Brazoria County Crime Lab

Seized Drugs Section

GC-MS Maintenance Log

Instrument: GCMS-4 **Month/Year:** March 2025

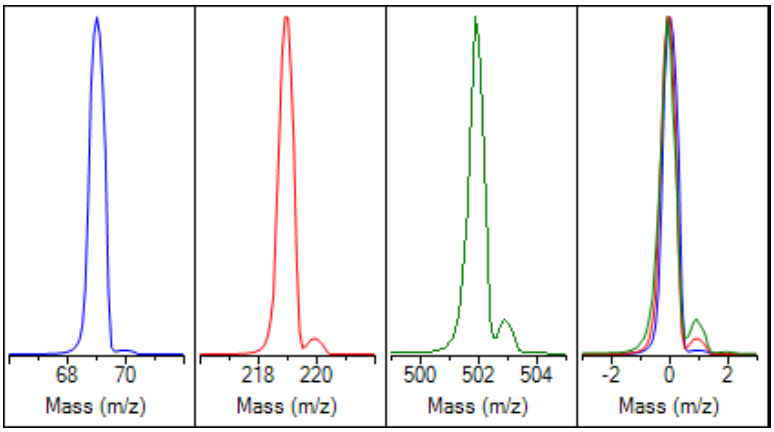
Entry Number	Date	He Tank Pressure	Autotune	Septum Change	Wash Vials Filled	Liner Change	Gold Seal Replaced	Column Cut	Computer Restarted	Maintenance/ PM	Analyst/ Technician	Comments	Initials
1	3/4/2025	1300	Pass	N/A	✓	N/A	N/A	N/A	N/A	Maintenance	Analyst		DS
2	3/10/2025	2500	Pass	N/A	✓	N/A	N/A	N/A	N/A	Maintenance	Analyst	New Helium tank - DS	DS
3	3/17/2025	1600	Pass	N/A	✓	N/A	N/A	N/A	N/A	Maintenance	Analyst		DS
4	3/24/2025	600	Pass	N/A	✓	N/A	N/A	N/A	✓	Maintenance	Analyst	Lab wide power outage	DS
5	3/26/2024	2500	Pass	N/A	N/A	N/A	N/A	N/A	N/A	Maintenance	Analyst	New Helium tank - MH	DS
6	3/31/2025	1800	Pass	✓	✓	✓	N/A	N/A	N/A	Maintenance	Analyst		DS

Signature: Derek Sanders **Date:** 31 March 2025

High Efficiency Source Autotune - 5977

Tune timestamp: 3/4/2025 8:21 AM (UTC-06:00) GCMS #4

D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002



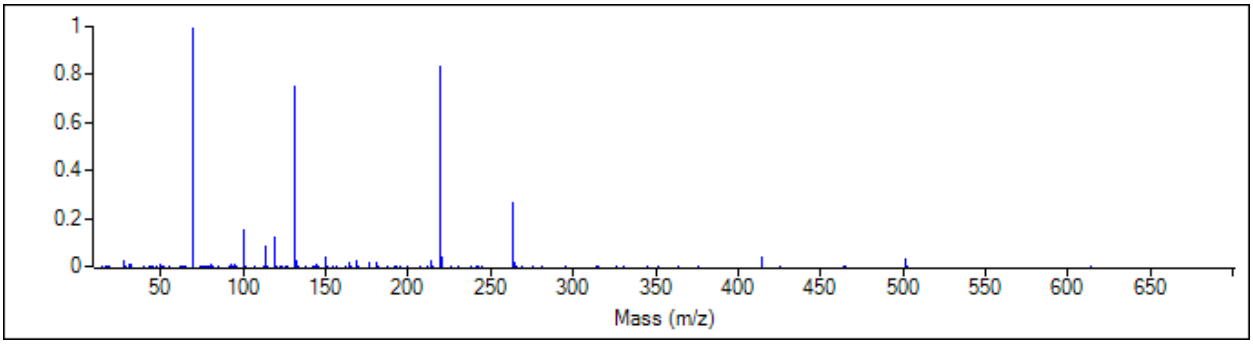
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	76
Electron Energy	70.0	Mass Offset	-27
Filament	1	Amu Gain	2450
Repeller	13.88	Amu Offset	136.63
Ion Focus	149.6	Width219	0.001
Entrance Lens	10.1	DC Polarity	Pos
Ent Lens Offset	13.90	HED Enable	On
Ion Body	5.00	EM Volts	2161.9
Post Extractor 1	12	Extractor Lens	14.20
Post Extractor 2	32	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	464,052	100.0%	0.61
218.90	389,459	83.9%	0.60
501.90	18,267	3.9%	0.59

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	7.66e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	113	69.00	439,488	1,633,591



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	439,488	100.0%	70.00	5,241	1.2%
219.00	219.00	367,936	83.7%	220.00	16,952	4.6%
502.00	502.00	14,442	3.3%	503.00	1,616	11.2%

Air/Water Check: H20 ~0.2% N2 ~2.9% O2 ~0.9% CO2 ~0.2% N2/H20 ~1829.2%

Column(1) Flow: 0.70 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 128 volts using ion 502; Electron Multiplier Gain 10144.200

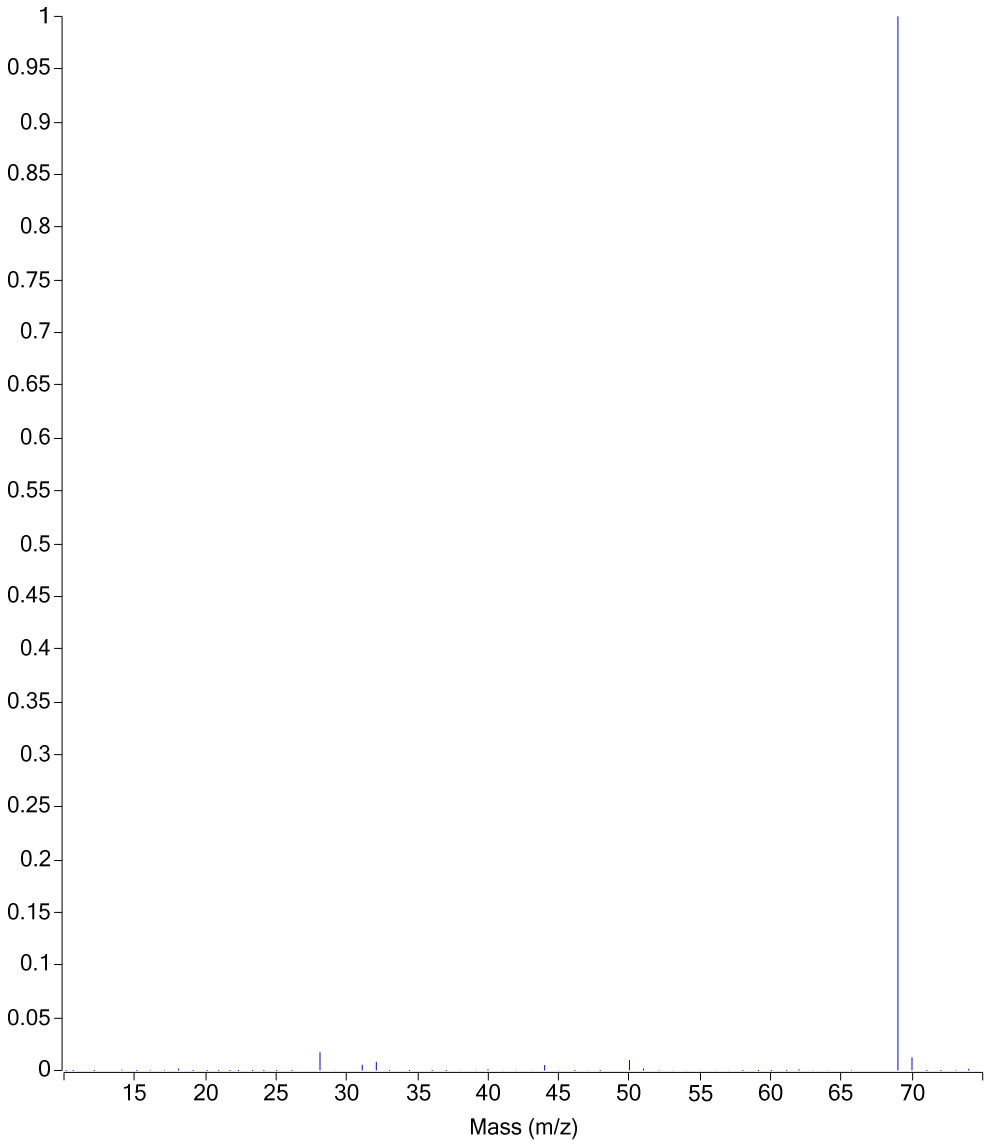
Repeller maximum 35 volts using ion 219; Gain Factor 0.1014

Mass Gain Values(Scan Speed): 86(3) 91(2) 98(1) 105(0) 157(FS1) 156(FS2) 156(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	136.6	136.6	136.6	136.6	136.6	136.6	136.6
Entrance Lens Offset	13.9	13.9	13.9	13.9	13.9	13.9	13.9

597x Air and Water Check

Instrument: GCMS #4
Tue Mar 04 08:11:15 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: HES_Atune.u

Relative abundances:

18/69 =	0.19	Water%	(counts=1836)
28/69 =	1.73	Nitrogen%	(counts=16432)
32/69 =	0.83	Oxygen%	(counts=7921)
44/69 =	0.53	Carbon Dioxide%	(counts=5008)
28/18 =	894.99	Nitrogen/Water%	

Instrument Name : GCMS #4
DC Polarity : Positive
Filament 1
Current Vacuum status :High Vacuum: 5.59E-06 Torr Turbo:100%

BasePeak should be 69 or 219		OK
Position of mass 69	69.00	OK
Position of mass 219	219.00	OK
Position of mass 502	502.00	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	220.00	OK
Position of isotope mass 503	503.00	OK
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.20	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.60	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.24	OK
Ratio of 219 to 69 should be > 40% and is	82.08	OK
Ratio of 502 to 69 should be > 2.4% and is	3.43	OK
Mass 69 Precursor (<= 3%)	0.79	OK
Mass 219 Precursor (<= 6%)	2.39	OK
Mass 502 Precursor (<= 12%)	7.22	OK

597x Air and Water Check
Tue Mar 04 08:33:49 2025 Instrument: GCMS #4
D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002

Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	0.16	OK
Ratio of 28 to 69 (<10%)	3.03	OK
Electron Multiplier Voltage	2162	OK

Tune portion of System Verification passed.

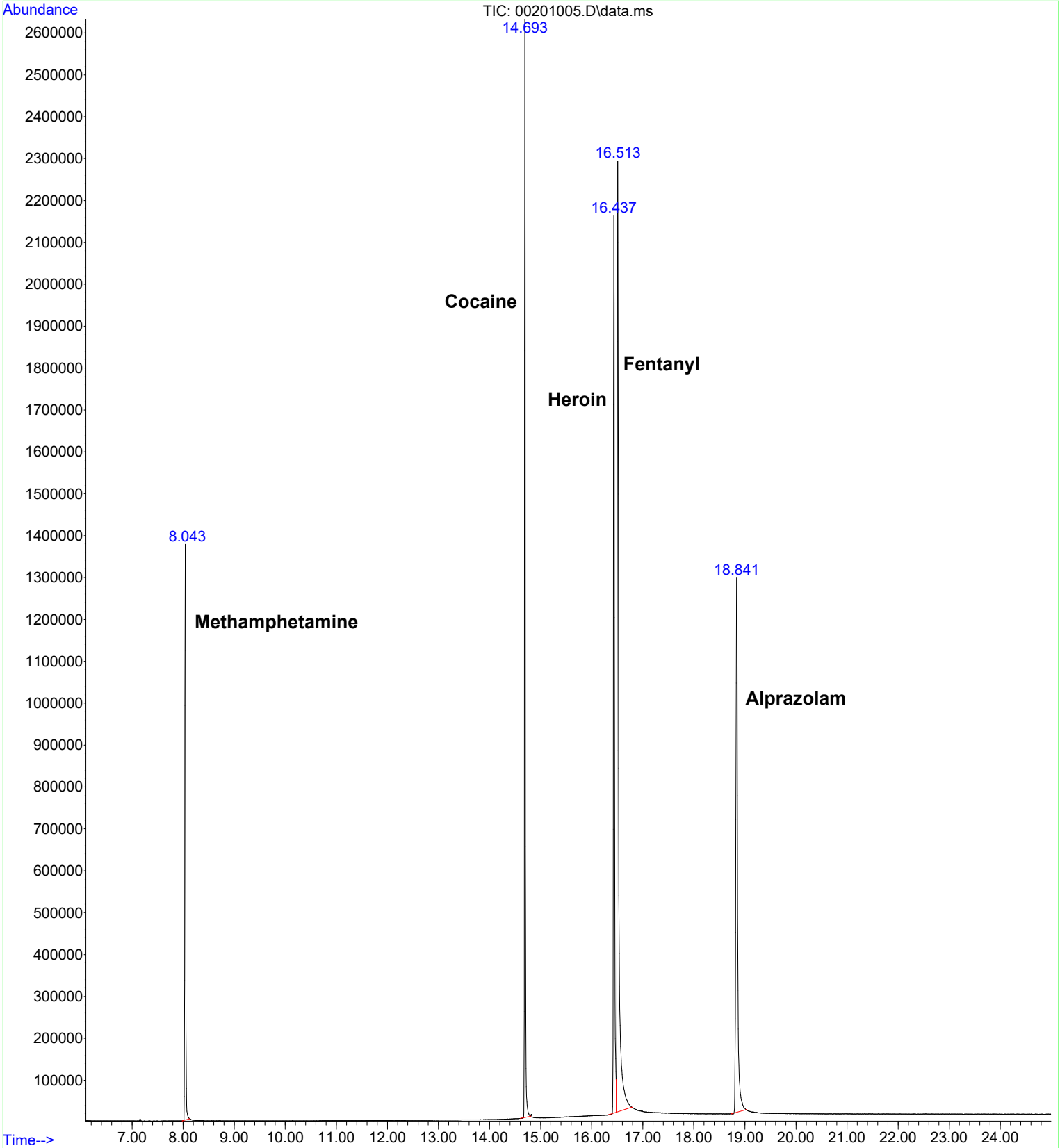
BCCL GC/MS #4
Retention Times for the Week of:

03/03/2025 - 03/09/2025

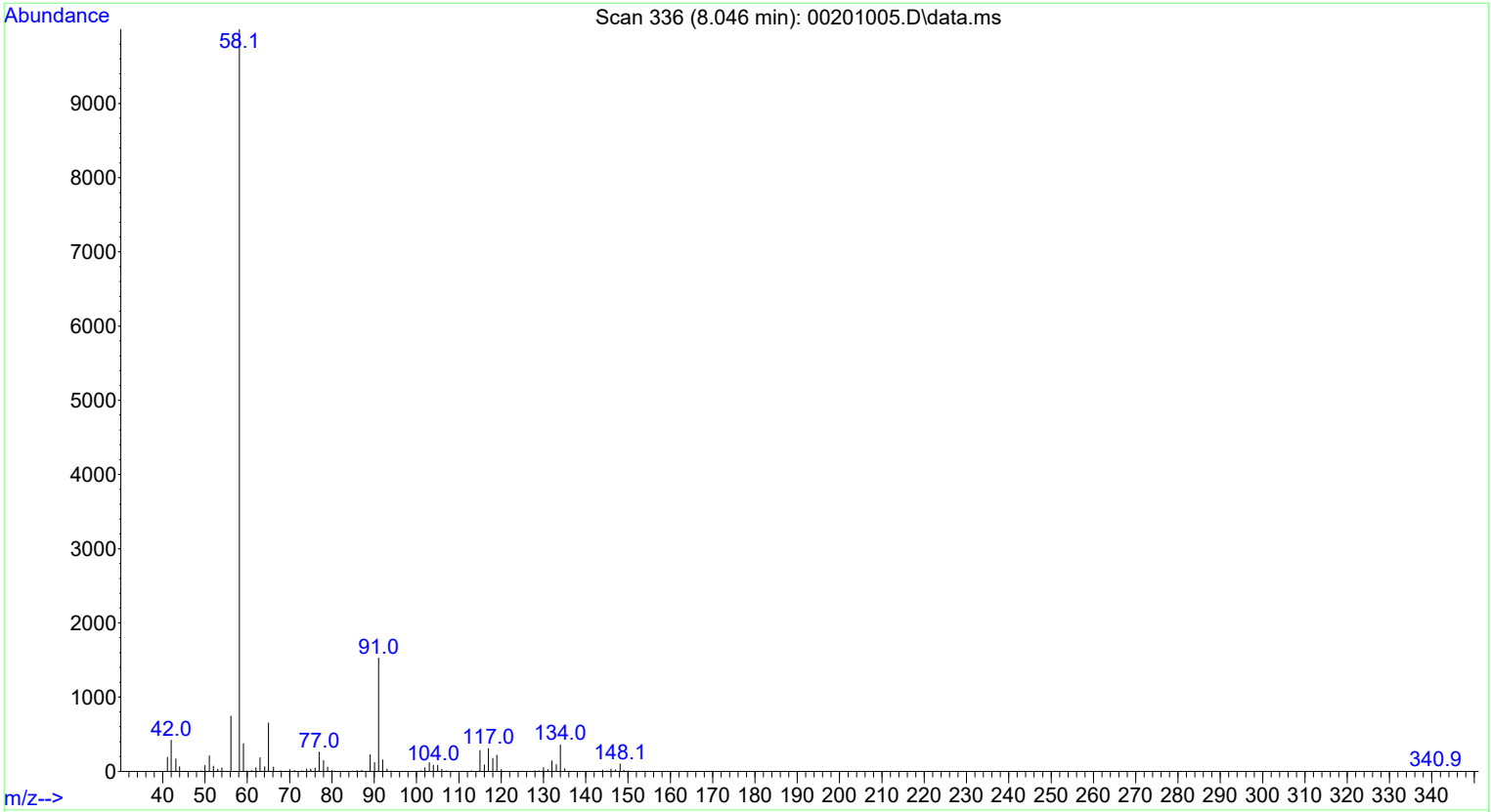
[X] **Tune:** DS **03/04/2025 - HES Autotune**

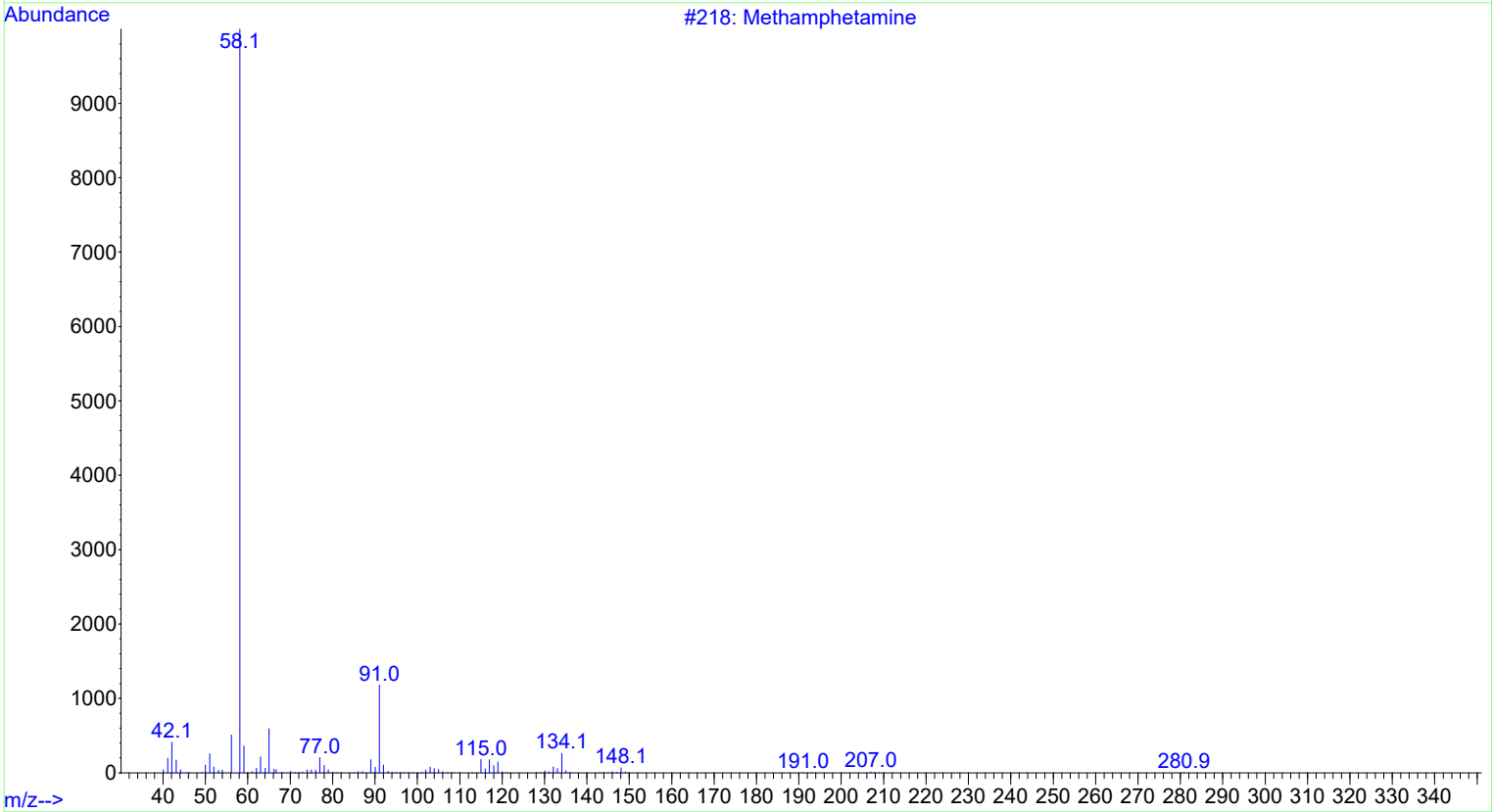
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35MS	8.043	7.962	8.123
Cocaine	R-24-060	DrugTest35MS	14.693	14.546	14.839
Heroin	R-24-060	DrugTest35MS	16.437	16.272	16.601
Fentanyl	R-24-060	DrugTest35MS	16.513	16.347	16.678
Alprazolam	R-24-060	DrugTest35MS	18.841	18.652	19.029

File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\030425\00201005.D
Acquired : 04 Mar 2025 10:39 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2

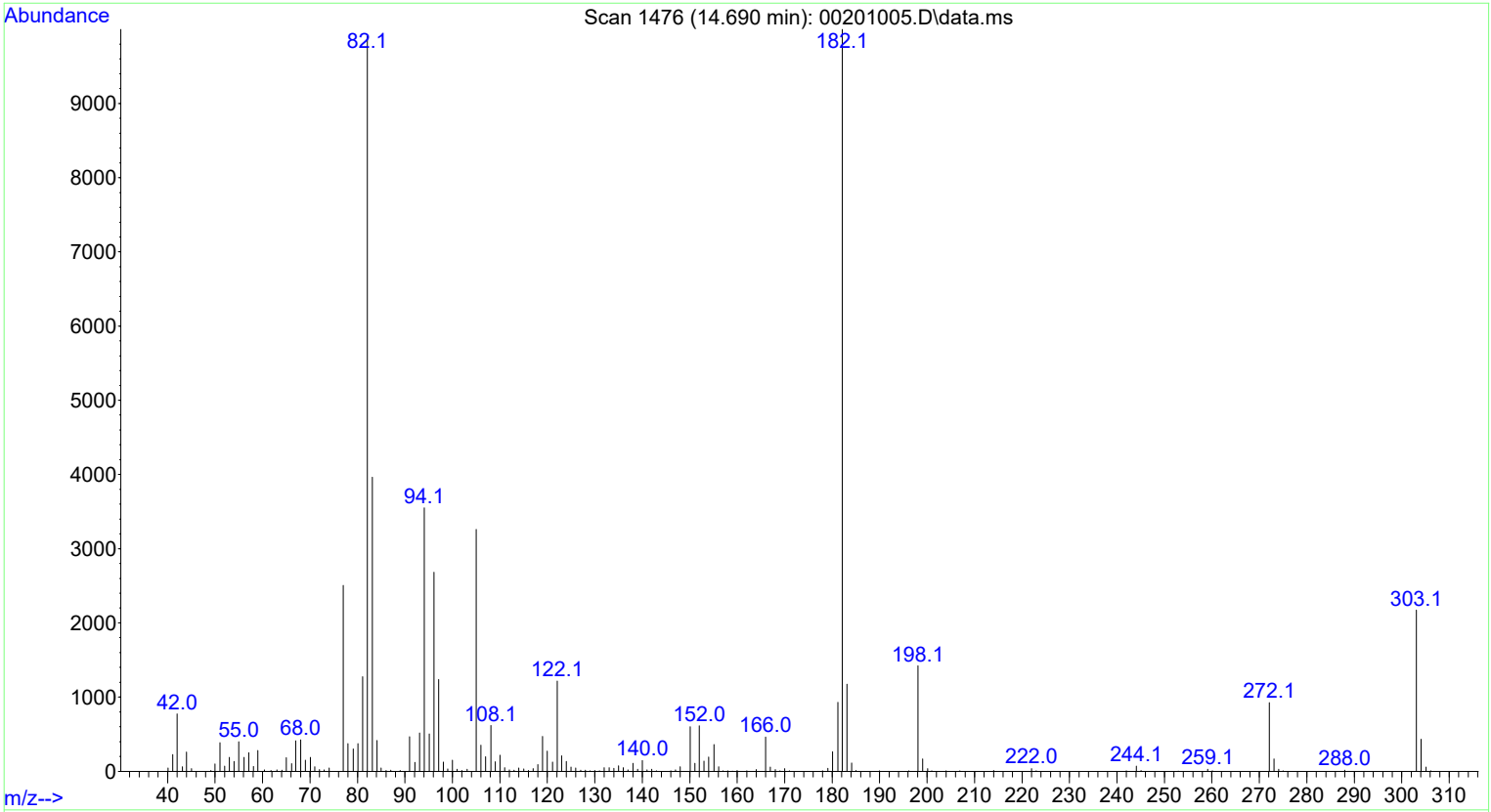


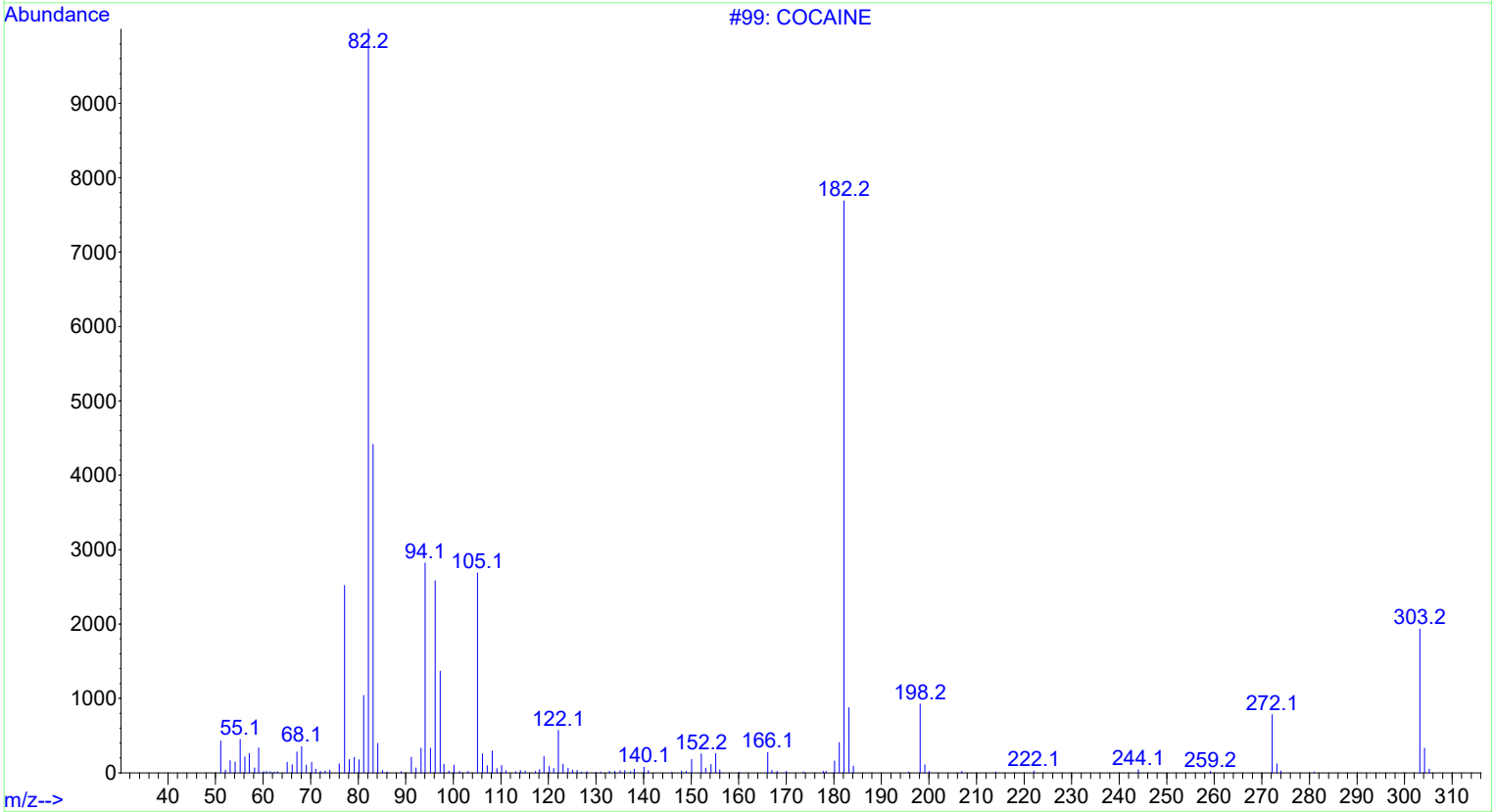
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Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



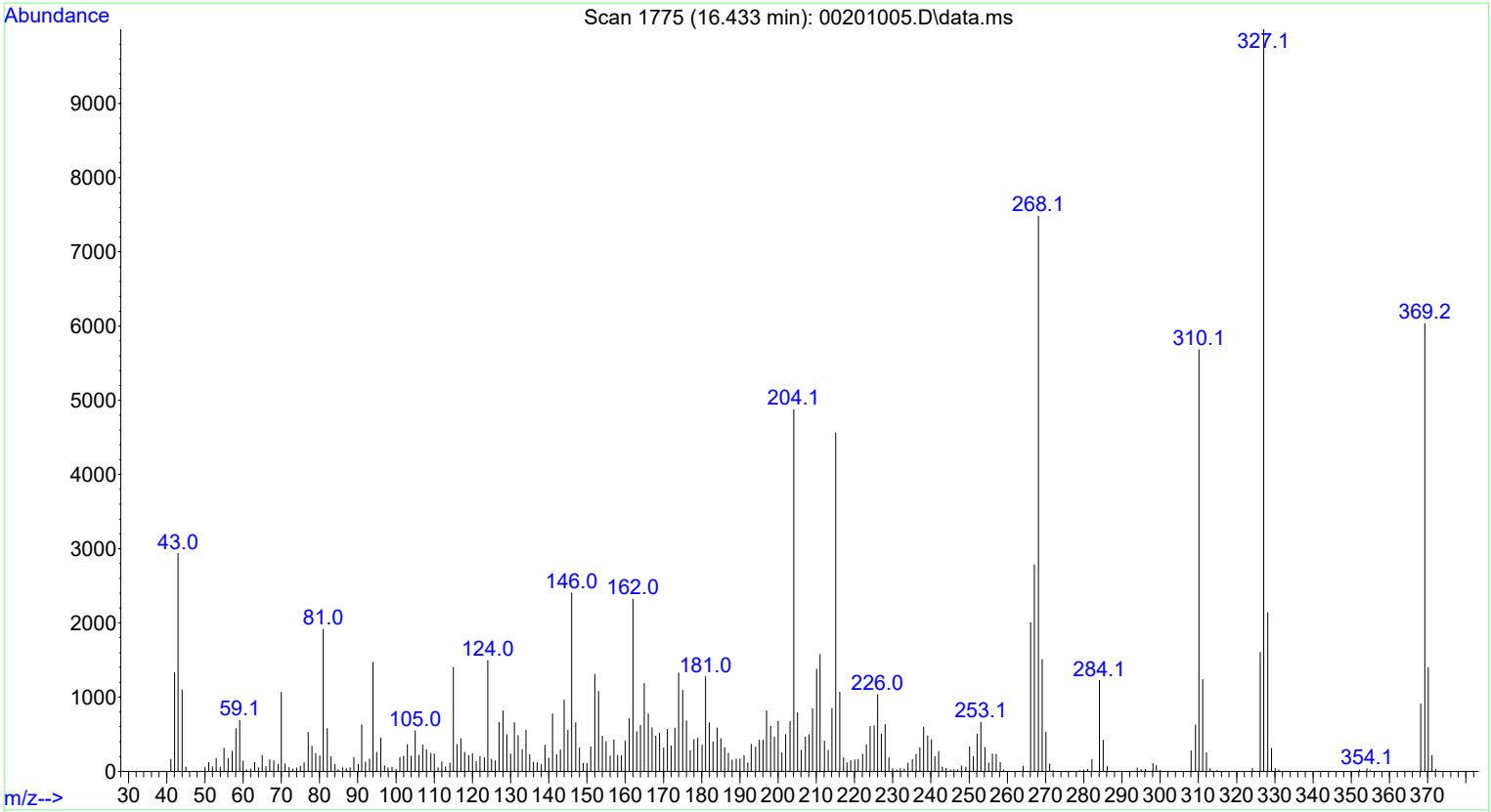


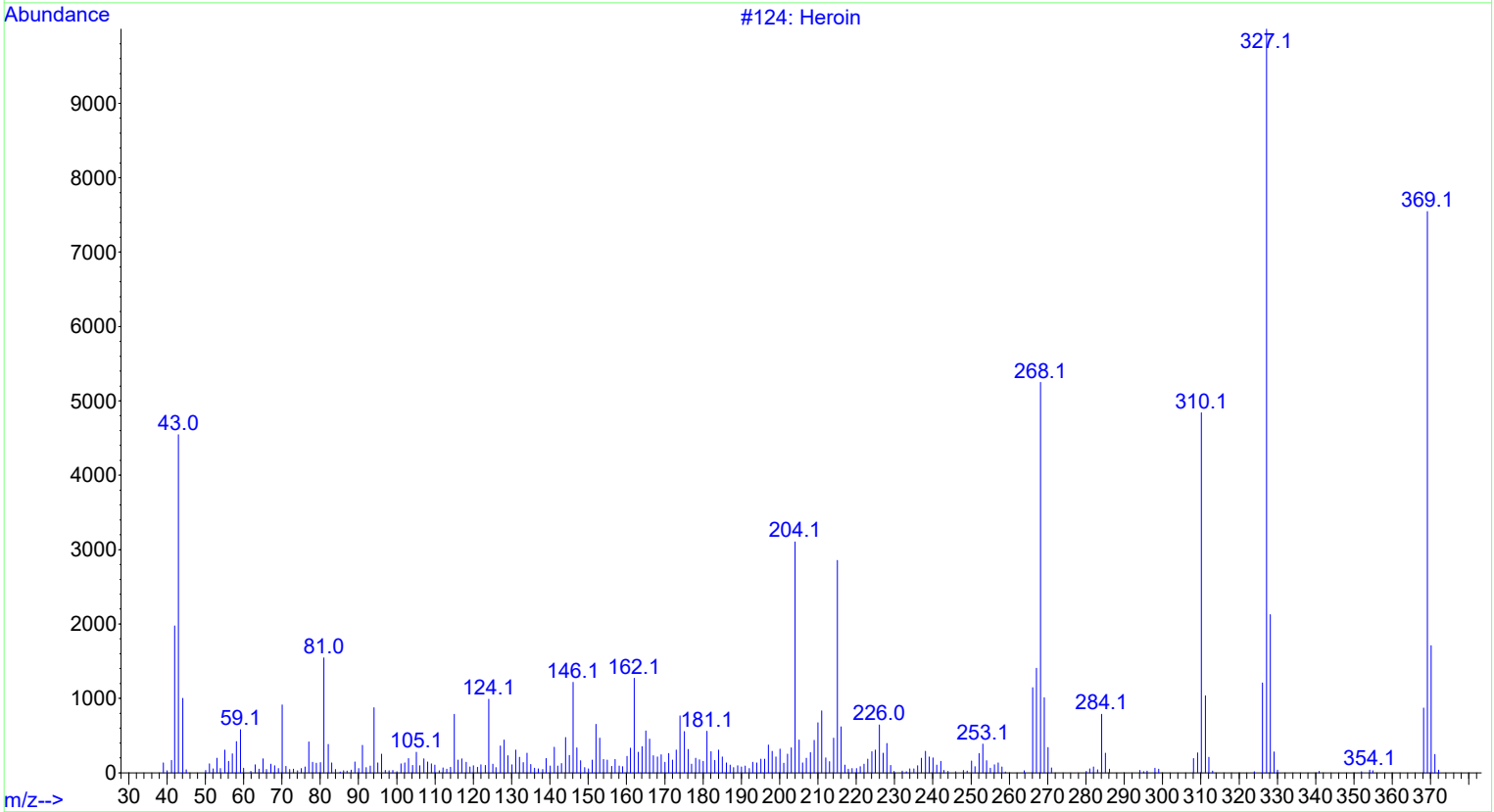
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Misc Info : in ACN 000002669
Vial Number: 2



