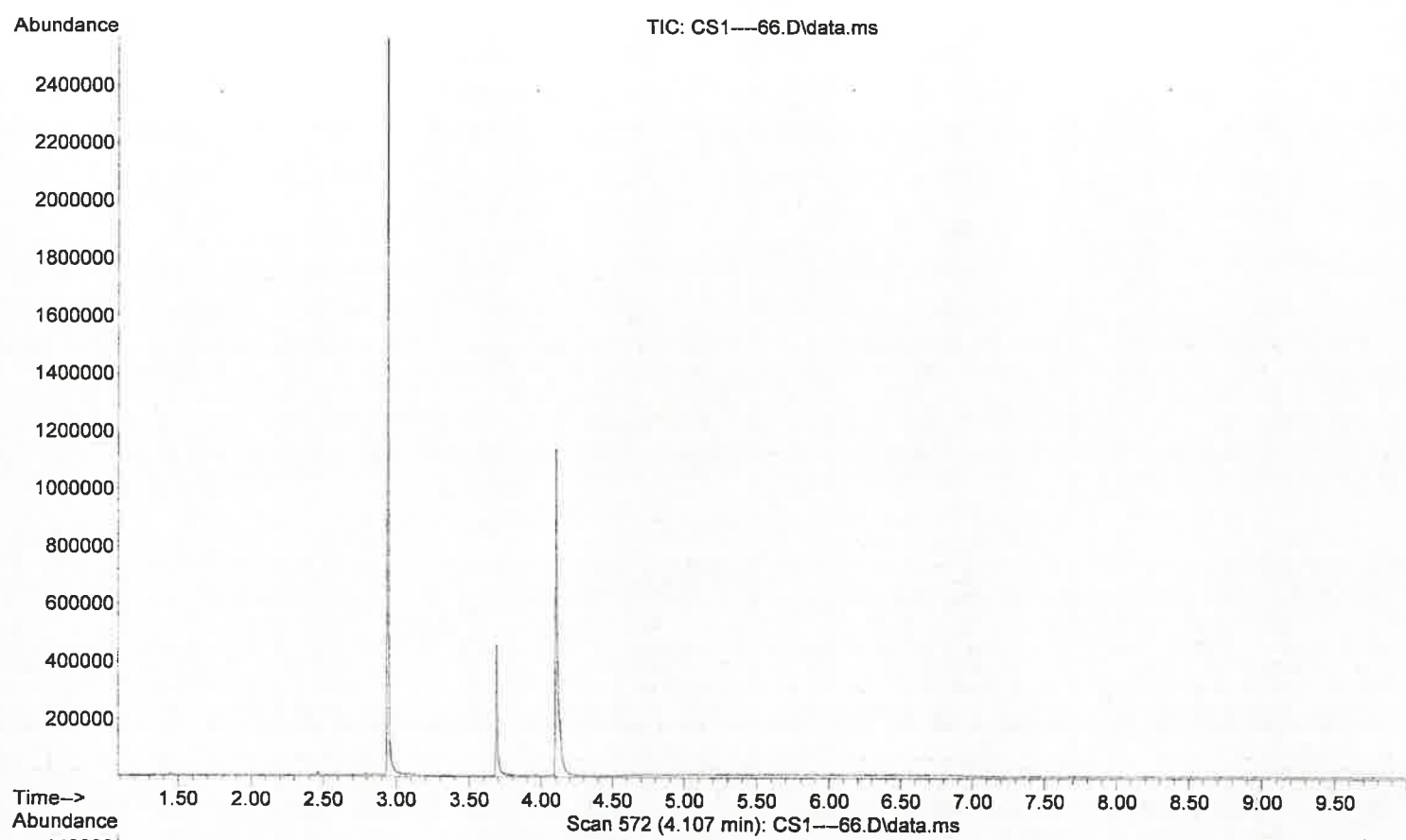
GJG 6-7-18

File :C:\msdchem\1\DATA\2018\GJG\CS1----66.D
Operator : GJG
Acquired : 6 Jun 2018 15:28 using AcqMethod MSDRUGS100.M
Instrument : Espresso
Sample Name: CALIBRATION STANDARD -- 100-280
Misc Info : PETHIDINE / COCAINE / HYDROCODONE
Vi Number: 1



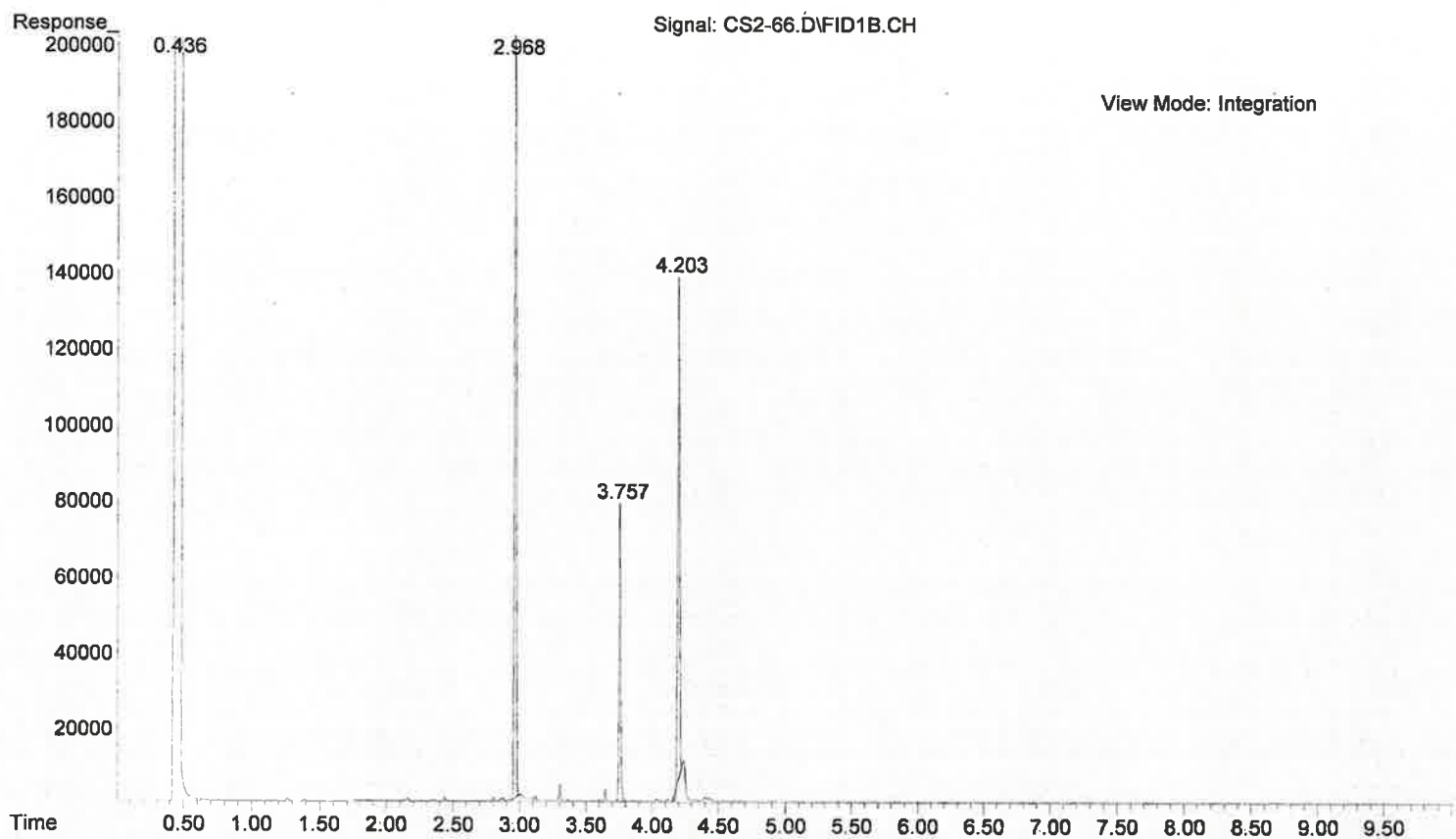
GJG 6-7-18

File :C:\msdchem\1\DATA\2018\GJG\CS1----66.D
Operator : GJG
Acquired : 6 Jun 2018 15:28 using AcqMethod MSDRUGS100.M
Instrument : Espresso
Sample Name: CALIBRATION STANDARD -- 100-280
Misc Info : PETHIDINE / COCAINE / HYDROCODONE
Vi Number: 1

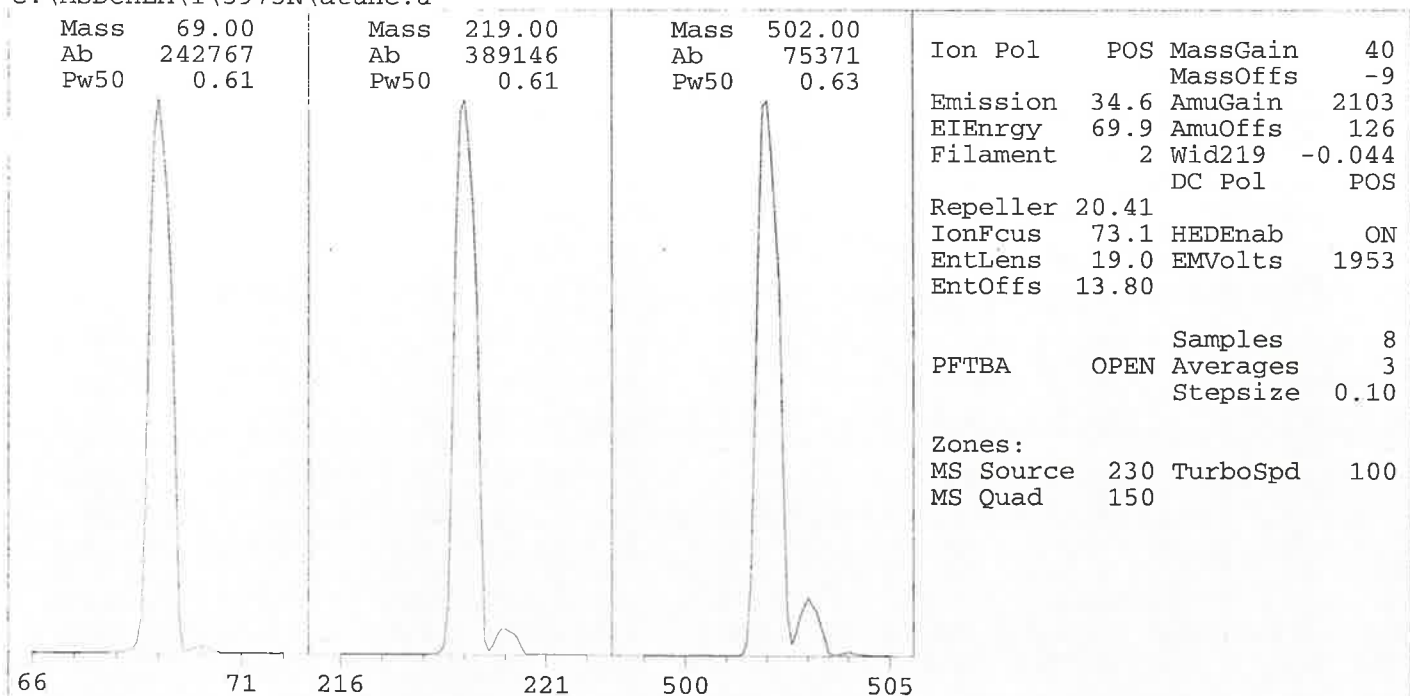


GJG-6-7-18

File :C:\msdchem\1\DATA\2018\GJG\CS2-66.D
Operator : GJG
Acquired : 06 Jun 2018 17:51 using AcqMethod GC100.M
Instrument : HP G1530A
Sample Name: CALIBRATION STANDARD -- 100-280
Misc Info : PETHIDINE / COCAINE / HYDROCODONE
Vial Number: 1

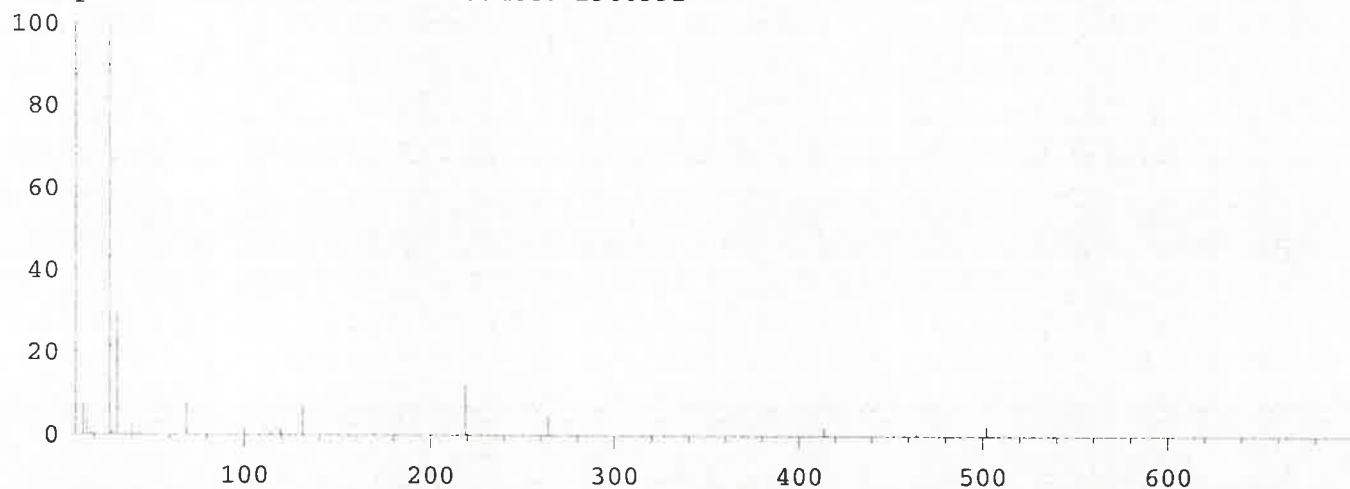


GJG 6-7-18



Scan: 10.00 - 700.00 Samples: 8 Thresh: 100 Step: 0.10

154 peaks Base: 28.10 Abundance: 2900992



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	222016	100.00	70.00	2361	1.06
219.00	356224	160.45	220.00	15407	4.33
502.10	69432	31.27	503.10	6886	9.92

Air/Water Check: H2O~6.48% N2~1306.66% O2~381.84% CO2~5.06% N2/H2O~20170.99%

Column Flow: Front: 1.467 Back: 1.781 ml/min. Interface Temp: 280

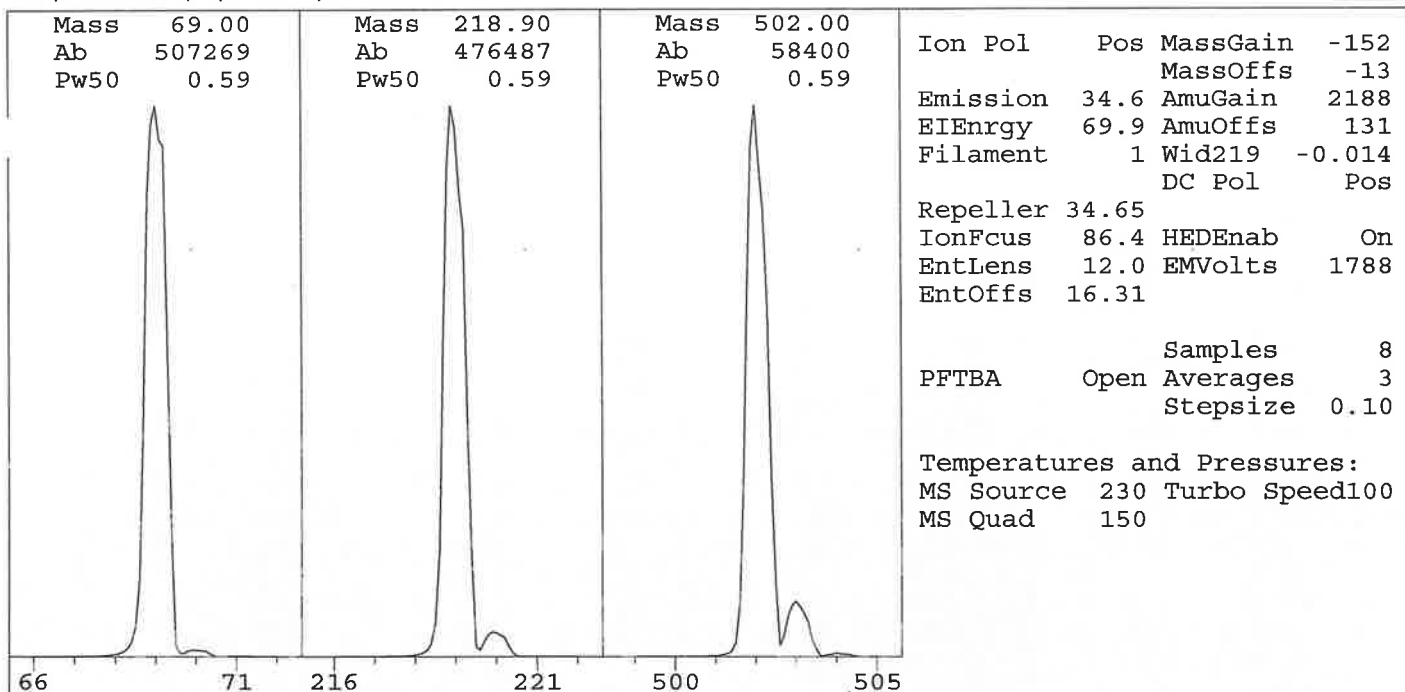
Ramp Criteria:

Ion Focus Maximum	90	volts using ion	502;	EM Gain	158028
Repeller Maximum	35	volts using ion	219;		

MassGain Values @Samples: 44@3 36@2 40@1 40@0 40@FS

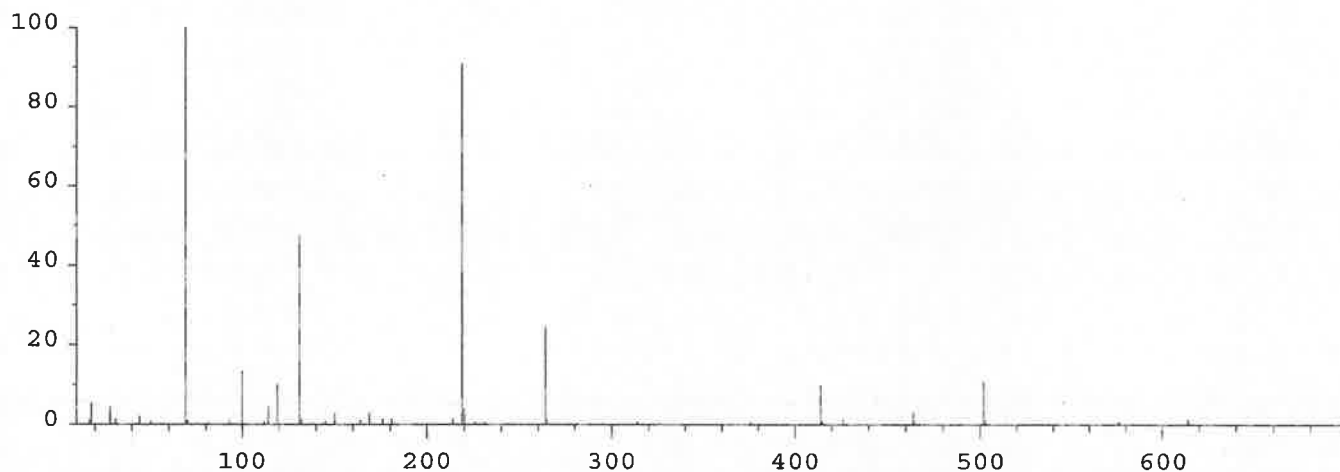
TARGET MASS:	50	69	131	219	414	502	800
Amu Offset:	126.0	126.0	126.0	126.0	126.0	126.0	126.0
Entrance Lens Offset:	13.8	13.8	13.8	13.8	13.8	13.8	13.8

GG 6-4-18



Scan: 10.00 - 700.00 Samples: 8 Thresh: 100 Step: 0.10

168 peaks Base: 69.00 Abundance: 472640



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	472640	100.00	70.00	5099	1.08
219.00	429952	90.97	220.00	18816	4.38
502.10	51872	10.97	503.10	4865	9.38

Air/Water Check: H2O~5.33% N2~4.56% O2~0.35% CO2~2.06% N2/H2O~85.70%

Column(1) Flow: 0.827 Column(2): 2.367 ml/min. Interface Temp: 280

Ramp Criteria:

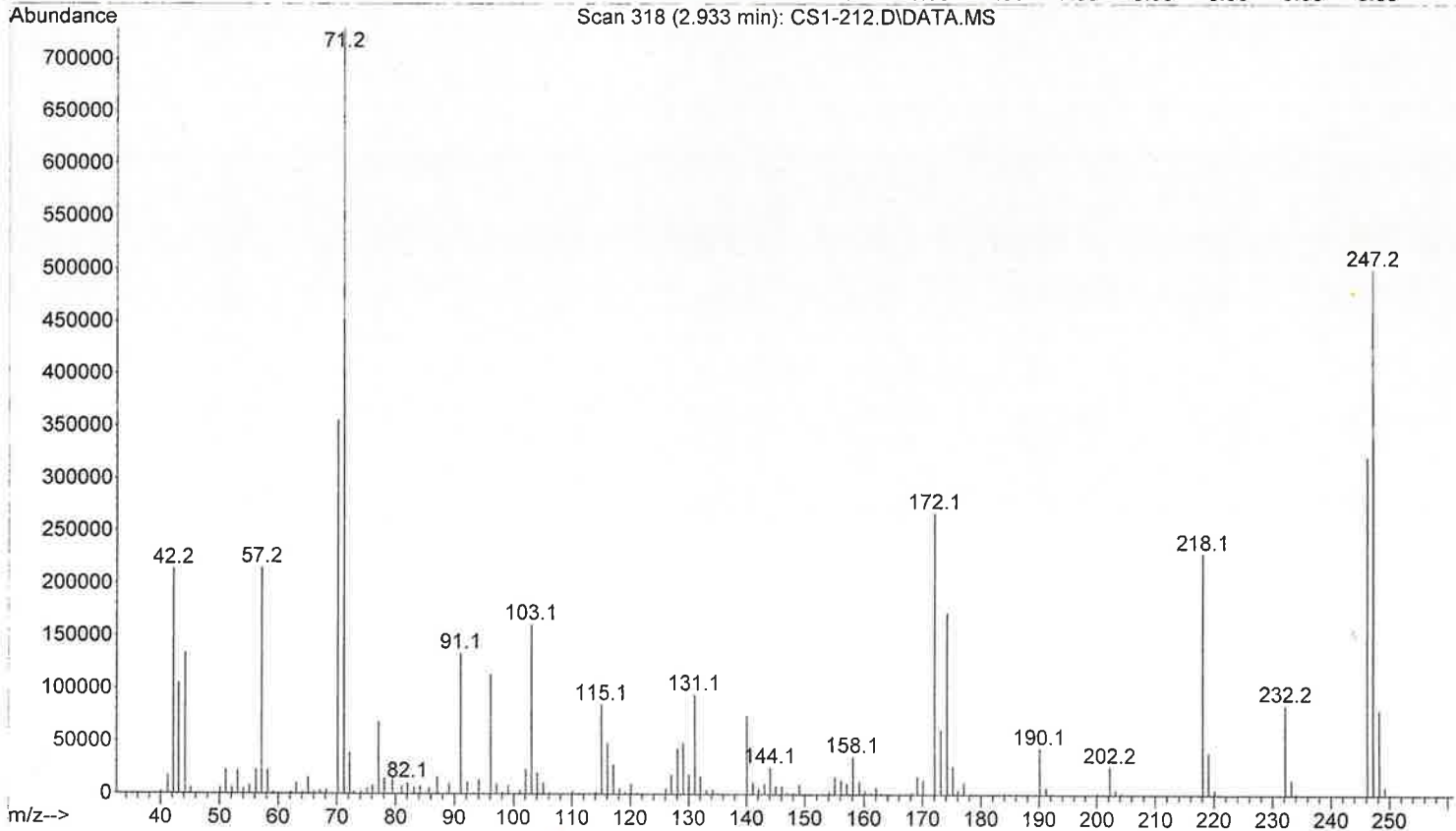
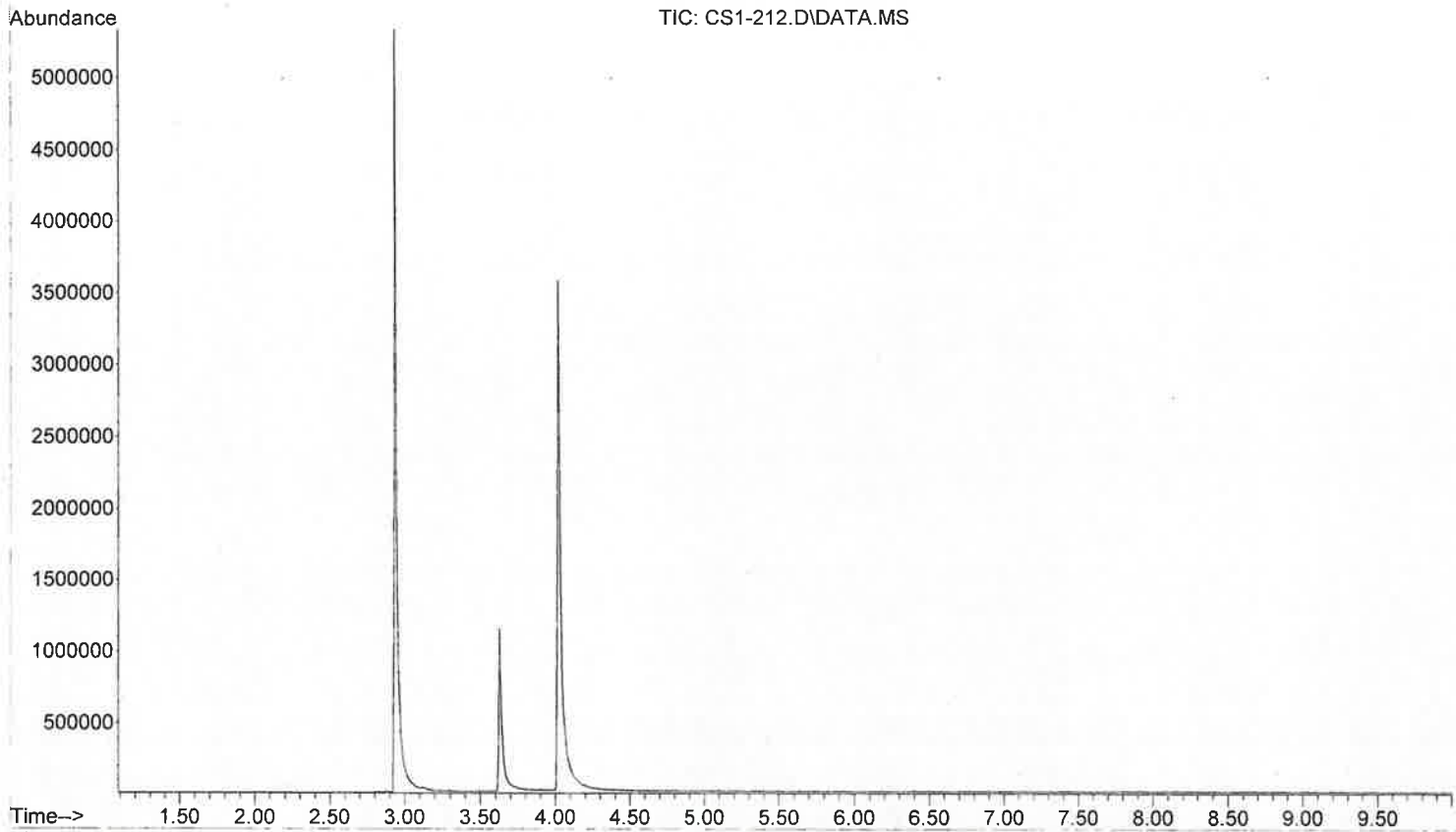
Ion Focus Maximum 90 volts using ion 502; EM Gain 65856
Repeller Maximum 35 volts using ion 219; Gain Factor 0.66

MassGain Values(Samples): -149(3) -156(2) -155(1) -154(0) -152(FS)

TARGET MASS:	50	69	131	219	414	502	800
Amu Offset:	131.0	131.0	131.0	131.0	131.0	131.0	131.0
Entrance Lens Offset:	16.3	16.3	16.3	16.3	16.3	16.3	16.3

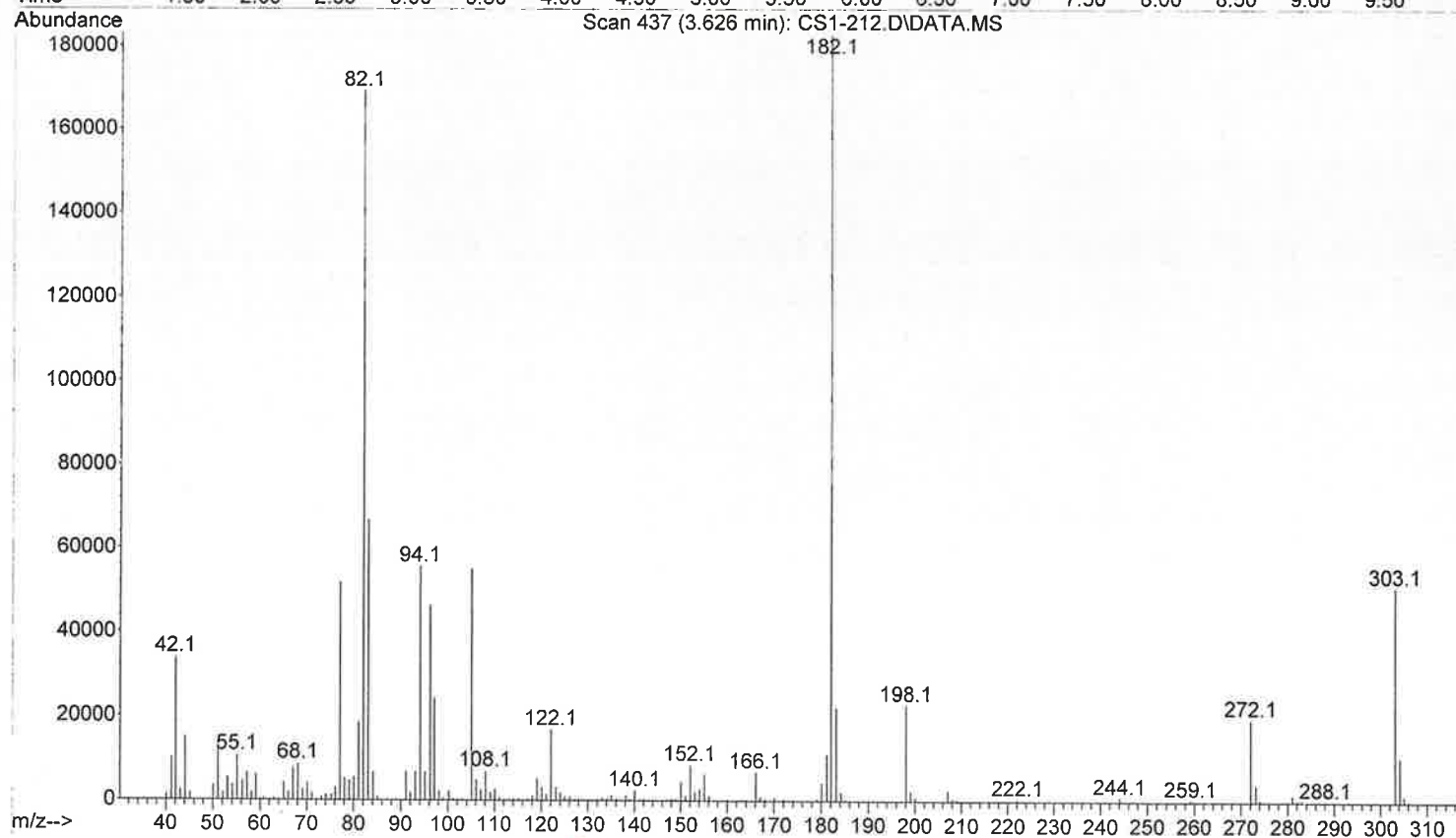
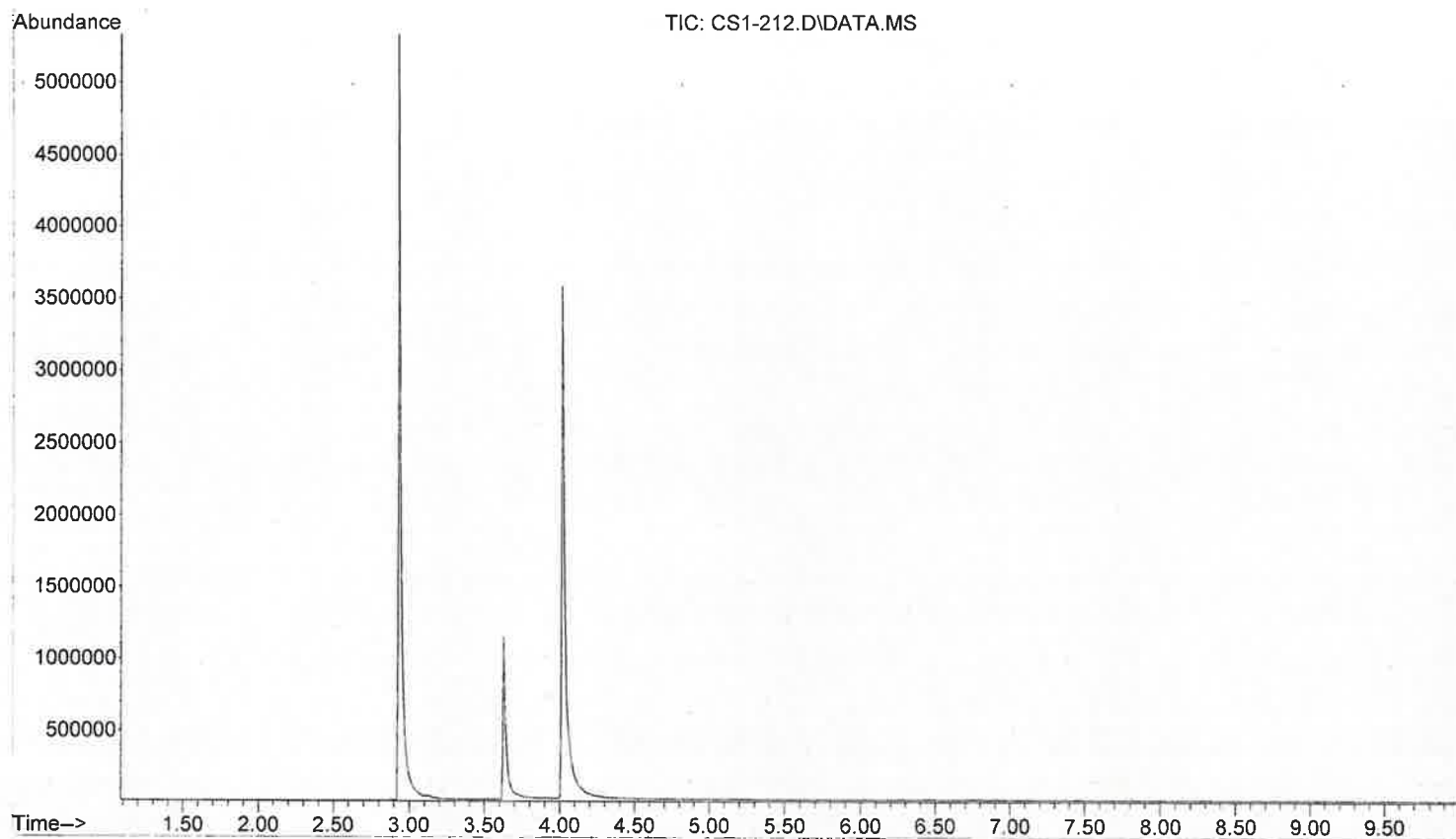
Handwritten signature and date:
February 12, 2018

File :C:\msdchem\1\data\2018\GJG\CS1-212.D
Operator : GLEN JAY GLENN
Acquired : 12 Feb 2018 10:37 using AcqMethod MSDRUGS100.M
Instrument : JAVA
Sample Name: CALIBRATION STANDARD -- 100-280
Misc Info : PETHIDINE / COCAINE / HYDROCODONE
Vi Number: 1



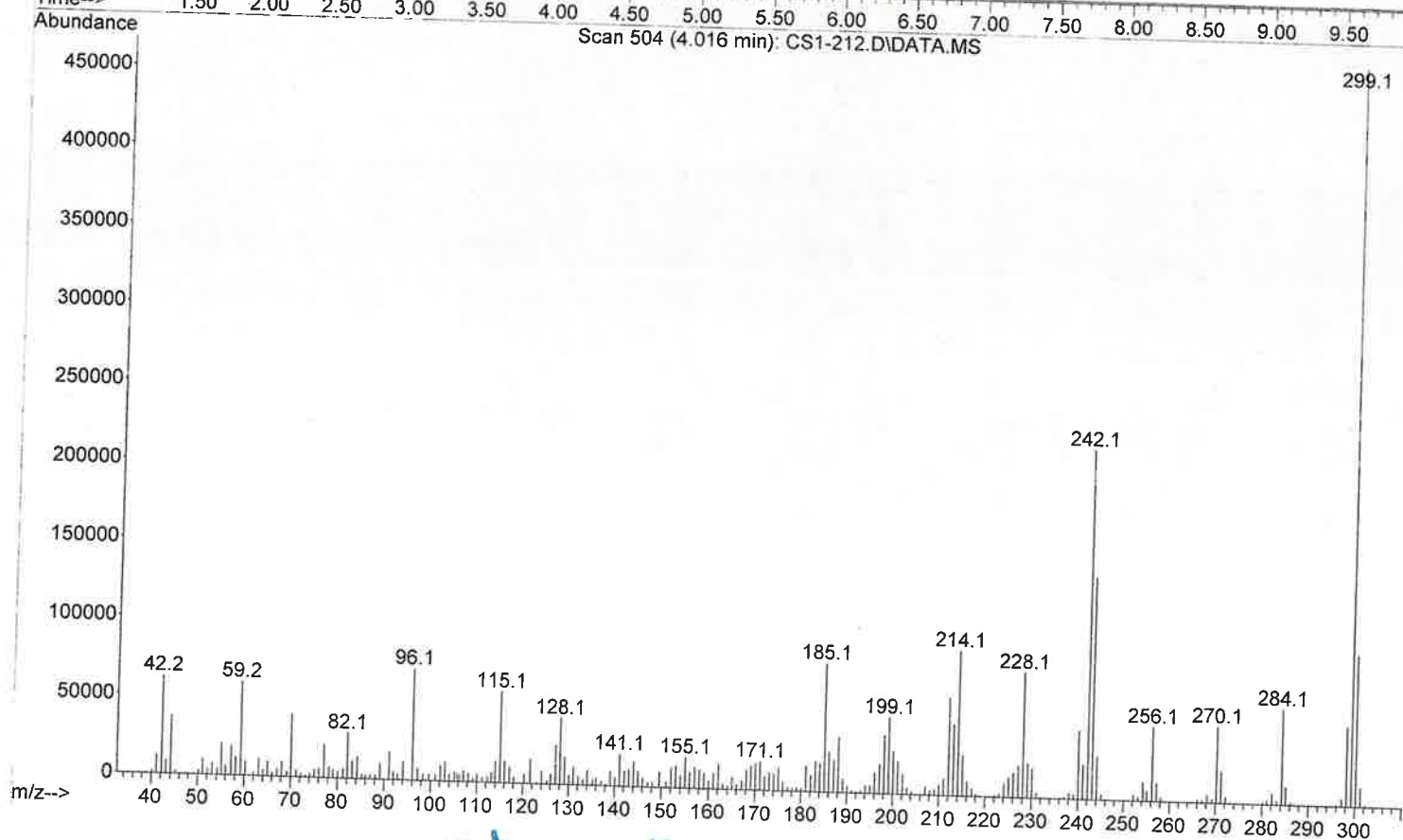
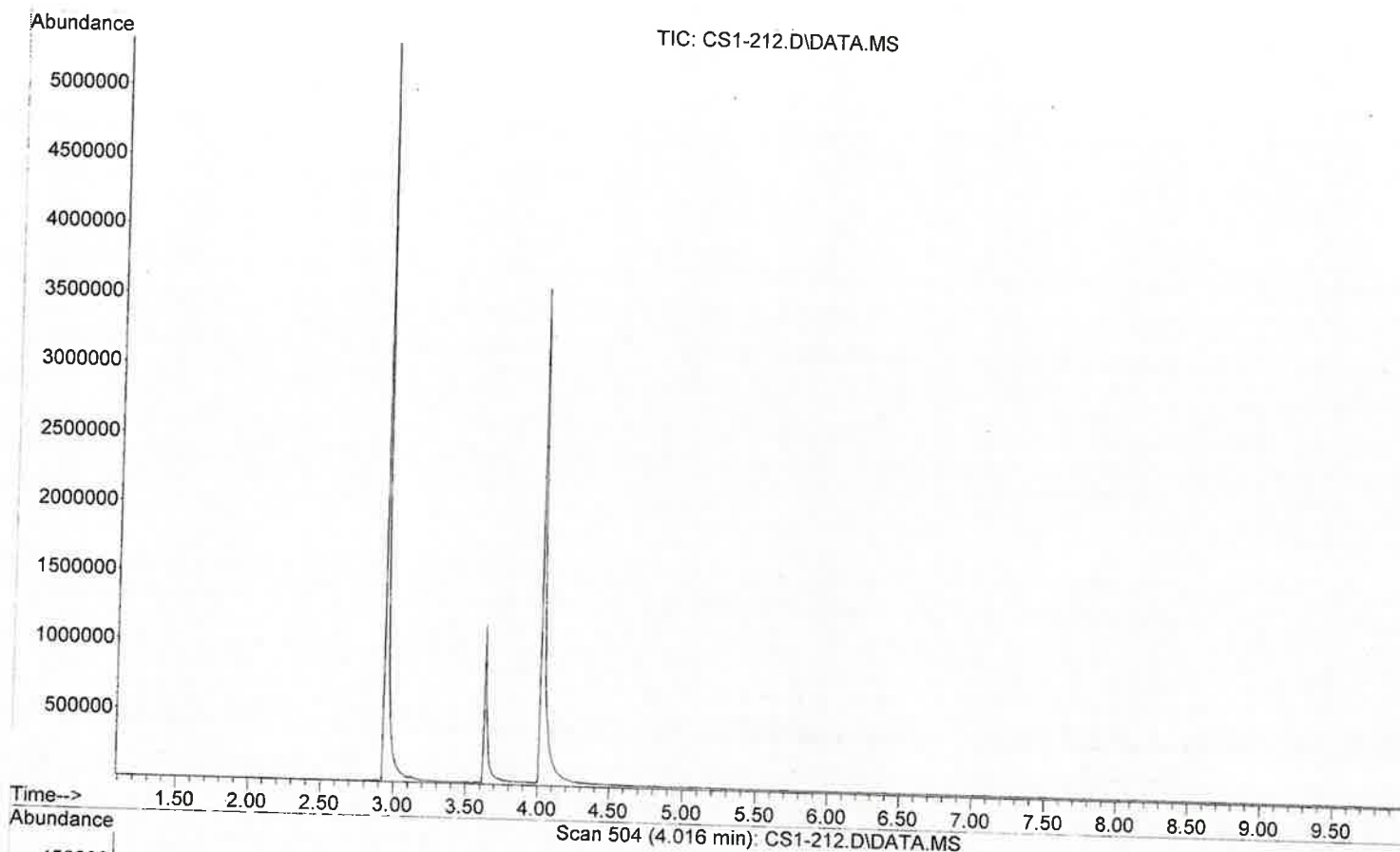
Glen Jay Glenn February 12, 2018