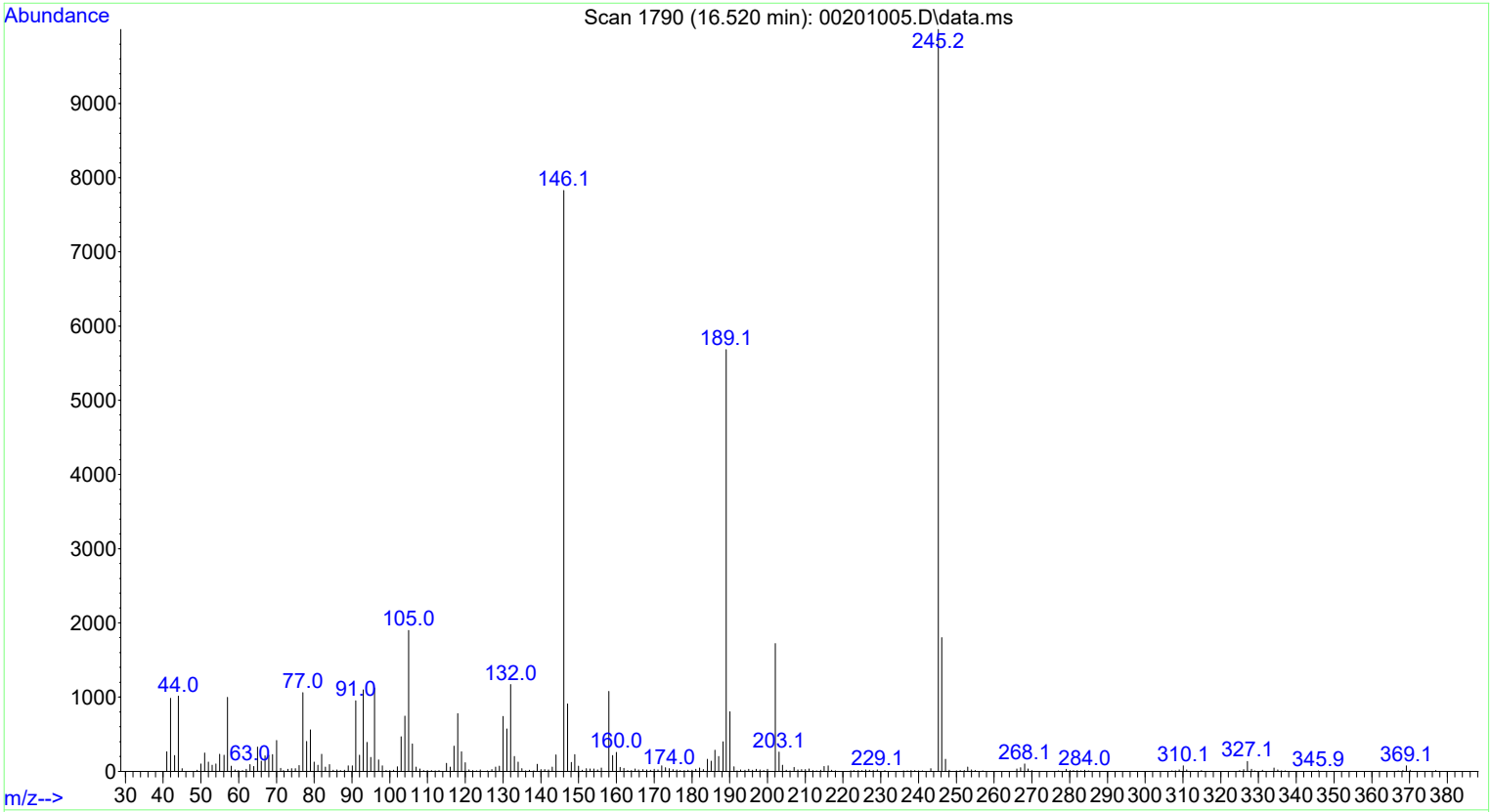


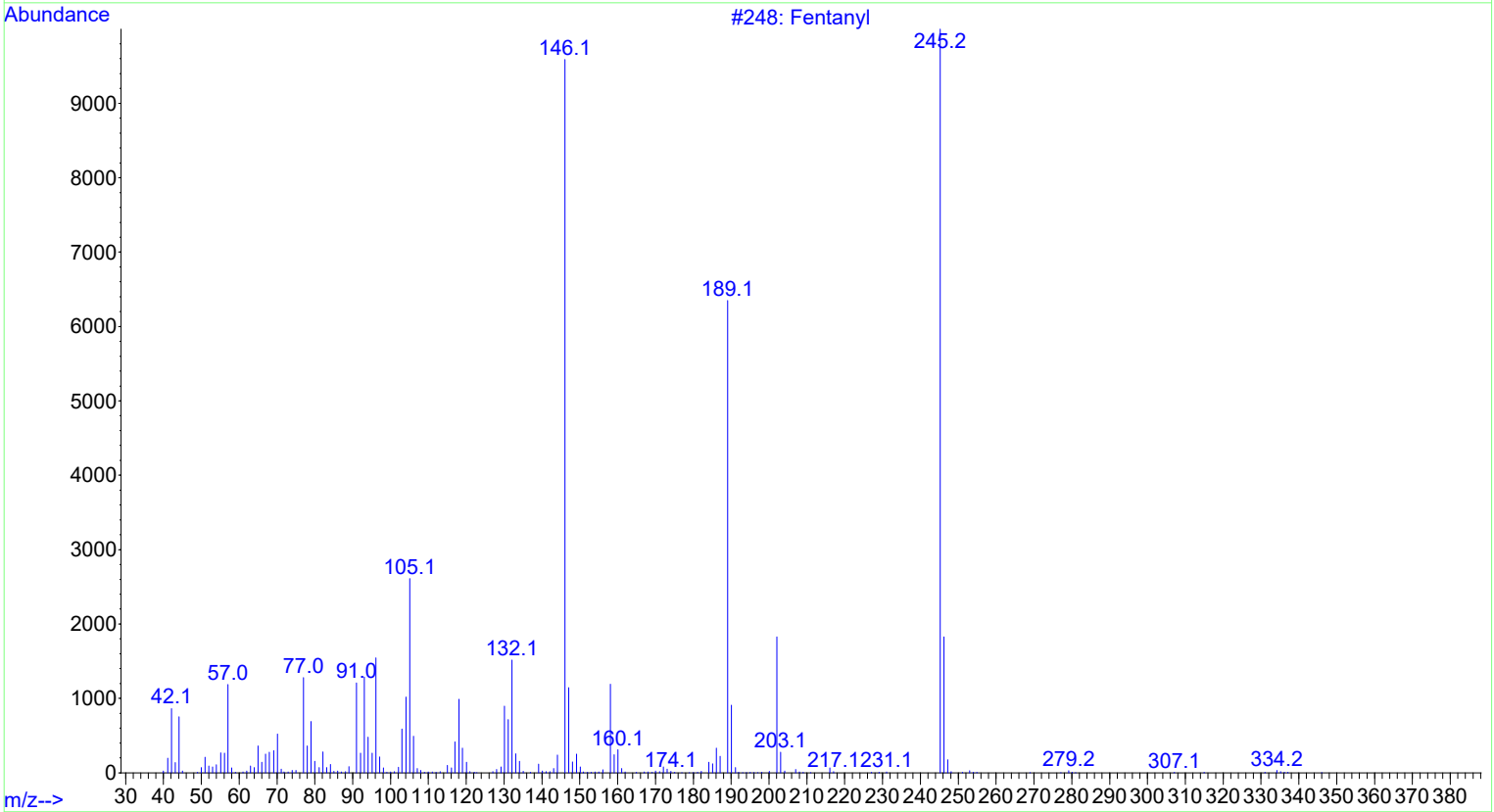
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Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



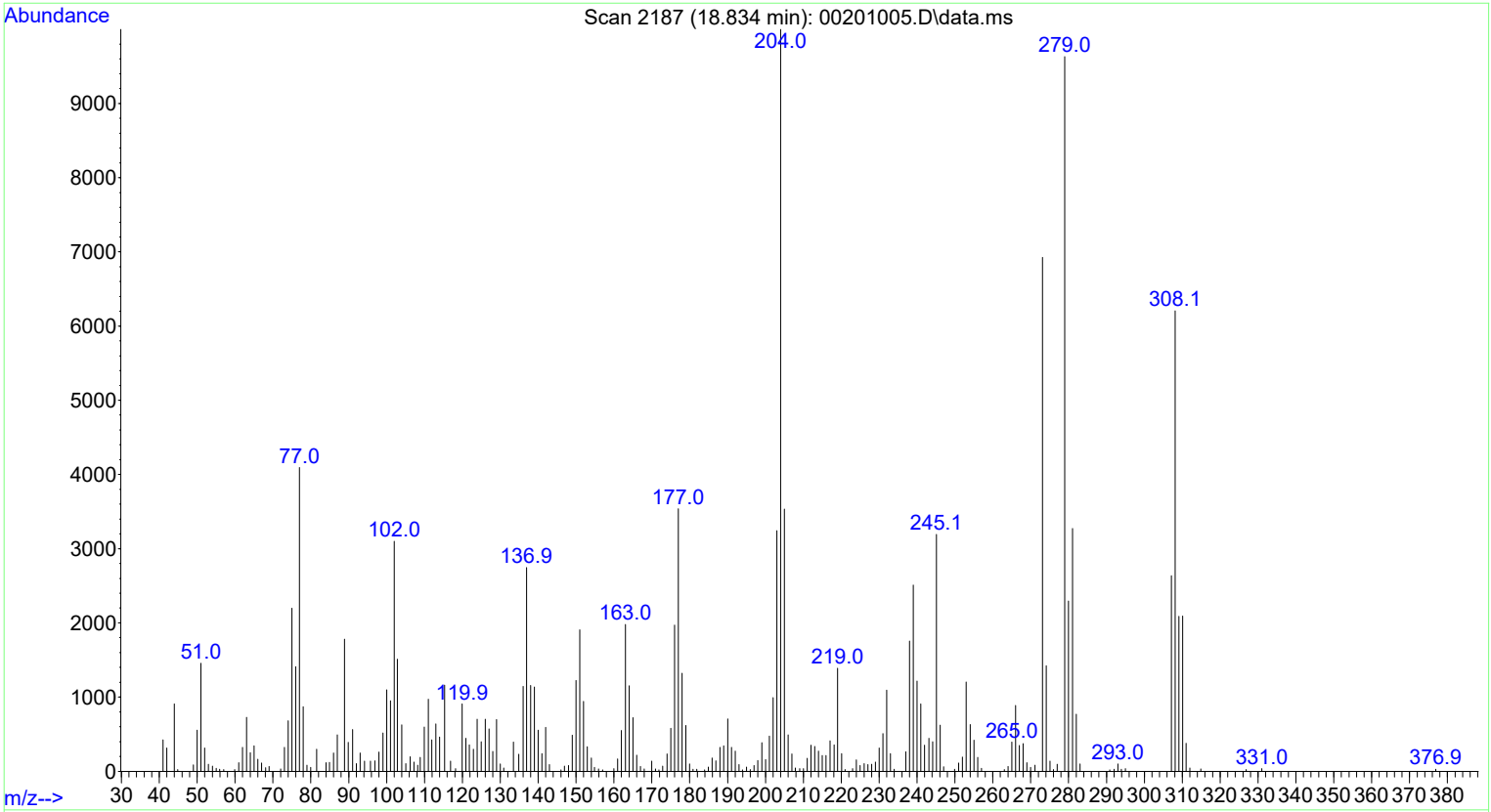


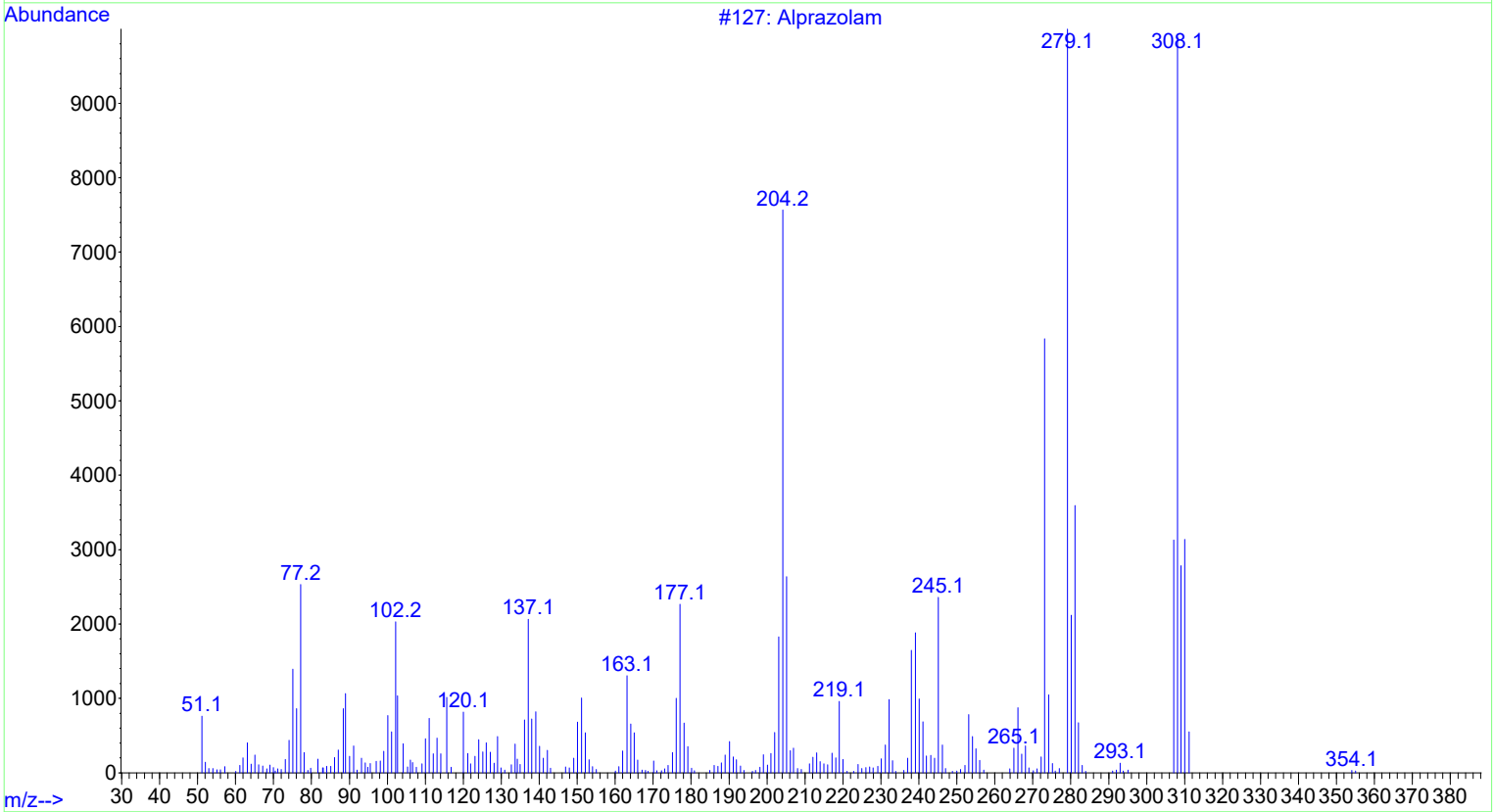
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Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



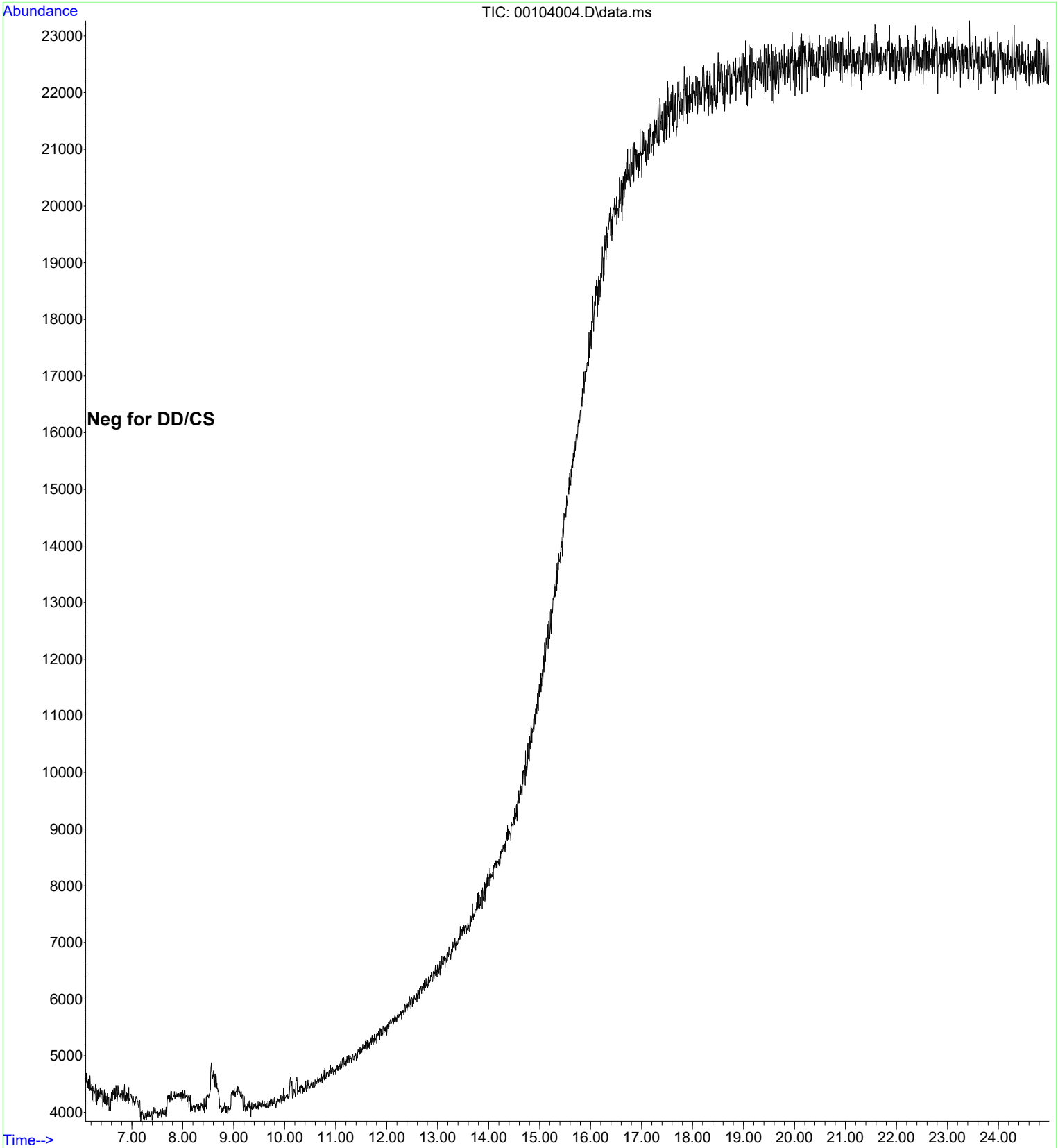


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Instrument : GCMS #4
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Misc Info : in ACN 000002669
Vial Number: 2

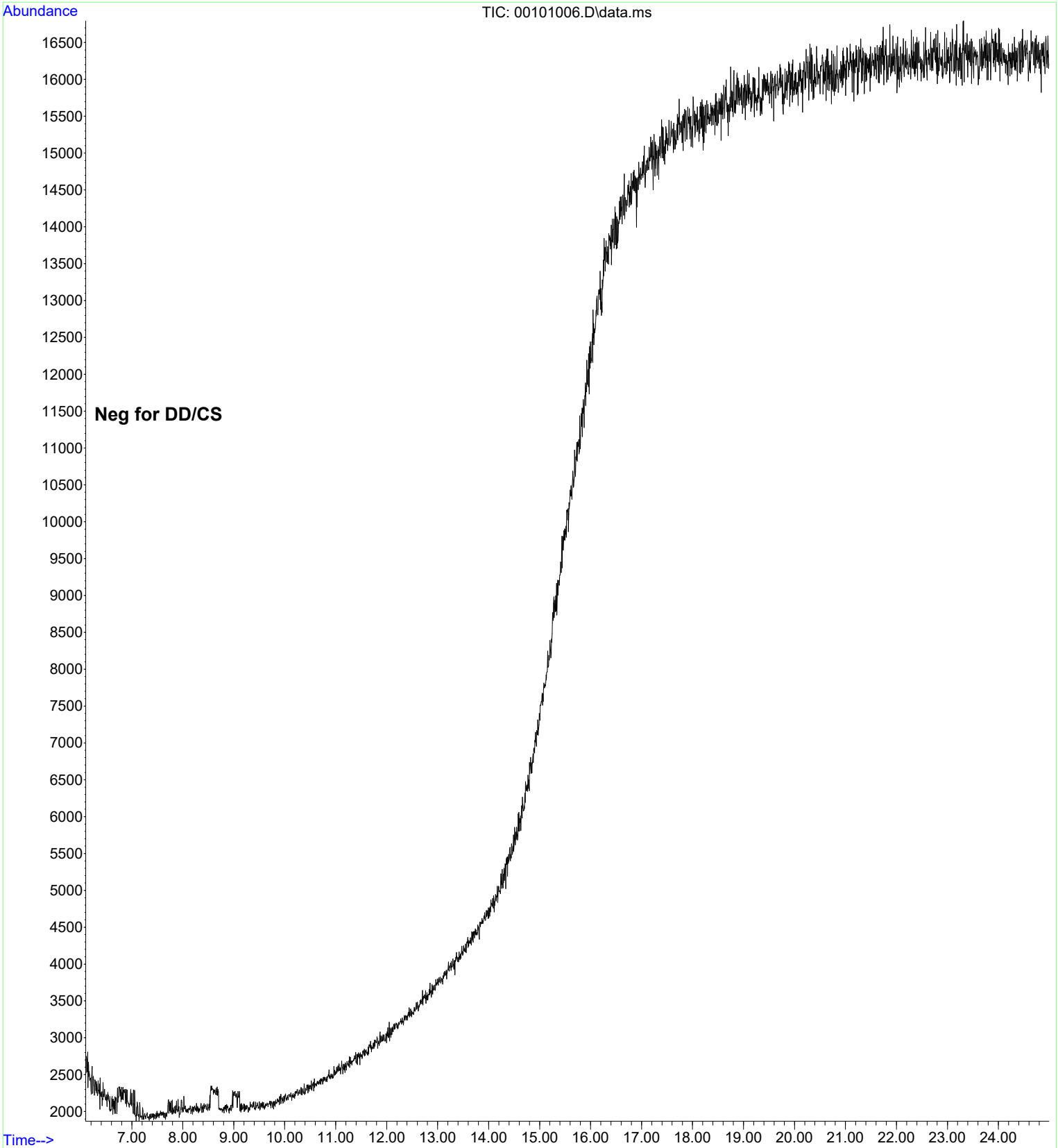




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... 2025 Data\030425\00104004.D
Acquired : 04 Mar 2025 10:10 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: BLANK (C-19-0068) prior to Cayman GC/MS mix 3 (R-24-060) 000002668
Misc Info : ACN 000002668
Vial Number: 1



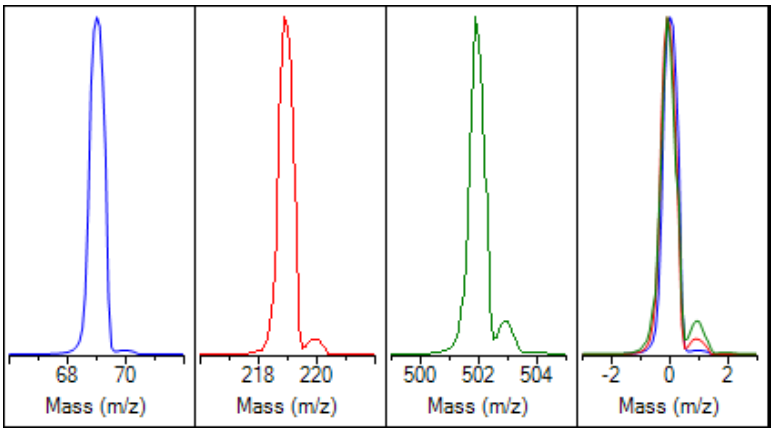
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... 2025 Data\030425\00101006.D
Acquired : 04 Mar 2025 11:07 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Blank (C-19-0068) - Instrument ready 000002668
Misc Info : ACN 000002668
Vial Number: 1



High Efficiency Source Autotune - 5977

Tune timestamp: 3/10/2025 8:36 AM (UTC-05:00) GCMS #4

D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002



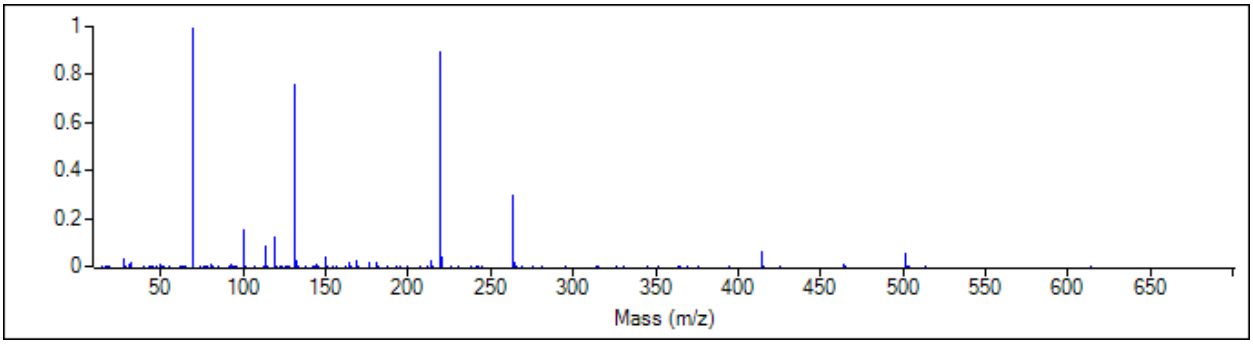
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	83
Electron Energy	70.0	Mass Offset	-27
Filament	1	Amu Gain	2437
Repeller	10.77	Amu Offset	137.13
Ion Focus	149.6	Width219	0.001
Entrance Lens	10.1	DC Polarity	Pos
Ent Lens Offset	13.90	HED Enable	On
Ion Body	5.25	EM Volts	2226.5
Post Extractor 1	11	Extractor Lens	13.00
Post Extractor 2	33	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	482,725	100.0%	0.60
218.90	444,890	92.2%	0.61
501.90	32,382	6.7%	0.59

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	7.36e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	117	69.00	461,568	1,797,207



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	461,568	100.0%	70.00	5,482	1.2%
219.00	219.00	412,544	89.4%	220.00	18,816	4.6%
502.00	502.00	27,384	5.9%	503.00	2,750	10.0%

Air/Water Check: H20 ~0.2% N2 ~3.3% O2 ~1.2% CO2 ~0.2% N2/H20 ~2024.7%

Column(1) Flow: 0.70 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 128 volts using ion 502; Electron Multiplier Gain 11494.218

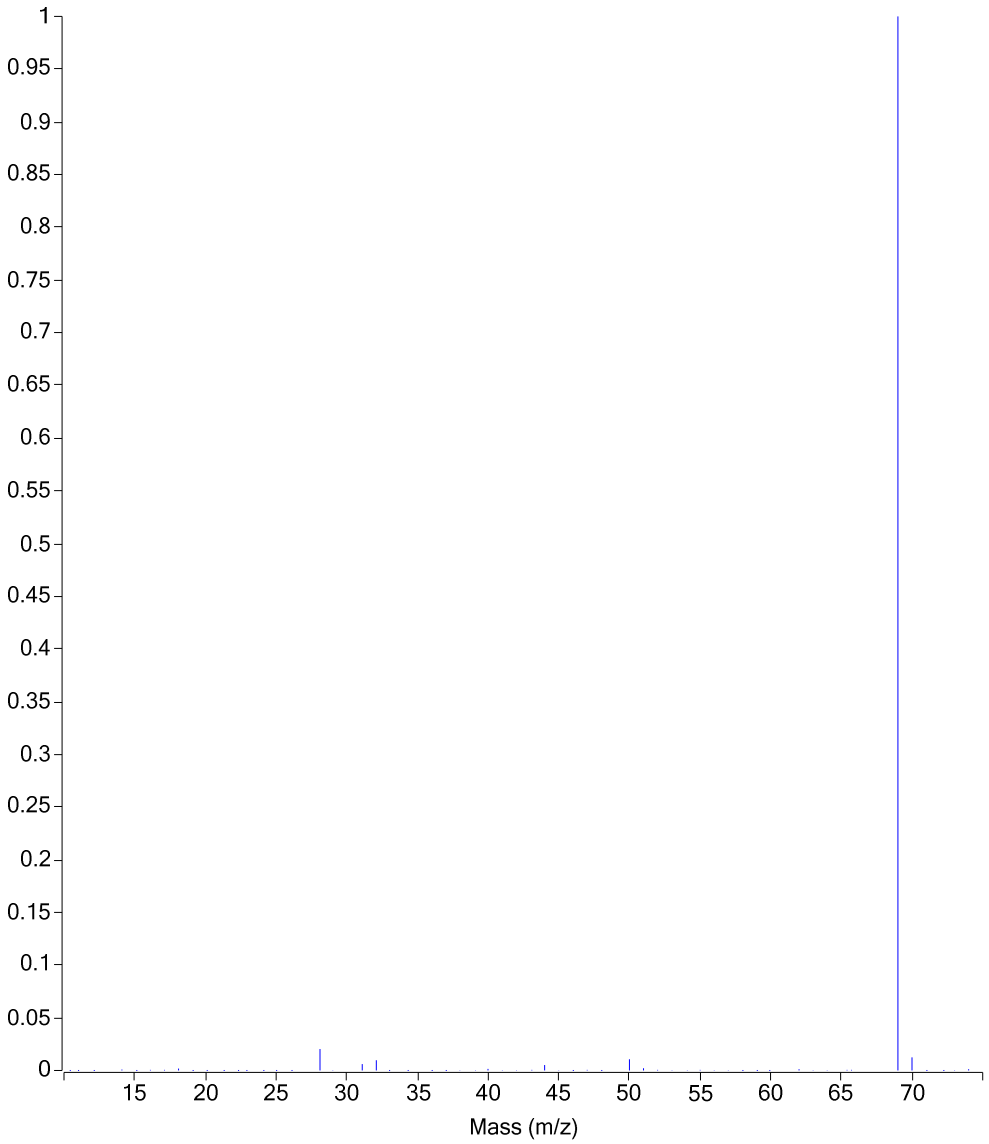
Repeller maximum 35 volts using ion 219; Gain Factor 0.1149

Mass Gain Values(Scan Speed): 92(3) 97(2) 109(1) 117(0) 169(FS1) 168(FS2) 168(FS3)

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	13.9	13.9	13.9	13.9	13.9	13.9	13.9

597x Air and Water Check

Instrument: GCMS #4
Mon Mar 10 08:26:27 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: HES_Atune.u

Relative abundances:

18/69 =	0.18	Water%	(counts=1128)
28/69 =	2.04	Nitrogen%	(counts=13042)
32/69 =	0.96	Oxygen%	(counts=6129)
44/69 =	0.50	Carbon Dioxide%	(counts=3220)
28/18 =	1156.21	Nitrogen/Water%	

Instrument Name : GCMS #4
DC Polarity : Positive
Filament 1
Current Vacuum status :High Vacuum: 5.62E-06 Torr Turbo:100%

BasePeak should be 69 or 219		OK
Position of mass 69	69.00	OK
Position of mass 219	219.00	OK
Position of mass 502	502.00	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	220.00	OK
Position of isotope mass 503	503.00	OK
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.18	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.56	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.20	OK
Ratio of 219 to 69 should be > 40% and is	89.73	OK
Ratio of 502 to 69 should be > 2.4% and is	6.17	OK
Mass 69 Precursor (<= 3%)	0.68	OK
Mass 219 Precursor (<= 6%)	1.39	OK
Mass 502 Precursor (<= 12%)	2.90	OK

597x Air and Water Check
Mon Mar 10 08:45:56 2025 Instrument: GCMS #4
D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002

Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	0.16	OK
Ratio of 28 to 69 (<10%)	3.37	OK
Electron Multiplier Voltage	2227	OK

Tune portion of System Verification passed.

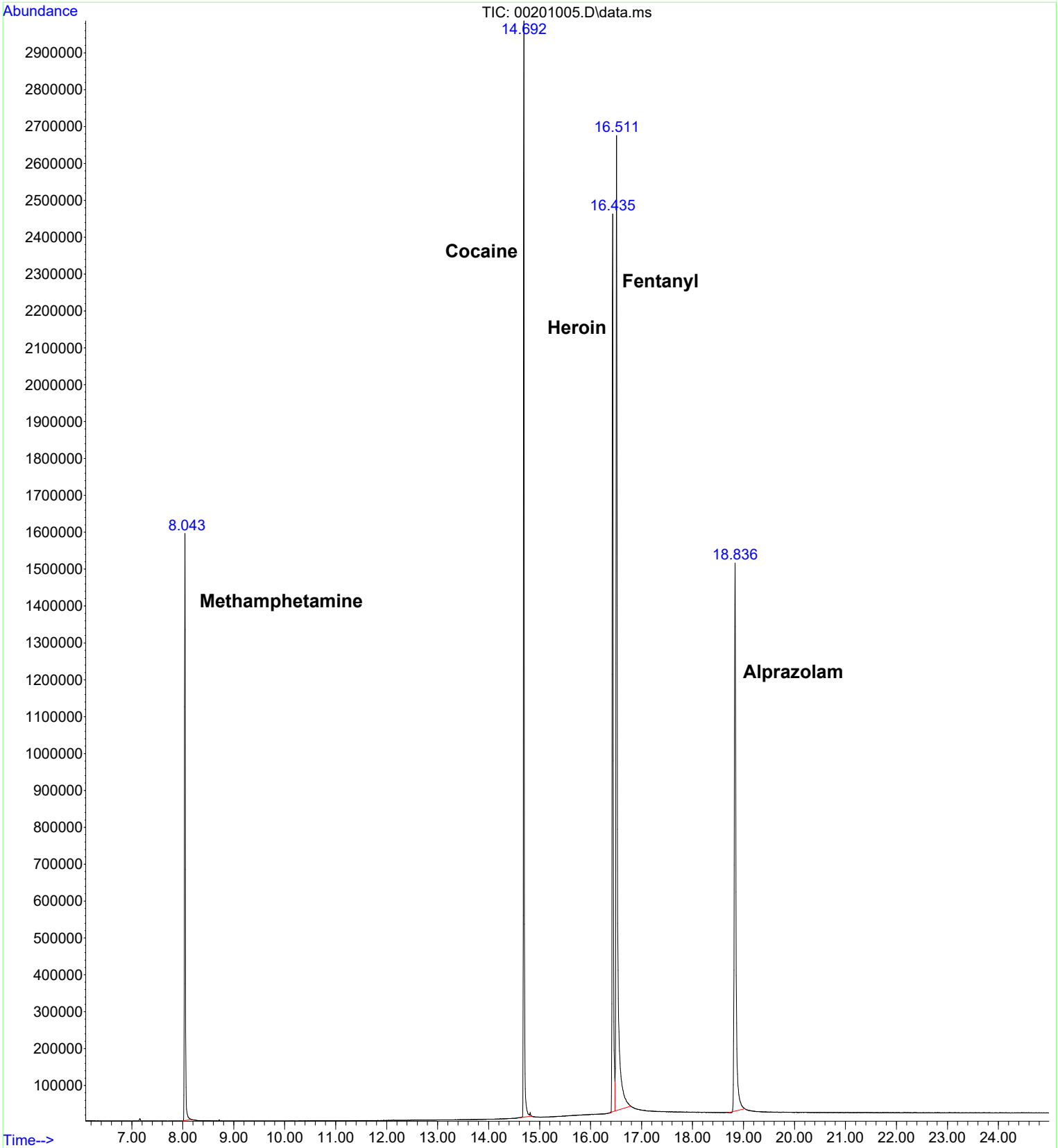
BCCL GC/MS #4
Retention Times for the Week of:

03/10/2025 - 03/16/2025

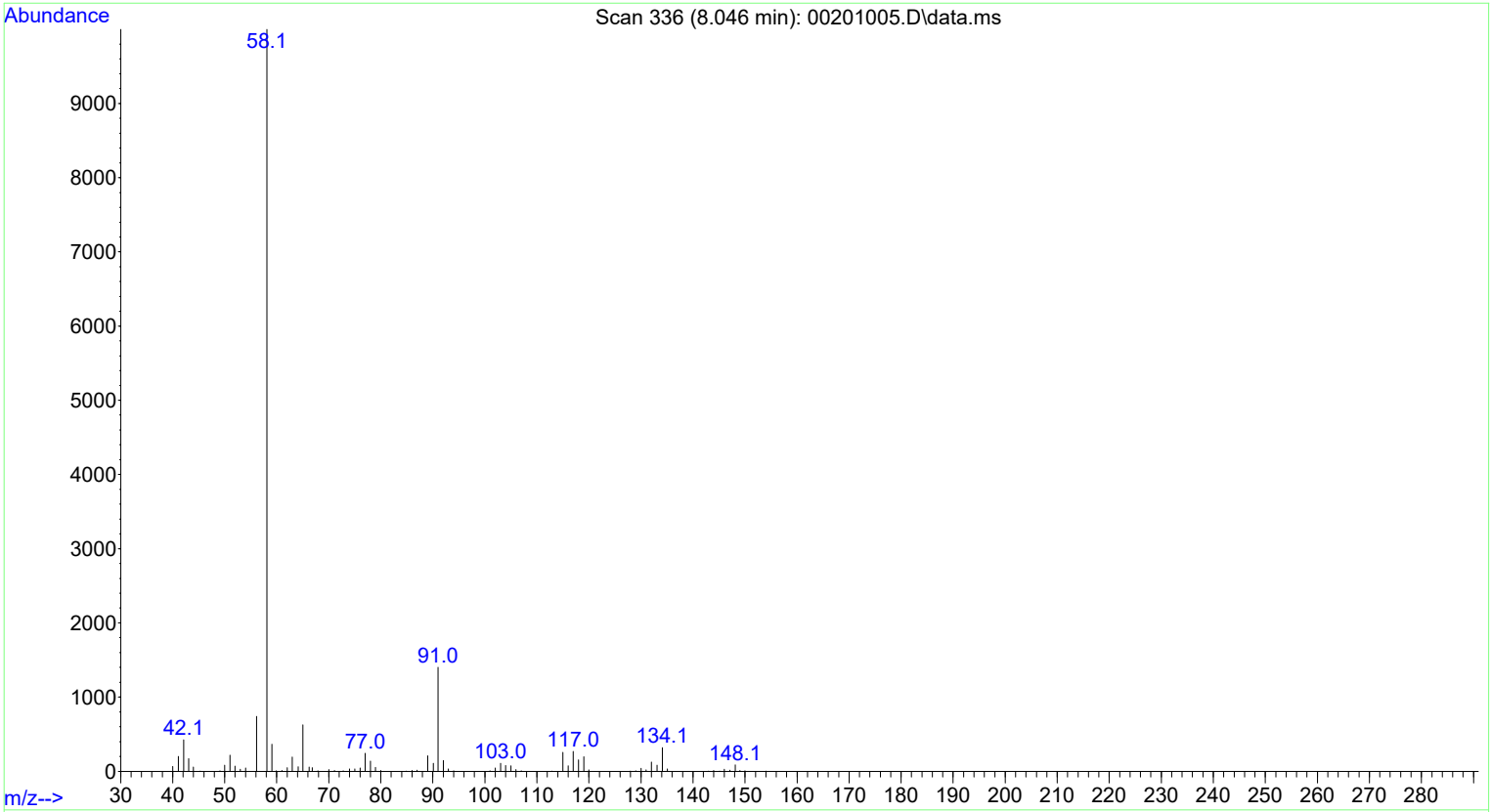
[X] **Tune:** DS **03/10/2025 - HES Autotune**

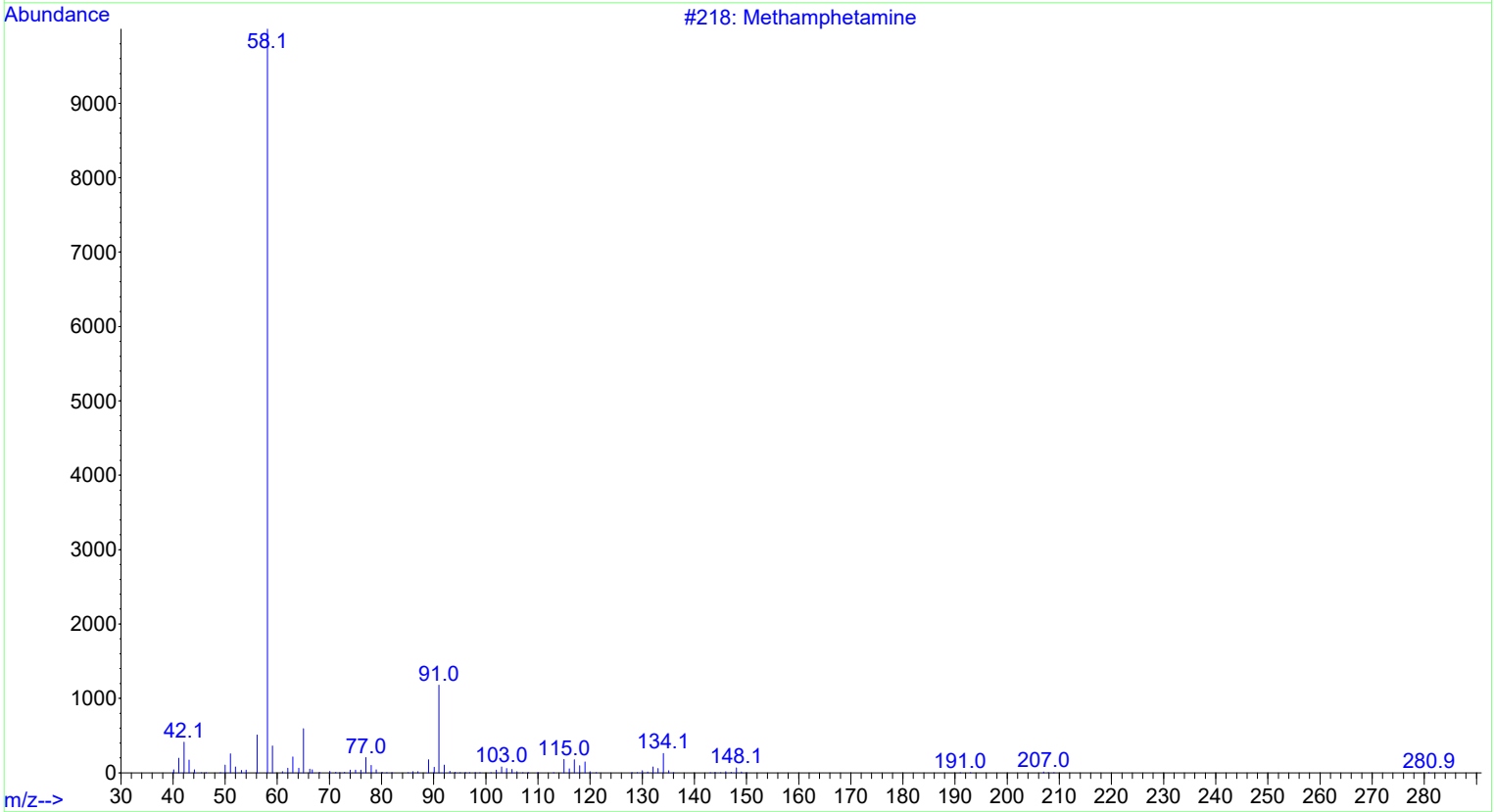
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35MS	8.043	7.962	8.123
Cocaine	R-24-060	DrugTest35MS	14.692	14.545	14.838
Heroin	R-24-060	DrugTest35MS	16.435	16.270	16.599
Fentanyl	R-24-060	DrugTest35MS	16.511	16.345	16.676
Alprazolam	R-24-060	DrugTest35MS	18.836	18.647	19.024

File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\031025\00201005.D
Acquired : 10 Mar 2025 10:05 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2

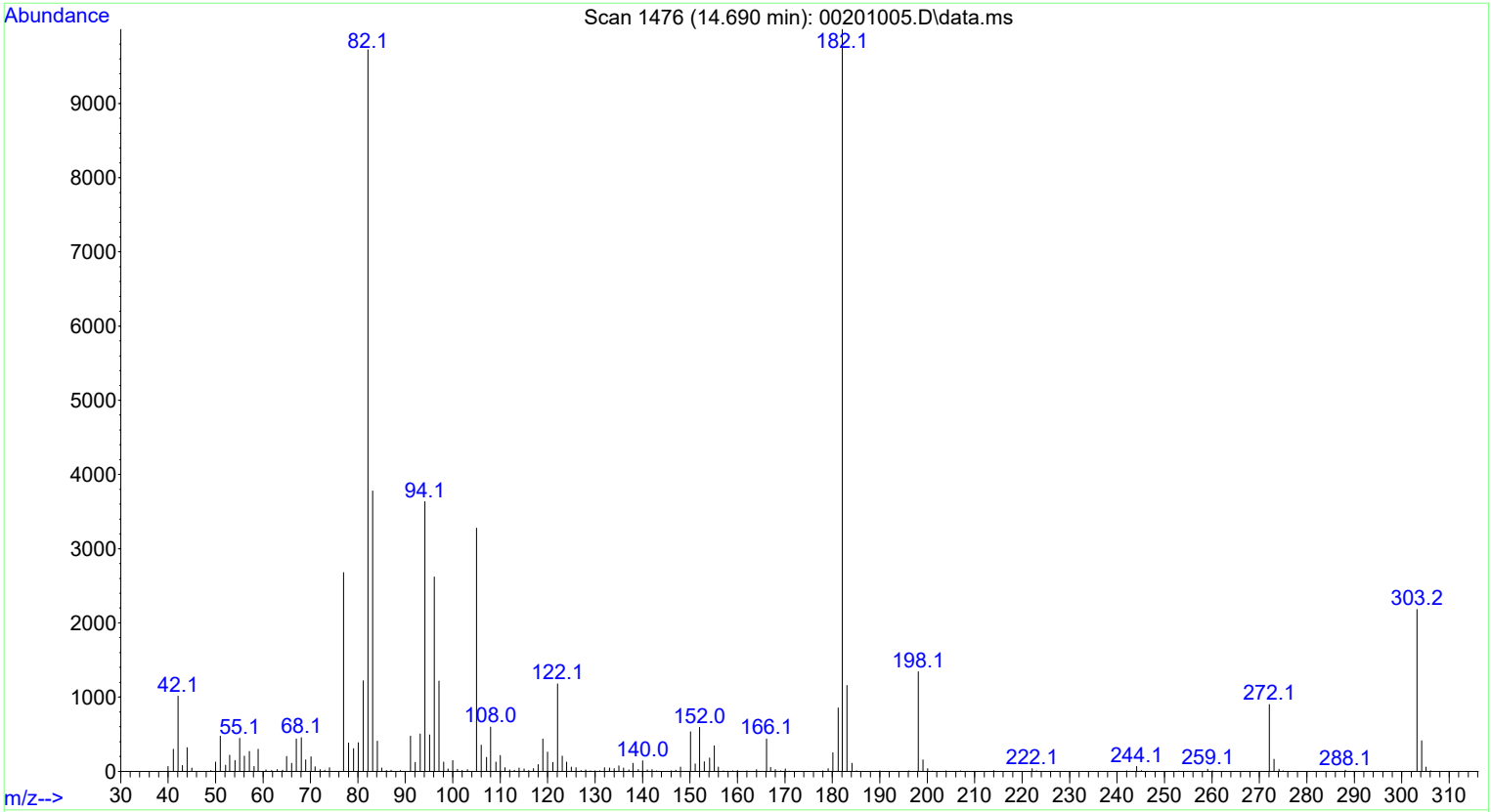


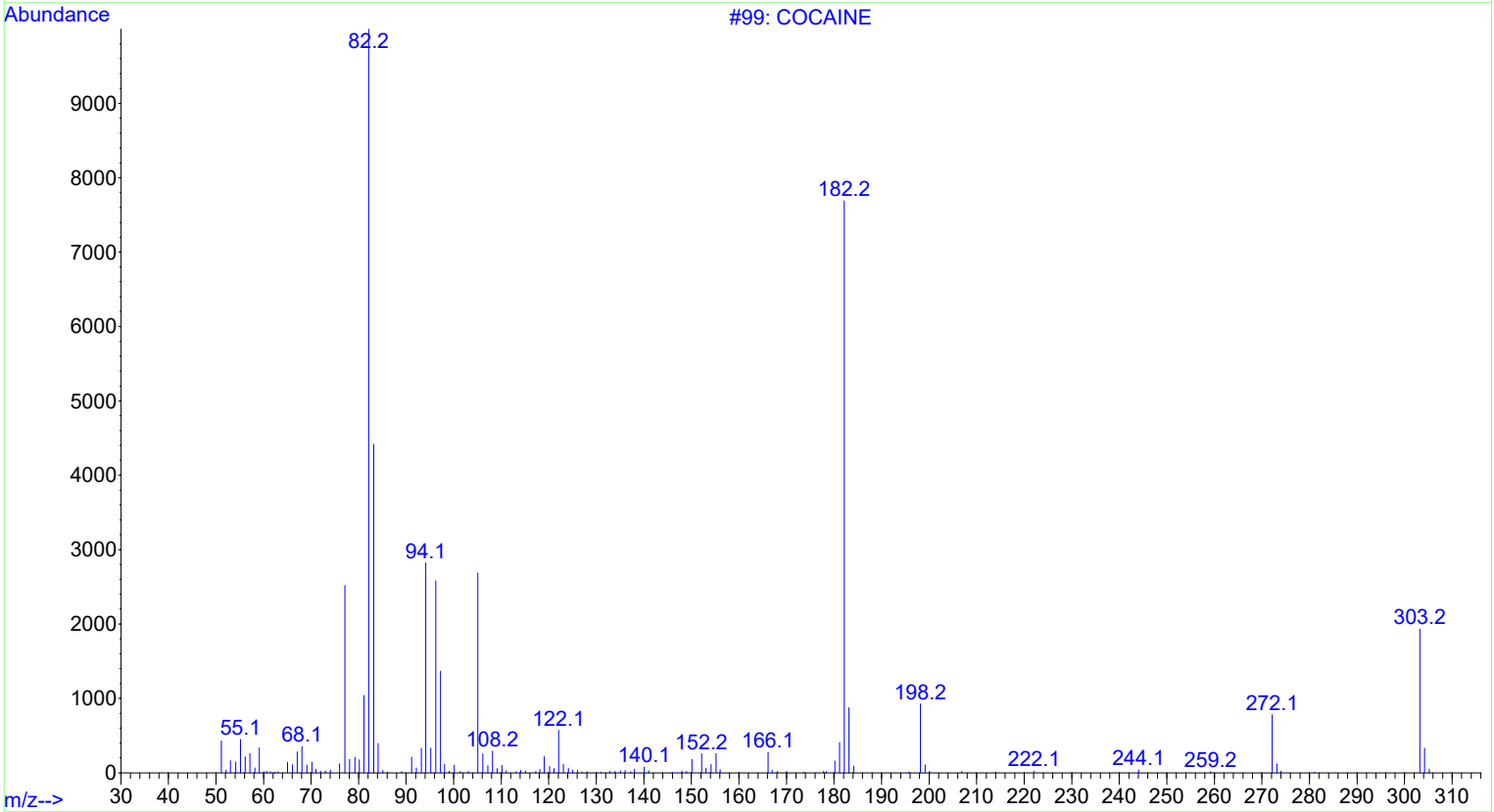
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File       :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
...         2025 Data\031025\00201005.D
Acquired   : 10 Mar 2025  10:05     using AcqMethod DrugTest35MS.M
Instrument :   GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060)                  000002669
Misc Info  : in ACN                                         000002669
Vial Number: 2
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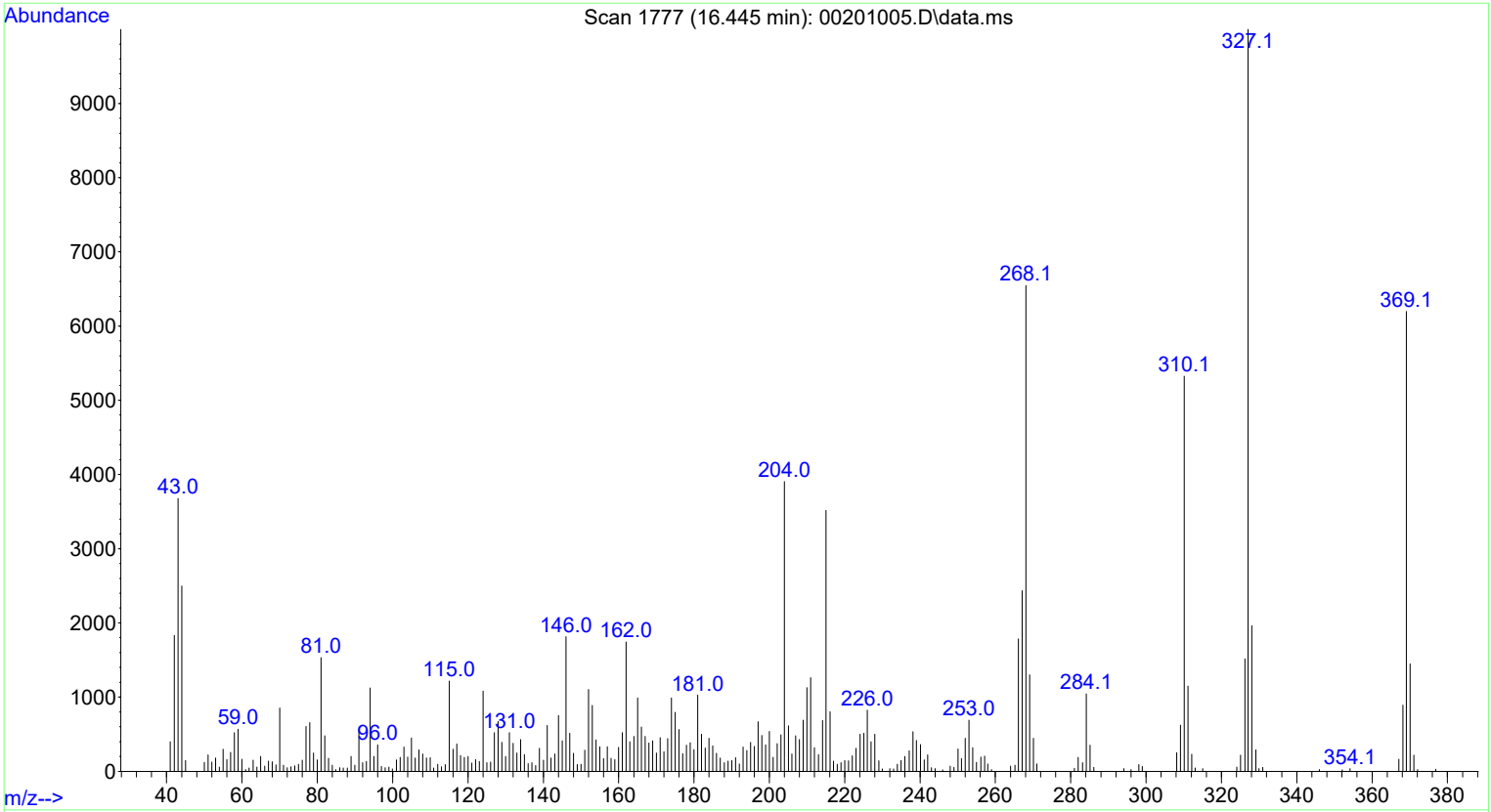


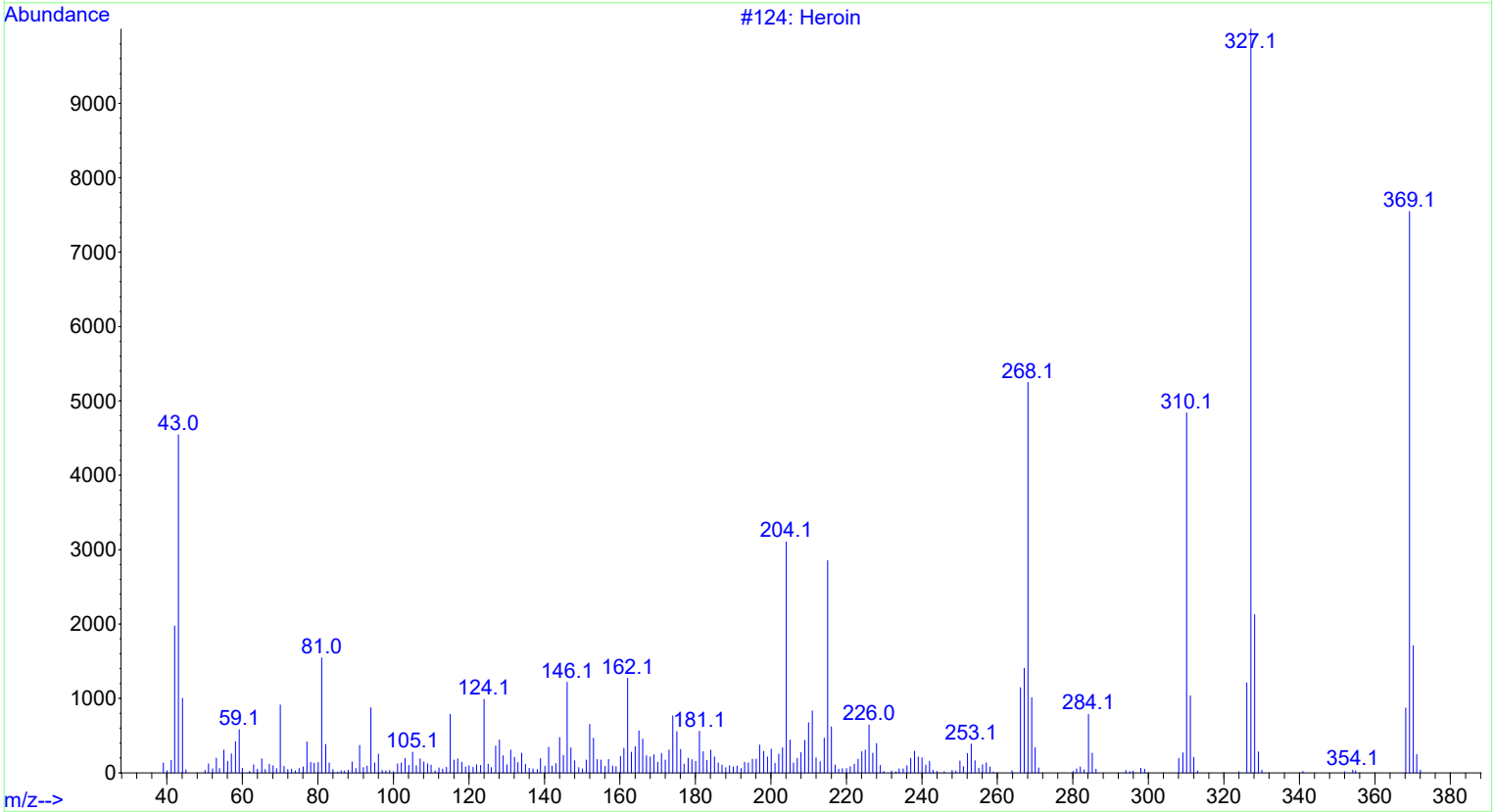
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... 2025 Data\031025\00201005.D
Acquired : 10 Mar 2025 10:05 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



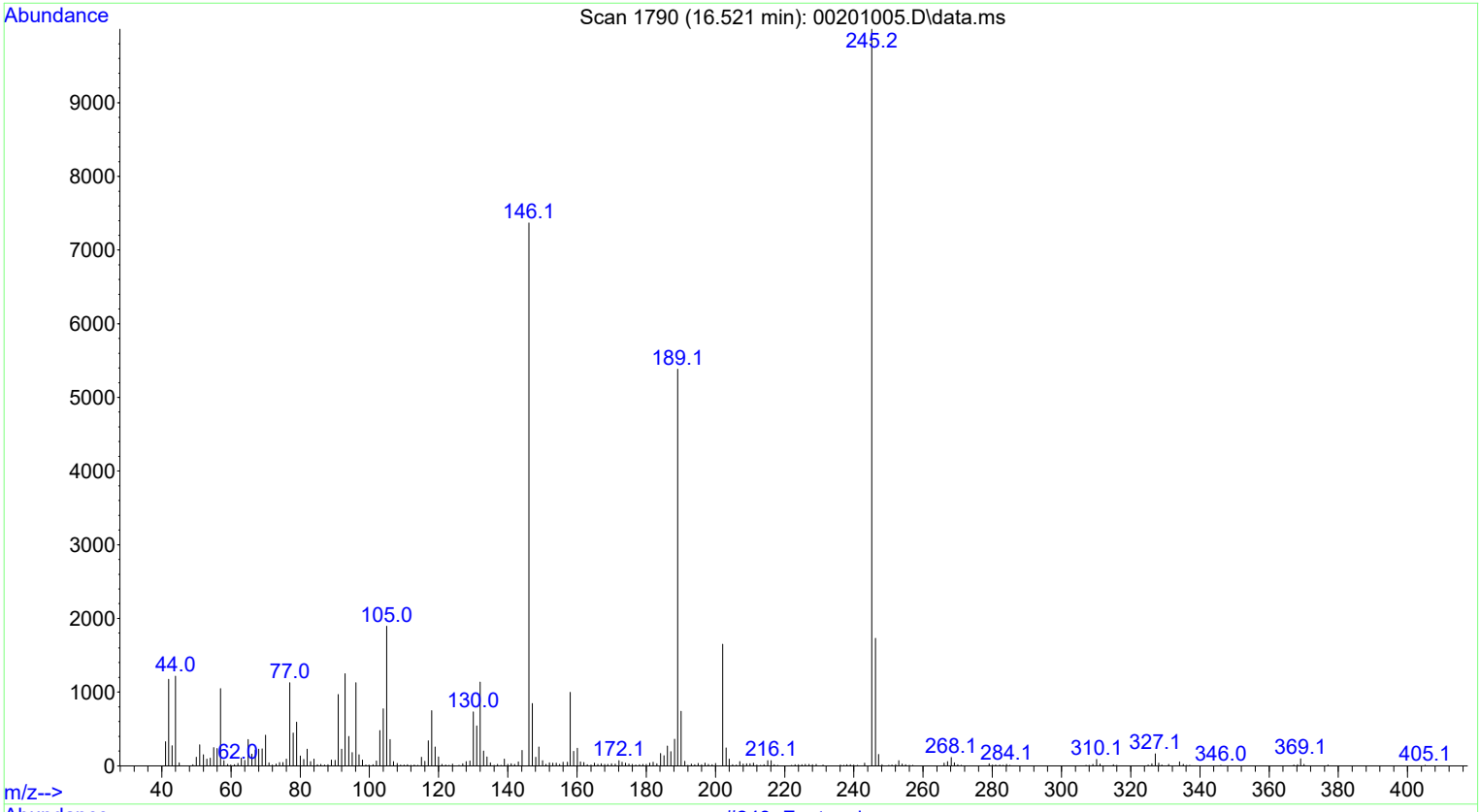


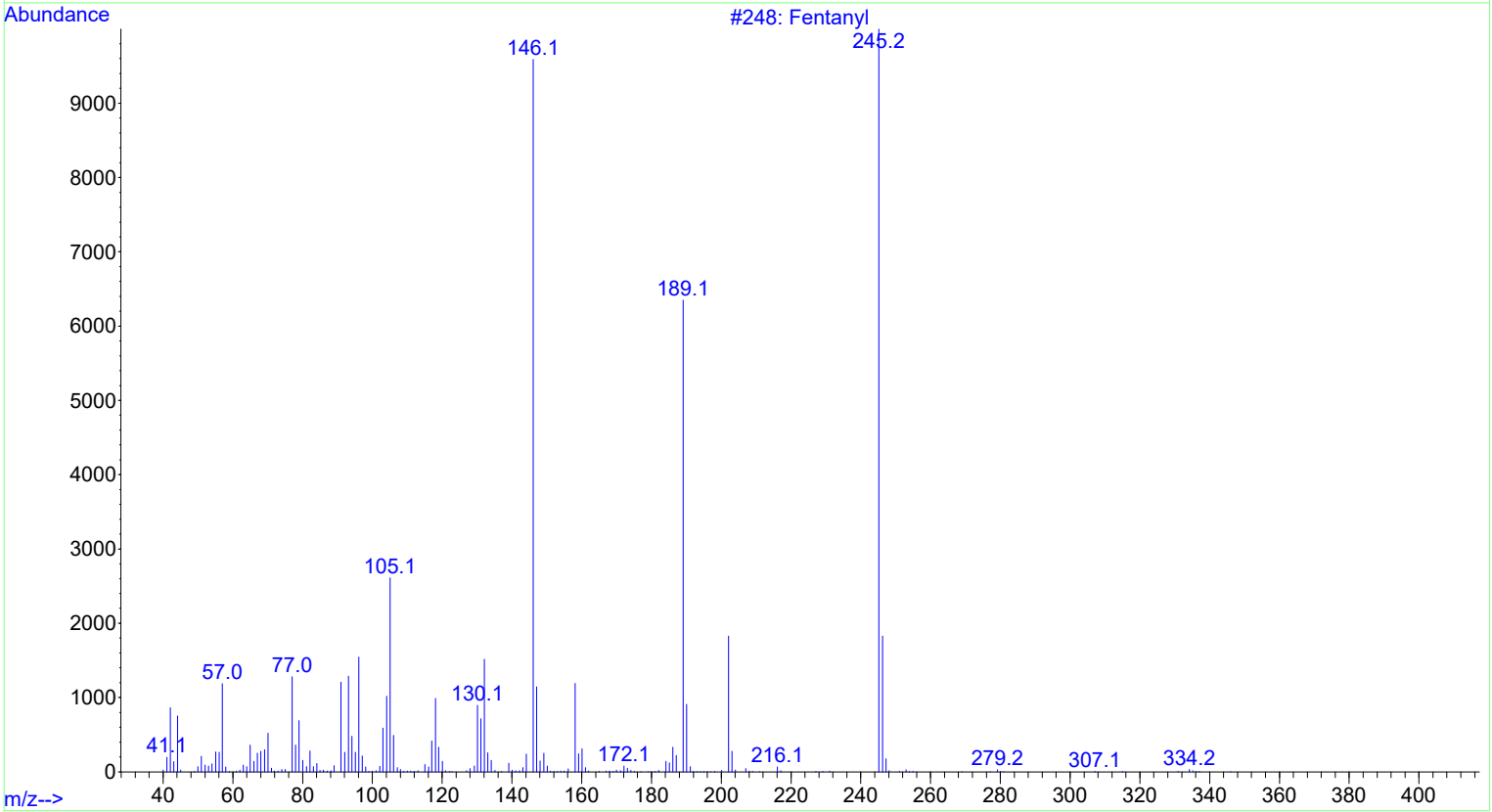
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Acquired : 10 Mar 2025 10:05 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