File : C:\msdchem\1\data\2018\GJG\CS1-212.D
Operator : GLEN JAY GLENN
Acquired : 12 Feb 2018 10:37 using AcqMethod MSDRUGS100.M
Instrument : JAVA
Sample Name: CALIBRATION STANDARD -- 100-280
Misc Info : PETHIDINE / COCAINE / HYDROCODONE
Vi Number: 1

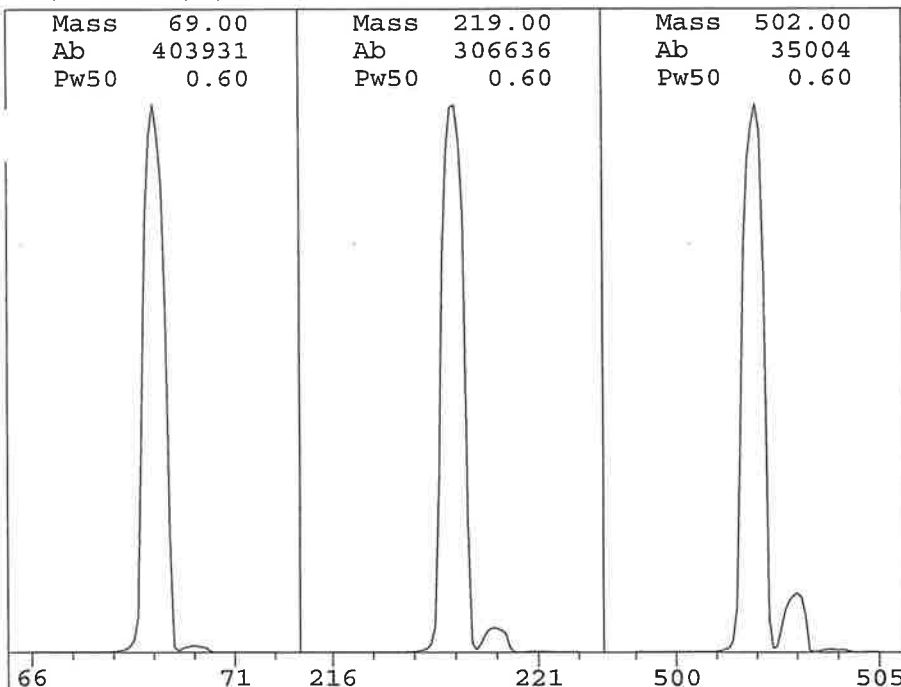


Glen Jay Glenn February 12, 2018

File : C:\msdchem\1\data\2018\GJG\CS1-212.D
Operator : GLEN JAY GLENN
Acquired : 12 Feb 2018 10:37 using AcqMethod MSDRUGS100.M
Instrument : JAVA
Sample Name: CALIBRATION STANDARD -- 100-280
Misc Info : PETHIDINE / COCAINE / HYDROCODONE
Vi Number: 1



Glen Jay Glenn February 12, 2018

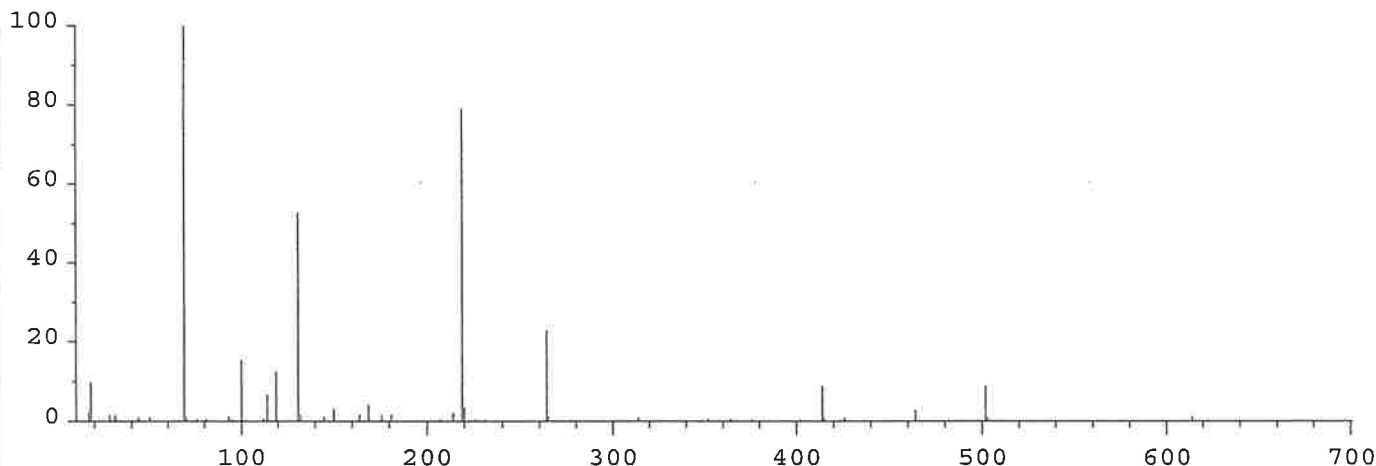


Ion Pol Pos MassGain -830
MassOffs -33
Emission 34.6 AmuGain 1678
EIEnrgy 69.9 AmuOffs 123.94
Filament 1 Wid219 -0.011
DC Pol Pos
Repeller 34.14
IonFcus 90.2 HEDEnab On
EntLens 25.5 EMVolts 1929
EntOffs 18.82

Samples 8
PFTBA Open Averages 3
Stepsize 0.10

Temperatures and Pressures:
MS Source 230 Turbo Speed100
MS Quad 150 HiVac 7.13e06

Scan: 10.00 - 701.00 Samples: 8 Thresh: 100 Step: 0.10
162 peaks Base: 69.00 Abundance: 380544



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	380544	100.00	70.00	4294	1.13
219.00	300928	79.08	220.00	13238	4.40
502.00	34056	8.95	503.00	3574	10.49

Air/Water Check: H2O~9.71% N2~1.54% O2~0.38% CO2~0.96% N2/H2O~15.88%

Column(1) Flow: 0.967 Column(2): 1.007 ml/min. Interface Temp: 280

Ramp Criteria:

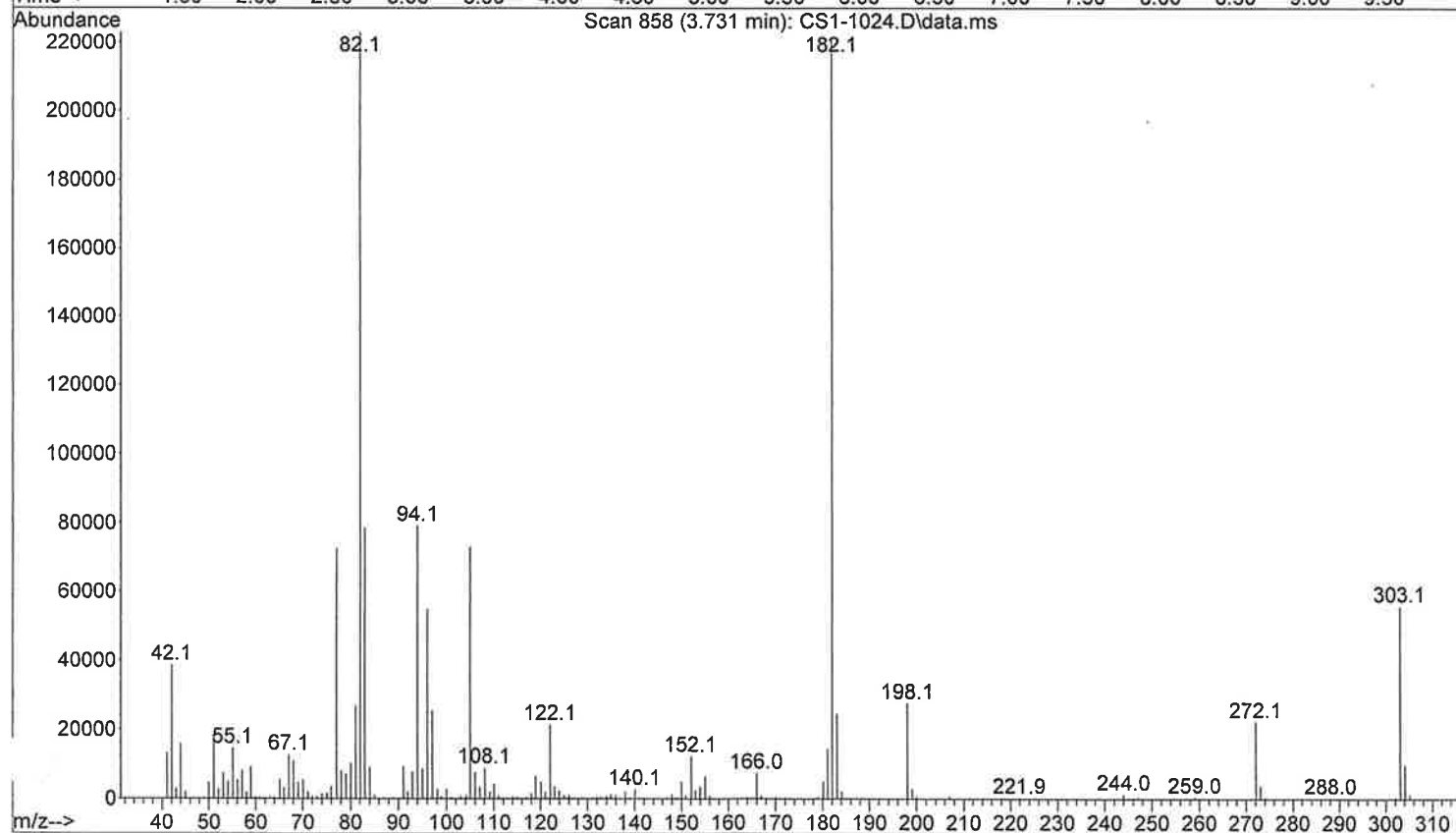
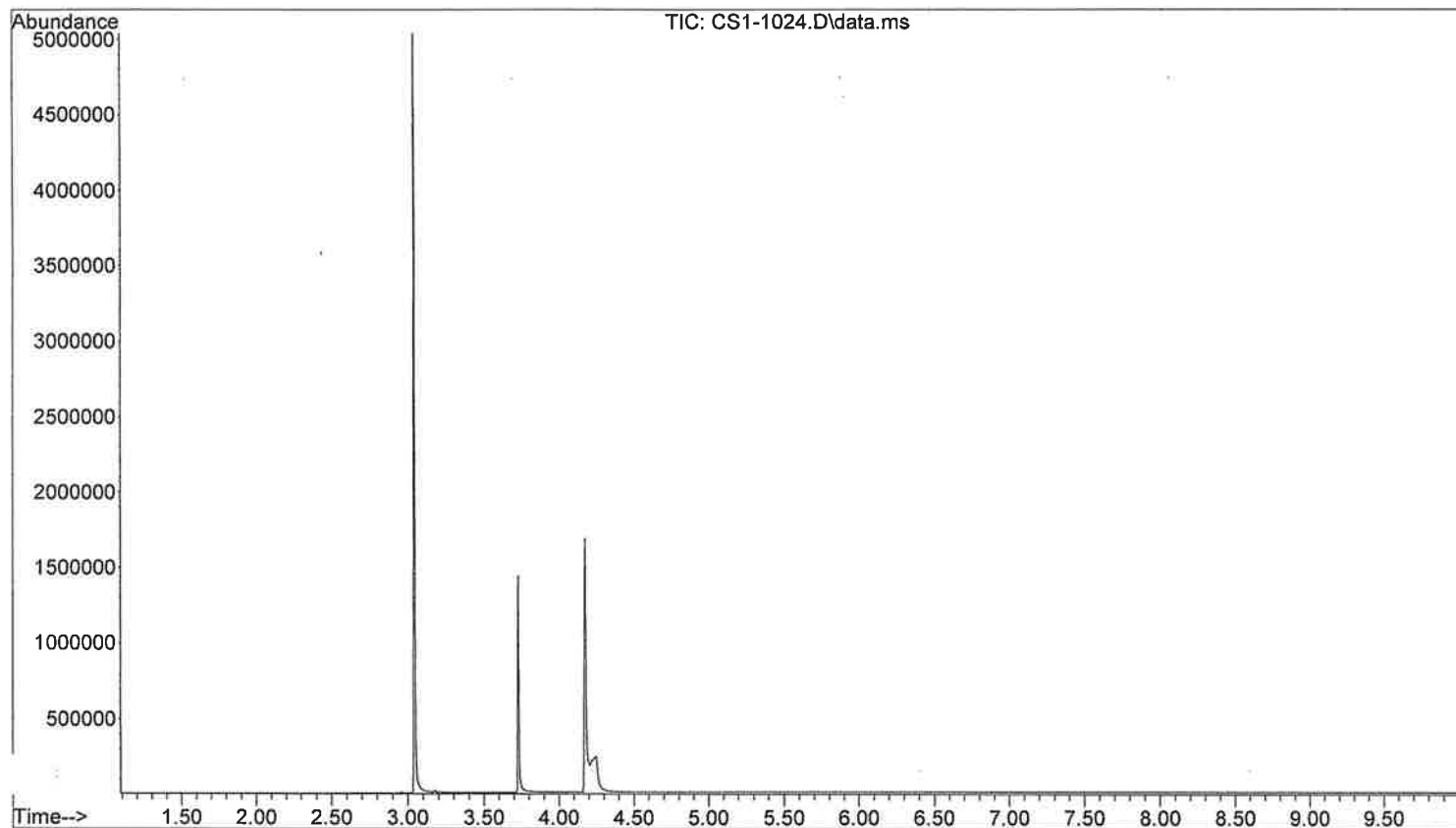
Ion Focus Maximum 90 volts using ion 502; EM Gain 37346
Repeller Maximum 35 volts using ion 219; Gain Factor 0.37

MassGain Values(Samples): -816(3) -808(2) -795(1) -770(0) -683(FS)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset:	123.9	123.9	123.9	123.9	123.9	123.9	123.9
Entrance Lens Offset:	18.8	18.8	18.8	18.8	18.8	18.8	18.8