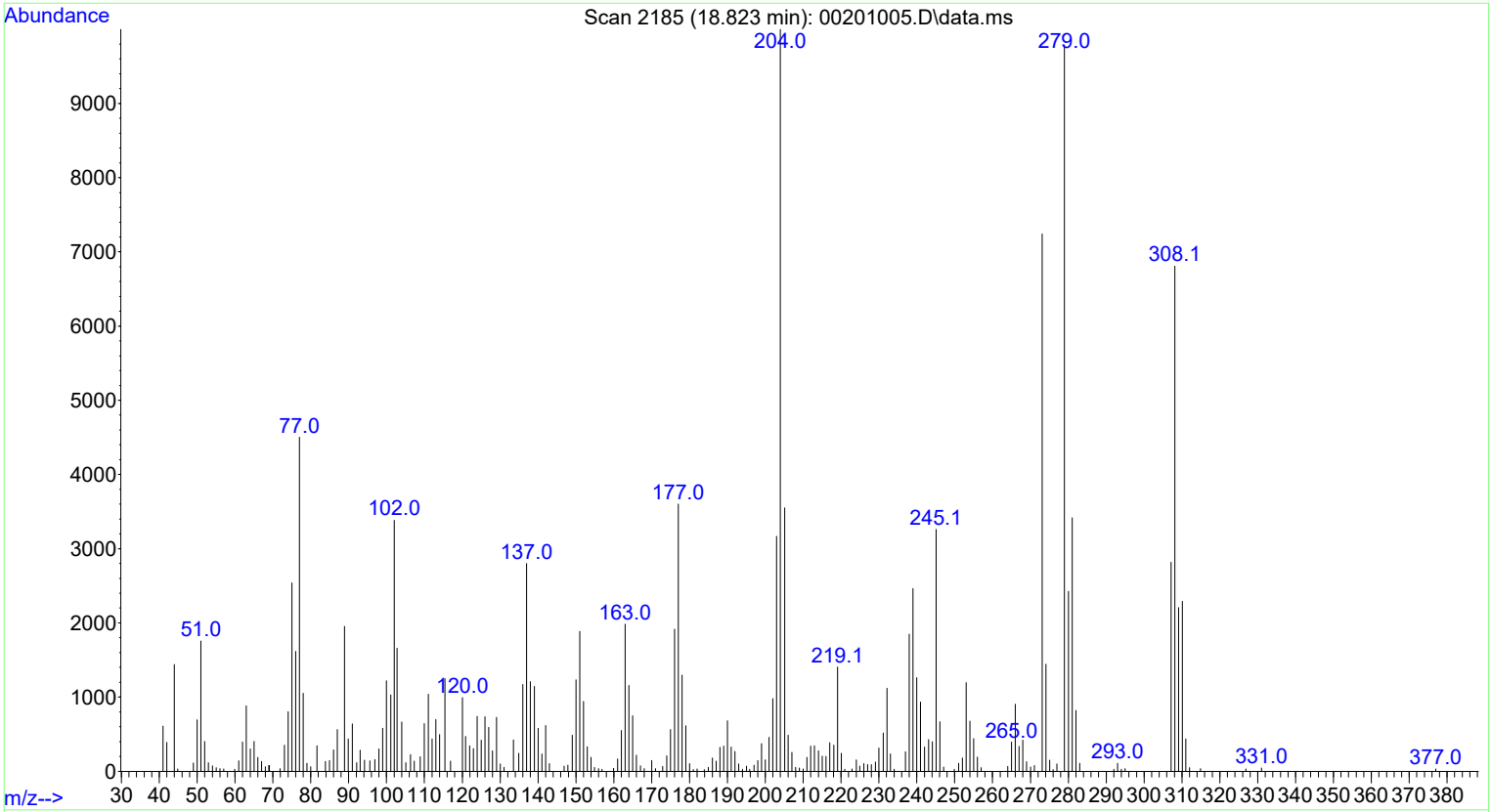


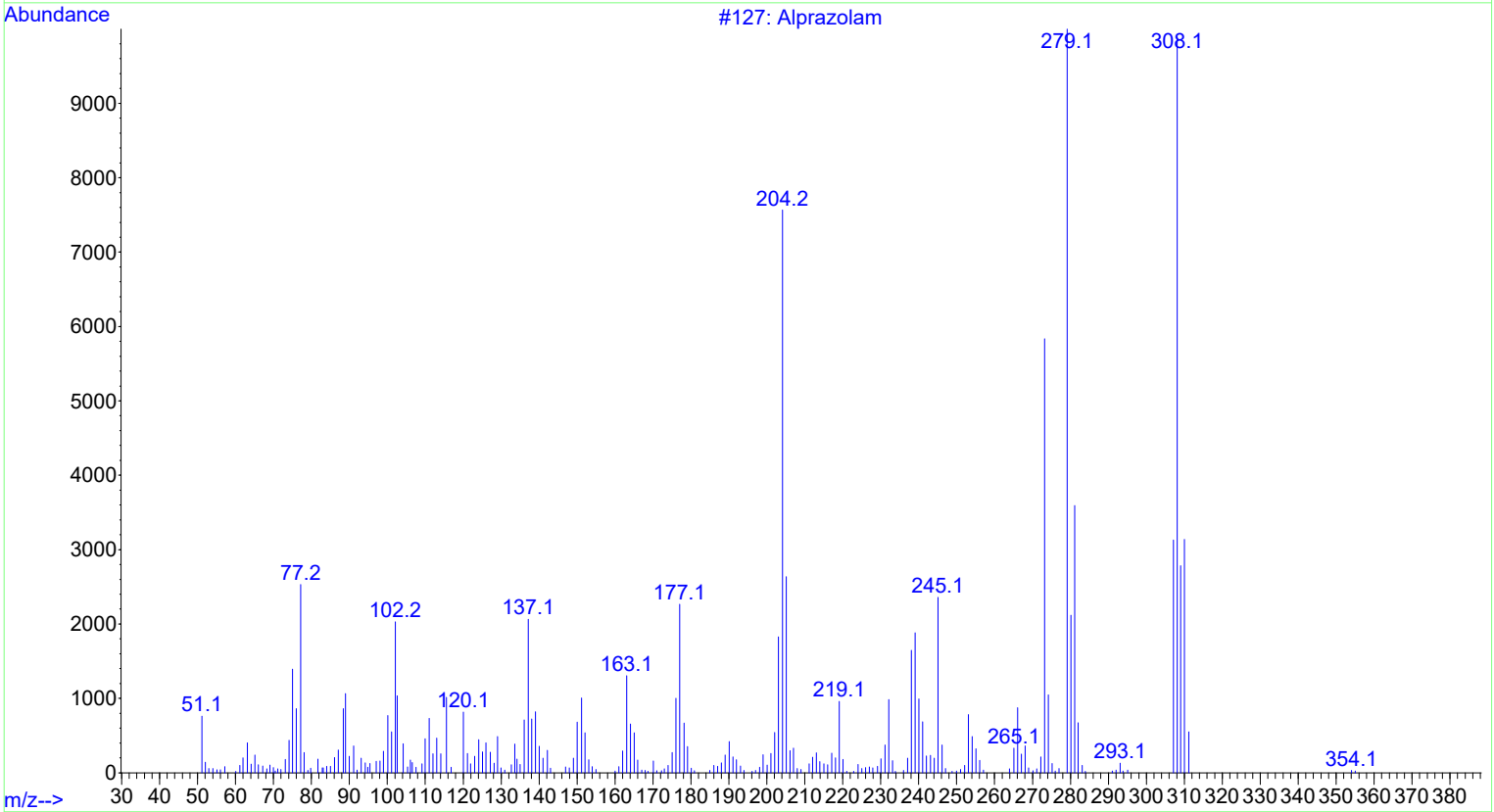
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Acquired : 10 Mar 2025 10:05 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



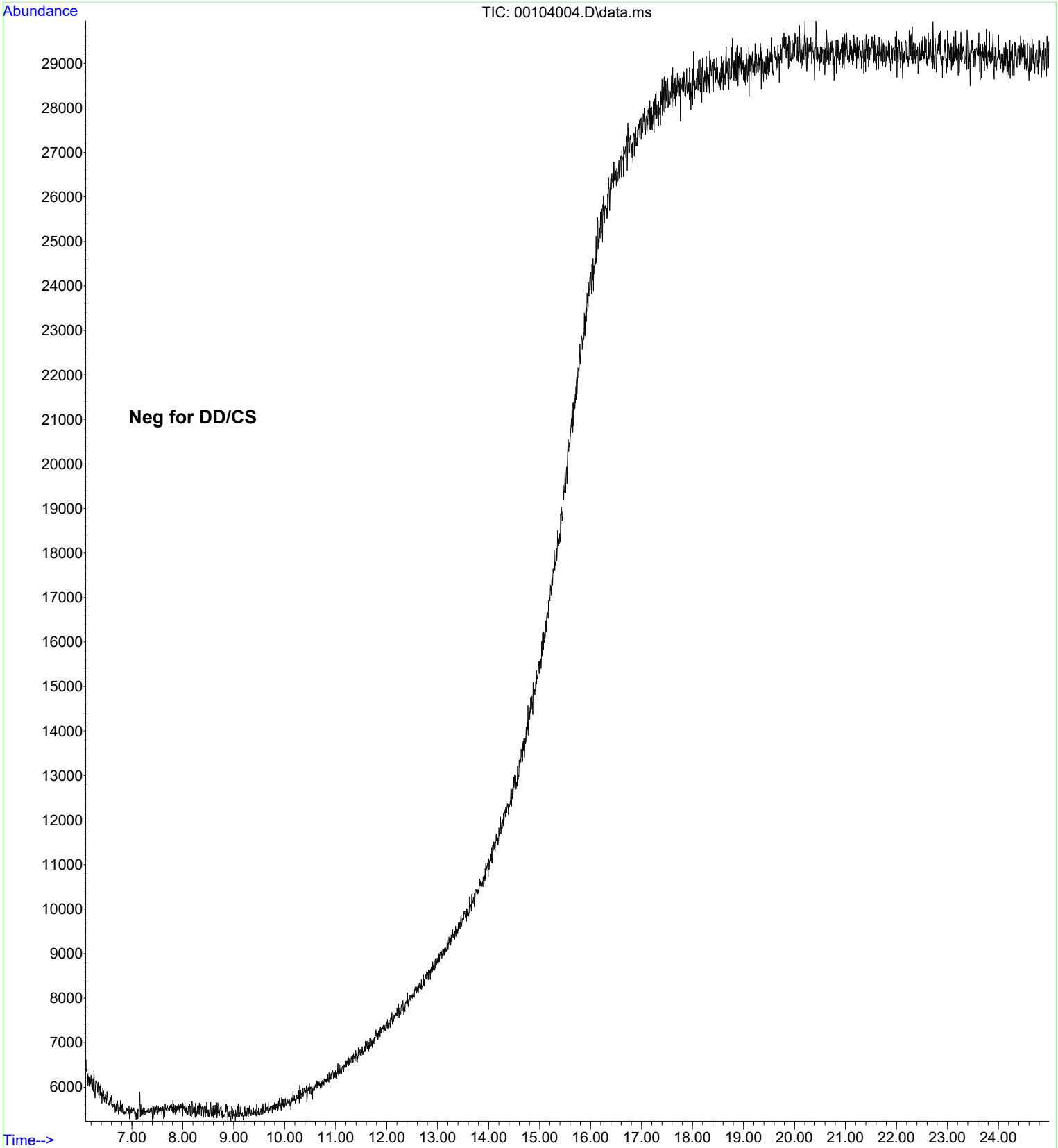


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... 2025 Data\031025\00201005.D
Acquired : 10 Mar 2025 10:05 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2

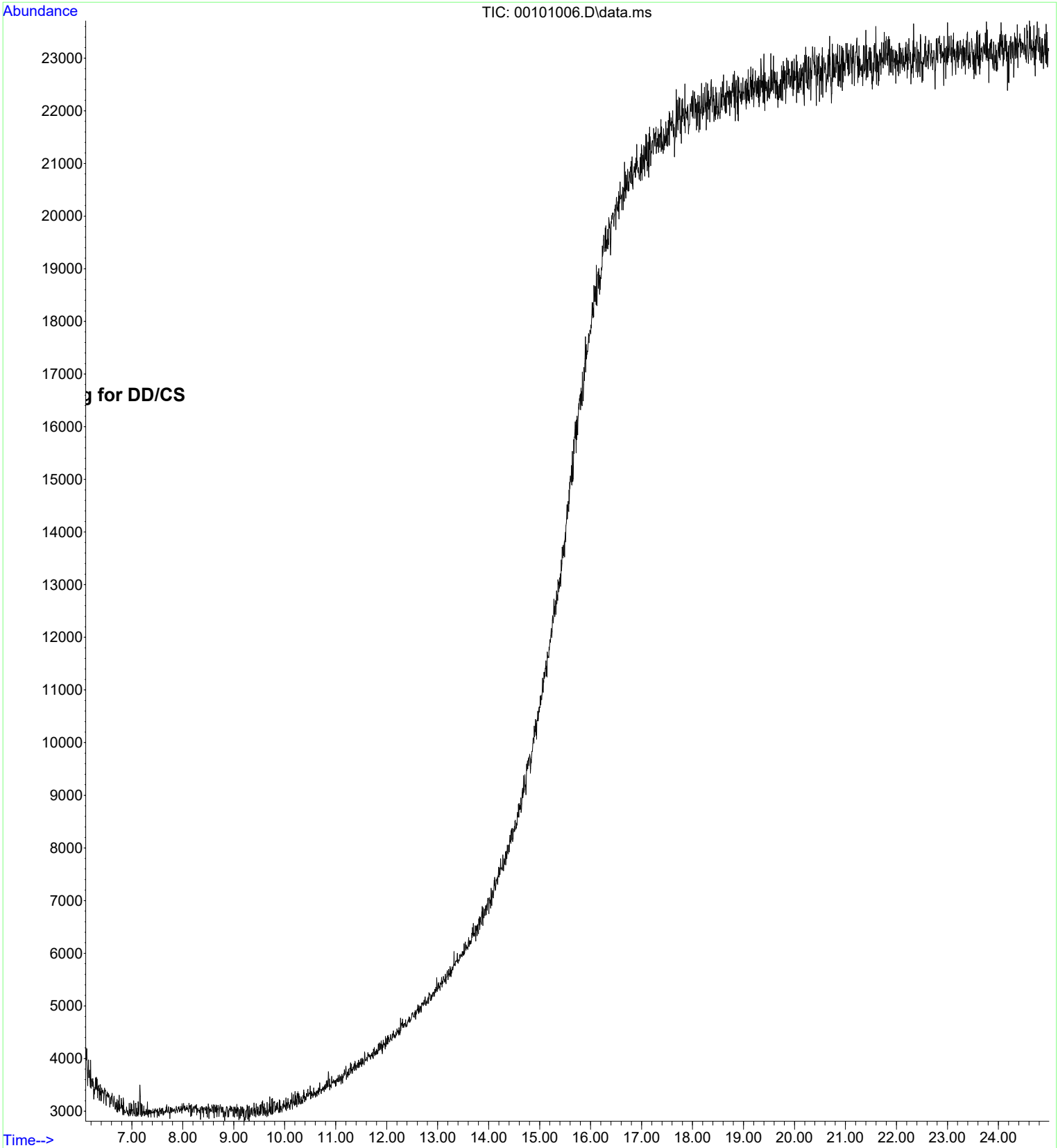




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... 2025 Data\031025\00104004.D
Acquired : 10 Mar 2025 09:36 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: BLANK (C-19-0068) prior to Cayman GC/MS mix 3 (R-24-060) 000002668
Misc Info : ACN 000002668
Vial Number: 1



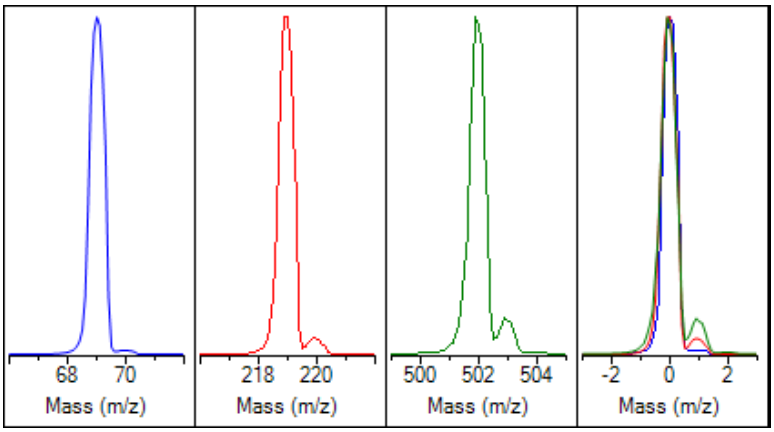
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... 2025 Data\031025\00101006.D
Acquired : 10 Mar 2025 10:34 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Blank (C-19-0068) - Instrument ready 000002668
Misc Info : ACN 000002668
Vial Number: 1



High Efficiency Source Autotune - 5977

Tune timestamp: 3/17/2025 8:31 AM (UTC-05:00) GCMS #4

D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002



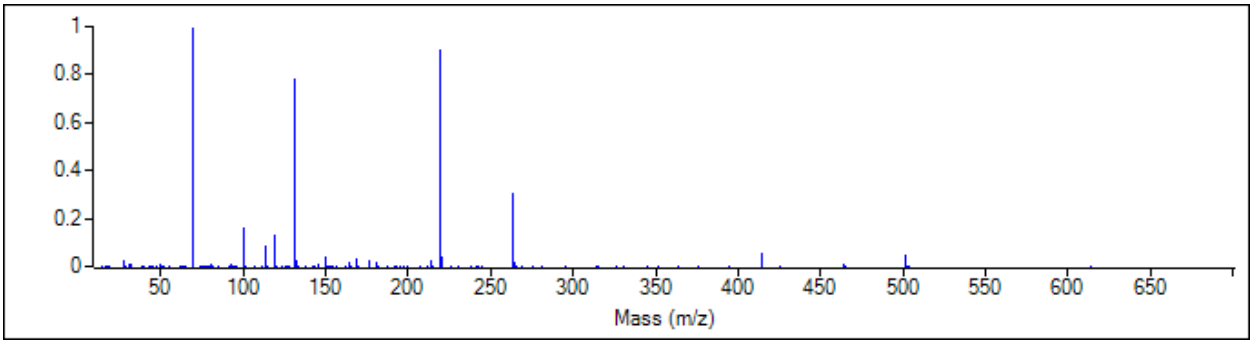
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	82
Electron Energy	70.0	Mass Offset	-27
Filament	1	Amu Gain	2438
Repeller	11.14	Amu Offset	136.94
Ion Focus	149.6	Width219	0.001
Entrance Lens	10.1	DC Polarity	Pos
Ent Lens Offset	13.90	HED Enable	On
Ion Body	5.00	EM Volts	2197.8
Post Extractor 1	12	Extractor Lens	13.80
Post Extractor 2	32	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	466,841	100.0%	0.61
219.00	432,328	92.6%	0.63
501.90	23,449	5.0%	0.61

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	7.49e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	119	69.00	446,720	1,760,311



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	446,720	100.0%	70.00	5,322	1.2%
219.00	219.00	405,248	90.7%	220.00	18,760	4.6%
502.00	502.00	23,160	5.2%	503.00	2,178	9.4%

Air/Water Check: H20 ~0.1% N2 ~2.7% O2 ~0.9% CO2 ~0.2% N2/H20 ~2330.5%

Column(1) Flow: 0.70 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 128 volts using ion 502; Electron Multiplier Gain 11246.508

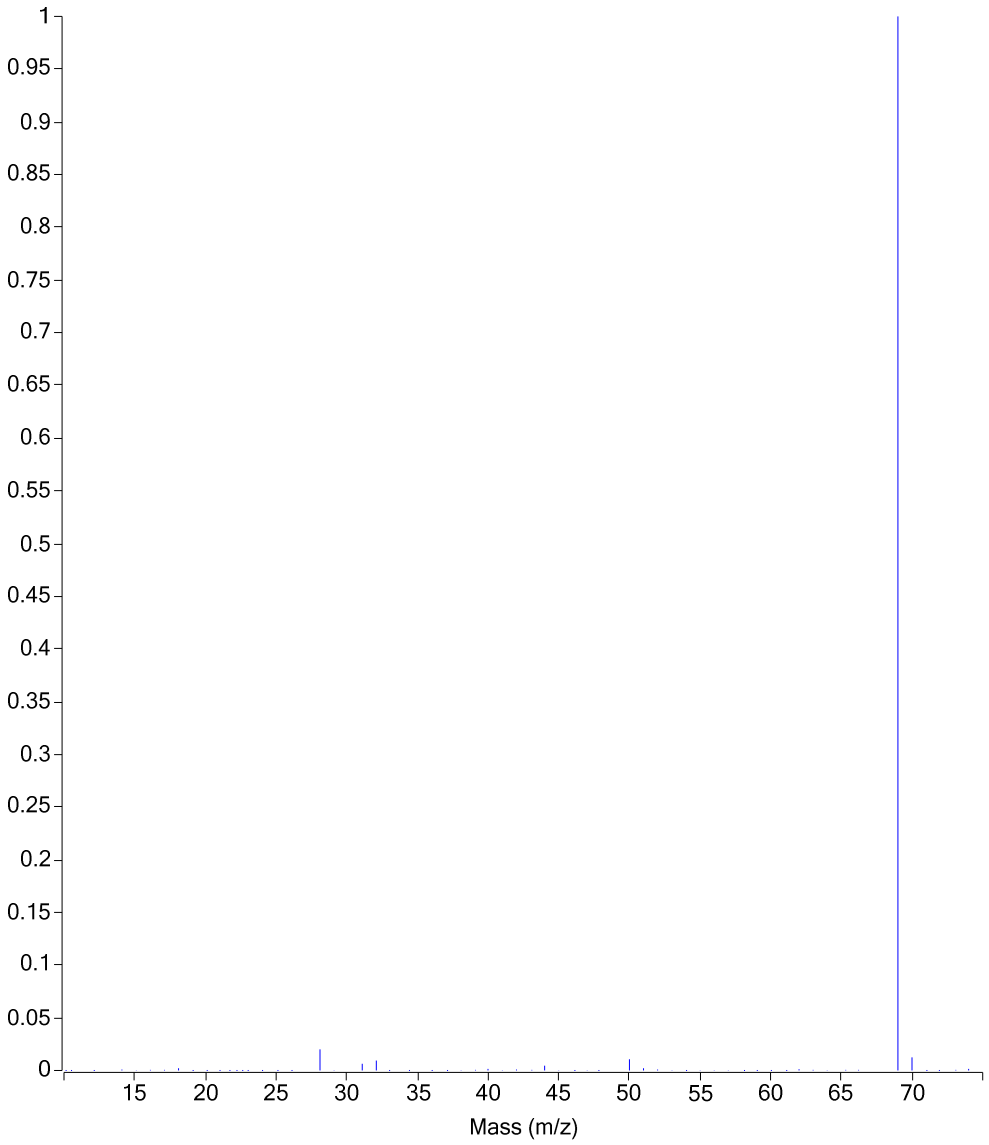
Repeller maximum 35 volts using ion 219; Gain Factor 0.1125

Mass Gain Values(Scan Speed): 93(3) 96(2) 104(1) 118(0) 171(FS1) 170(FS2) 137(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	136.9	136.9	136.9	136.9	136.9	136.9	136.9
Entrance Lens Offset	13.9	13.9	13.9	13.9	13.9	13.9	13.9

597x Air and Water Check

Instrument: GCMS #4
Mon Mar 17 08:21:40 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: HES_Atune.u

Relative abundances:

18/69 =	0.20	Water%	(counts=1630)
28/69 =	2.01	Nitrogen%	(counts=16504)
32/69 =	0.94	Oxygen%	(counts=7755)
44/69 =	0.47	Carbon Dioxide%	(counts=3859)
28/18 =	1012.52	Nitrogen/Water%	

Instrument Name : GCMS #4
DC Polarity : Positive
Filament 1
Current Vacuum status :High Vacuum: 5.62E-06 Torr Turbo:100%

BasePeak should be 69 or 219		OK
Position of mass 69	69.00	OK
Position of mass 219	219.00	OK
Position of mass 502	502.04	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	220.00	OK
Position of isotope mass 503	503.06	OK
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.19	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.61	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.22	OK
Ratio of 219 to 69 should be > 40% and is	90.56	OK
Ratio of 502 to 69 should be > 2.4% and is	4.70	OK
Mass 69 Precursor (<= 3%)	0.64	OK
Mass 219 Precursor (<= 6%)	2.47	OK
Mass 502 Precursor (<= 12%)	5.28	OK

597x Air and Water Check
Mon Mar 17 08:36:32 2025 Instrument: GCMS #4
D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002

Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	0.11	OK
Ratio of 28 to 69 (<10%)	2.69	OK
Electron Multiplier Voltage	2198	OK

Tune portion of System Verification passed.

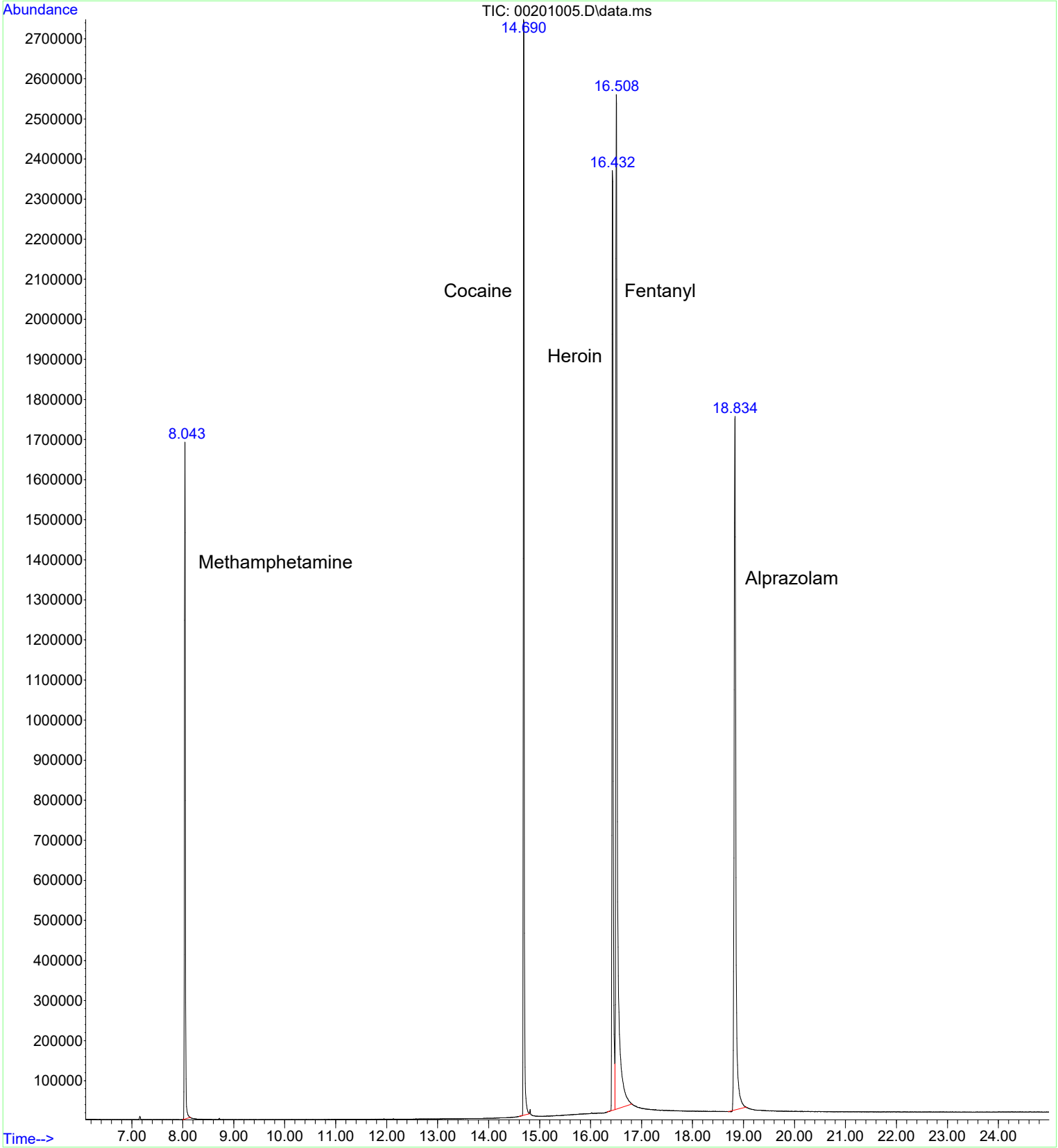
BCCL GC/MS #4
Retention Times for the Week of:

03/17/2025 - 03/23/2025

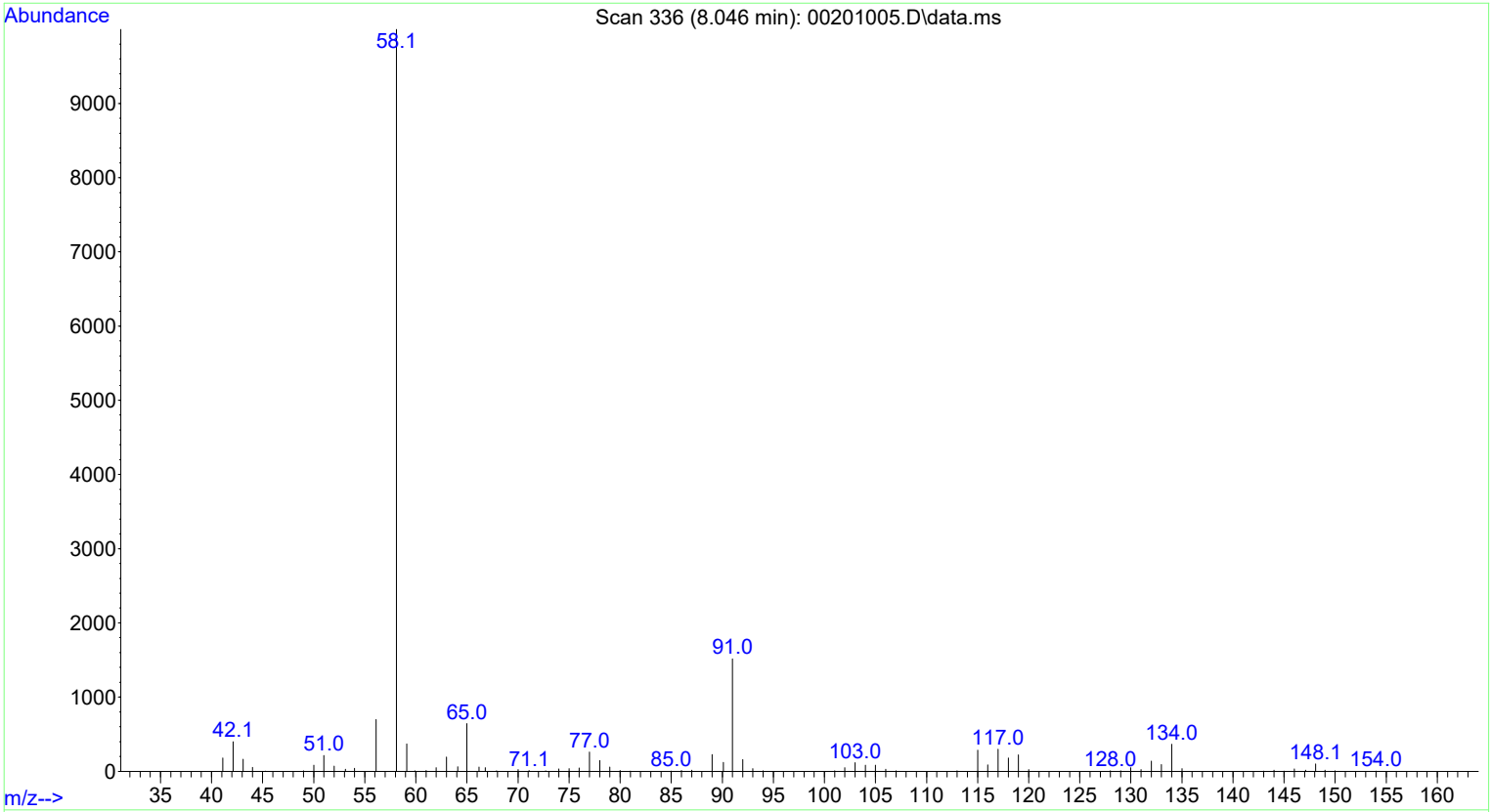
[X] **Tune:** DS **03/17/2025 - HES Autotune**

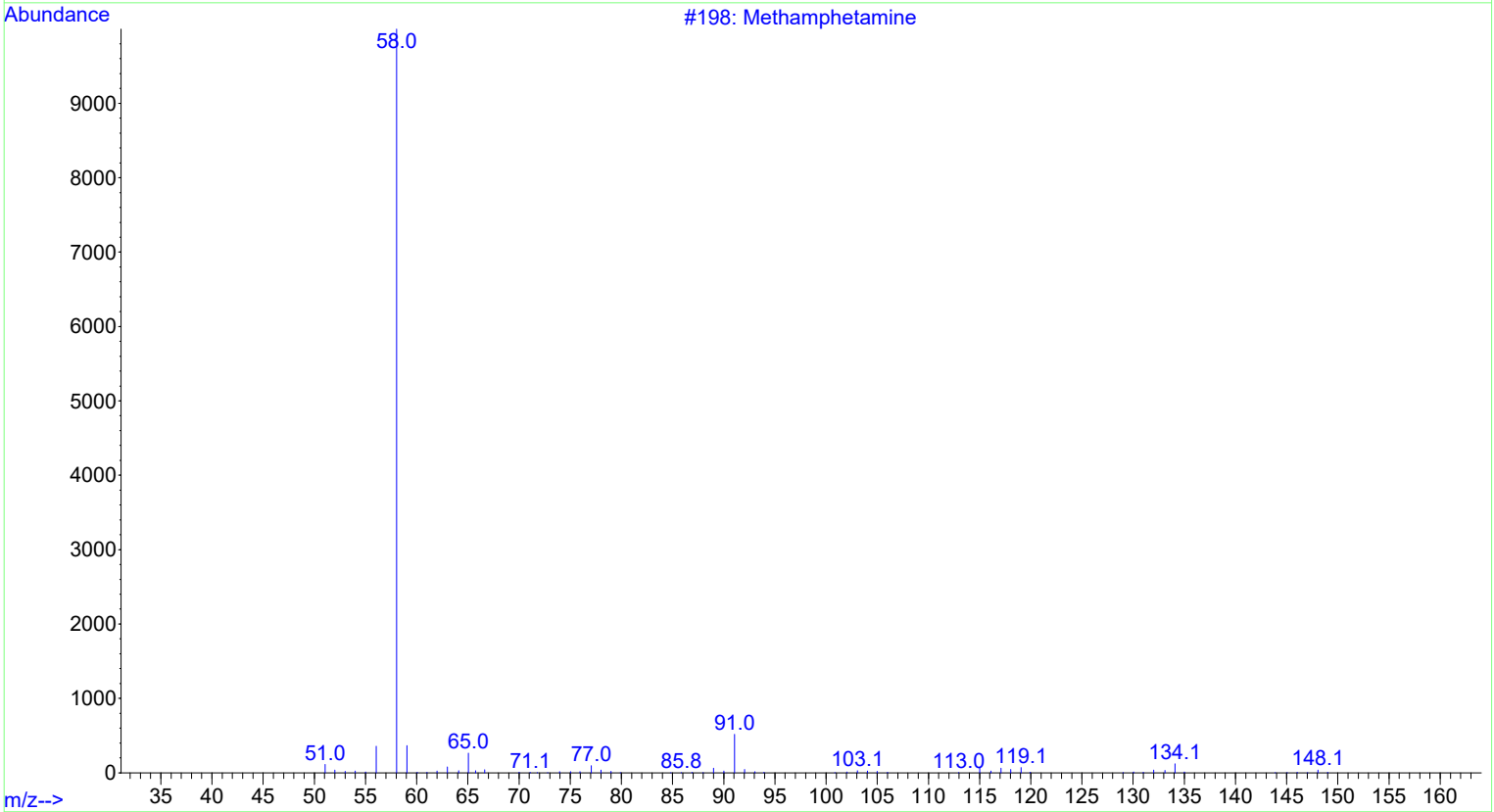
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35MS	8.043	7.962	8.123
Cocaine	R-24-060	DrugTest35MS	14.690	14.543	14.836
Heroin	R-24-060	DrugTest35MS	16.432	16.267	16.596
Fentanyl	R-24-060	DrugTest35MS	16.508	16.342	16.673
Alprazolam	R-24-060	DrugTest35MS	18.834	18.645	19.022

File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\031725\00201005.D
Acquired : 17 Mar 2025 09:58 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2

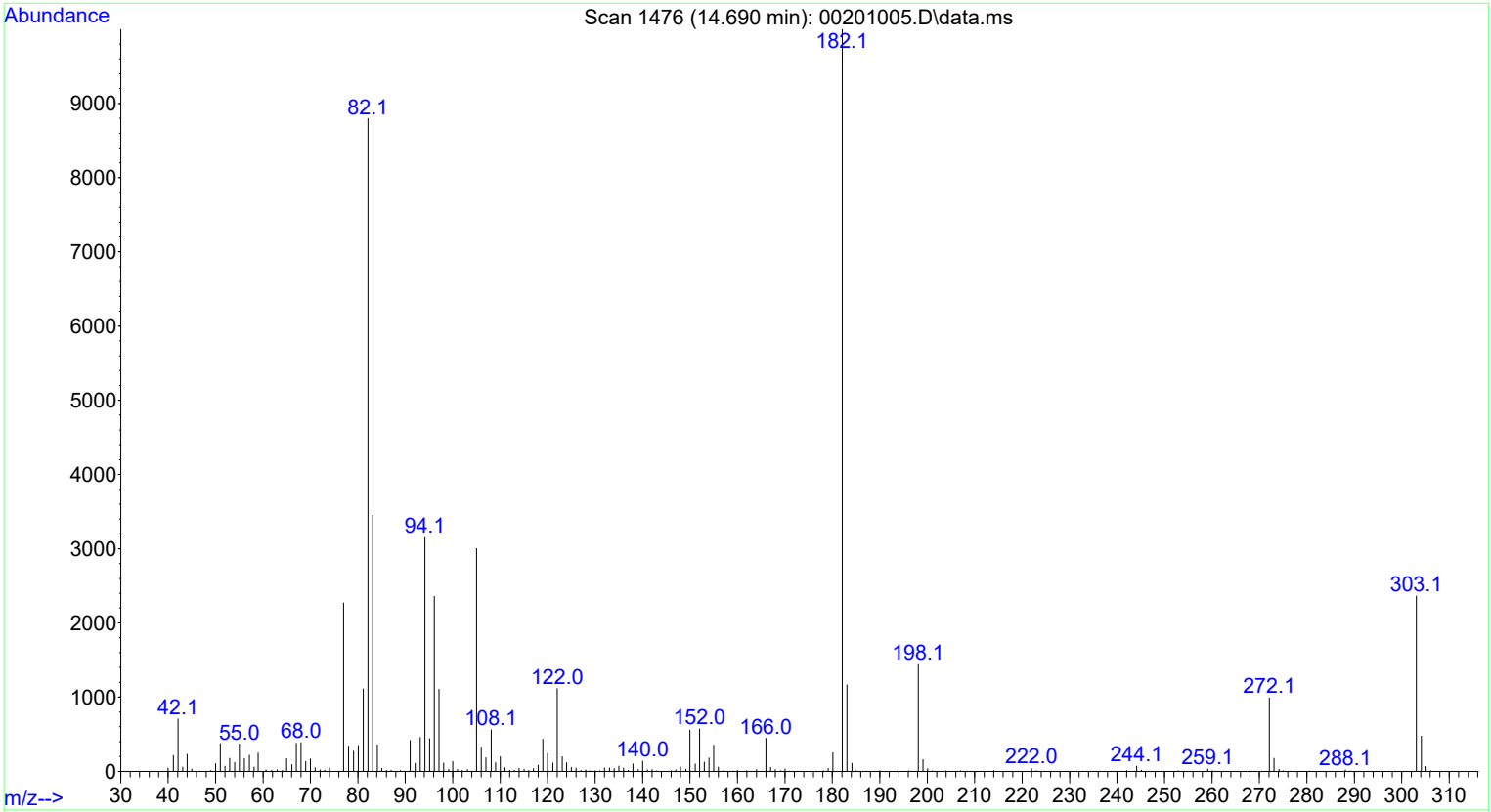


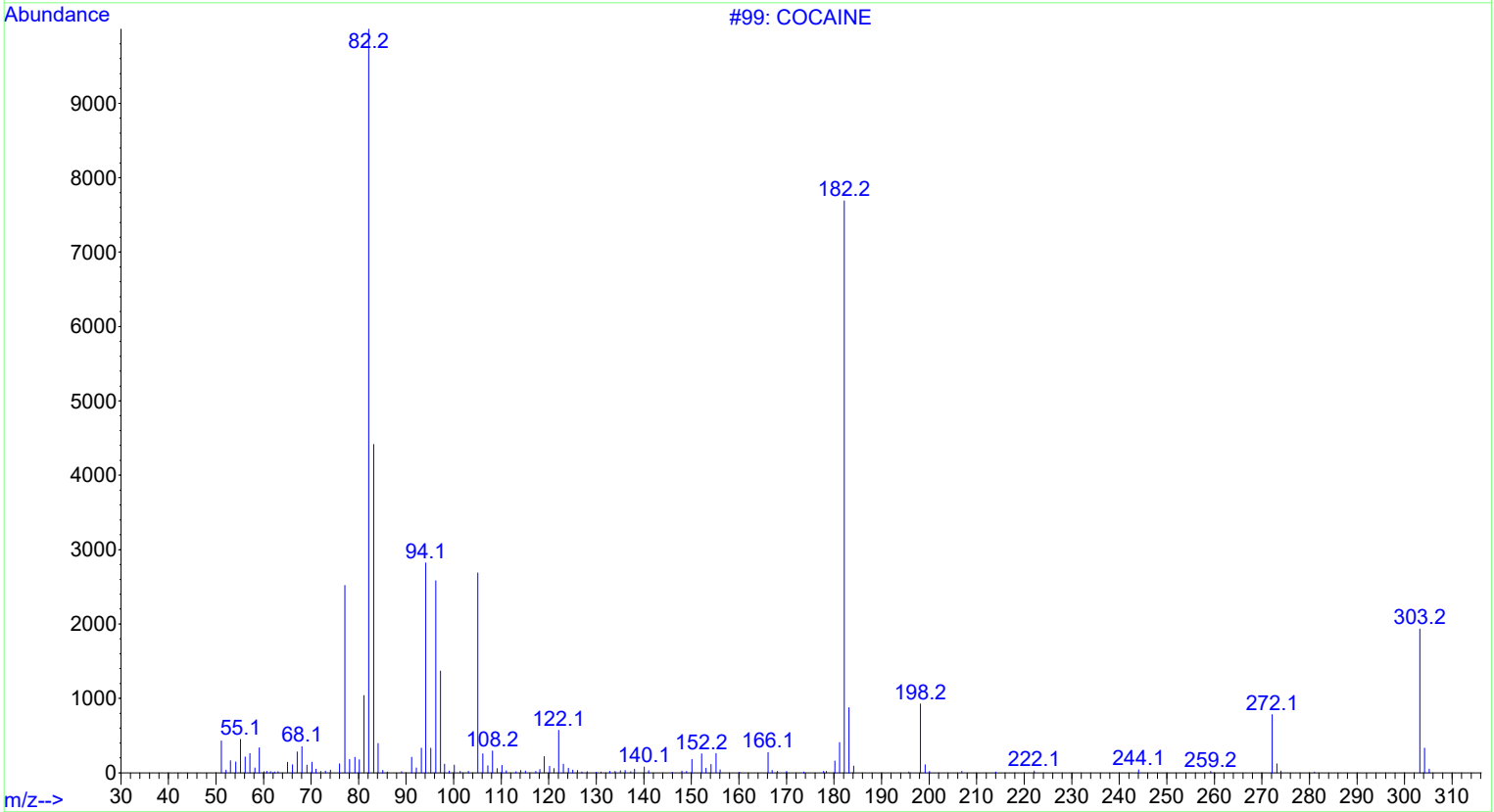
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... 2025 Data\031725\00201005.D
Acquired : 17 Mar 2025 09:58 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



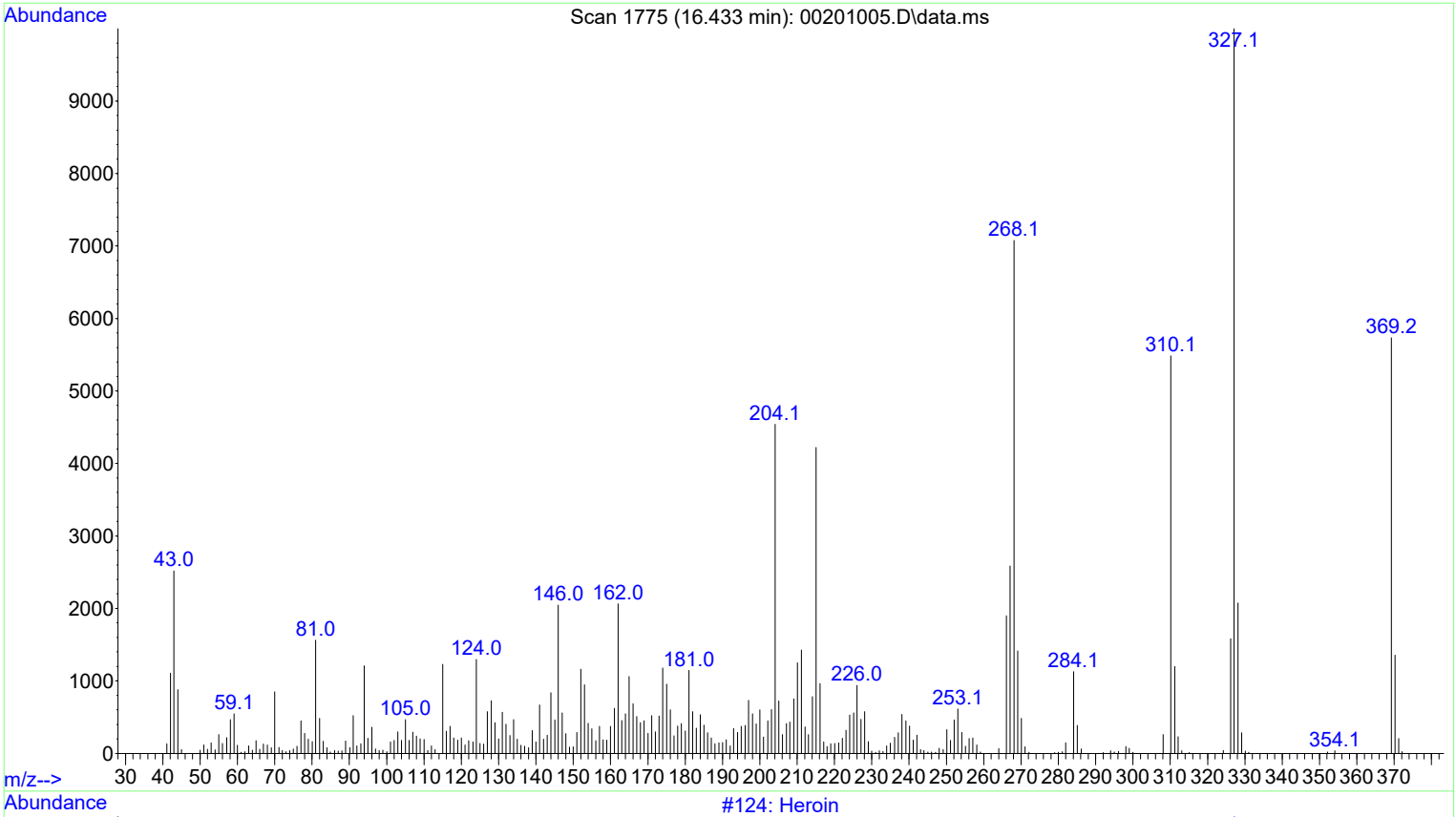


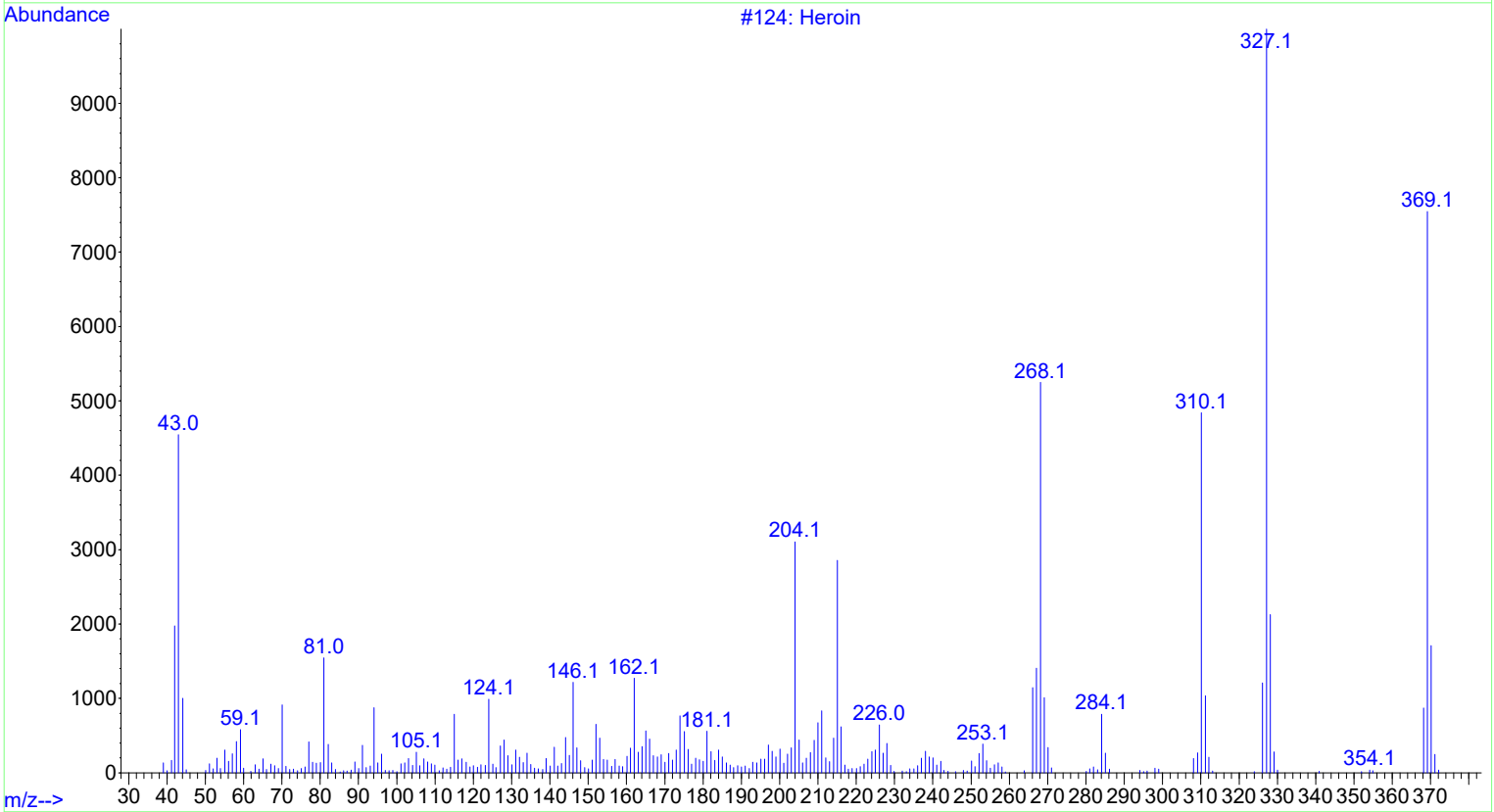
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Acquired : 17 Mar 2025 09:58 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



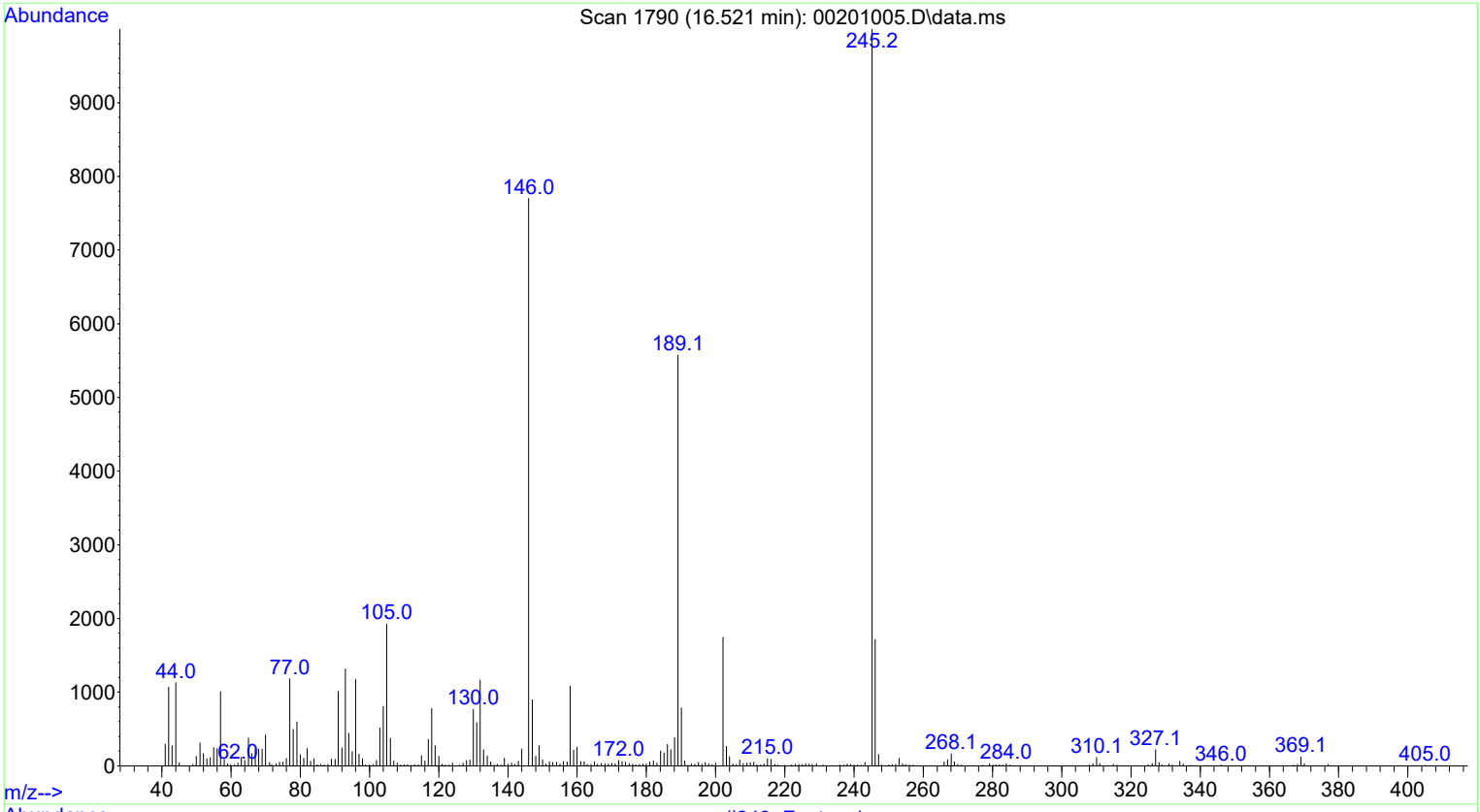


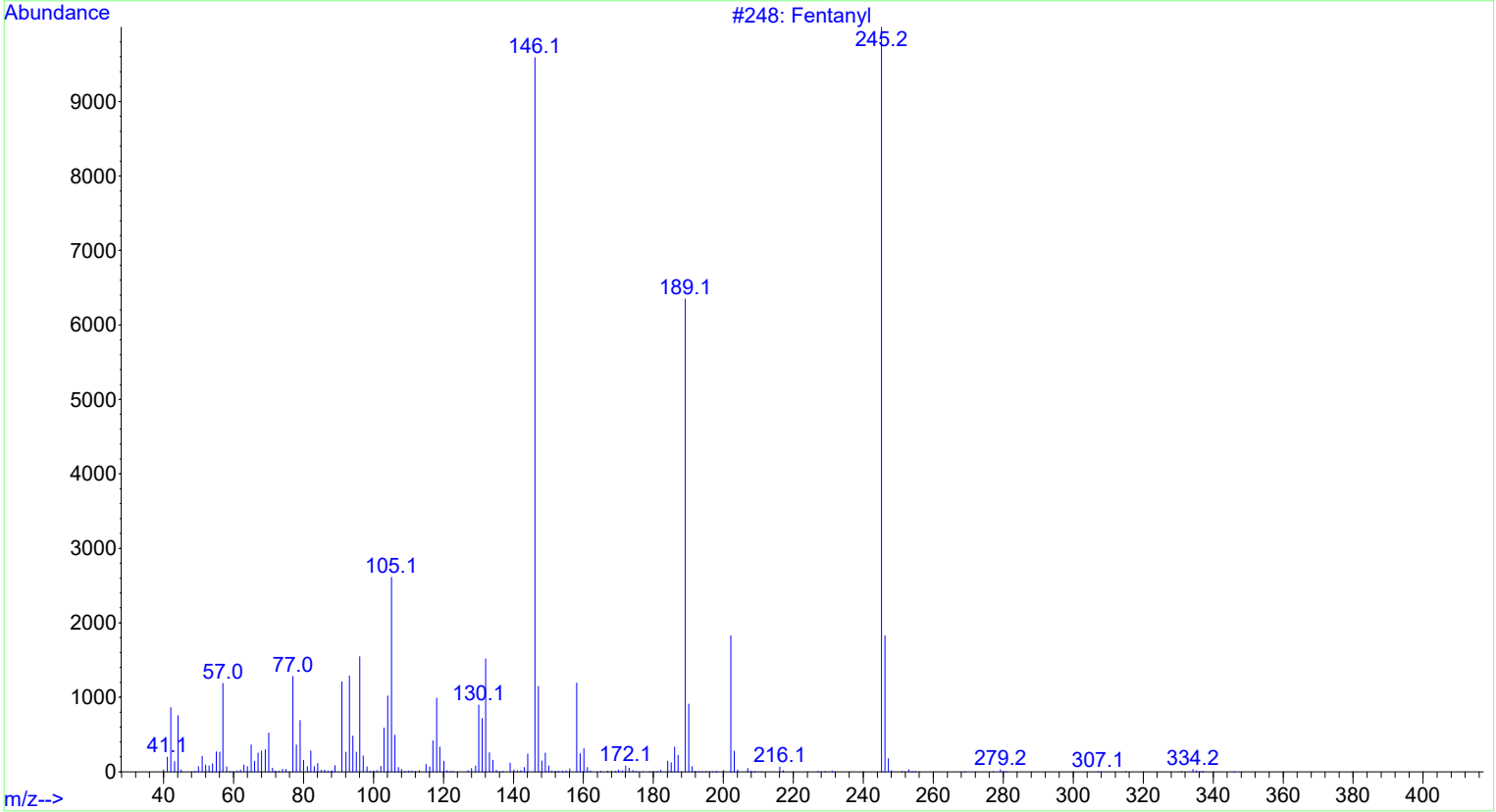
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... 2025 Data\031725\00201005.D
Acquired : 17 Mar 2025 09:58 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



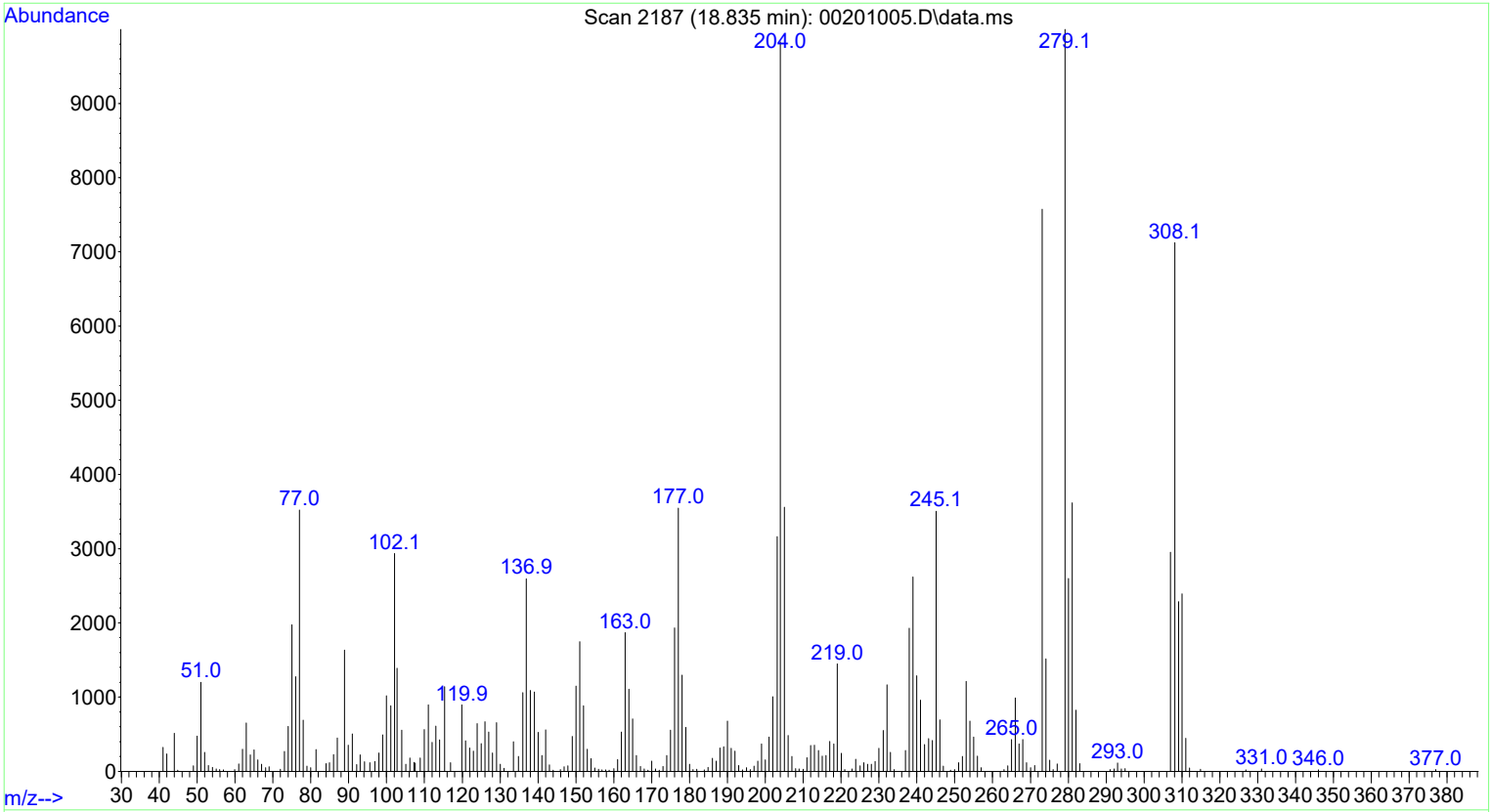


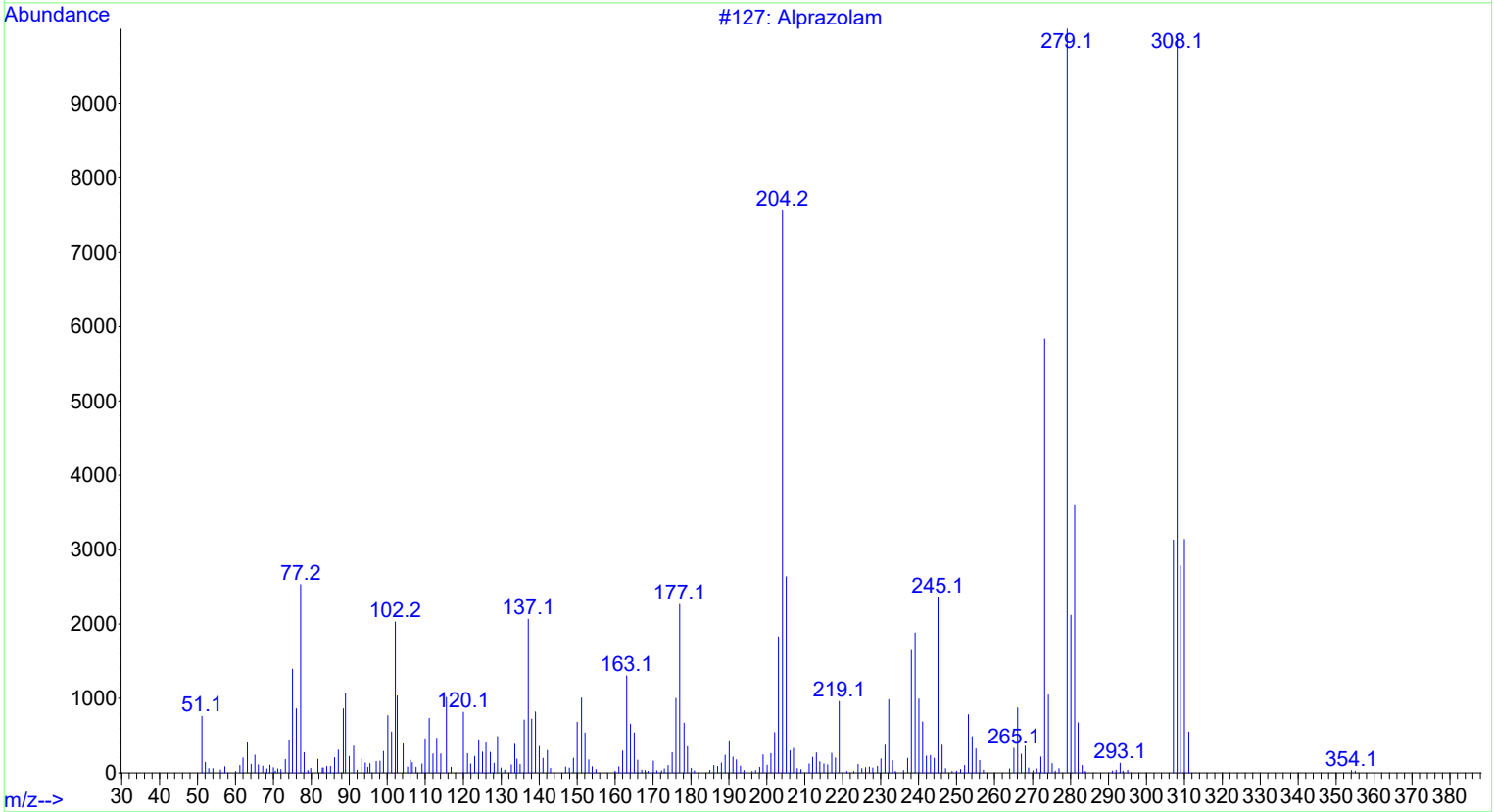
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... 2025 Data\031725\00201005.D
Acquired : 17 Mar 2025 09:58 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