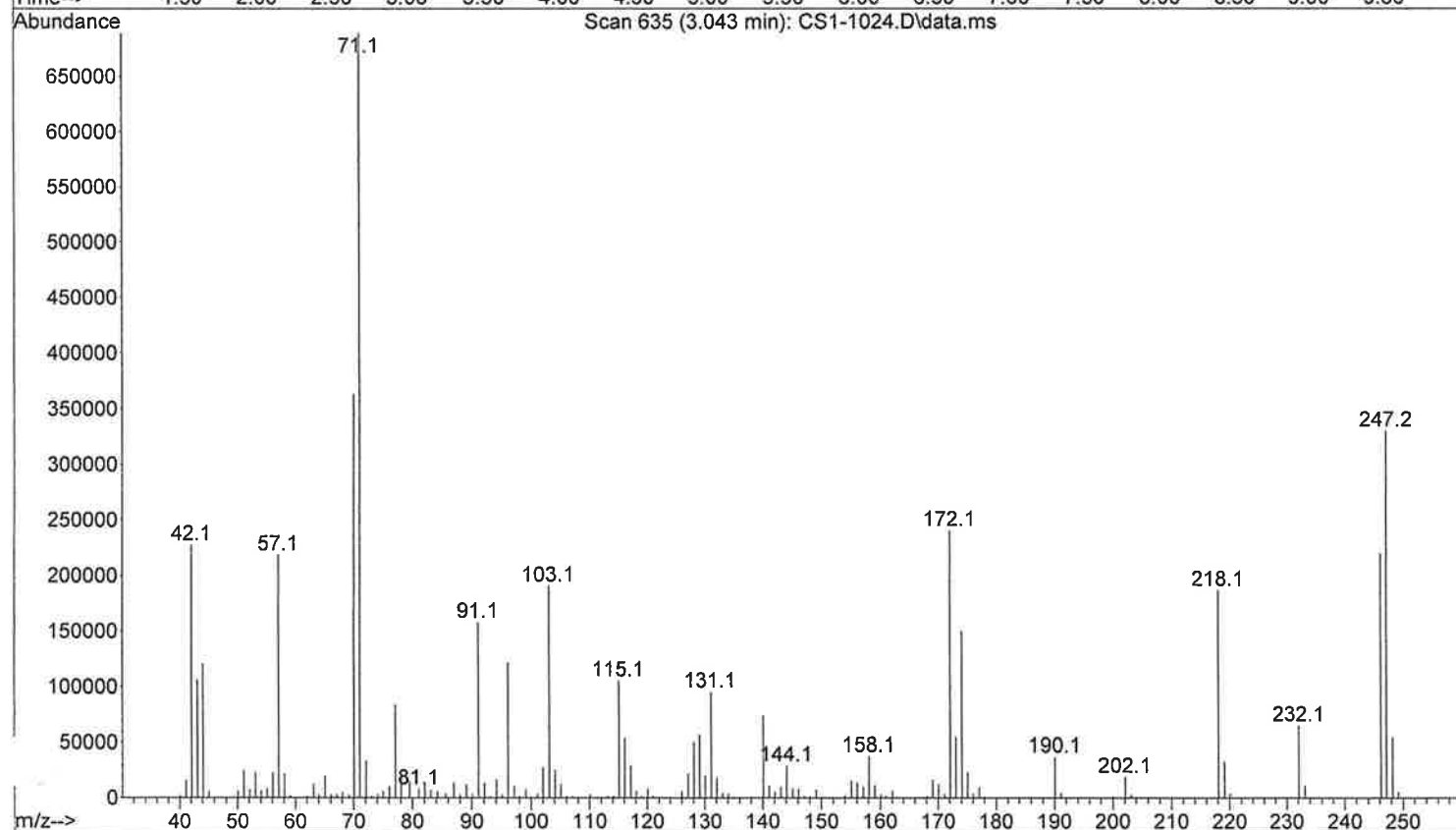
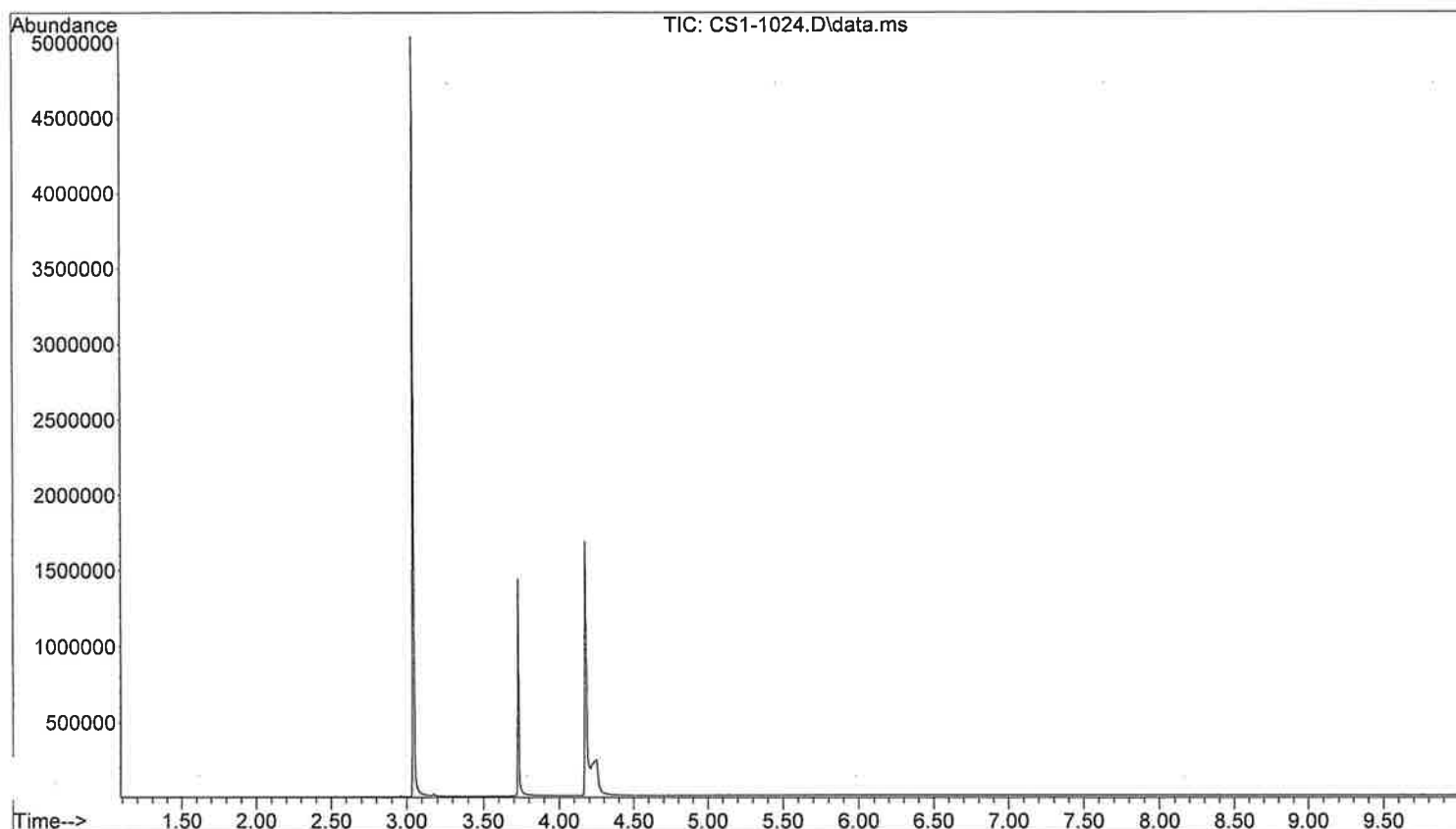
GJG 10.24.18

File : C:\msdchem\1\data\2018\GJG\CS1-1024.D
Operator : GJG
Acquired : 24 Oct 2018 11:50 using AcqMethod MSDRUGS100.M
Instrument : donna2
Sample Name: CALIBRATION STANDARD -- 100-280
Misc Info : PETHIDINE / COCAINE / HYDROCODONE
Vial Number: 1



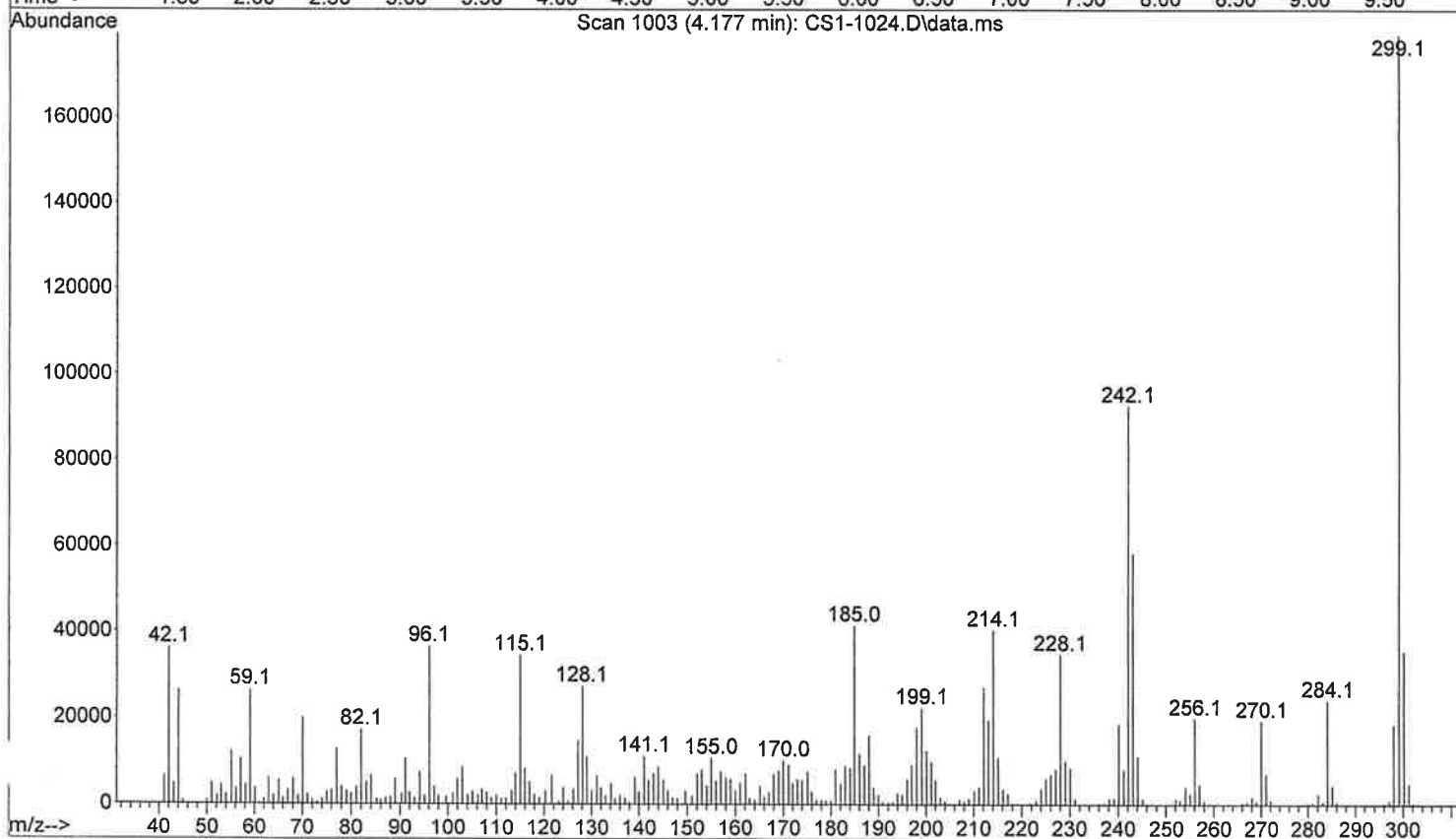
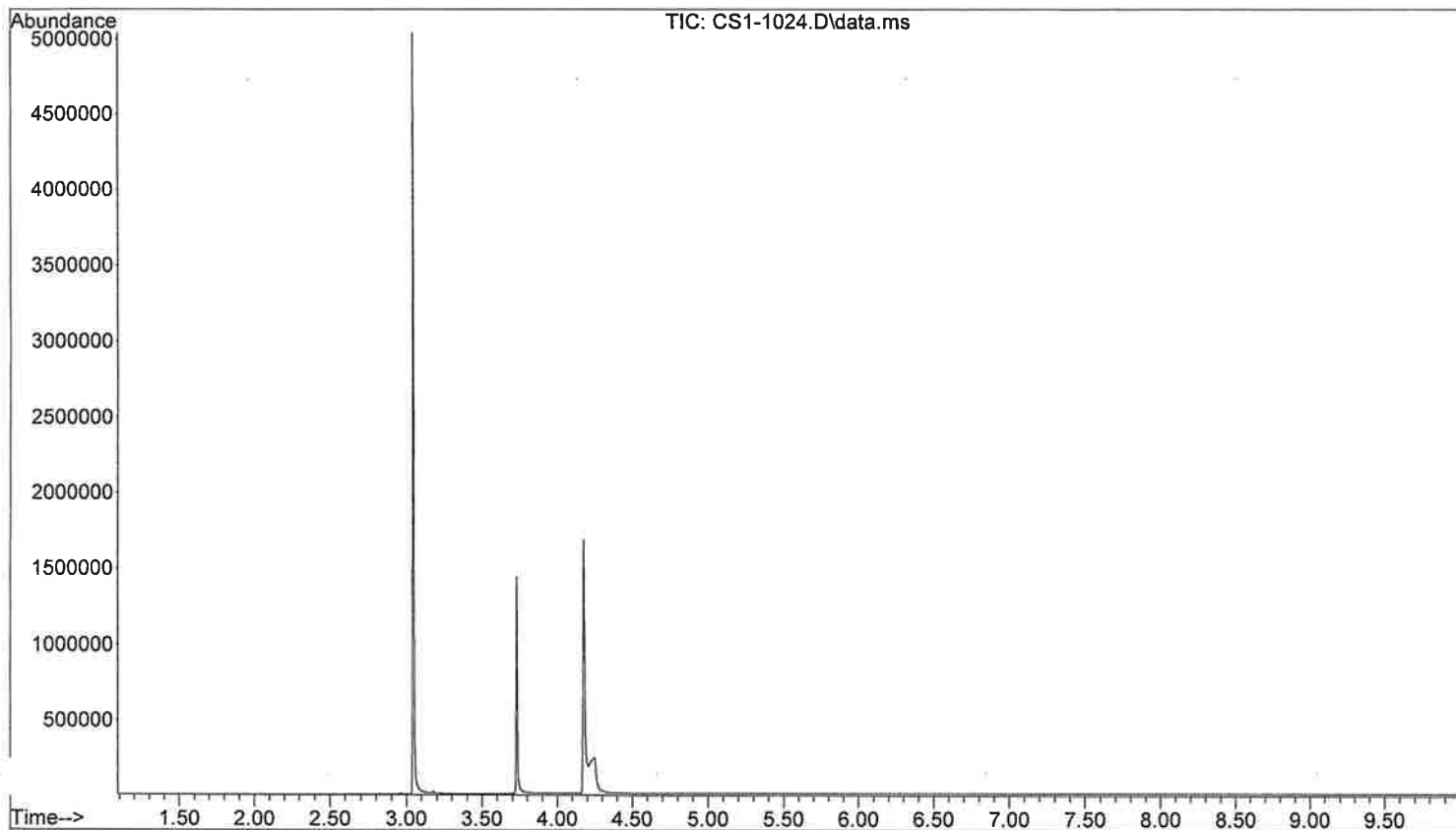
GJG 10-24-18

File : C:\msdchem\1\data\2018\GJG\CS1-1024.D
Operator : GJG
Acquired : 24 Oct 2018 11:50 using AcqMethod MSDRUGS100.M
Instrument : donna2
Sample Name: CALIBRATION STANDARD -- 100-280
Misc Info : PETHIDINE / COCAINE / HYDROCODONE
Vial Number: 1



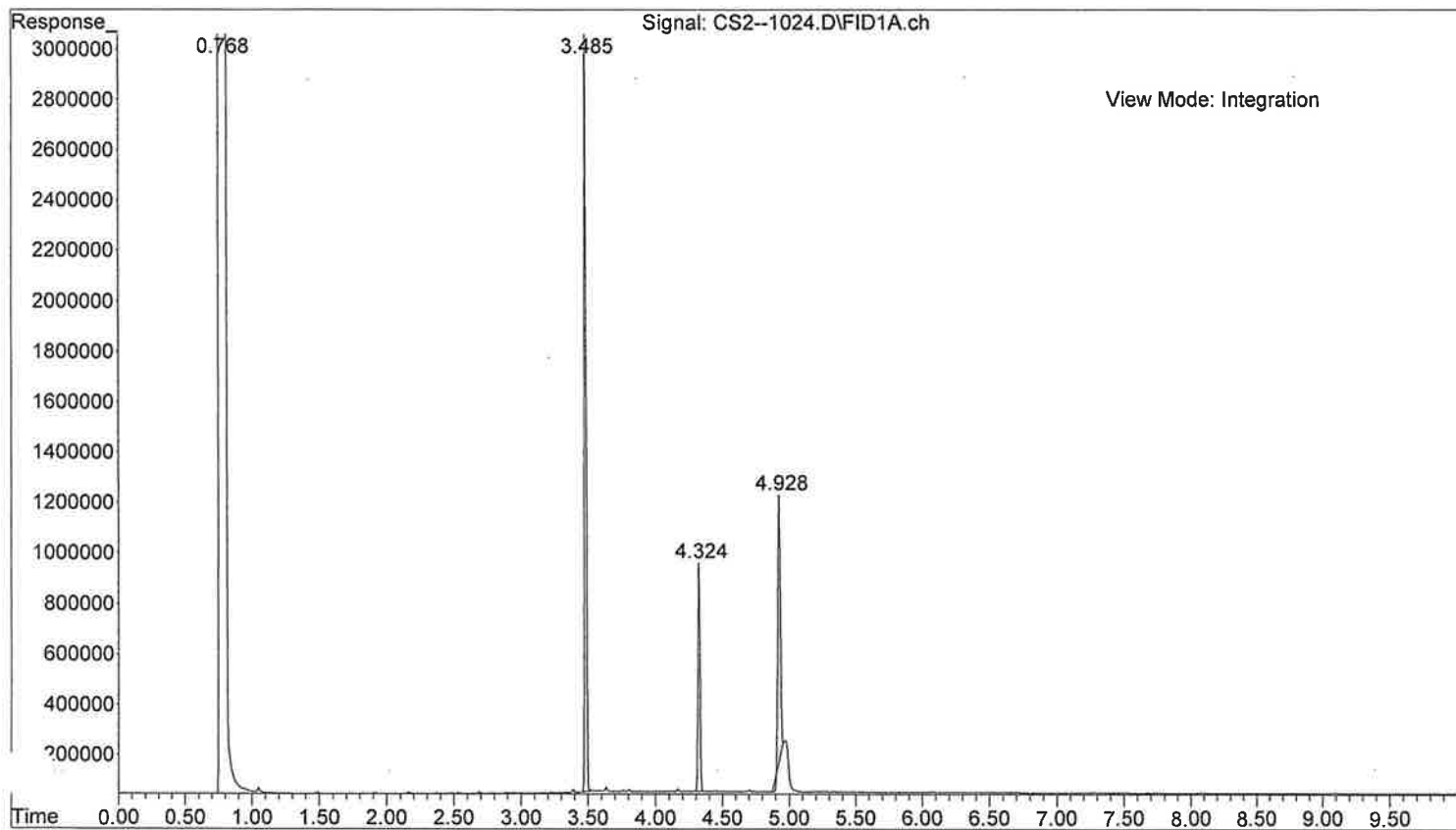
GJG 10-24-18

File : C:\msdchem\1\data\2018\GJG\CS1-1024.D
Operator : GJG
Acquired : 24 Oct 2018 11:50 using AcqMethod MSDRUGS100.M
Instrument : donna2
Sample Name: CALIBRATION STANDARD -- 100-280
Misc Info : PETHIDINE / COCAINE / HYDROCODONE
Vial Number: 1



GJG 10-24-18

File : C:\msdchem\1\data\2018\GJG\CS2--1024\CS2--1024.D
Operator : GJG
Acquired : 24 Oct 2018 16:04 using AcqMethod ASGC100.M
Instrument : donna2
Sample Name: 04
Misc Info : PETHIDINE / COCAINE / HYDROCODONE
View Number: 2



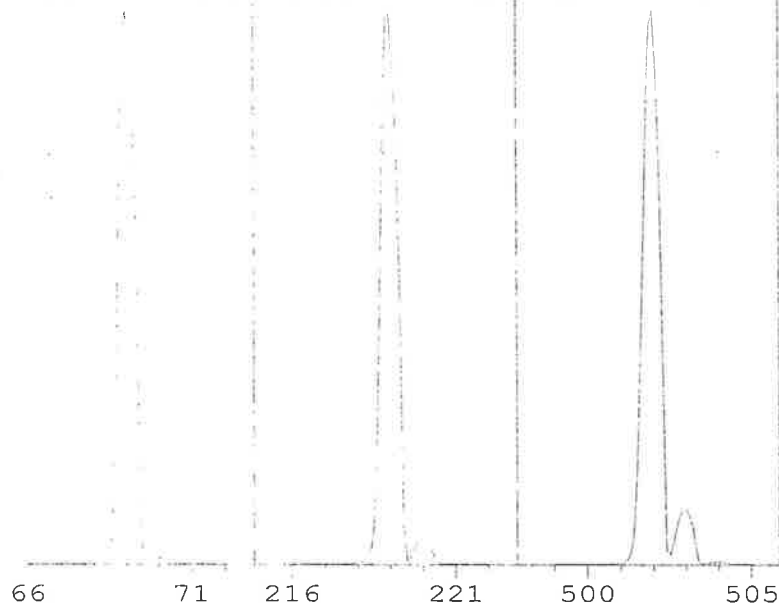
GJG 10-24-18

Mass	Ab	Pw50	Mass	Ab	Pw50	Mass	Ab	Pw50
69.00	461085	0.60	218.90	354639	0.60	502.00	28906	0.59

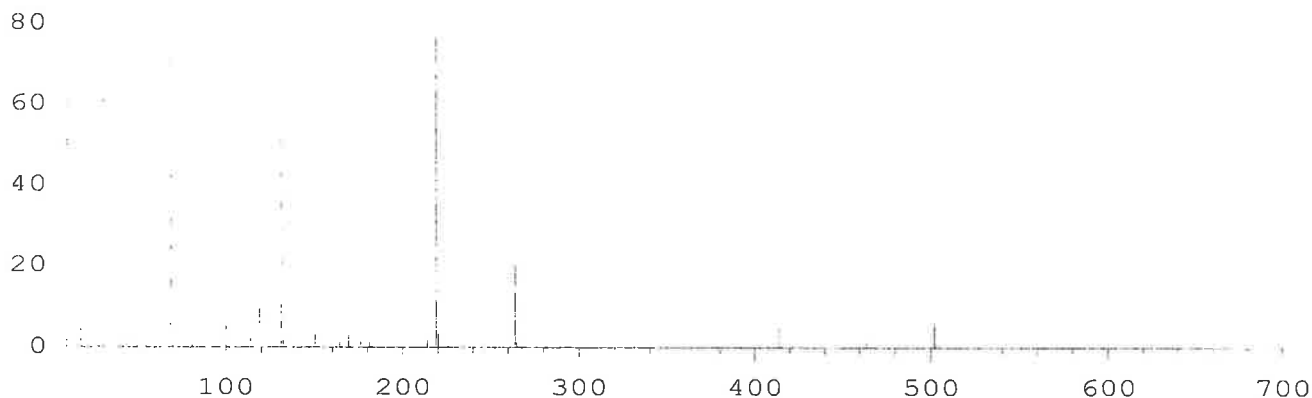
Ion Pol	Pos	MassGain	MassOffs
		-573	-36
Emission	34.6	AmuGain	2117
EIEnergy	69.9	AmuOffs	120.31
Filament	1	Wid219	-0.014
		DC Pol	Pos
Repeller	31.30		
IonFcus	90.2	HEDEnab	On
EntLens	28.5	EMVolts	1365
EntOffs	18.57		

PFTBA	Open	Samples	Averages	Stepsize
		8	3	0.10

Temperatures and Pressures:
MS Source 230 TurboSpd 100
MS Quad 150 HiVac 8.99e-06



Scan: 10.00 - 701.00 Samples: 8 Thresh: 100 Step: 0.10
194 peaks Base: 69.00 Abundance: 441984
100



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	441984	100.00	70.00	5056	1.14
219.00	341440	77.25	220.00	14994	4.39
502.10	27320	6.18	503.00	2703	9.89

Air/Water Check: H2O~9.19% N2~1.46% O2~0.41% CO2~1.21% N2/H2O~15.85%

Column(1) Flow: 1.26 Column(2): 2.53 ml/min. Interface Temp: 280

Ramp Criteria:

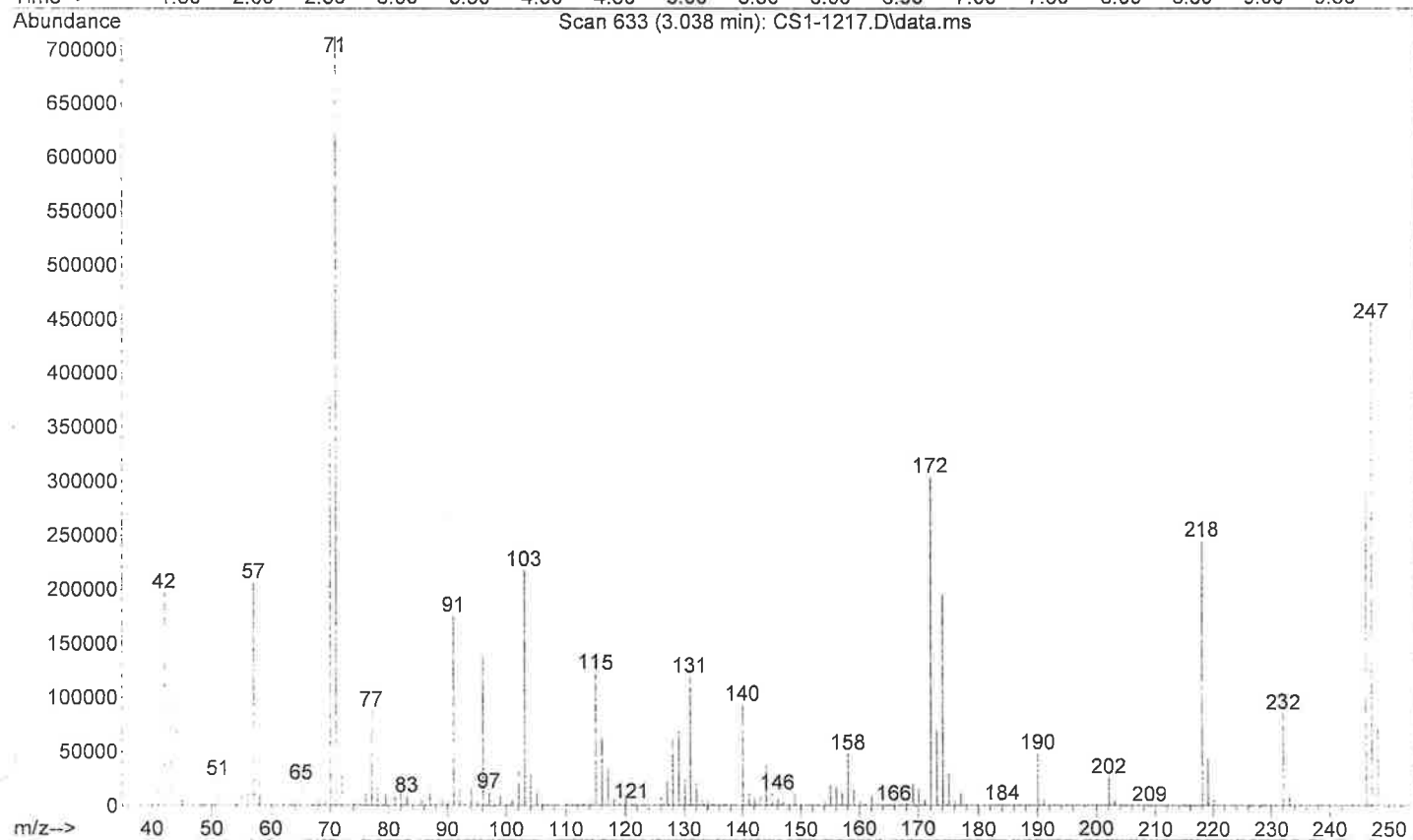
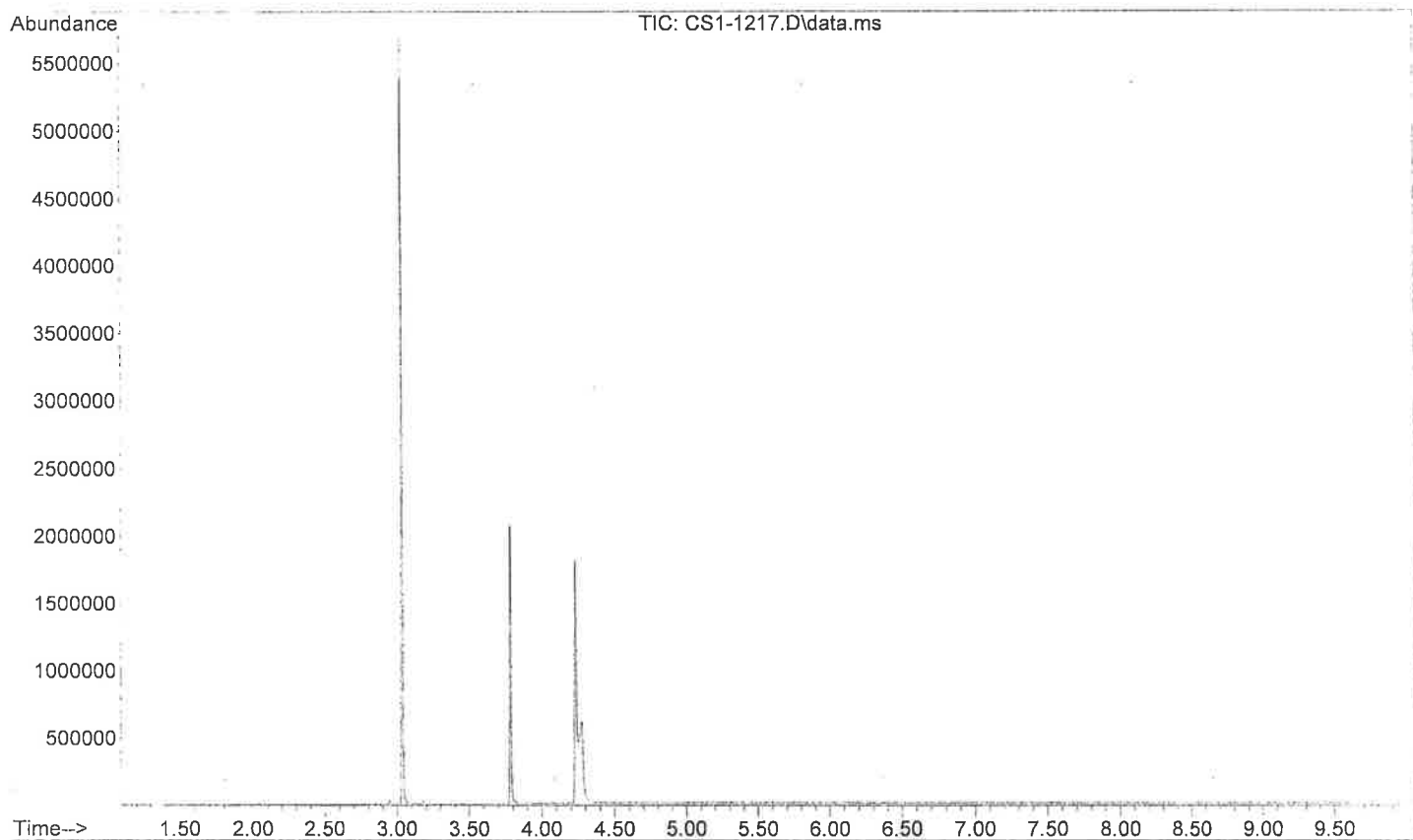
Ion Focus Maximum	90	volts using ion	502;	EM Gain	25412
Repeller Maximum	35	volts using ion	219;	Gain Factor	0.25

MassGain Values(Samples): -560(3) -552(2) -544(1) -513(0) -426(FS)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset:	120.3	120.3	120.3	120.3	120.3	120.3	120.3
Entrance Lens Offset:	18.6	18.6	18.6	18.6	18.6	18.6	18.6

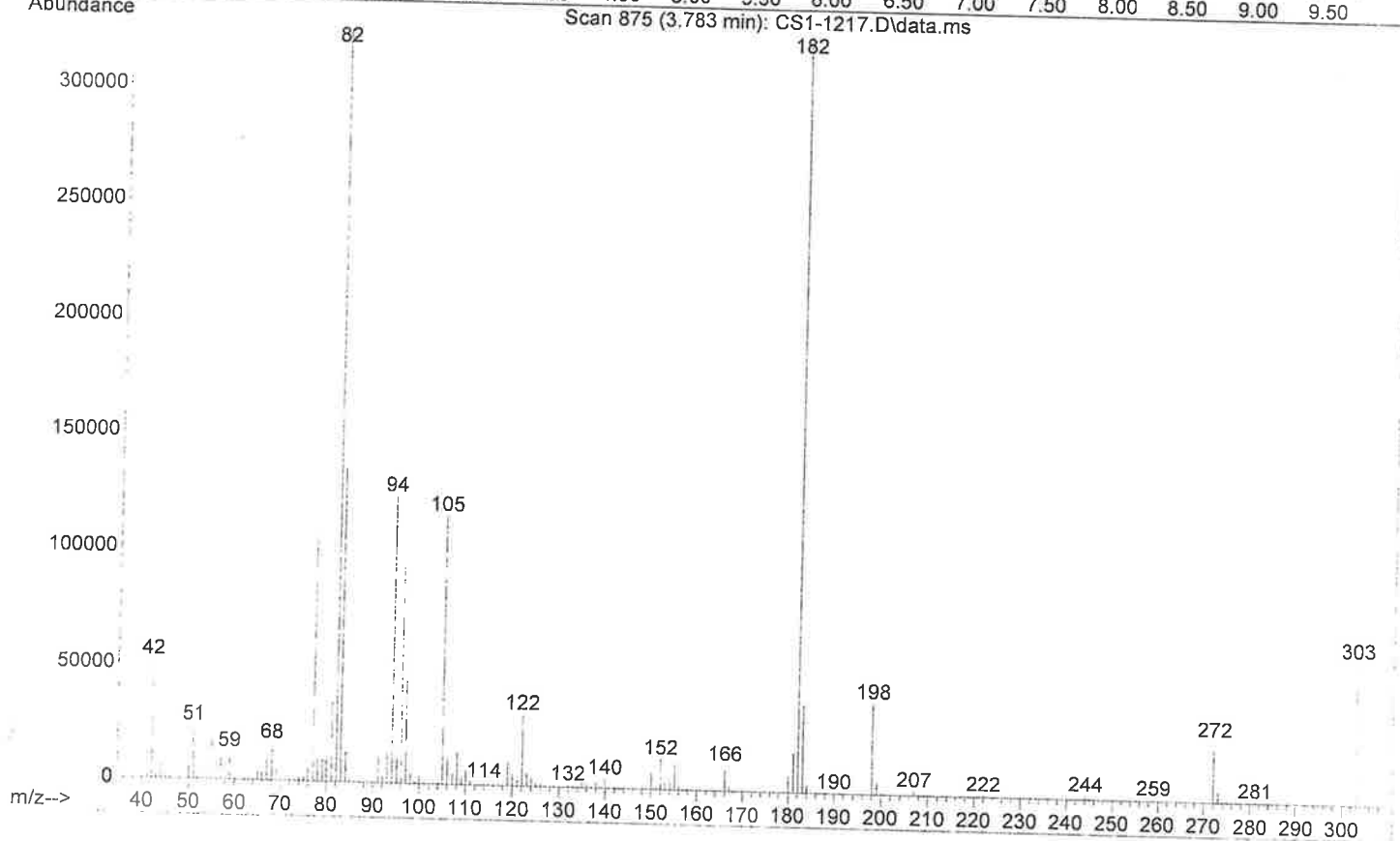
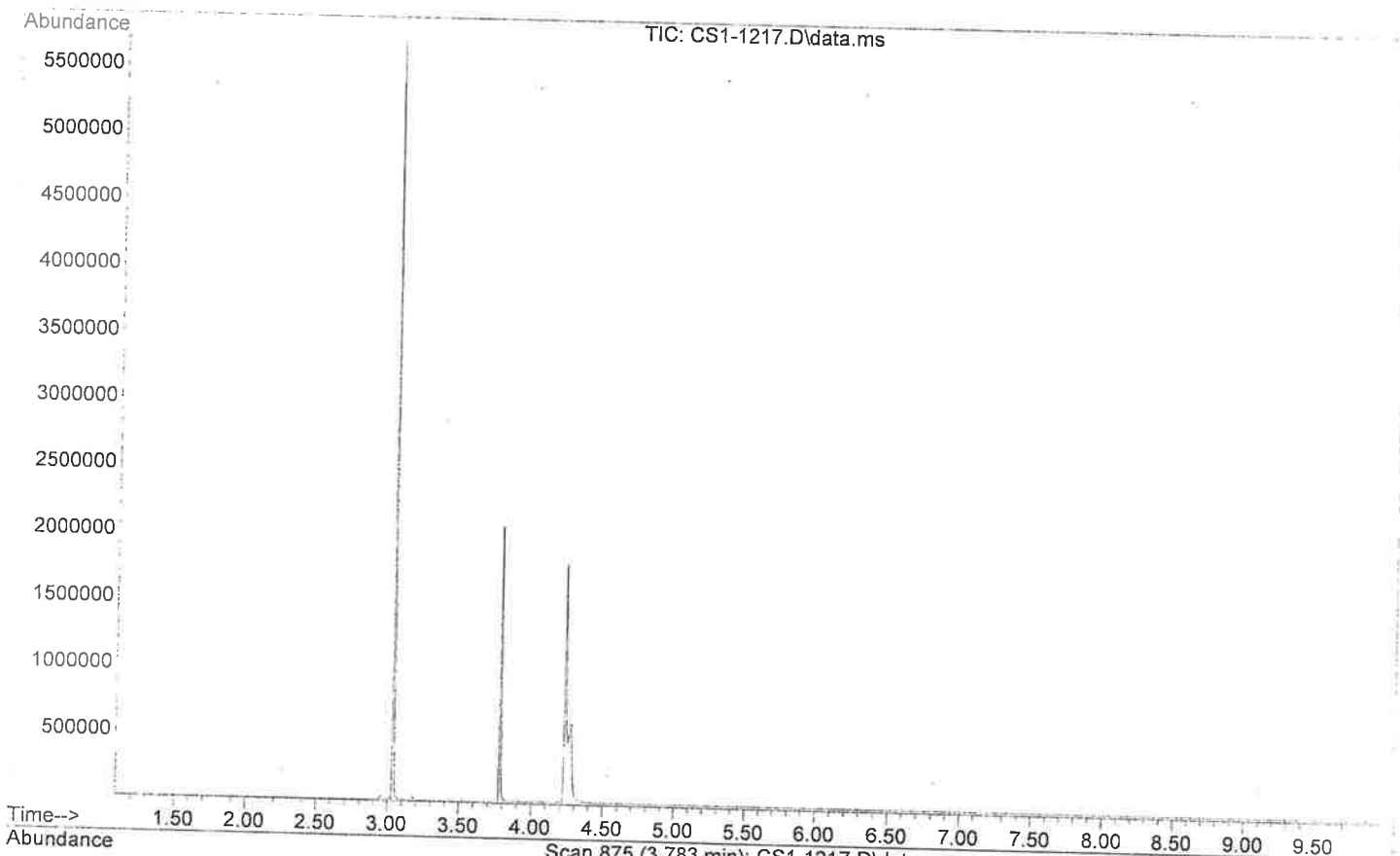
GIG 12-17-18

File :D:\Data\2018\GJG\CS1-1217\CS1-1217.D
Operator : GJG
Acquired : 17 Dec 2018 17:19 using AcqMethod ASMSDRUGS100.M
Instrument : Eggroll
Sample Name: Calibration standard -- 100-280
Misc Info : PETHIDINE / COCAINE / HYDROCODONE
1 Number: 2



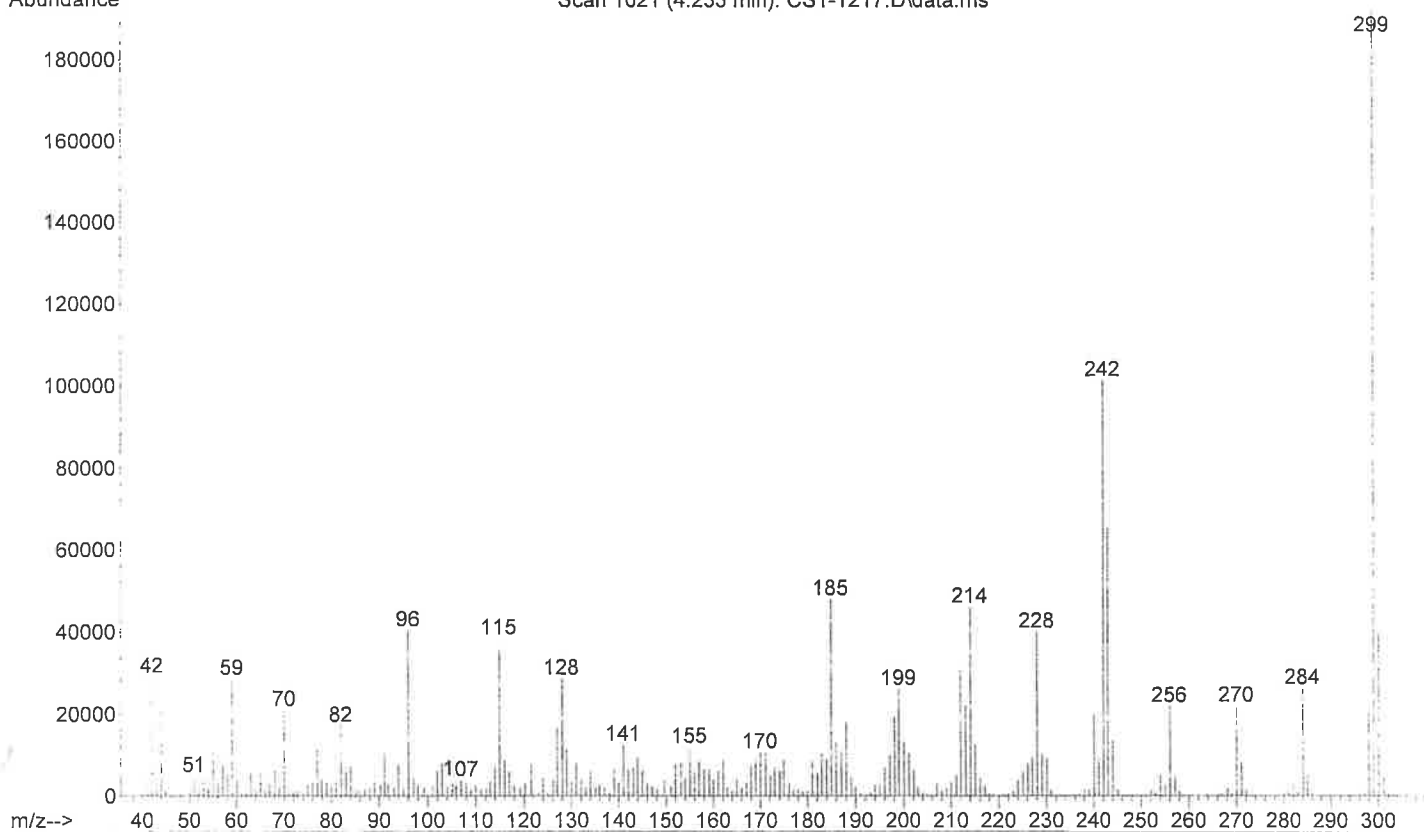
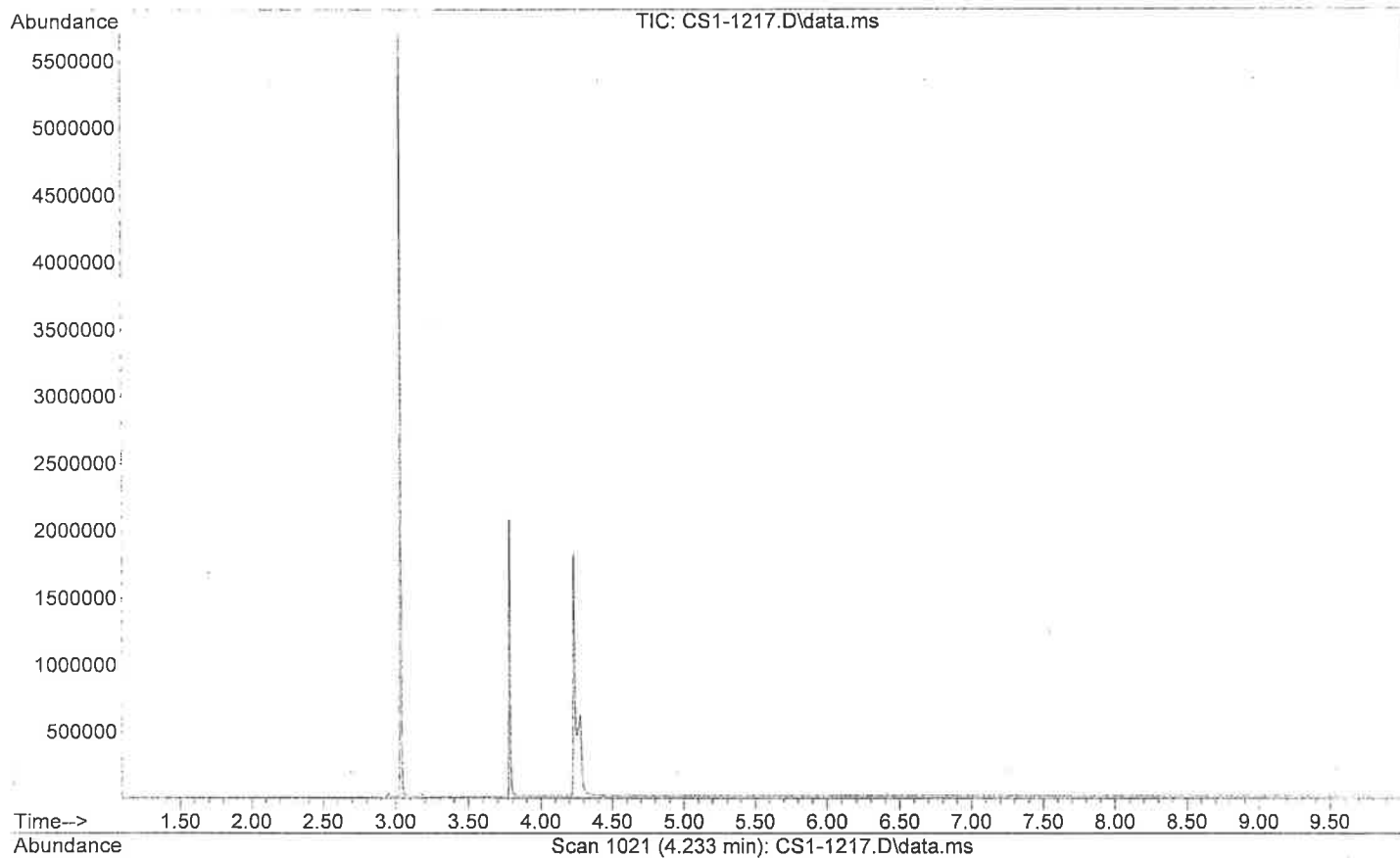
GJG 12-17-18