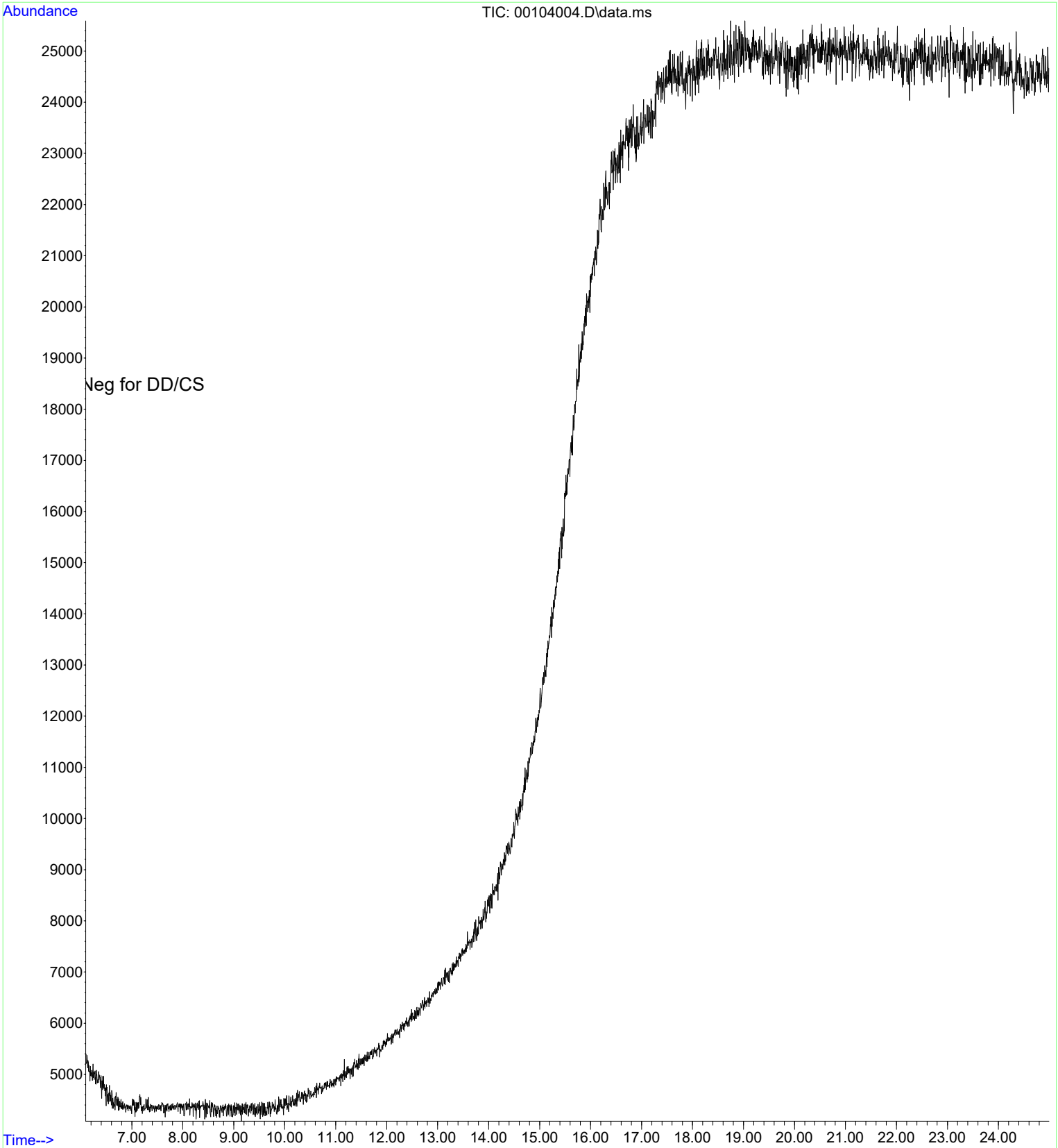


File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
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Acquired : 17 Mar 2025 09:58 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2

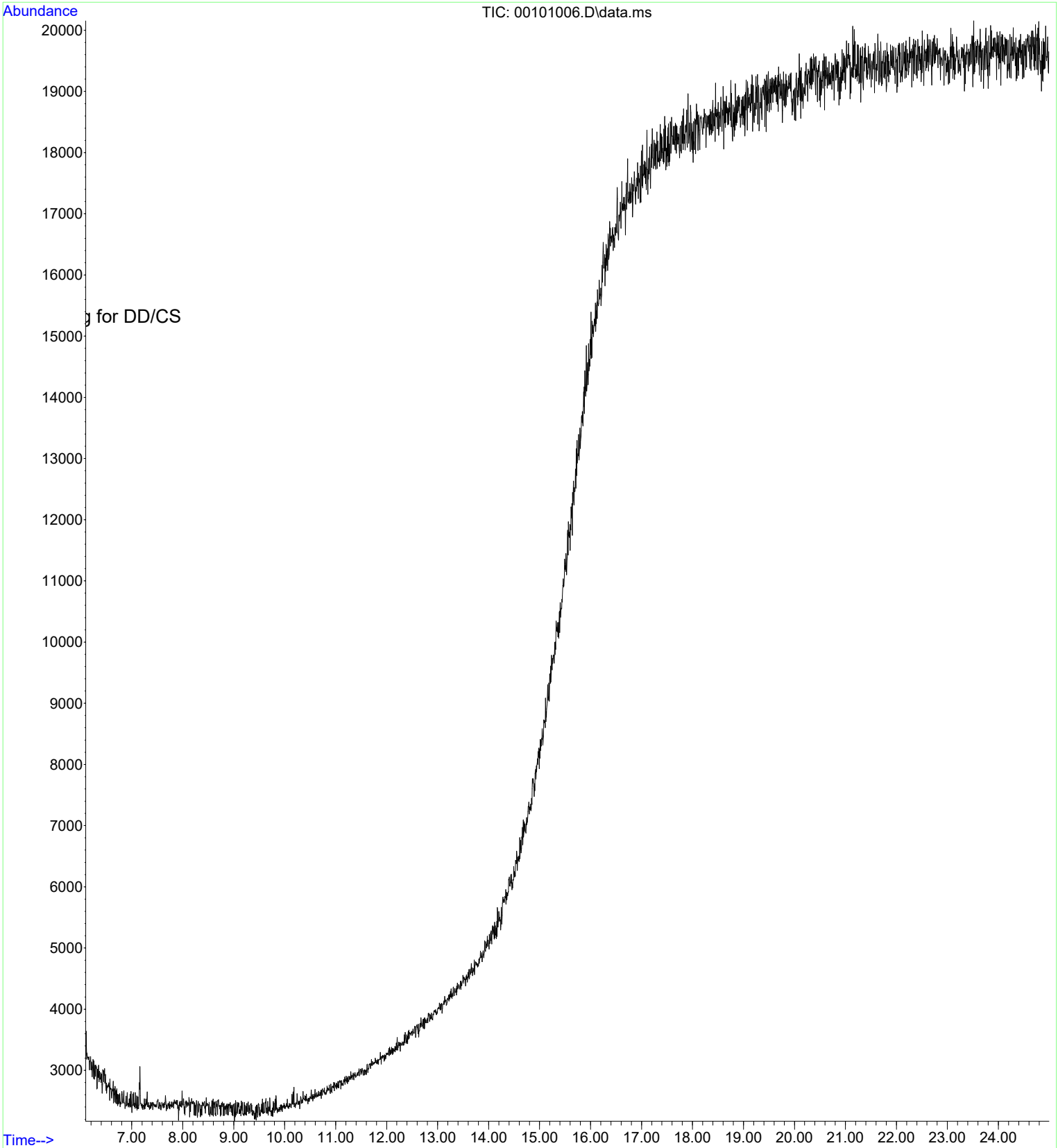




File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\031725\00104004.D
Acquired : 17 Mar 2025 09:29 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: BLANK (C-19-0068) prior to Cayman GC/MS mix 3 (R-24-060) 000002668
Misc Info : ACN 000002668
Vial Number: 1



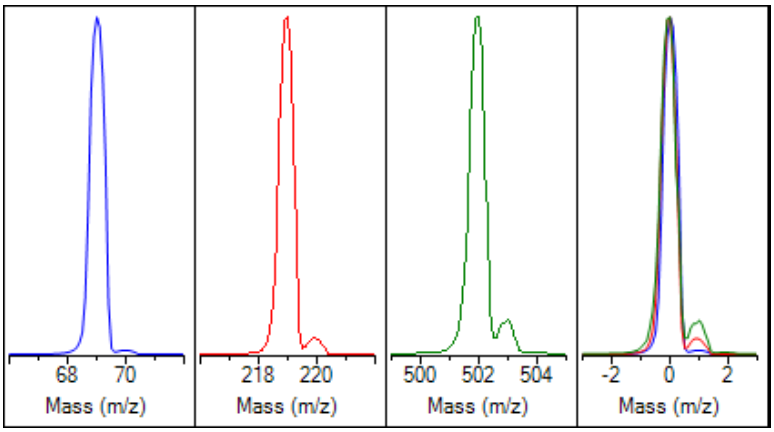
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... 2025 Data\031725\00101006.D
Acquired : 17 Mar 2025 10:26 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Blank (C-19-0068) - Instrument ready 000002668
Misc Info : ACN 000002668
Vial Number: 1



High Efficiency Source Autotune - 5977

Tune timestamp: 3/24/2025 8:36 AM (UTC-05:00) GCMS #4

D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002



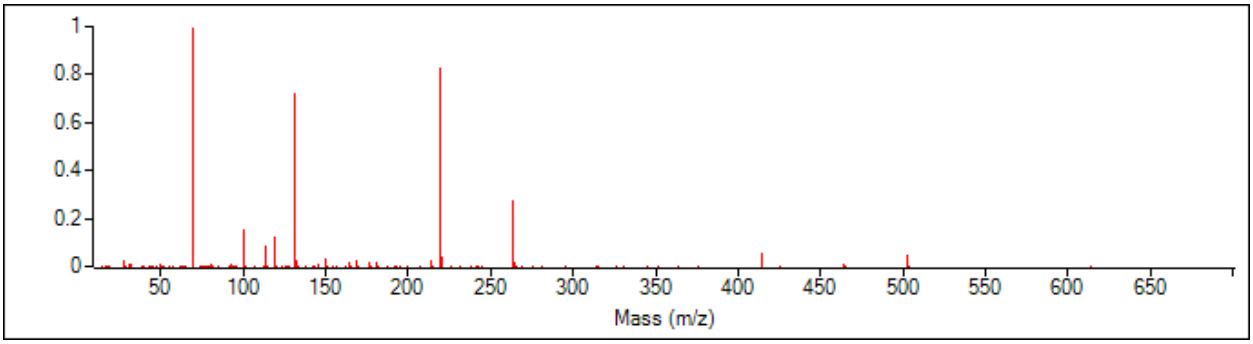
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	90
Electron Energy	70.0	Mass Offset	-27
Filament	1	Amu Gain	2438
Repeller	12.78	Amu Offset	136.44
Ion Focus	149.6	Width219	0.001
Entrance Lens	7.5	DC Polarity	Pos
Ent Lens Offset	16.14	HED Enable	On
Ion Body	5.25	EM Volts	2184.0
Post Extractor 1	16	Extractor Lens	13.10
Post Extractor 2	32	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	463,673	100.0%	0.60
219.00	385,747	83.2%	0.60
502.00	21,788	4.7%	0.60

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	7.49e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	115	69.00	439,936	1,633,424



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	439,936	100.0%	70.00	5,232	1.2%
219.00	219.00	365,120	83.0%	220.00	17,096	4.7%
502.00	502.10	20,608	4.7%	503.10	2,242	10.9%

Air/Water Check: H20 ~0.2% N2 ~2.6% O2 ~0.9% CO2 ~0.4% N2/H20 ~1102.0%

Column(1) Flow: 0.70 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 128 volts using ion 502; Electron Multiplier Gain 10077.544

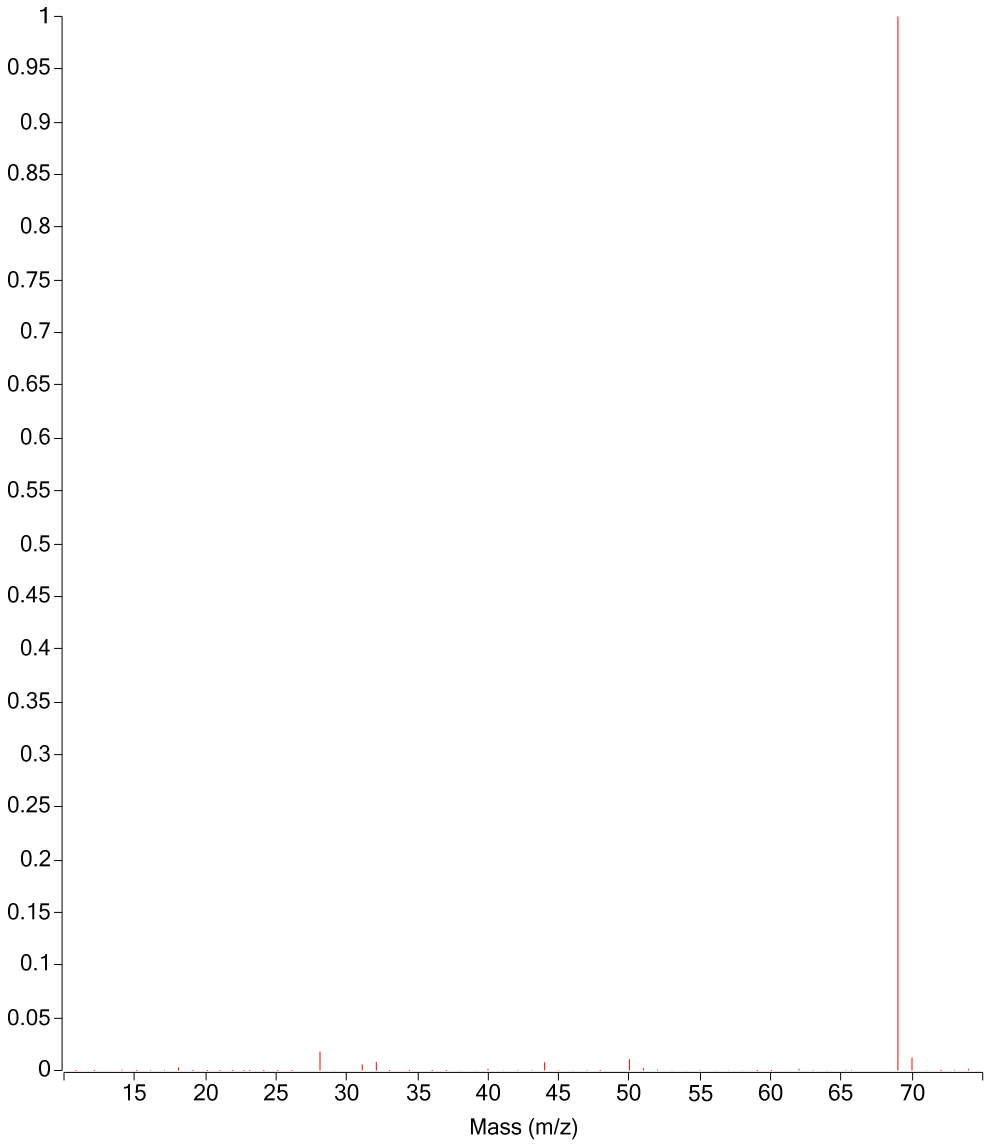
Repeller maximum 35 volts using ion 219; Gain Factor 0.1008

Mass Gain Values(Scan Speed): 107(3) 111(2) 122(1) 138(0) 190(FS1) 189(FS2) 145(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	136.4	136.4	136.4	136.4	136.4	136.4	136.4
Entrance Lens Offset	16.1	16.1	16.1	16.1	16.1	16.1	16.1

597x Air and Water Check

Instrument: GCMS #4
Mon Mar 24 08:26:42 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: HES_Atune.u

Relative abundances:

18/69 =	0.29	Water%	(counts=2383)
28/69 =	1.80	Nitrogen%	(counts=14774)
32/69 =	0.81	Oxygen%	(counts=6688)
44/69 =	0.78	Carbon Dioxide%	(counts=6447)
28/18 =	619.97	Nitrogen/Water%	

Instrument Name : GCMS #4
DC Polarity : Positive
Filament 1
Current Vacuum status :High Vacuum: 5.72E-06 Torr Turbo:100%

BasePeak should be 69 or 219		OK
Position of mass 69	69.00	OK
Position of mass 219	219.00	OK
Position of mass 502	502.08	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	220.00	OK
Position of isotope mass 503	503.09	OK
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.19	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.68	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.10	OK
Ratio of 219 to 69 should be > 40% and is	80.88	OK
Ratio of 502 to 69 should be > 2.4% and is	4.75	OK
Mass 69 Precursor (<= 3%)	0.59	OK
Mass 219 Precursor (<= 6%)	1.25	OK
Mass 502 Precursor (<= 12%)	3.14	OK

597x Air and Water Check
Mon Mar 24 08:40:54 2025 Instrument: GCMS #4
D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002

Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	0.22	OK
Ratio of 28 to 69 (<10%)	2.63	OK
Electron Multiplier Voltage	2184	OK

Tune portion of System Verification passed.

BCCL GC/MS #4
Retention Times for the Week of:

03/24/2025 - 03/25/2025

[X] **Tune:** DS **03/24/2025 - HES Autotune**

Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35MS	8.044	7.963	8.124
Cocaine	R-24-060	DrugTest35MS	14.690	14.543	14.836
Heroin	R-24-060	DrugTest35MS	16.430	16.265	16.594
Fentanyl	R-24-060	DrugTest35MS	16.505	16.339	16.670
Alprazolam	R-24-060	DrugTest35MS	18.830	18.641	19.018

Brazoria County Crime Lab Area Percent Report

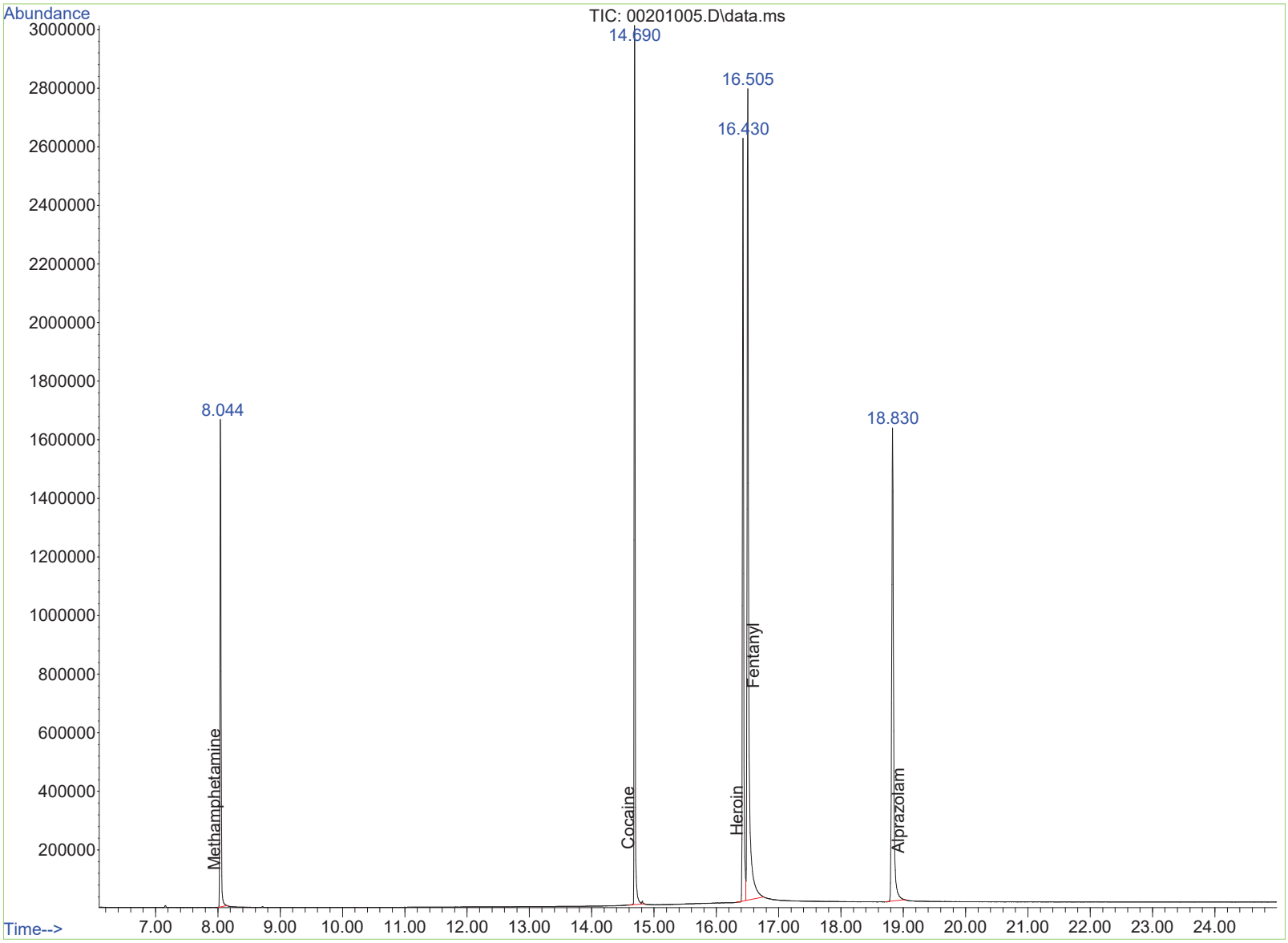
Data File: D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\2025 Data\032425\00201005.D
Method : D:\MassHunter\GCMS\1\methods\DrugTest35MS.M
Operator : AGILENT 4
Acq On : 24 Mar 2025 10:00
Sample : Cayman GC/MS mix 3 (R-24-060)
Misc : in ACN
ALS Vial : 2
ExpBcode : 000002669
ActBcode : 000002669

Signal : TIC: 00201005.D\data.ms

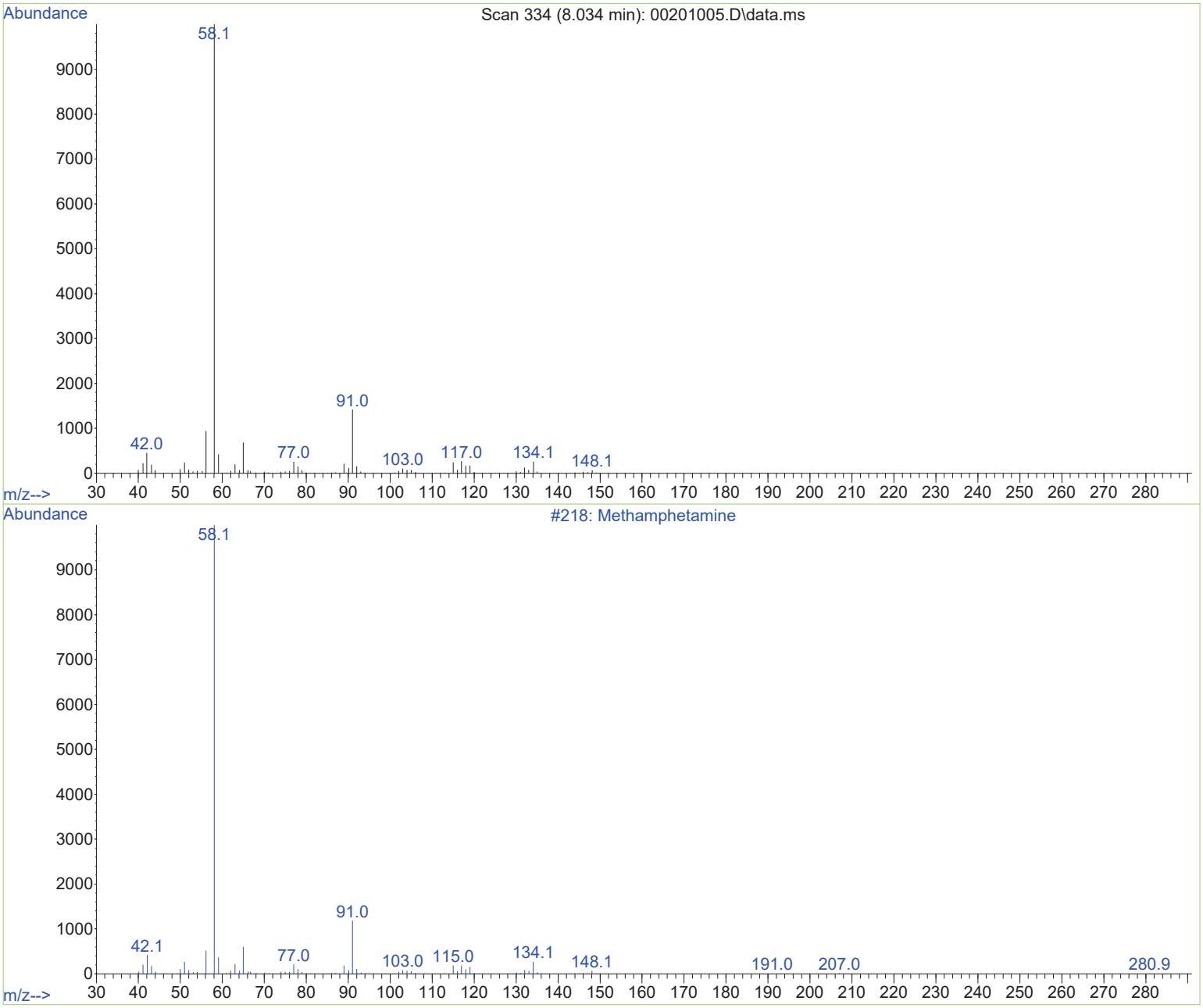
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.044	329	336	353	BB	1622883	21248962	41.22%	12.076%
2	14.690	1460	1476	1502	BB	3062536	33042969	64.11%	18.778%
3	16.430	1757	1774	1782	BV	2540566	36394677	70.61%	20.683%
4	16.505	1782	1787	1832	VB	2708017	51545027	100.00%	29.293%
5	18.830	2166	2186	2219	BB	1579949	33730930	65.44%	19.169%

Sum of corrected areas: 175962565

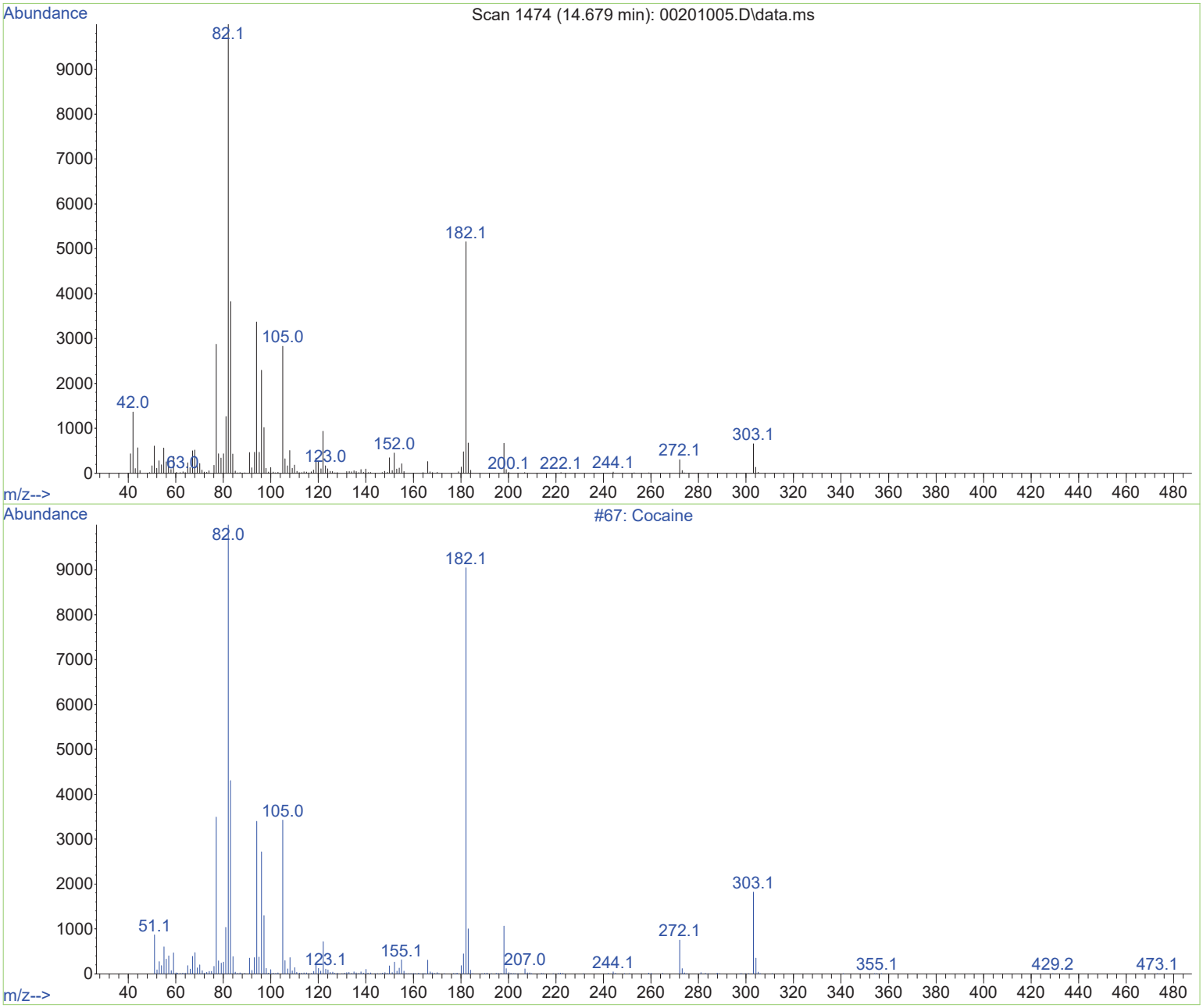
DrugTest35MS.M Mon Mar 24 16:53:47 2025 DRUGS



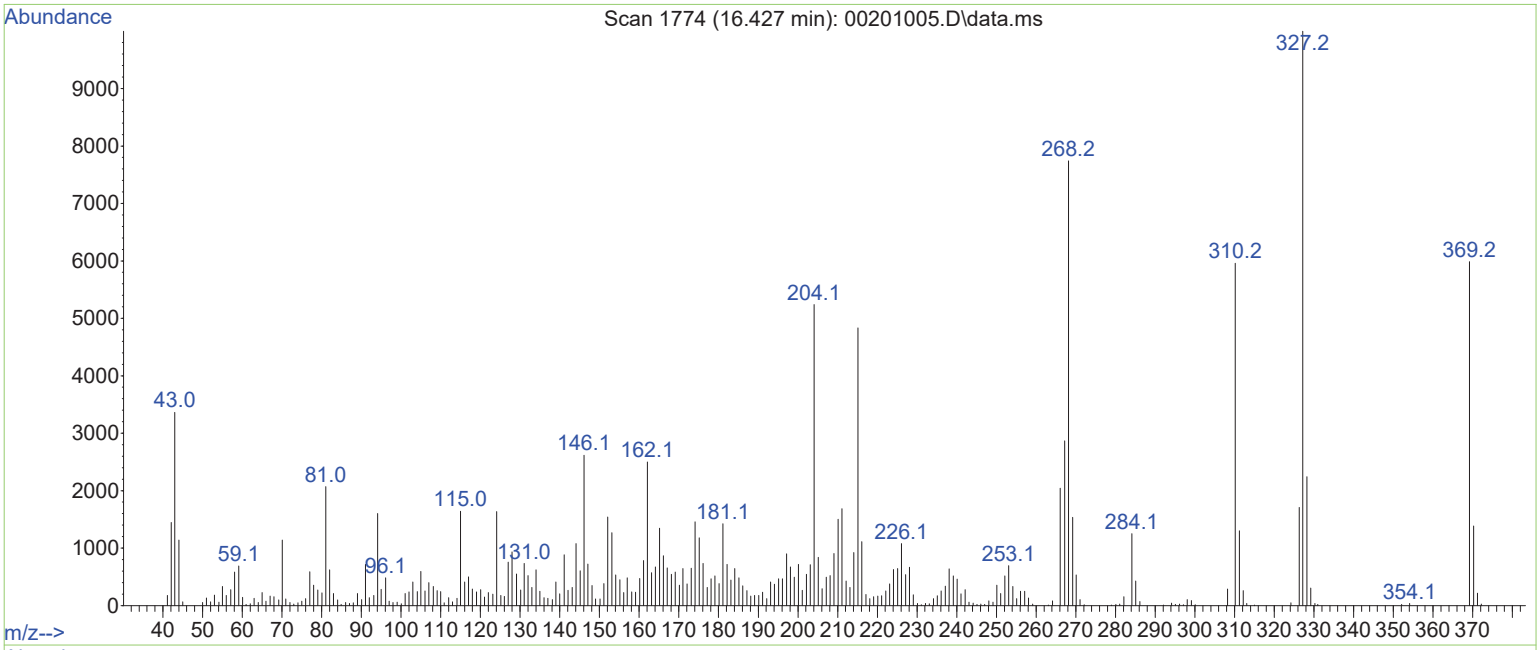
Library Searched : D:\MassHunter\GCMS#4 Library\DRUG.L Sample Name: Cayman GC/MS mix 3 (R-24-060)
Quality : 90
ID : Methamphetamine