File : D:\Data\2018\GJG\CS1-1217\CS1-1217.D
Operator : GJG
Acquired : 17 Dec 2018 17:19 using AcqMethod ASMSDRUGS100.M
Instrument : Eggroll
Sample Name: Calibration standard -- 100-280
Misc Info : PETHIDINE / COCAINE / HYDROCODONE
1 Number: 2



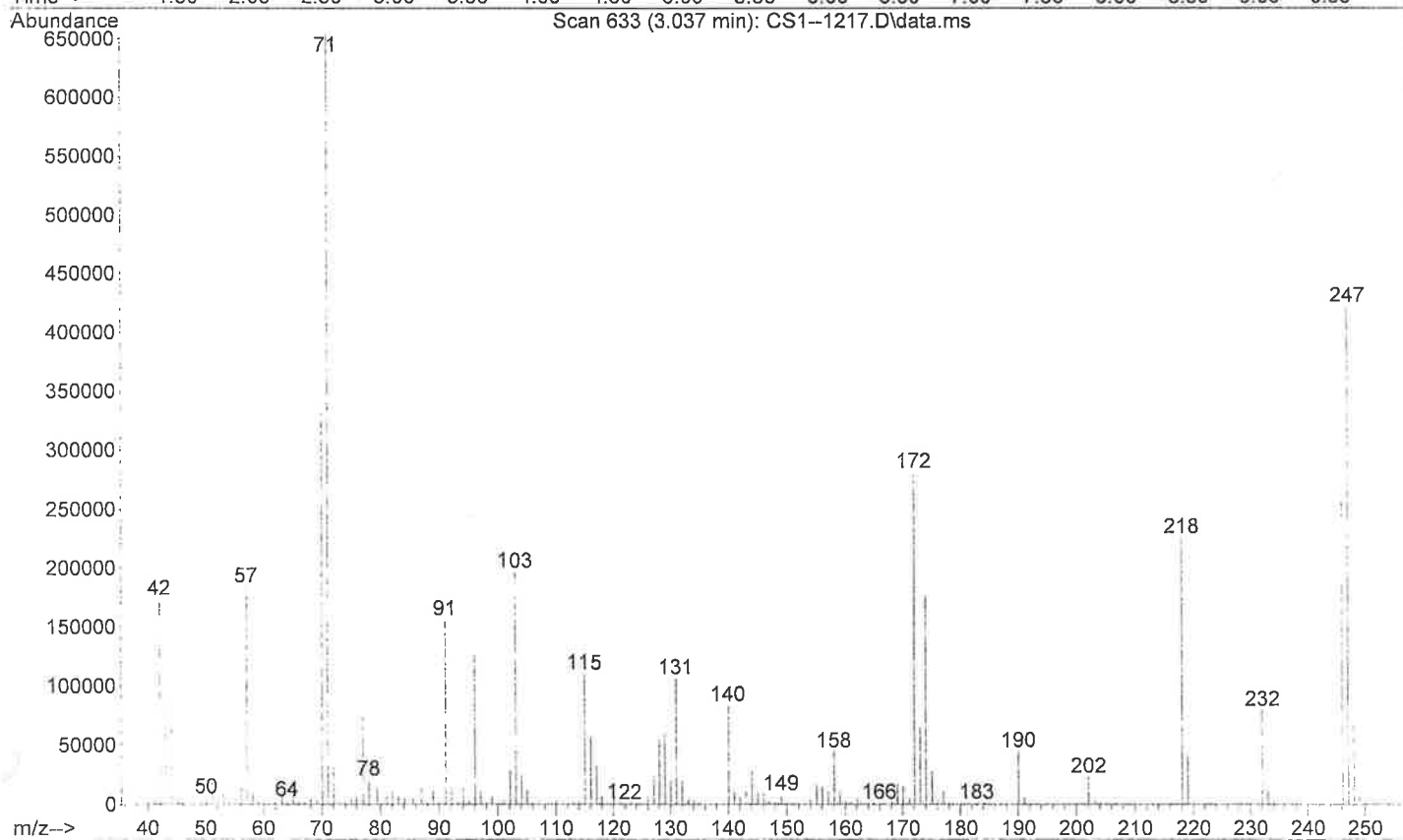
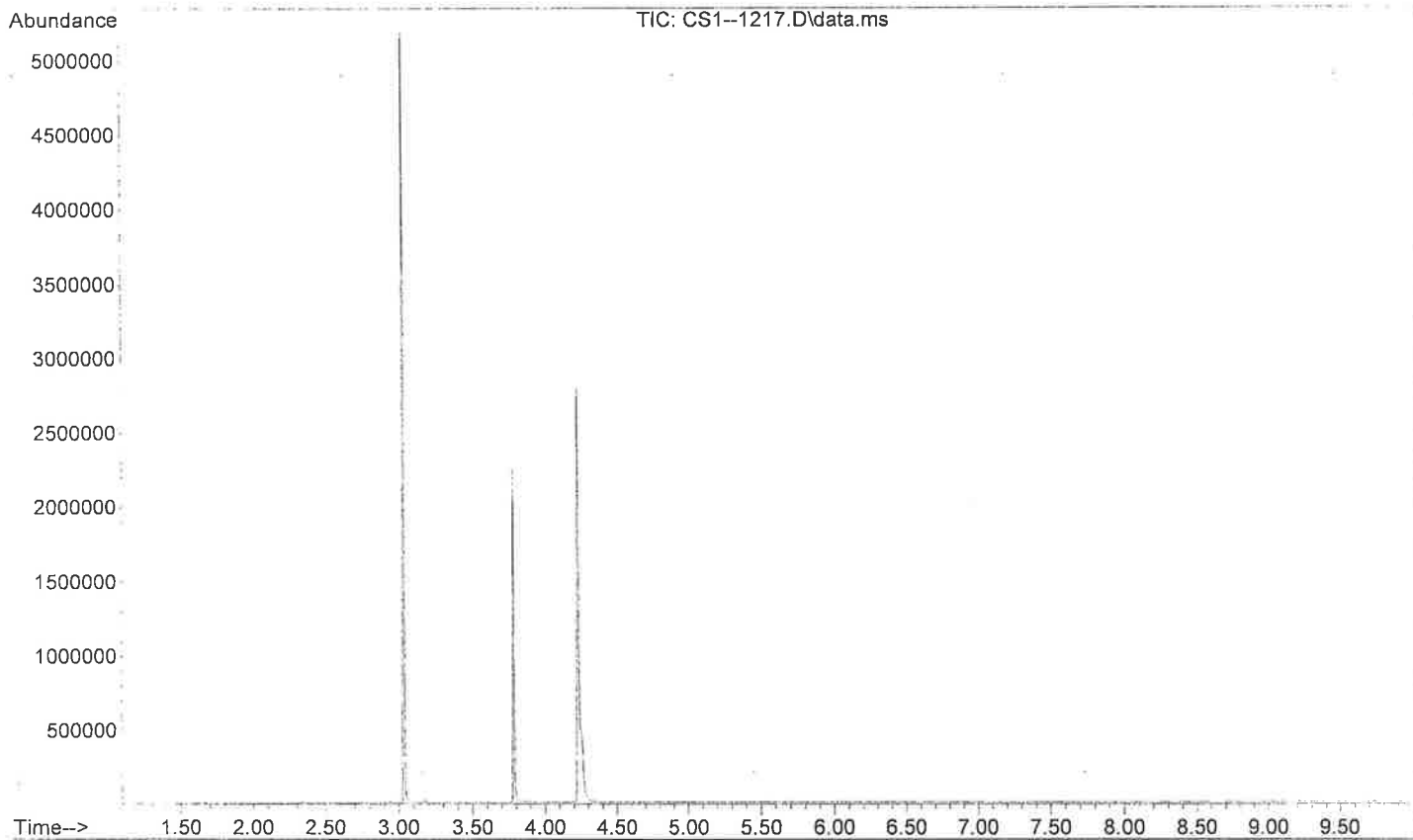
GJG 12-17-18

File :D:\Data\2018\GJG\CS1-1217\CS1-1217.D
Operator : GJG
Acquired : 17 Dec 2018 17:19 using AcqMethod ASMSDRUGS100.M
Instrument : Eggroll
Sample Name: Calibration standard -- 100-280
Misc Info : PETHIDINE / COCAINE / HYDROCODONE
1 Number: 2



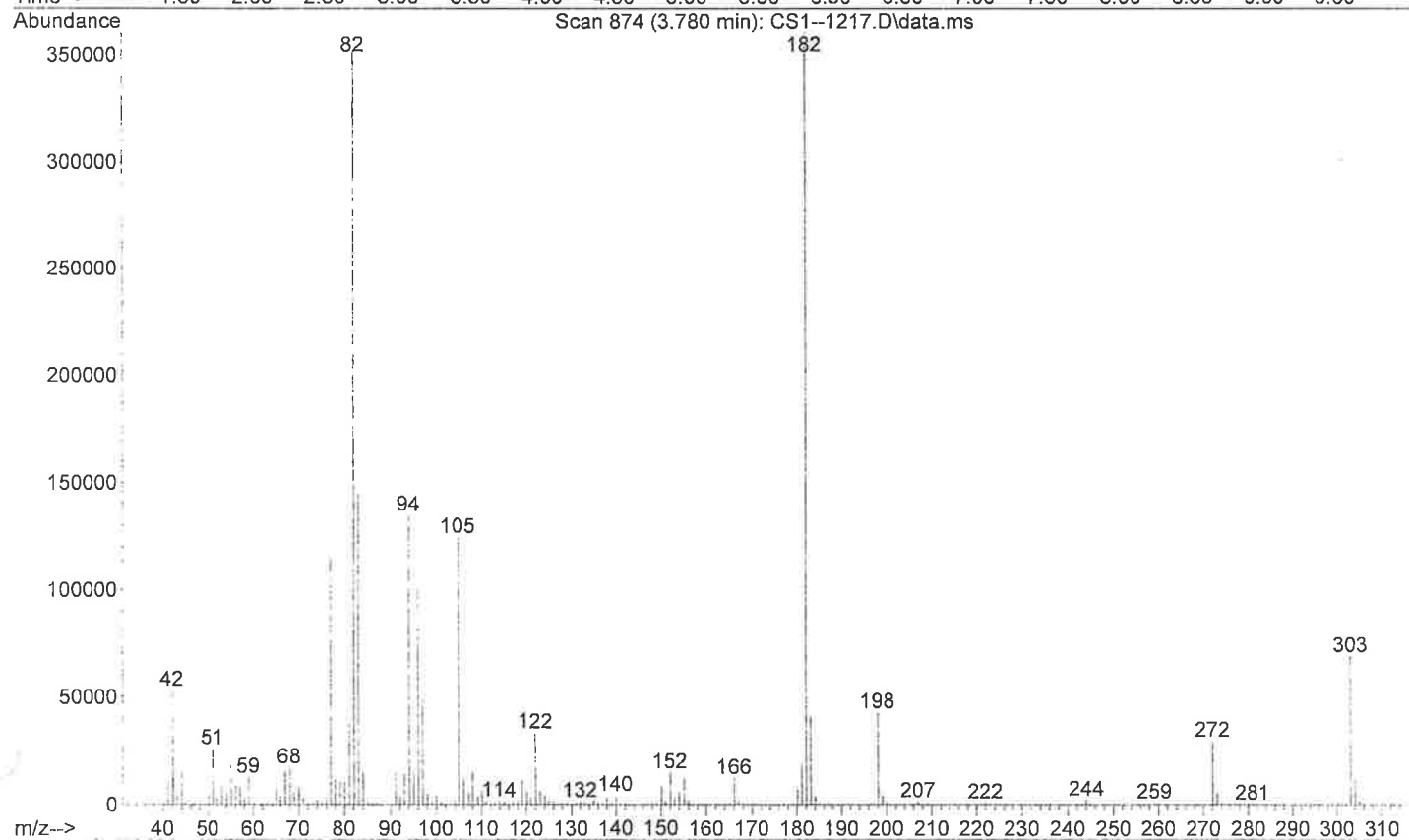
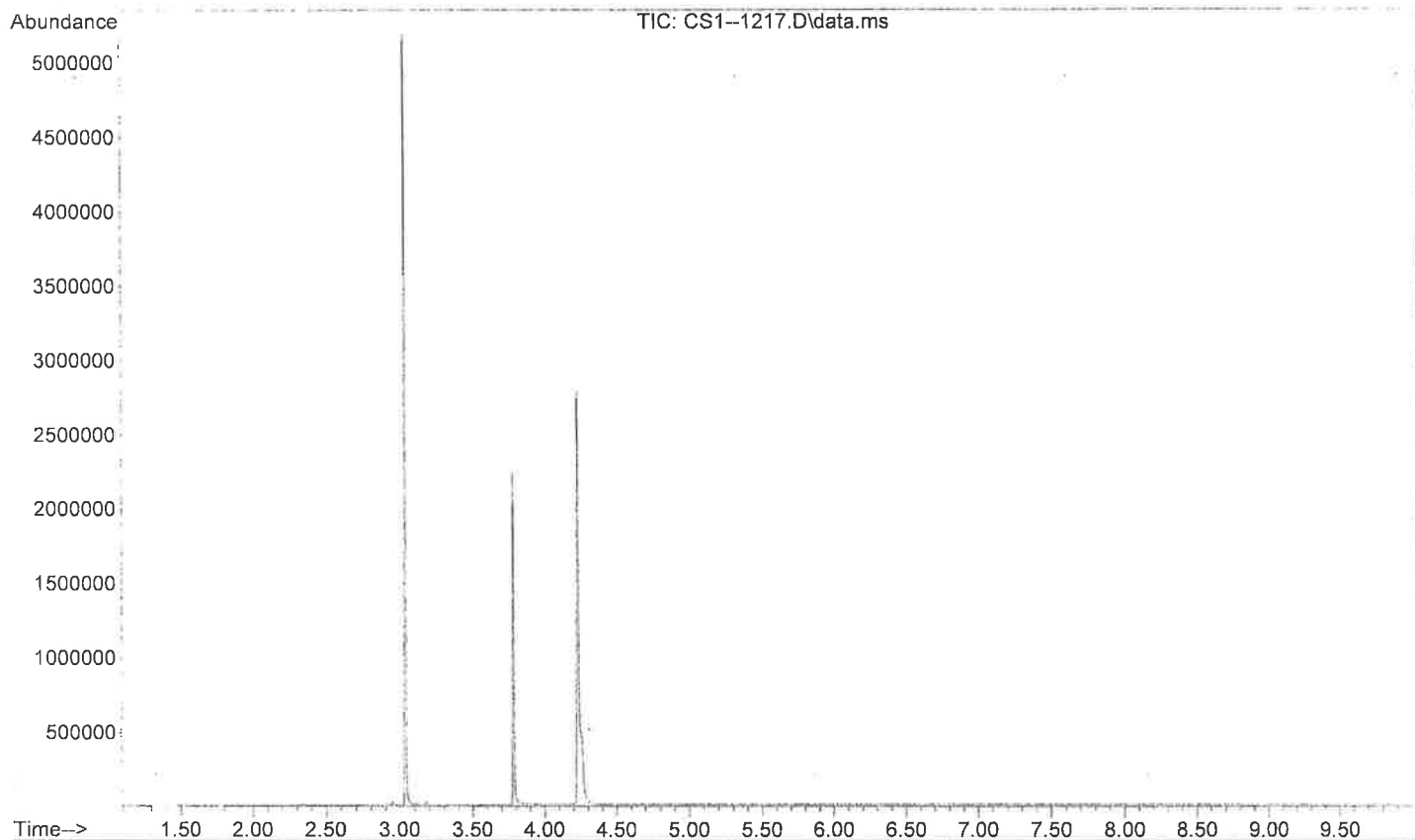
GJG 12-17-18

File :D:\Data\2018\GJG\CS1--1217\CS1--1217.D
Operator : GJG
Acquired : 17 Dec 2018 18:03 using AcqMethod ASMSDRUGS100.M
Instrument : Eggroll
Sample Name: Calibration standard -- 100-280
Misc Info : PETHIDINE / COCAINE / HYDROCODONE
V 1 Number: 2



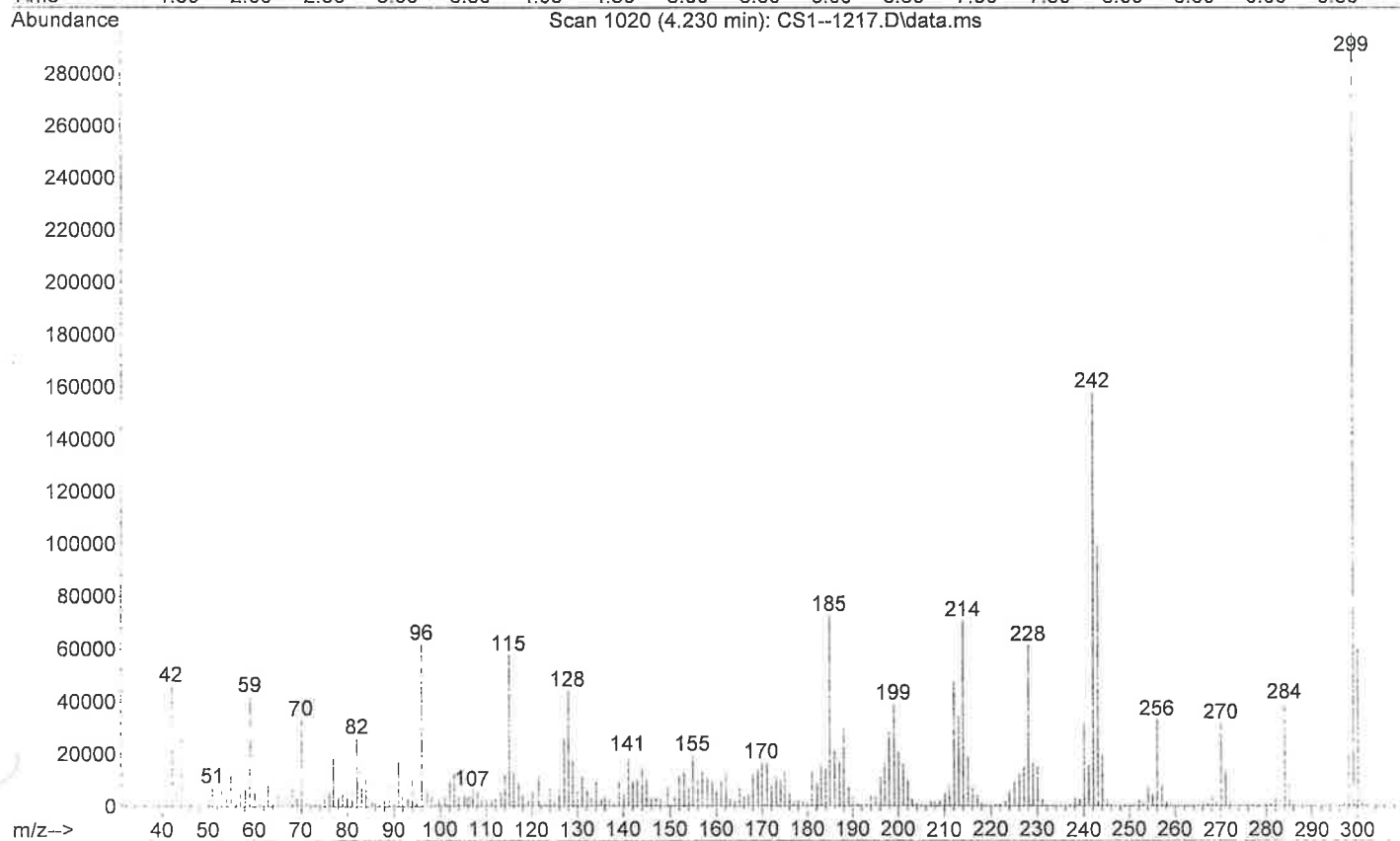
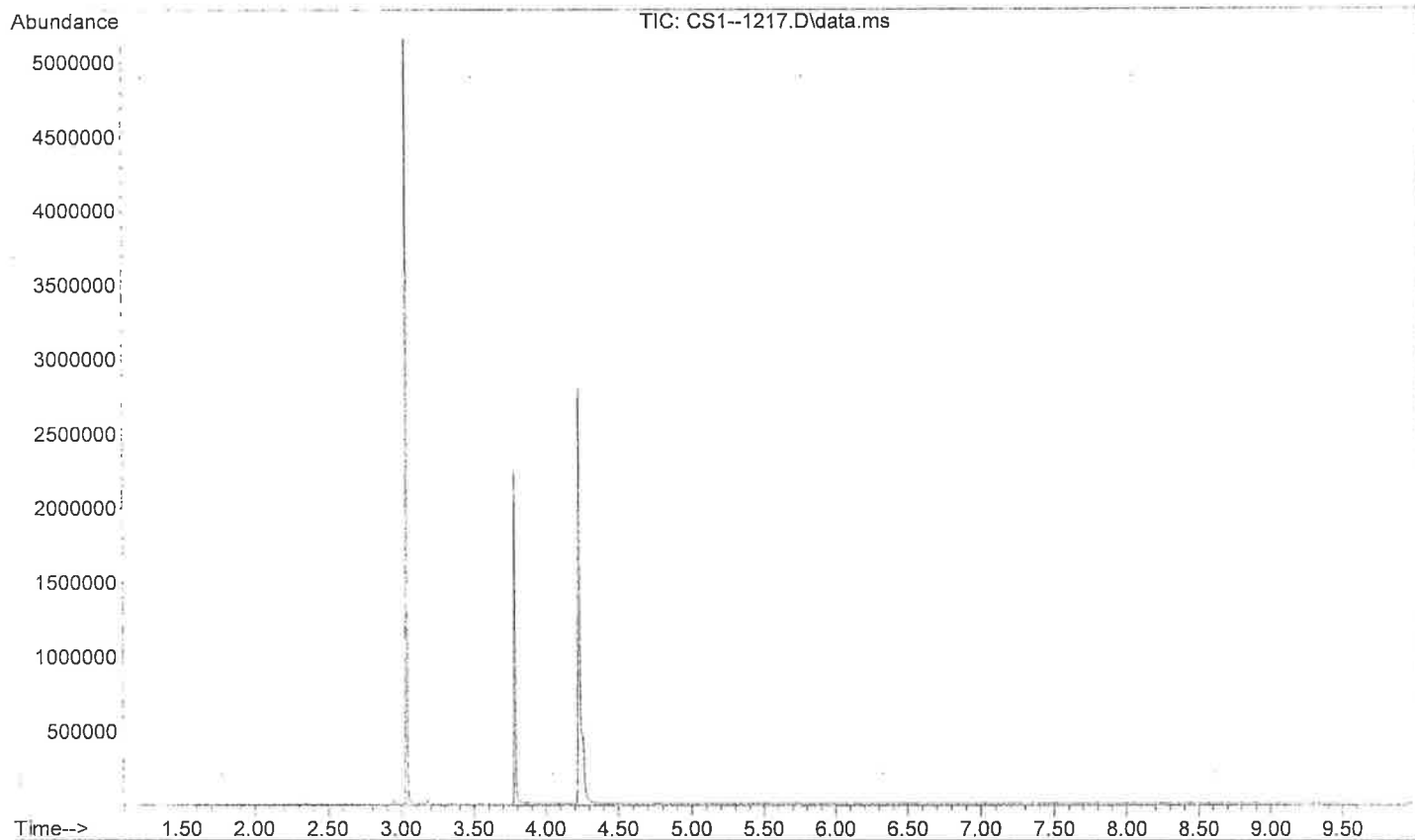
GJG 12-17-18

File : D:\Data\2018\GJG\CS1--1217\CS1--1217.D
Operator : GJG
Acquired : 17 Dec 2018 18:03 using AcqMethod ASMSDRUGS100.M
Instrument : Eggroll
Sample Name: Calibration standard -- 100-280
Misc Info : PETHIDINE / COCAINE / HYDROCODONE
V L Number: 2



GJG 12-17-18

File : D:\Data\2018\GJG\CS1--1217\CS1--1217.D
Operator : GJG
Acquired : 17 Dec 2018 18:03 using AcqMethod ASMSDRUGS100.M
Instrument : Eggroll
Sample Name: Calibration standard -- 100-280
Misc Info : PETHIDINE / COCAINE / HYDROCODONE
V L Number: 2



GJG 12-17-18

Tue Dec 18 10:18:36 2018
C:\MSDCHEM\1\5975\atune.u

Instrument: Eggroll
US61633037

Mass	Ab	Pw50	Mass	Ab	Pw50	Mass	Ab	Pw50
69.00	442676	0.60	219.00	363923	0.60	502.00	32225	0.60

Ion Pol	Pos	MassGain	MassOffs
		-573	-36
Emission	34.6	AmuGain	2118
EIEnergy	69.9	AmuOffs	120.19
Filament	1	Wid219	-0.015
		DC Pol	Pos
Repeller	32.80		
IonFcus	90.2	HEDEnab	On
EntLens	25.5	EMVolts	1365
EntOffs	18.82		

PFTBA	Open	Samples	Averages	Stepsize
		8	3	0.10

Temperatures and Pressures:
MS Source 230 TurboSpd 100
MS Quad 150 HiVac 8.55e-06

66 71 216 221 500 505

Scan: 10.00 - 701.00 Samples: 8 Thresh: 100 Step: 0.10

122 peaks Base: 69.00 Abundance: 424064

100

80

60

40

20

0

100 200 300 400 500 600 700

Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	424064	100.00	70.00	4619	1.09
219.00	350144	82.57	220.00	15339	4.38
502.00	30848	7.27	503.00	3172	10.28

Air/Water Check: H2O~1.73% N2~0.84% O2~0.26% CO2~0.45% N2/H2O~48.53%

Column(1) Flow: 1.26 Column(2): 2.53 ml/min. Interface Temp: 280

Ramp Criteria:

Ion Focus Maximum	90	volts using ion	502;	EM Gain	26308
Repeller Maximum	35	volts using ion	219;	Gain Factor	0.26

MassGain Values(Samples): -566(3) -558(2) -543(1) -519(0) -432(FS)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset:	120.2	120.2	120.2	120.2	120.2	120.2	120.2
Entrance Lens Offset:	18.8	18.8	18.8	18.8	18.8	18.8	18.8

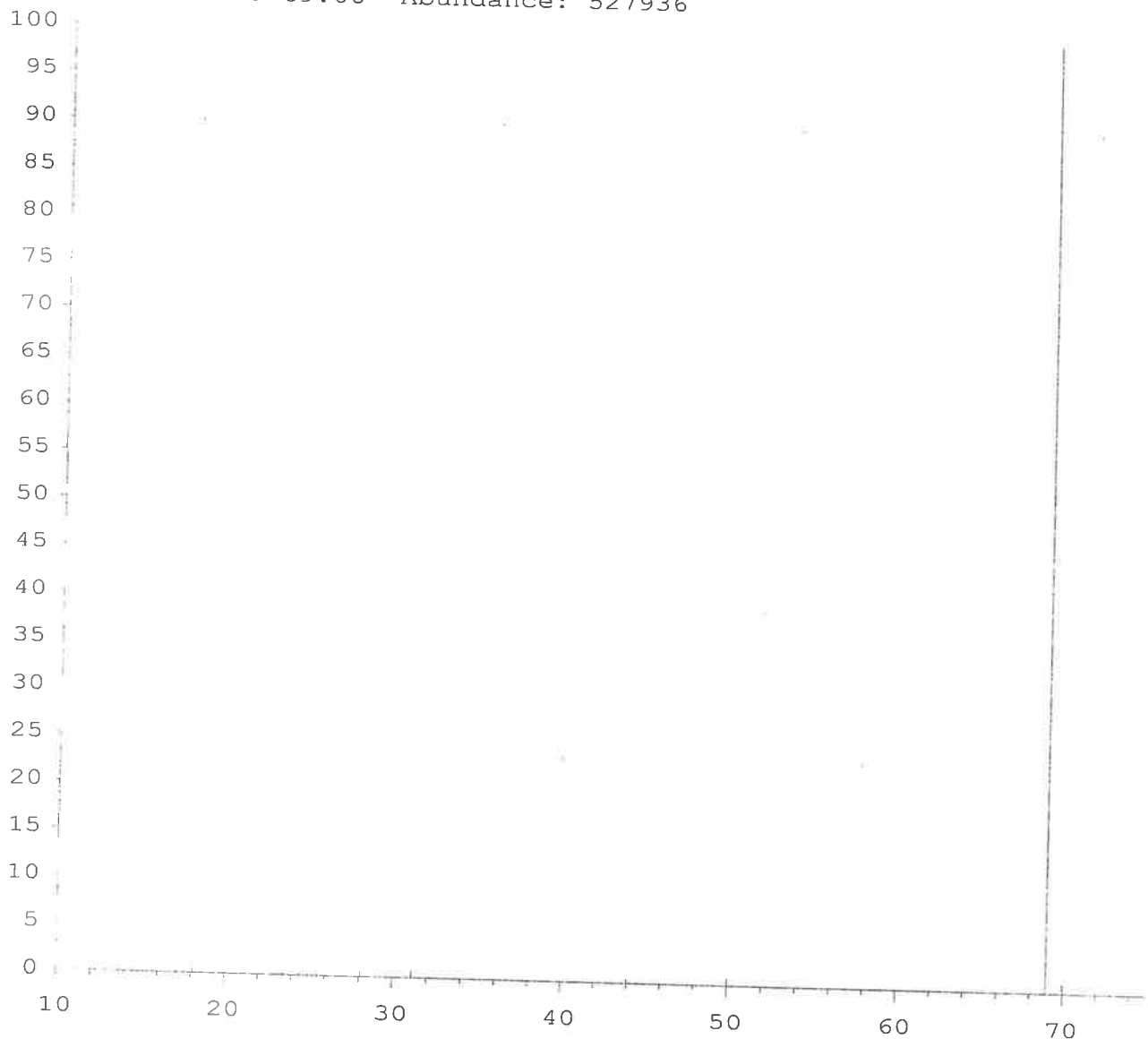
GIG 12-18-18

597x Air and Water Check

Instrument: Eggroll

Tue Dec 18 10:23:29 2018

C:\msdchem\1\5975\

Scan: 10.00 - 75.00 Samples: 8 Thresh: 0 Step: 0.10
67 peaks Base: 69.00 Abundance: 527936

Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	527936	100.00	70.00	5751	1.09
18.10	7032	1.33	19.00	55	0.78
28.10	3503	0.66	29.10	97	2.77

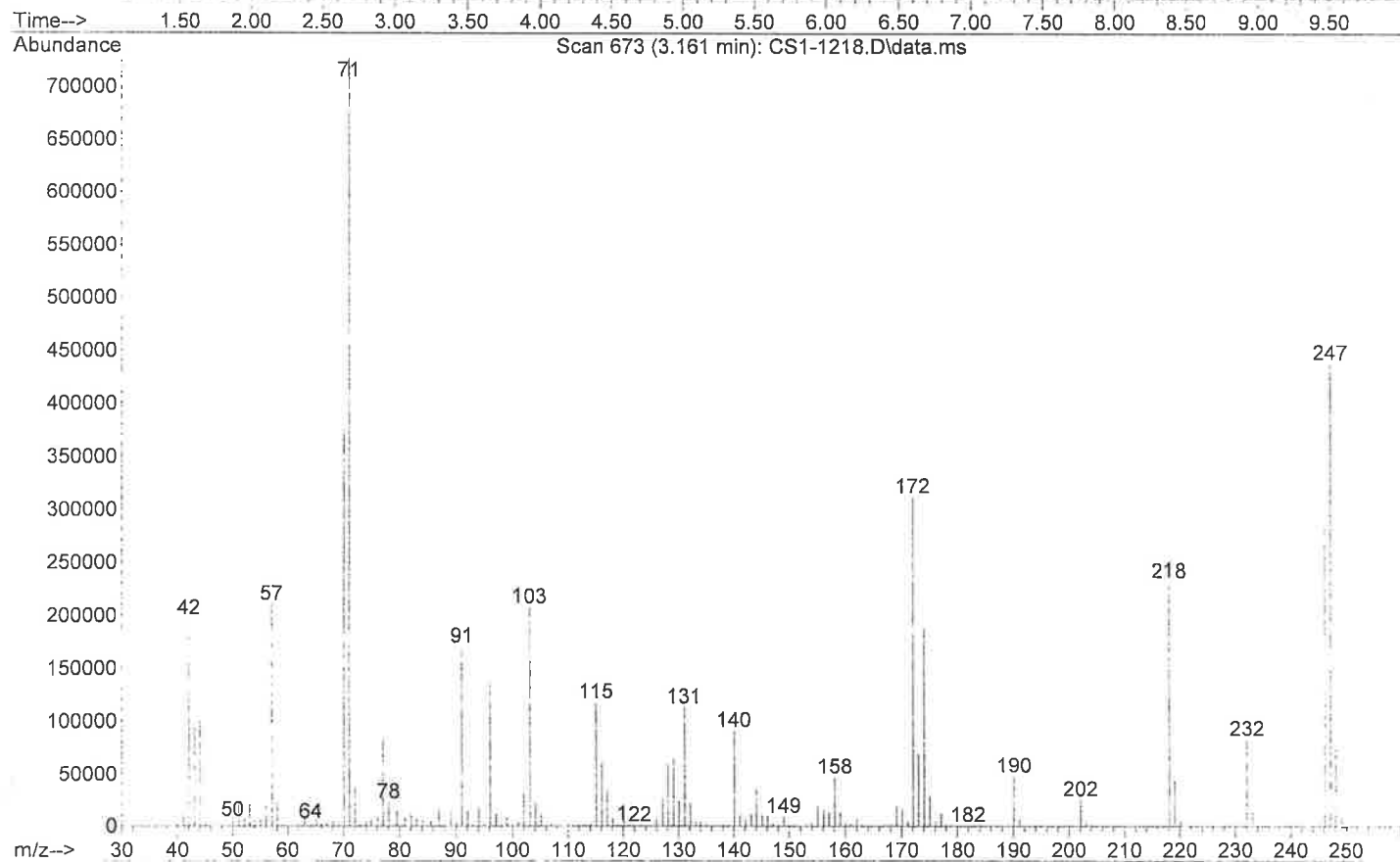
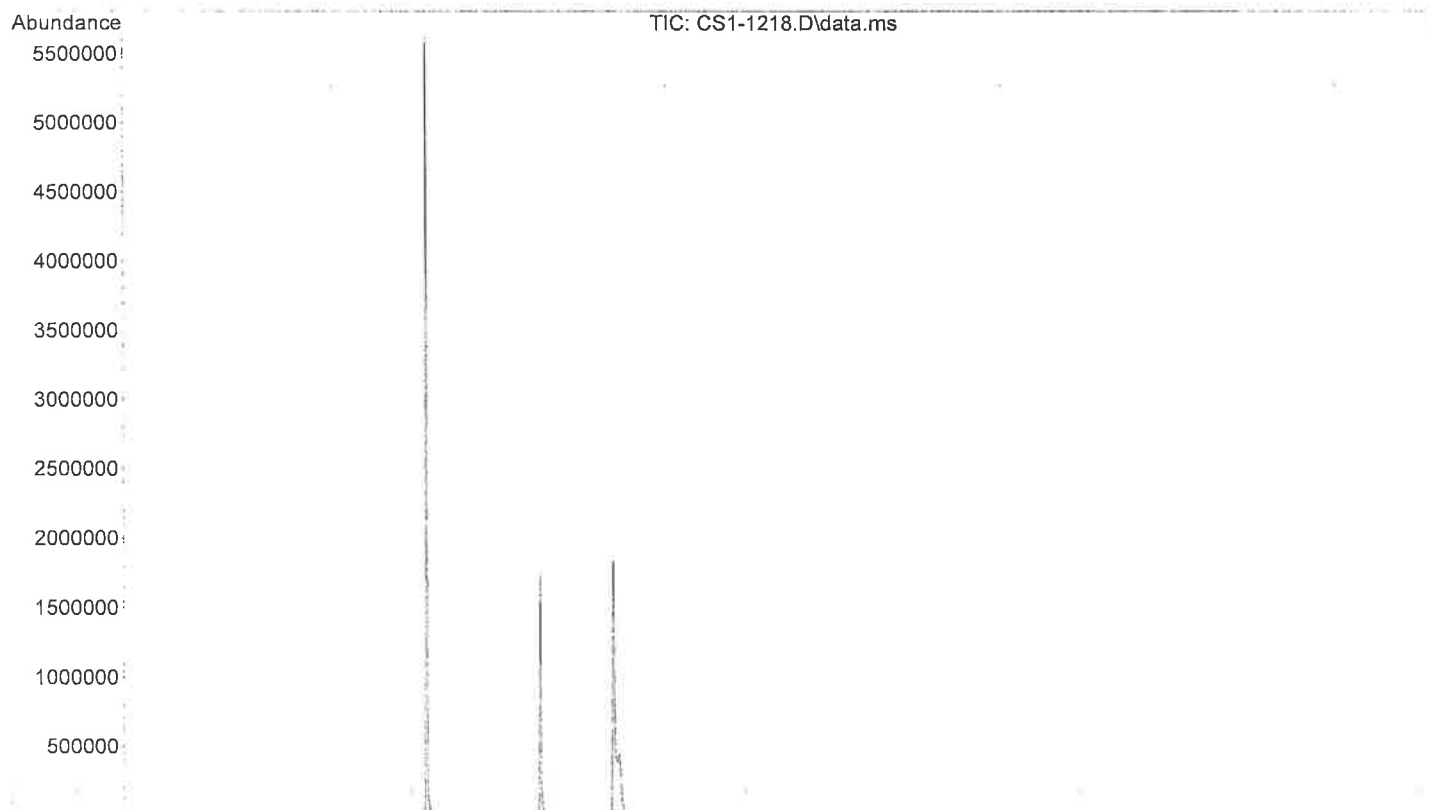
Maximum Sensitivity Quick Tune:air.u