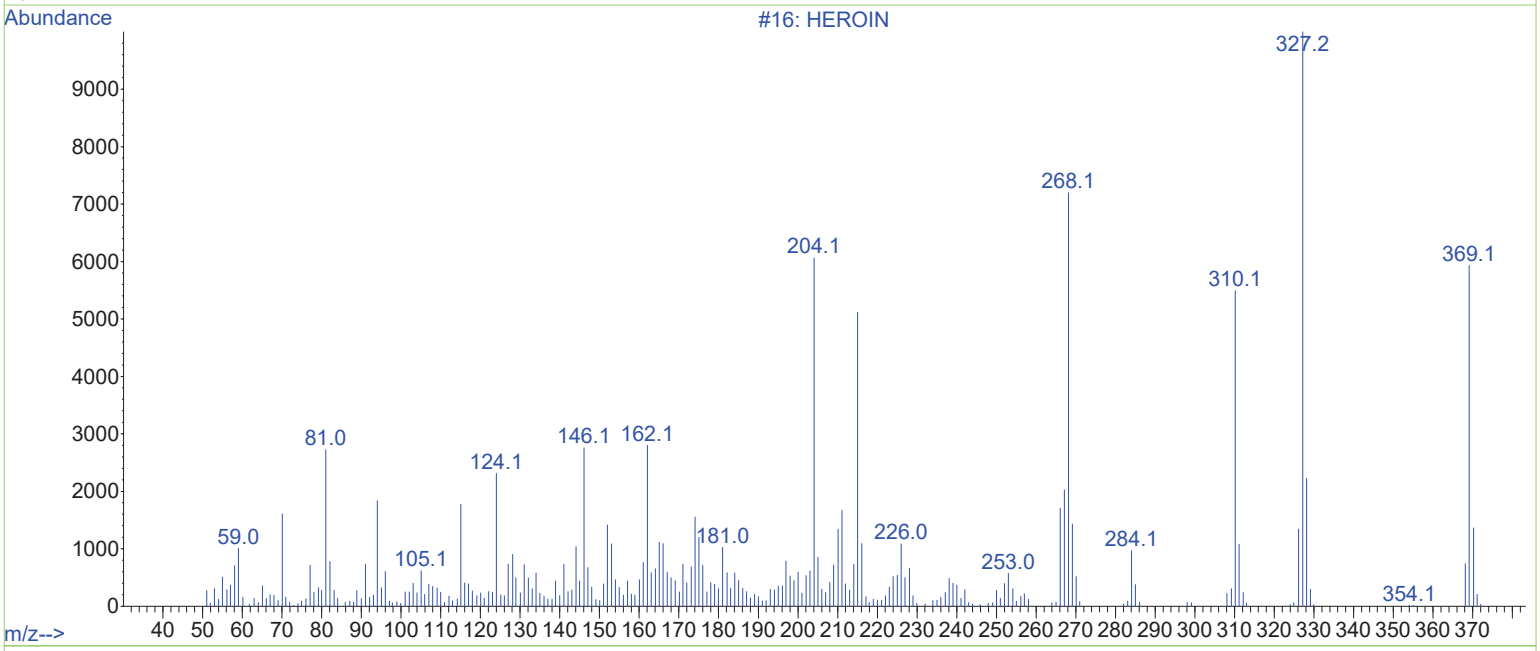


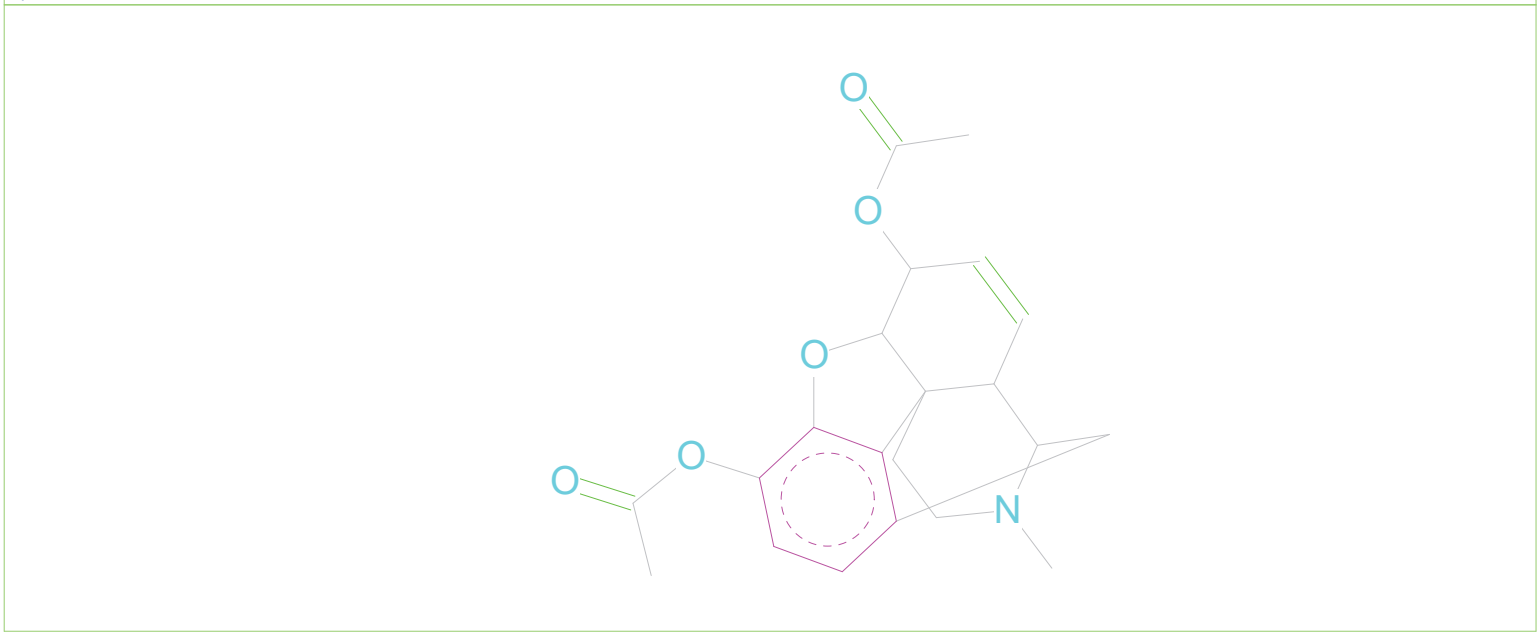
Library Searched : D:\MassHunter\GCMS#4 Library\DRUG.L Sample Name: Cayman GC/MS mix 3 (R-24-060)
Quality : 99
ID : Cocaine



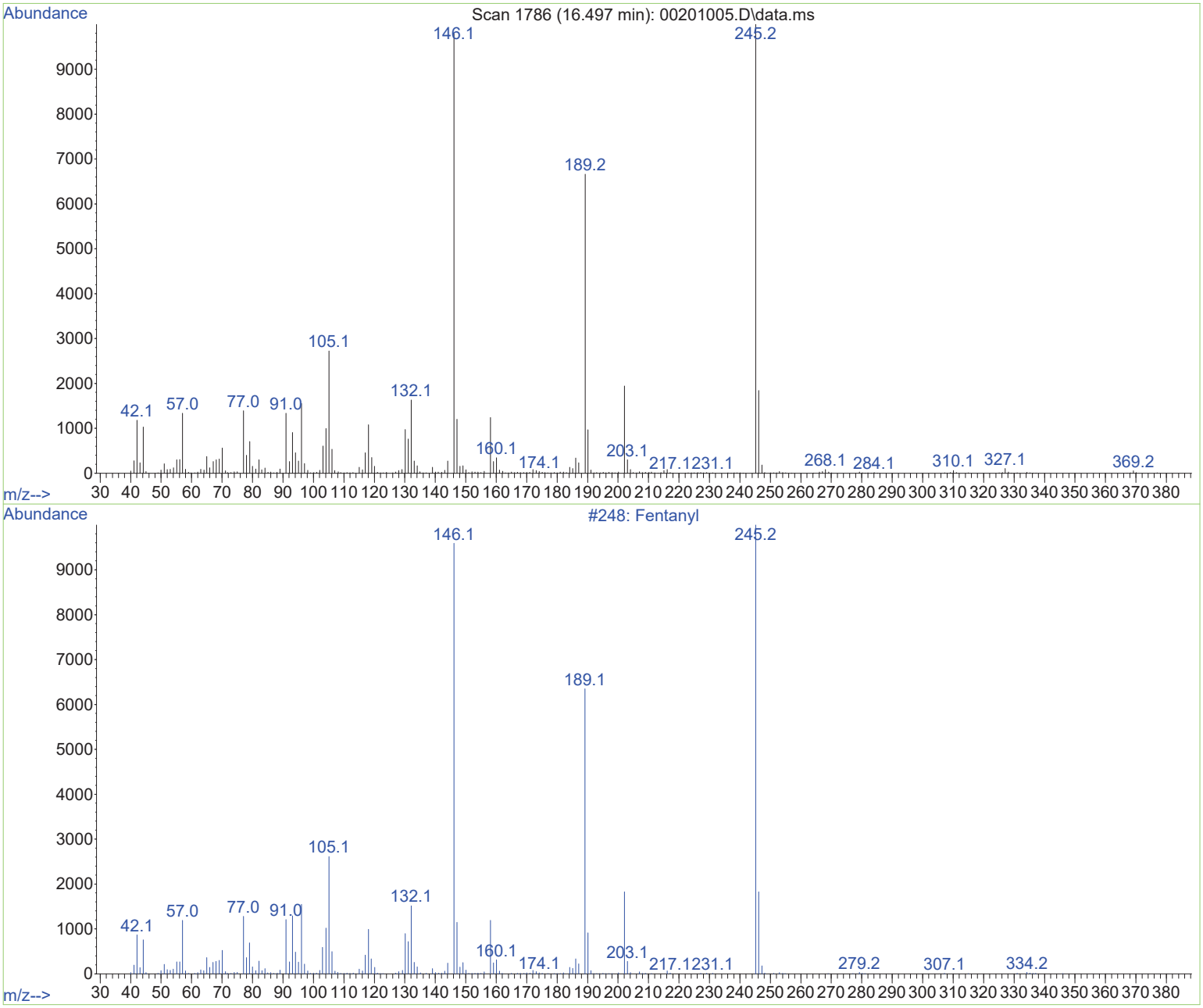
Library Searched : D:\MassHunter\GCMS#4 Library\DRUG.L Sample Name: Cayman GC/MS mix 3 (R-24-060)
Quality : 99
ID : HEROIN



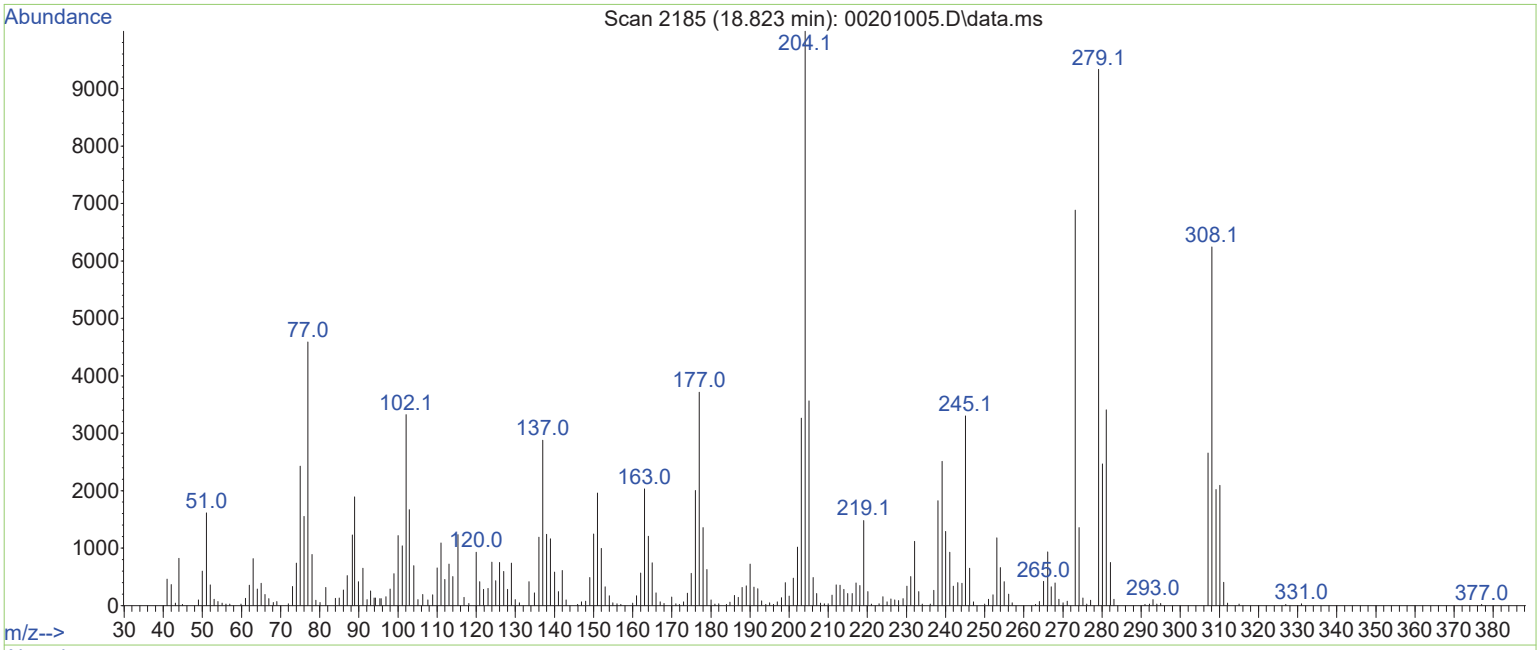


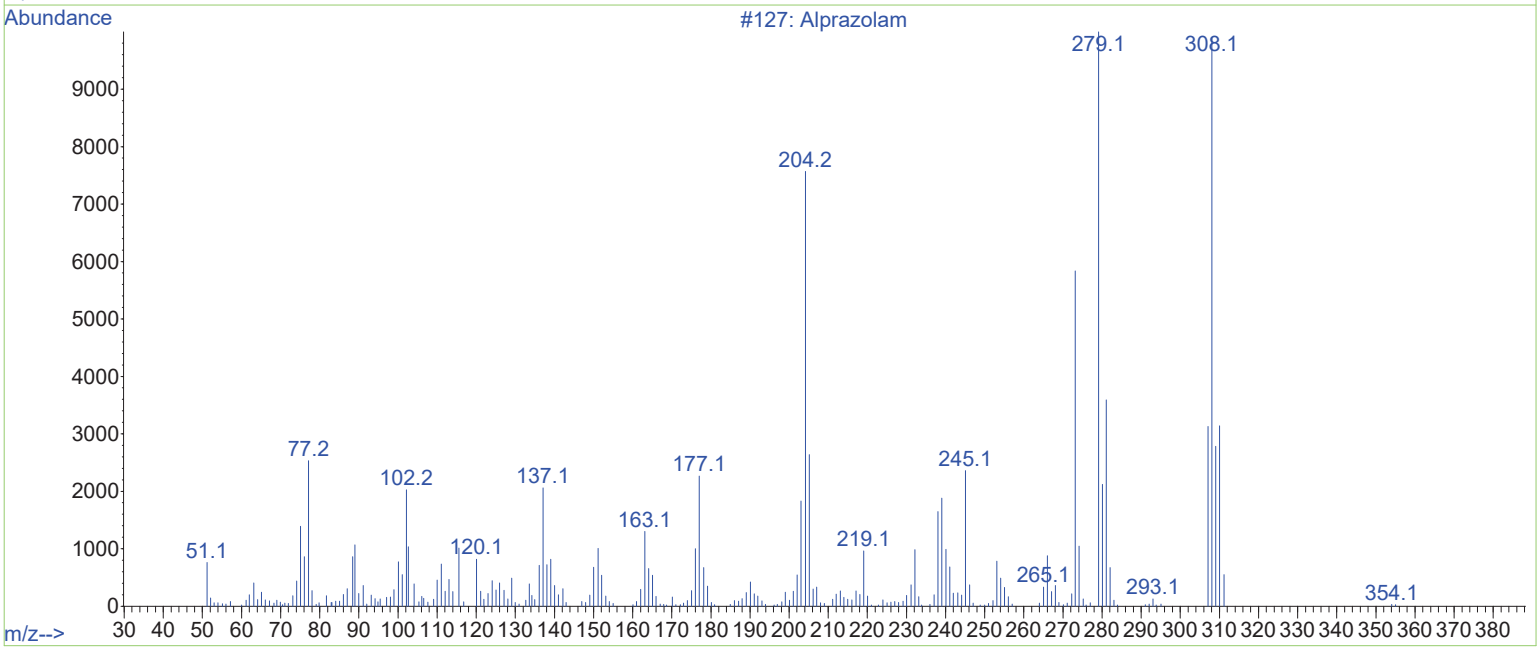


Library Searched : D:\MassHunter\GCMS#4 Library\DRUG.L Sample Name: Cayman GC/MS mix 3 (R-24-060)
Quality : 99
ID : Fentanyl

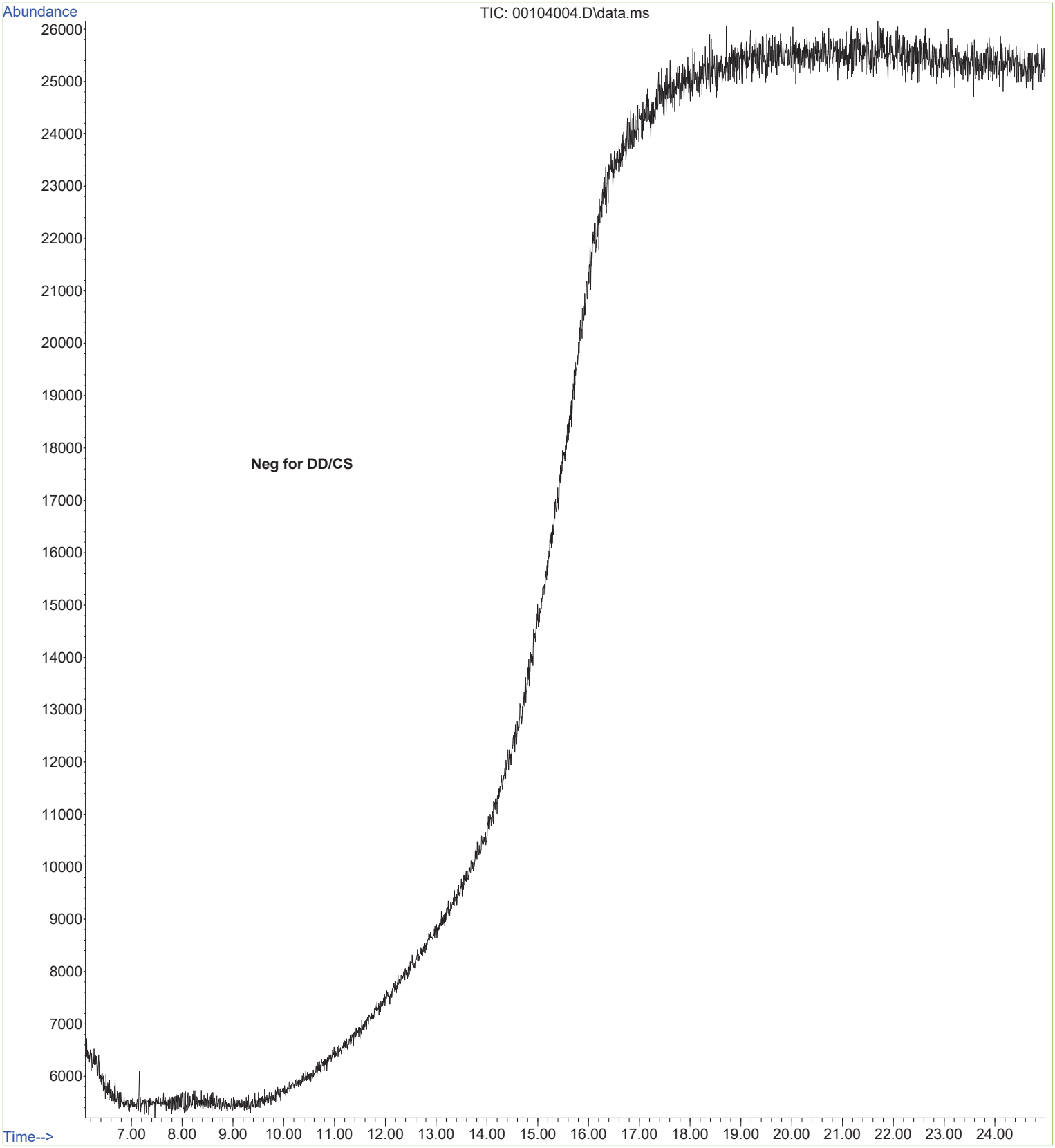


Library Searched : D:\MassHunter\GCMS#4 Library\DRUG.L Sample Name: Cayman GC/MS mix 3 (R-24-060)
Quality : 99
ID : Alprazolam

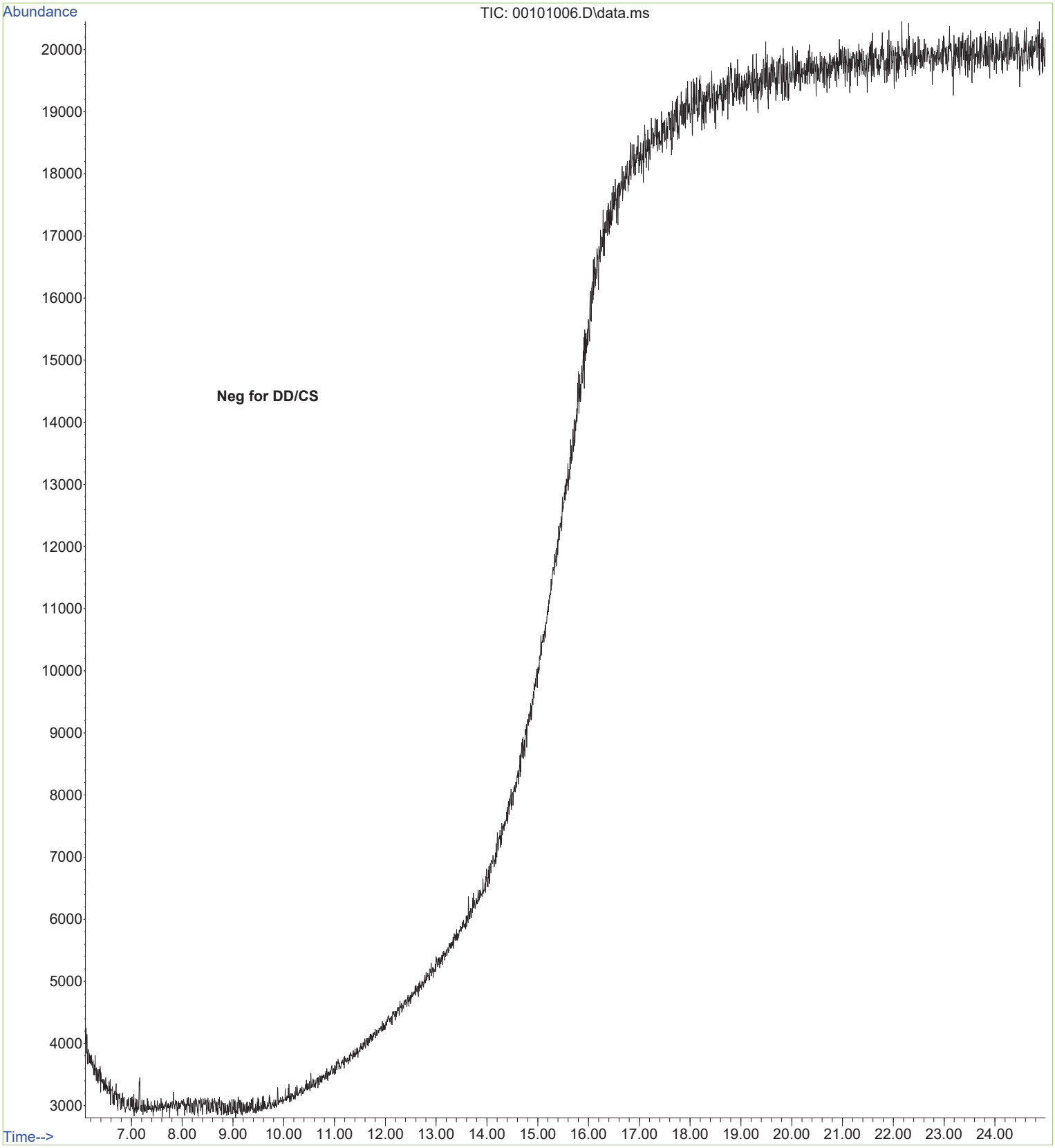




File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\032425\00104004.D
Acquired : 24 Mar 2025 09:31 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: BLANK (C-19-0068) prior to Cayman GC/MS mix 3 (R-24-060) 000002668
Misc Info : ACN 000002668
Vial Number: 1



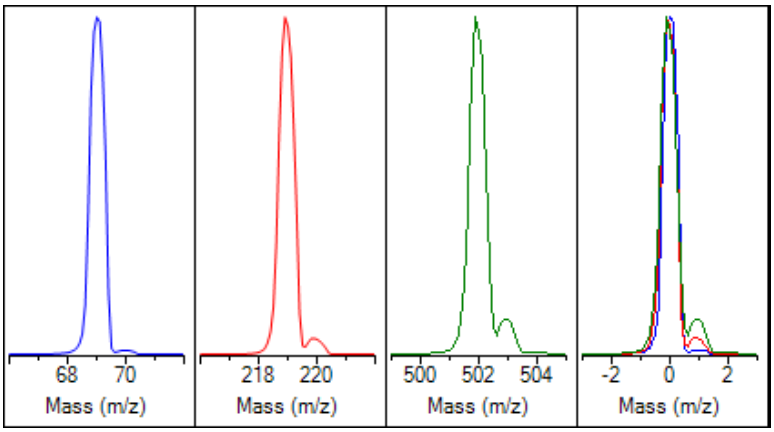
File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\032425\00101006.D
Acquired : 24 Mar 2025 10:29 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Blank (C-19-0068) - Instrument ready 000002668
Misc Info : ACN 000002668
Vial Number: 1



High Efficiency Source Autotune - 5977

Tune timestamp: 3/26/2025 10:33 AM (UTC-05:00) GCMS #4

D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002



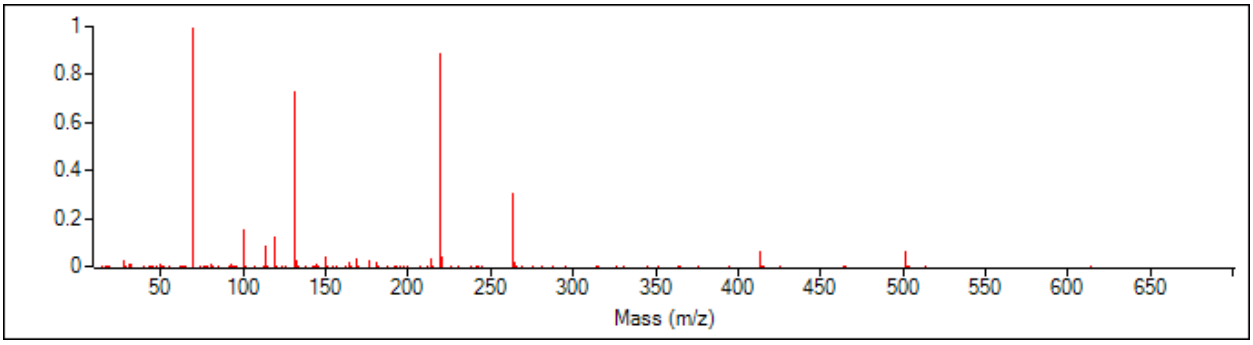
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	91
Electron Energy	70.0	Mass Offset	-27
Filament	1	Amu Gain	2425
Repeller	11.50	Amu Offset	137.13
Ion Focus	138.7	Width219	0.001
Entrance Lens	10.1	DC Polarity	Pos
Ent Lens Offset	13.90	HED Enable	On
Ion Body	5.25	EM Volts	2218.1
Post Extractor 1	14	Extractor Lens	12.80
Post Extractor 2	32	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	480,715	100.0%	0.60
218.90	431,938	89.9%	0.62
501.90	28,977	6.0%	0.64

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	7.66e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	116	69.00	457,728	1,764,504



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	457,728	100.0%	70.00	5,417	1.2%
219.00	219.00	406,656	88.8%	220.00	18,896	4.6%
502.00	502.00	28,456	6.2%	503.00	3,010	10.6%

Air/Water Check: H20 ~0.2% N2 ~2.6% O2 ~0.8% CO2 ~0.2% N2/H20 ~1644.4%

Column(1) Flow: 0.70 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 128 volts using ion 502; Electron Multiplier Gain 8583.370

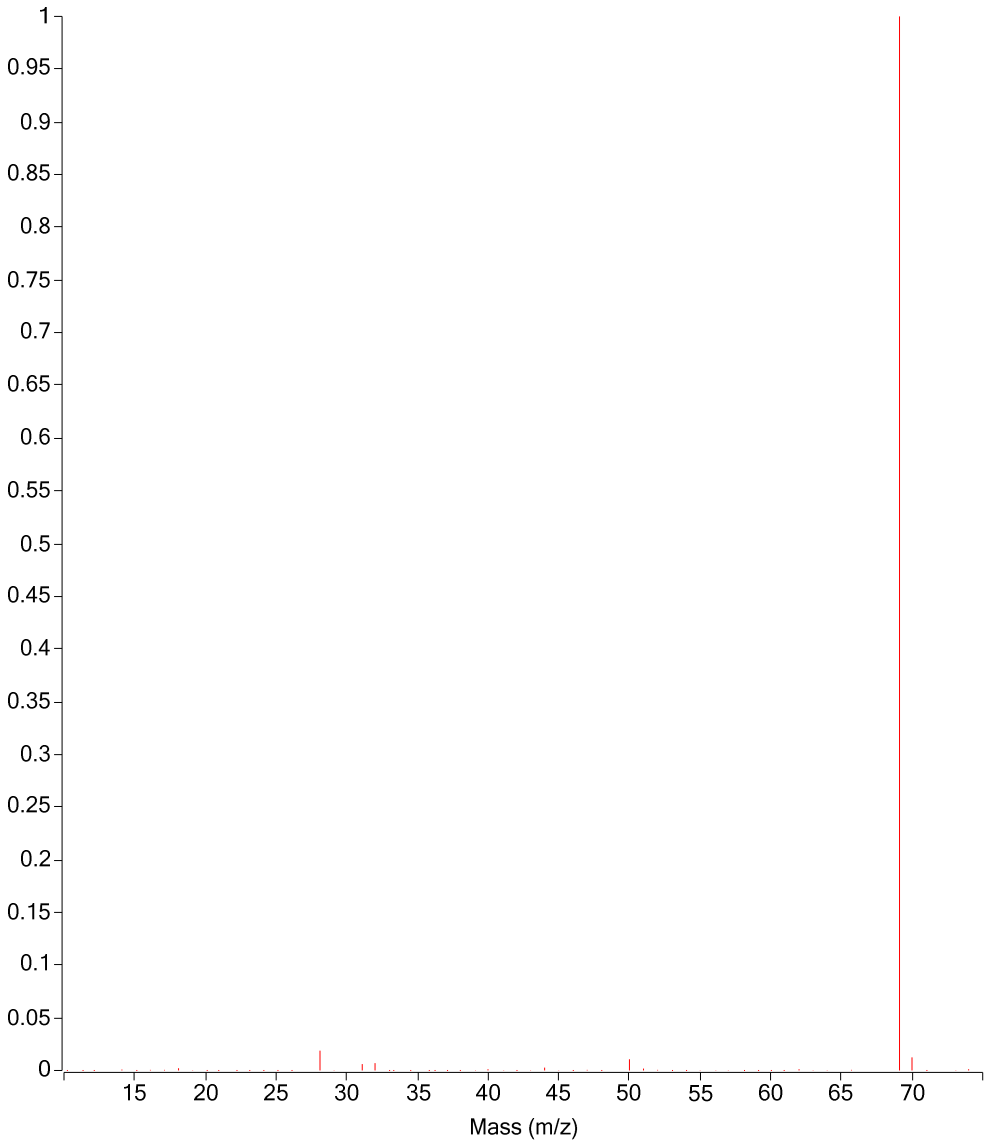
Repeller maximum 35 volts using ion 219; Gain Factor 0.0858

Mass Gain Values(Scan Speed): 97(3) 109(2) 121(1) 131(0) 175(FS1) 174(FS2) 174(FS3)

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	13.9	13.9	13.9	13.9	13.9	13.9	13.9

597x Air and Water Check

Instrument: GCMS #4
Wed Mar 26 10:23:06 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: HES_Atune.u

Relative abundances:

18/69 =	0.20	Water%	(counts=1282)
28/69 =	1.88	Nitrogen%	(counts=11808)
32/69 =	0.69	Oxygen%	(counts=4306)
44/69 =	0.26	Carbon Dioxide%	(counts=1658)
28/18 =	921.06	Nitrogen/Water%	

Instrument Name : GCMS #4
DC Polarity : Positive
Filament 1
Current Vacuum status :High Vacuum: 5.62E-06 Torr Turbo:100%

BasePeak should be 69 or 219		OK
Position of mass 69	69.00	OK
Position of mass 219	219.00	OK
Position of mass 502	502.00	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	220.00	OK
Position of isotope mass 503	503.00	OK
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.18	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.68	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	9.99	OK
Ratio of 219 to 69 should be > 40% and is	85.49	OK
Ratio of 502 to 69 should be > 2.4% and is	5.44	OK
Mass 69 Precursor (<= 3%)	0.53	OK
Mass 219 Precursor (<= 6%)	1.13	OK
Mass 502 Precursor (<= 12%)	2.17	OK

597x Air and Water Check
Wed Mar 26 10:38:47 2025 Instrument: GCMS #4
D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002

Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	0.15	OK
Ratio of 28 to 69 (<10%)	2.52	OK
Electron Multiplier Voltage	2218	OK

Tune portion of System Verification passed.