Relative abundances:

18/69 =	1.33	Water%	(counts=7032)
28/69 =	0.66	Nitrogen%	(counts=3503)
32/69 =	0.19	Oxygen%	(counts=1016)
44/69 =	0.42	Carbon Dioxide%	(counts=2213)
28/18 =	49.82	Nitrogen/Water%	

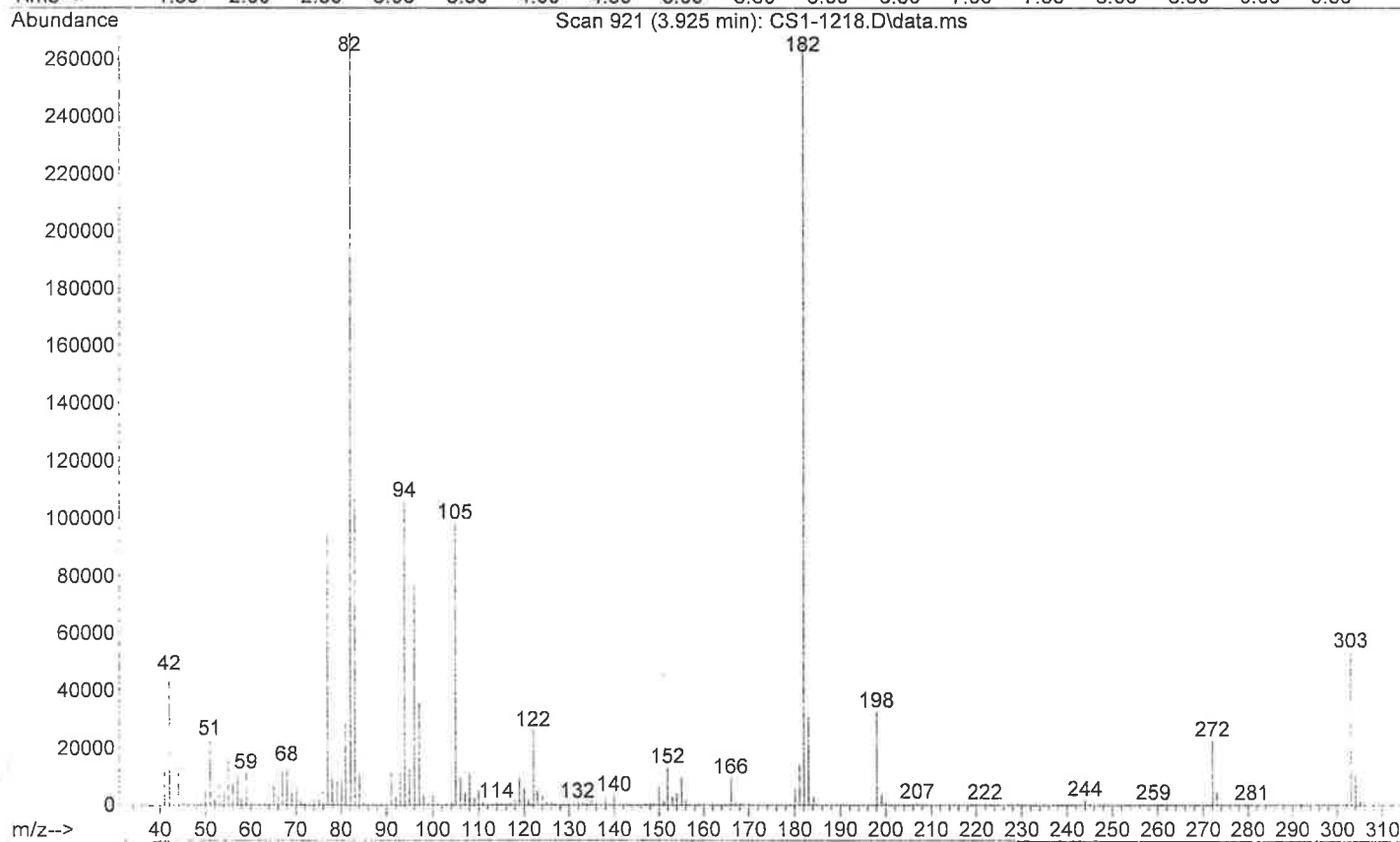
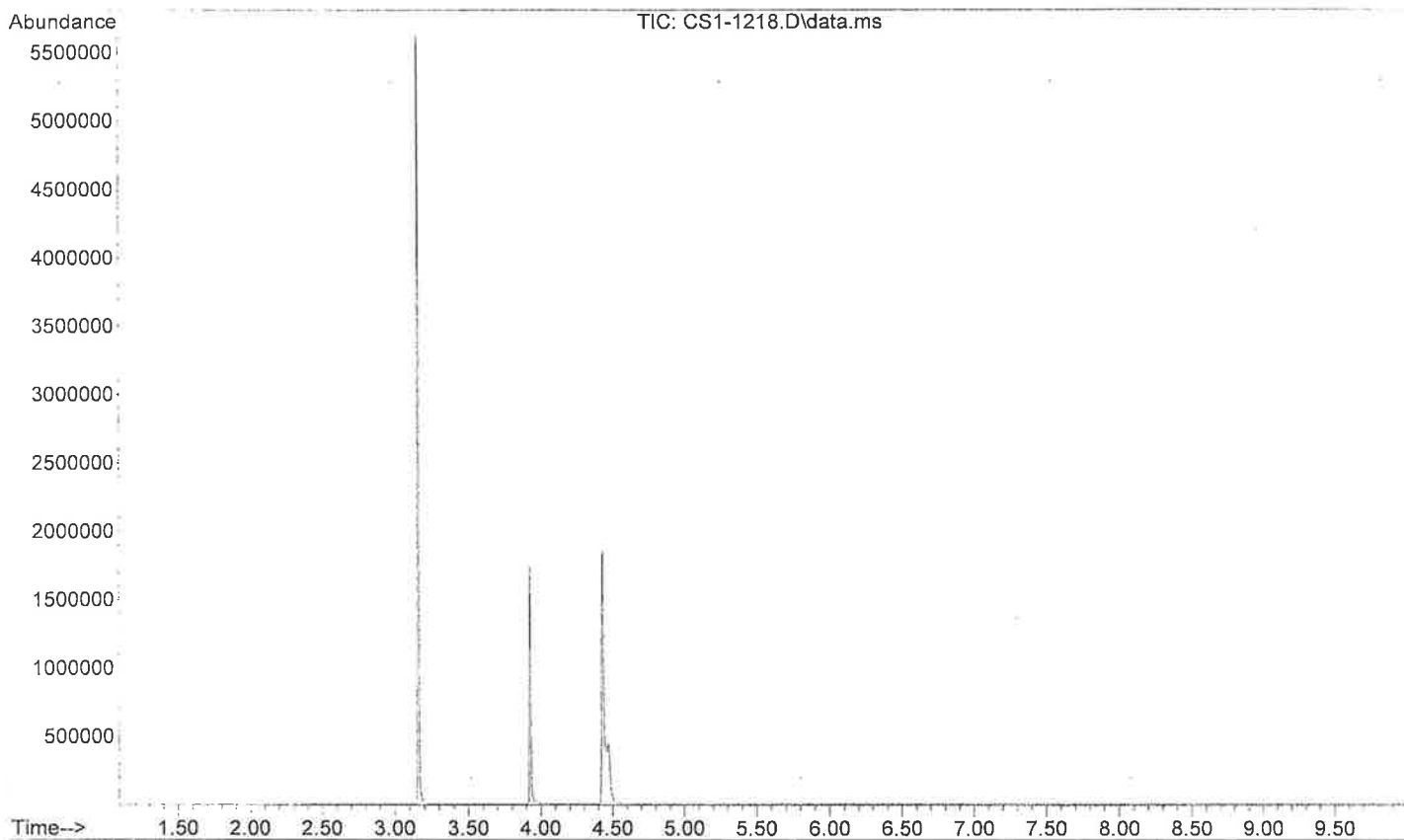
GJG 12-18-18

File : D:\Data\2018\GJG\CS1-1218\CS1-1218.D
Operator : GJG
Acquired : 18 Dec 2018 10:49 using AcqMethod ASMSDRUGS100.M
Instrument : Eggroll
Sample Name: Calibration standard -- 100-280
Misc Info : PETHIDINE / COCAINE / HYDROCODONE
1 Number: 2



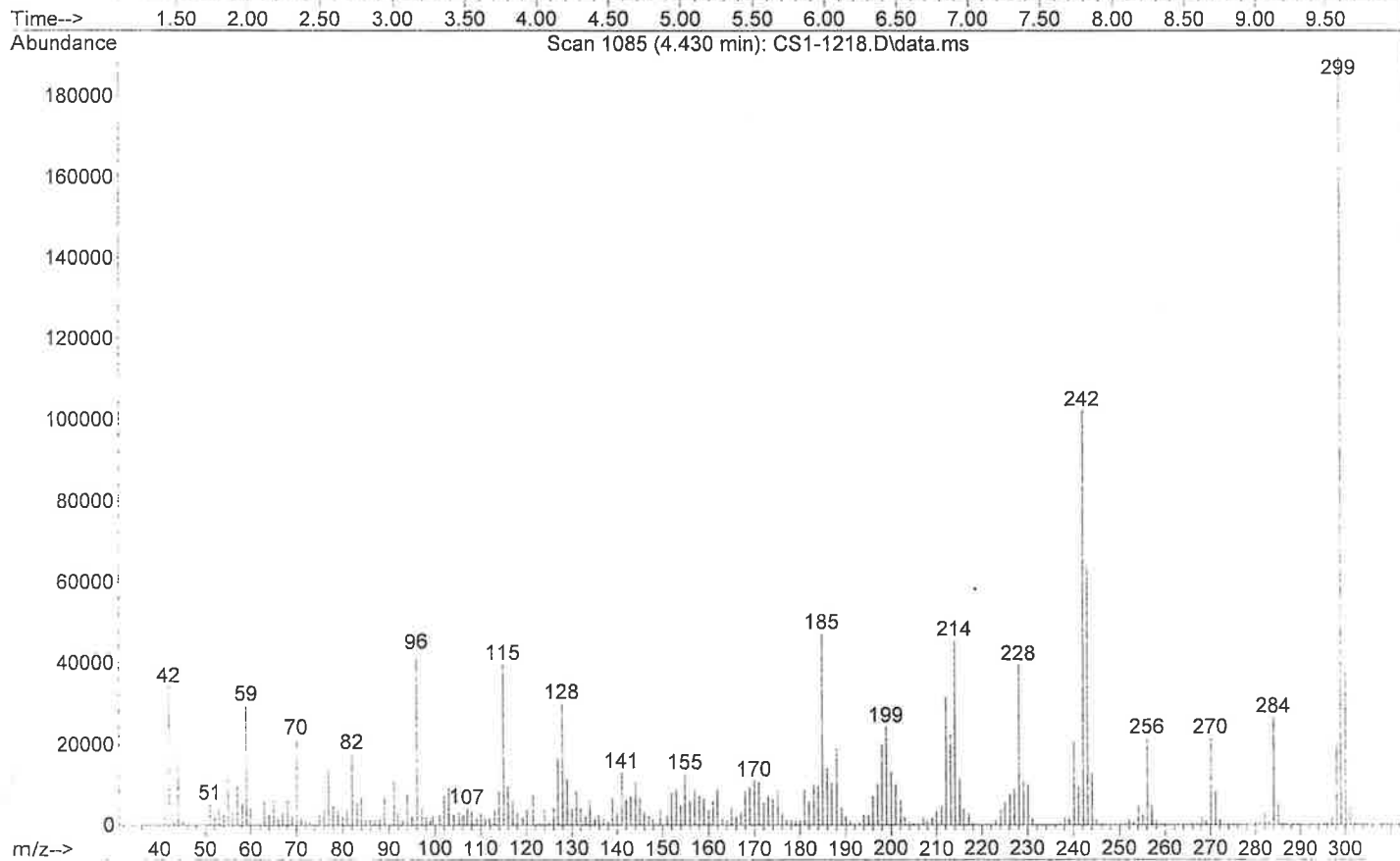
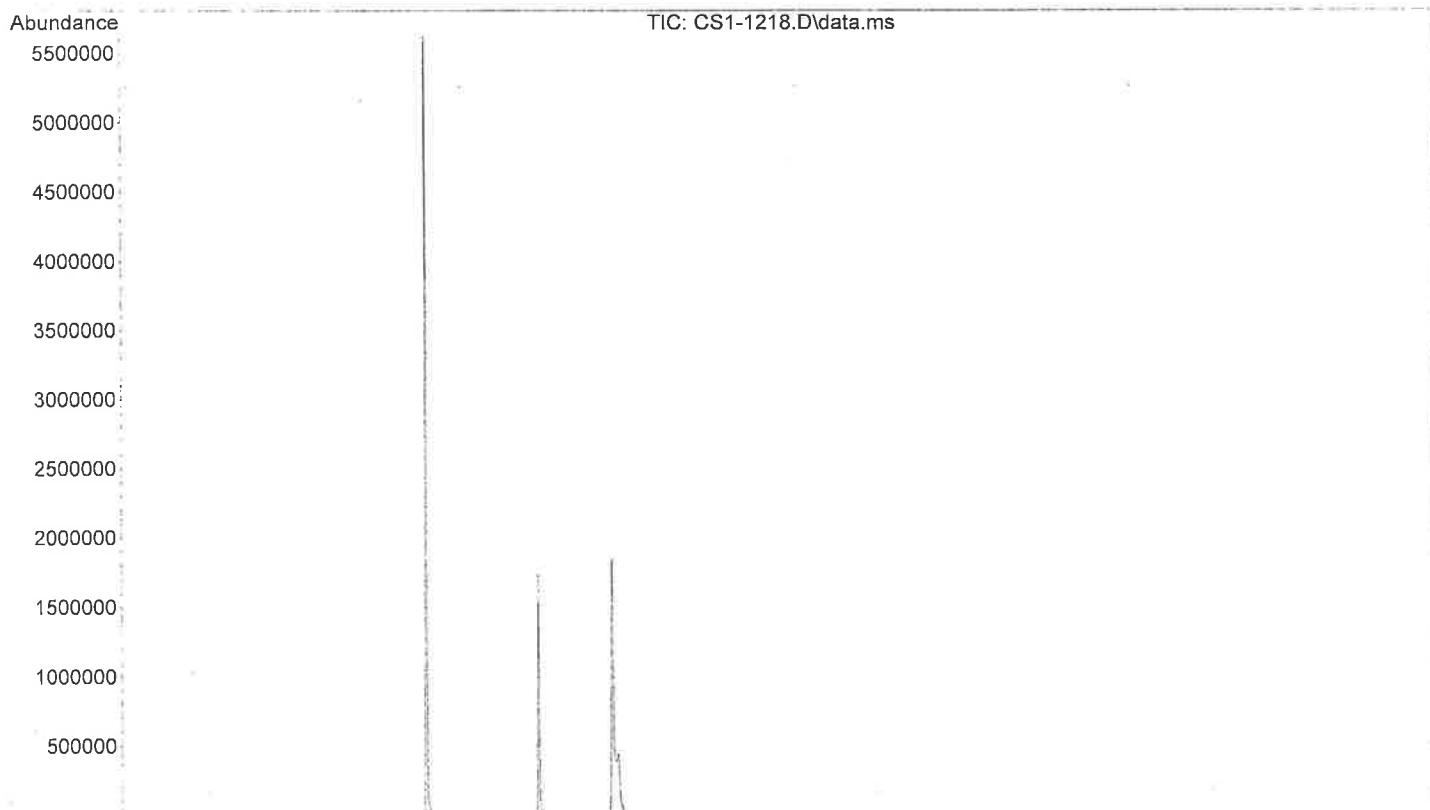
GJG-12-18-18

File : D:\Data\2018\GJG\CS1-1218\CS1-1218.D
Operator : GJG
Acquired : 18 Dec 2018 10:49 using AcqMethod ASMSDRUGS100.M
Instrument : Eggroll
Sample Name: Calibration standard -- 100-280
Misc Info : PETHIDINE / COCAINE / HYDROCODONE
1 Number: 2



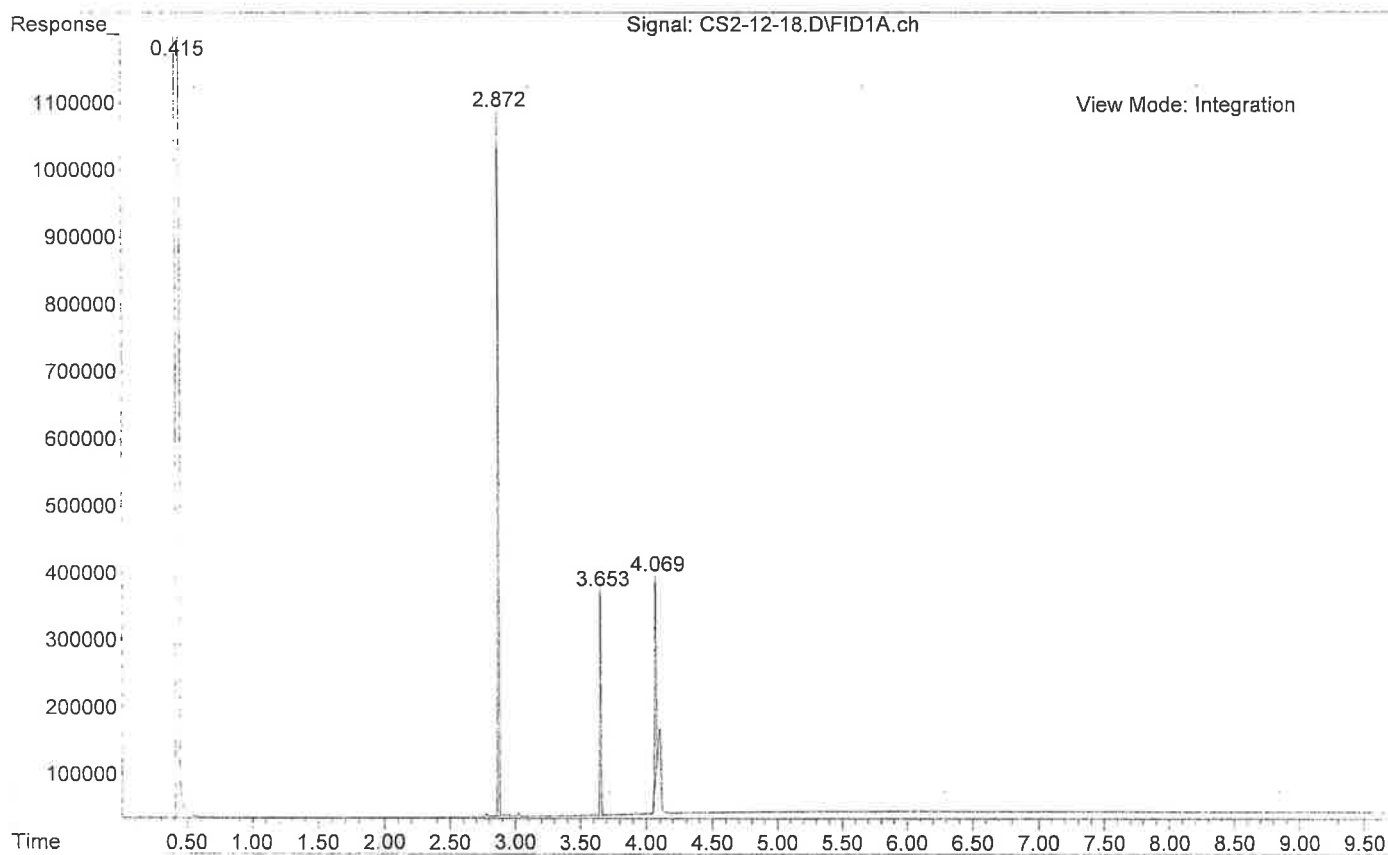
GJG 12-18-18

File : D:\Data\2018\GJG\CS1-1218\CS1-1218.D
Operator : GJG
Acquired : 18 Dec 2018 10:49 using AcqMethod ASMSDRUGS100.M
Instrument : Eggroll
Sample Name: Calibration standard -- 100-280
Misc Info : PETHIDINE / COCAINE / HYDROCODONE
1 Number: 2



GJG 12-18-18

File :D:\Data\2018\GJG\CS2-12-18\CS2-12-18.D
Operator : GJG
Acquired : 18 Dec 2018 17:22 using AcqMethod ASGC100.M
Instrument : Eggroll
Sample Name: Calibration standard -- 100-280
Misc Info : PETHIDINE / COCAINE / HYDROCODONE
1 Number: 2



GJG 12-18-18

[illegible]