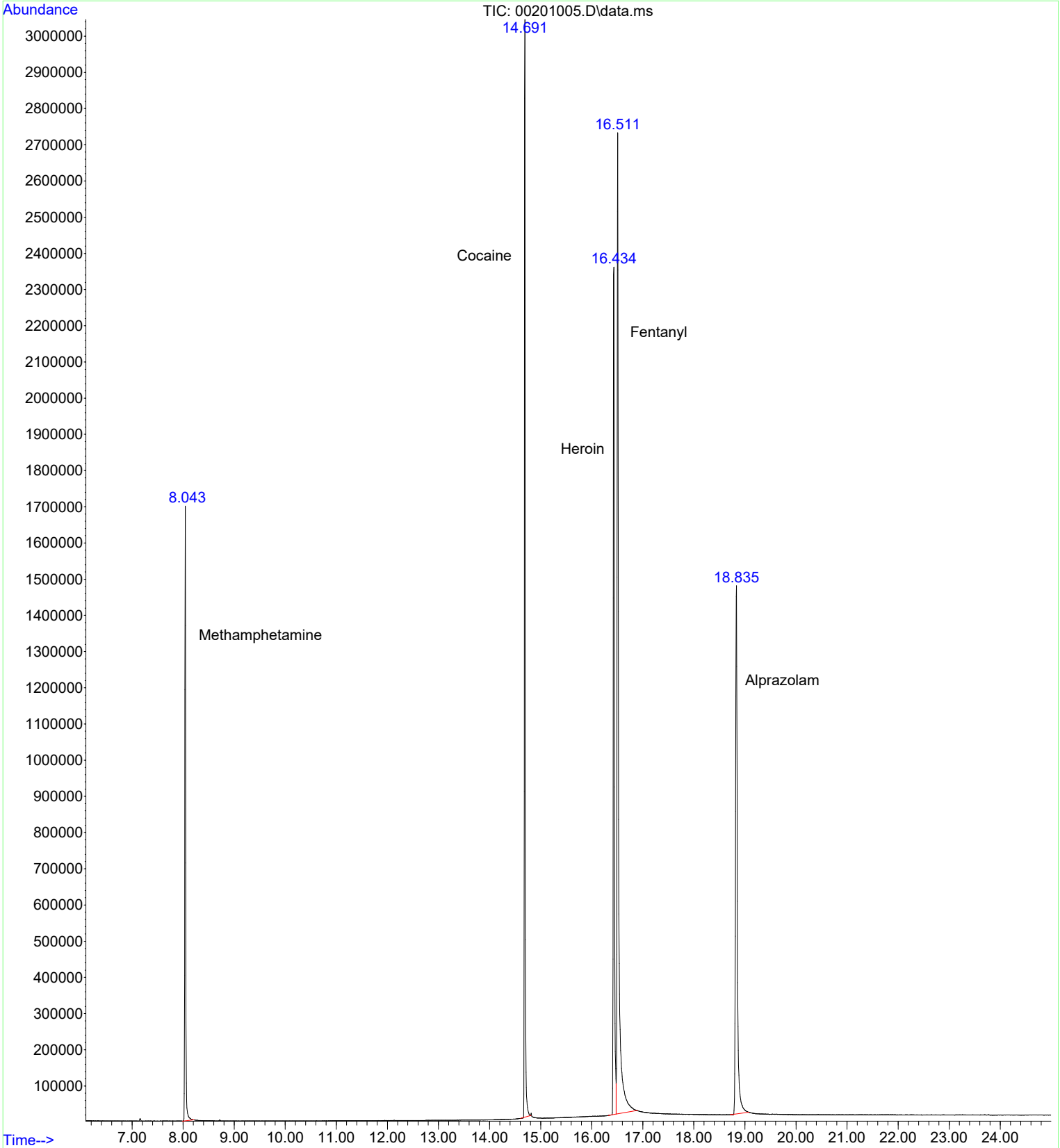
BCCL GC/MS #4
Retention Times for the Week of:

03/26/2025 - 03/30/2025

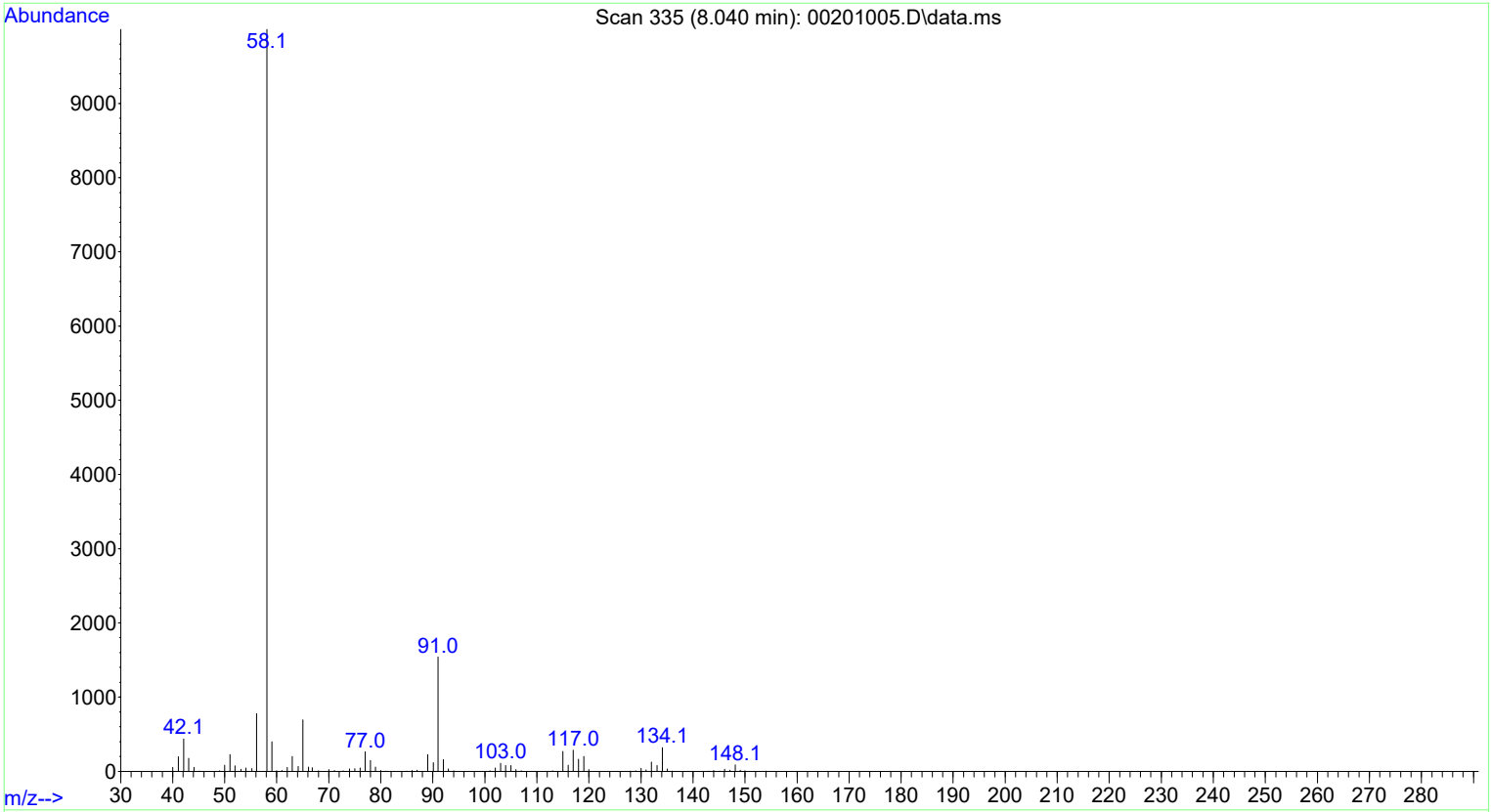
[X] **Tune:** DS **03/26/2025 - HES Autotune**

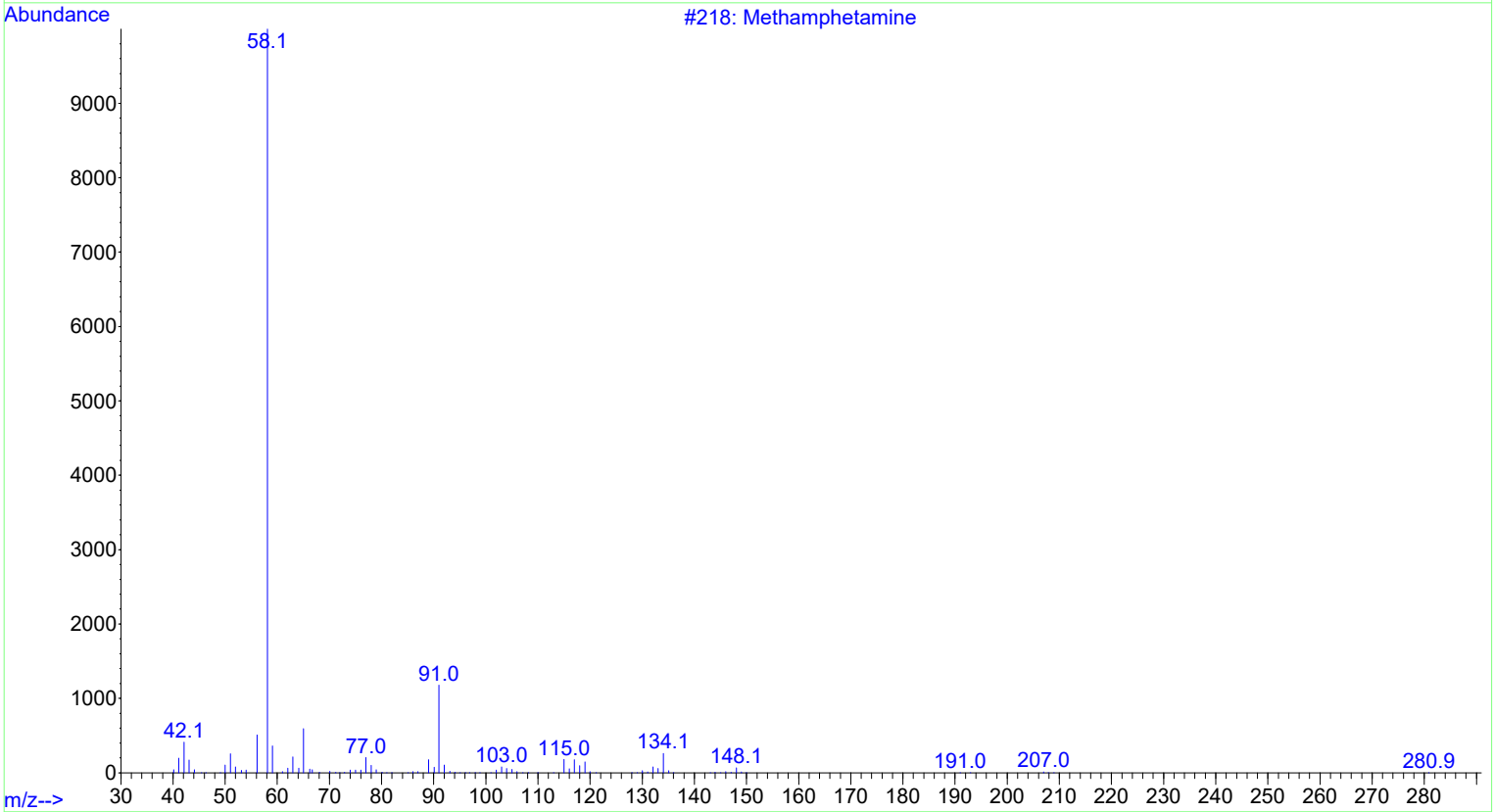
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35MS	8.043	7.962	8.123
Cocaine	R-24-060	DrugTest35MS	14.691	14.544	14.837
Heroin	R-24-060	DrugTest35MS	16.434	16.269	16.598
Fentanyl	R-24-060	DrugTest35MS	16.511	16.345	16.676
Alprazolam	R-24-060	DrugTest35MS	18.835	18.646	19.023

File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\032625\00201005.D
Acquired : 26 Mar 2025 12:15 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2

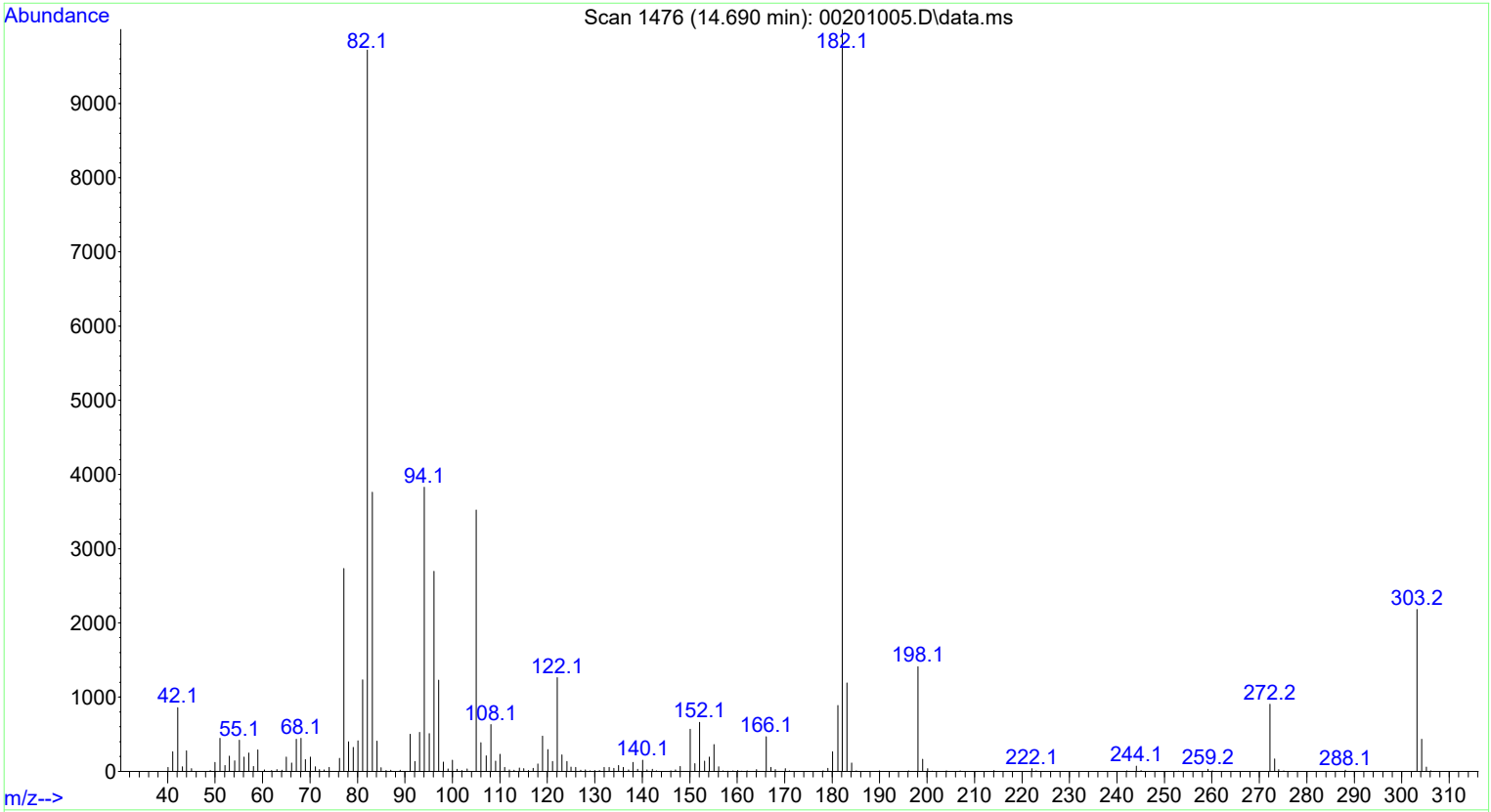


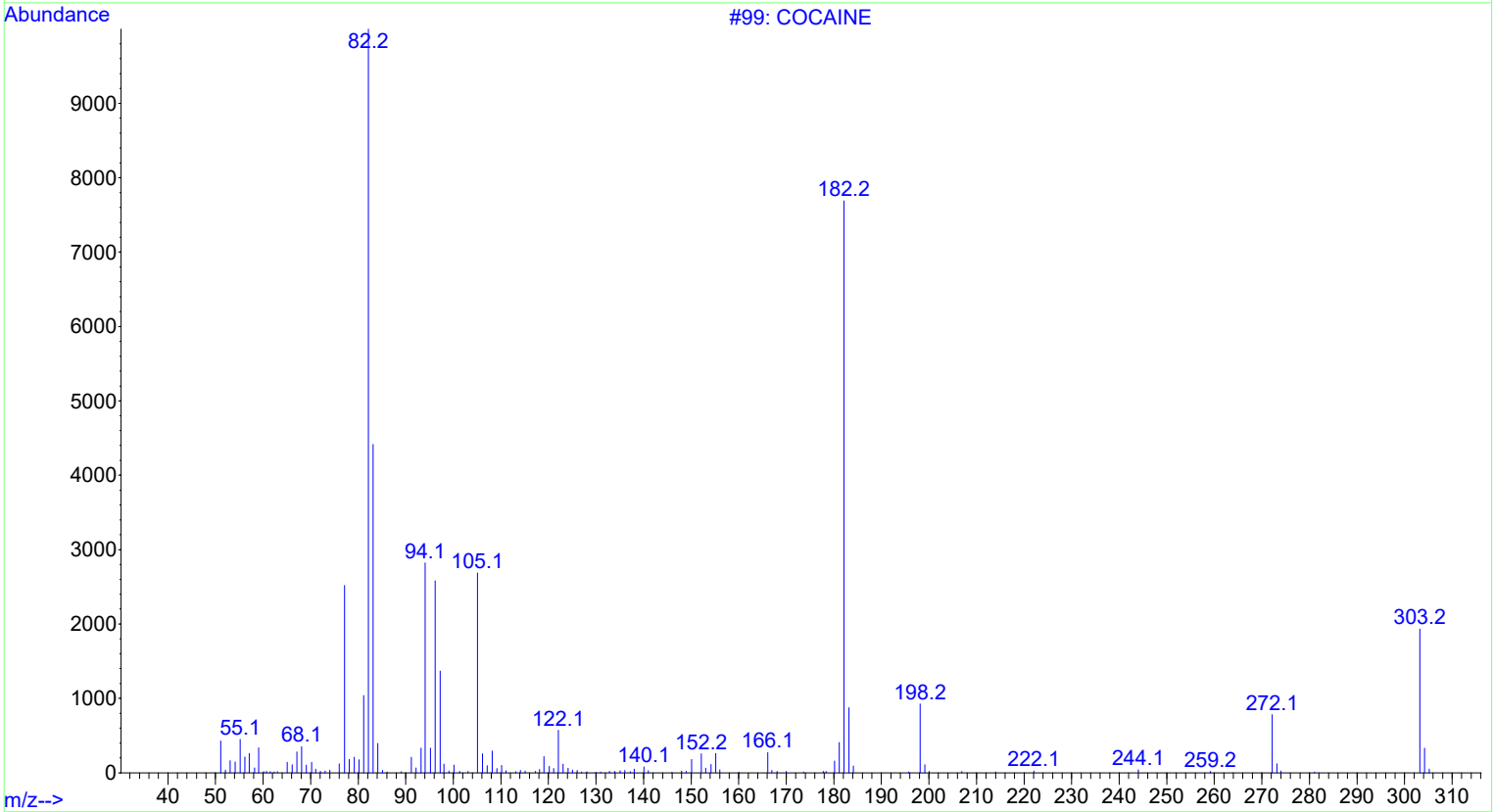
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File       :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
...         2025 Data\032625\00201005.D
Acquired   : 26 Mar 2025  12:15     using AcqMethod DrugTest35MS.M
Instrument :   GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060)                  000002669
Misc Info  : in ACN                                         000002669
Vial Number: 2
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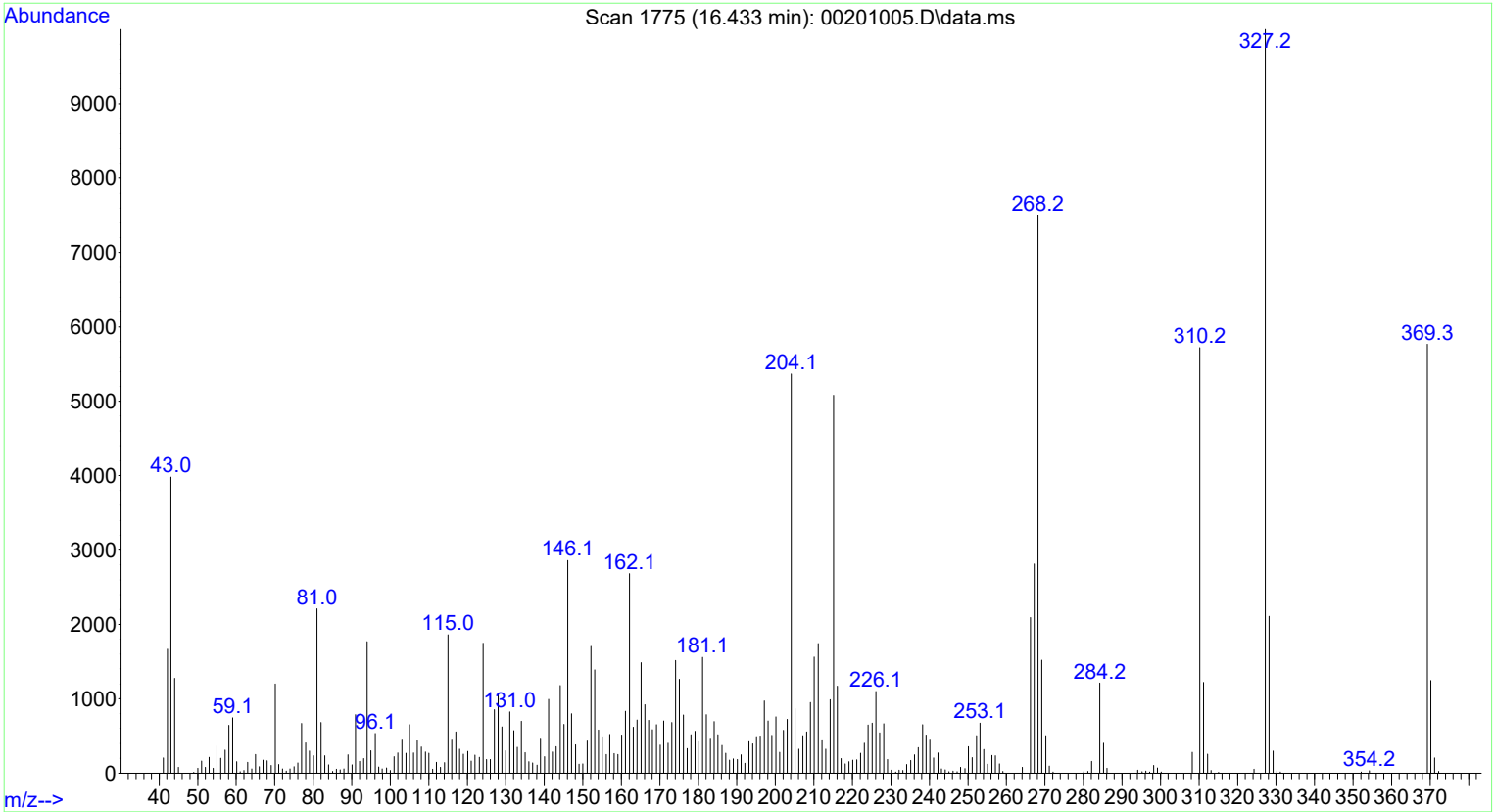


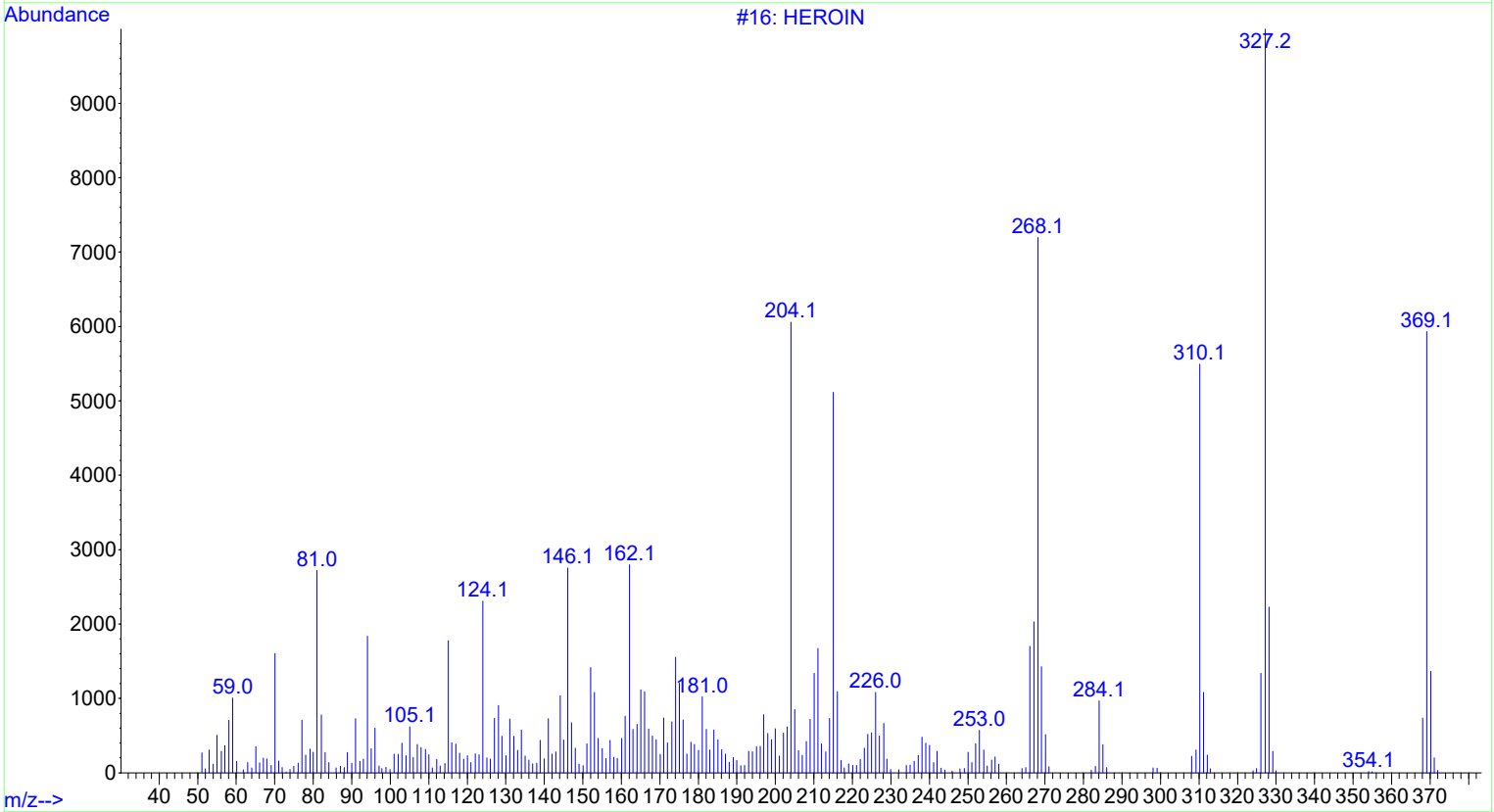
File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\032625\00201005.D
Acquired : 26 Mar 2025 12:15 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



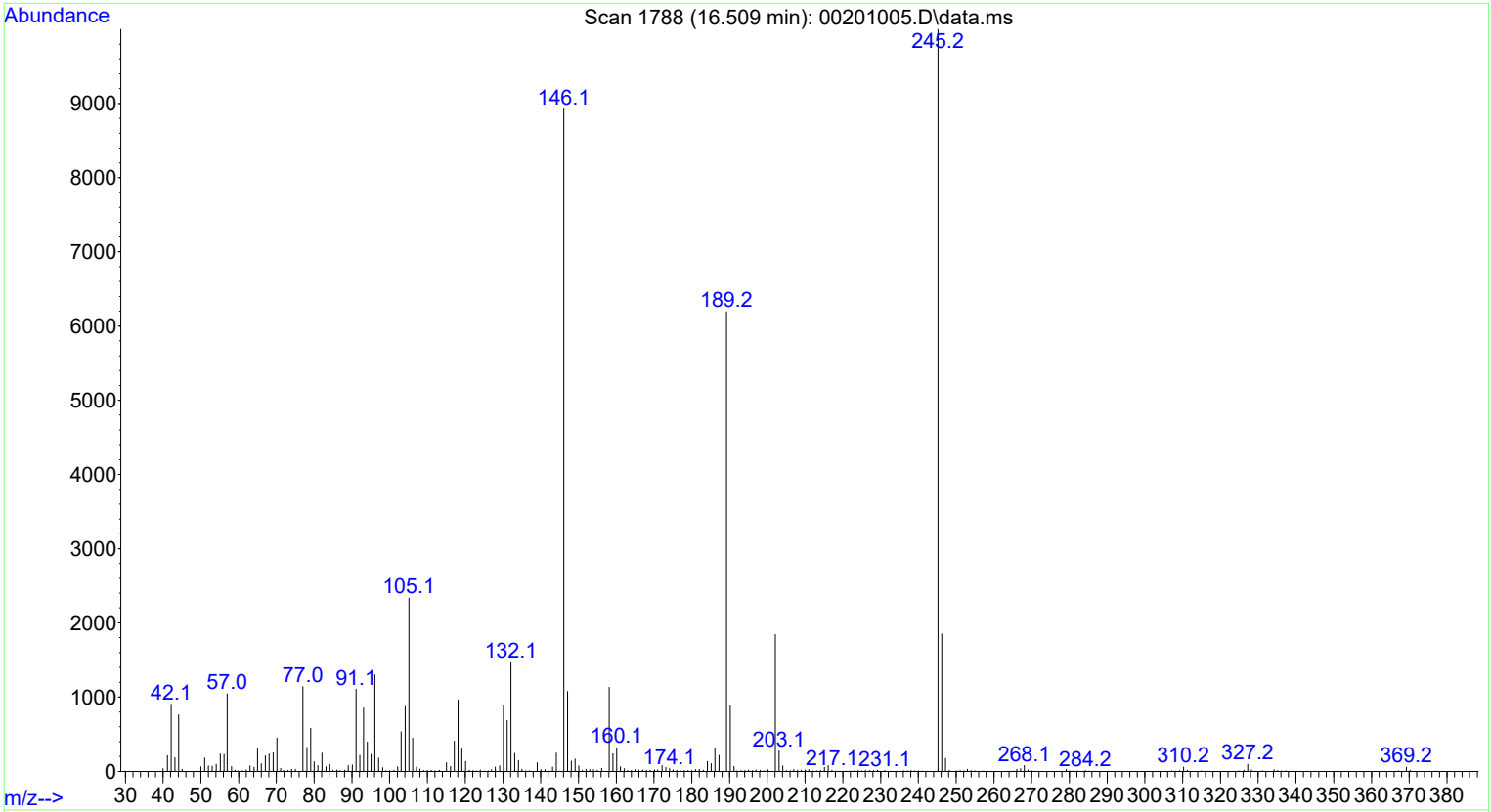


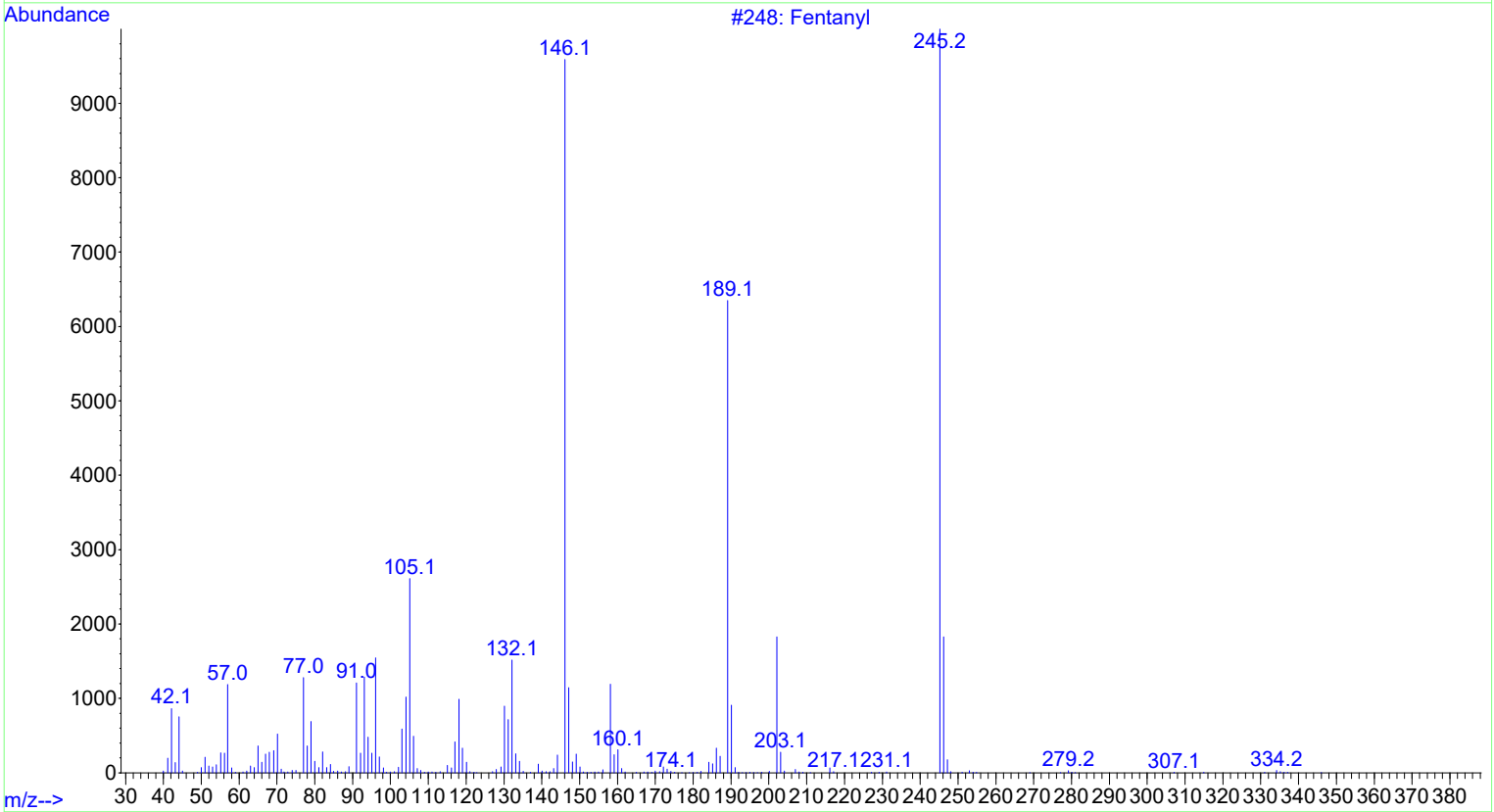
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File       :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
...         2025 Data\032625\00201005.D
Acquired   : 26 Mar 2025  12:15     using AcqMethod DrugTest35MS.M
Instrument :   GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060)                  000002669
Misc Info  : in ACN                                         000002669
Vial Number: 2
```



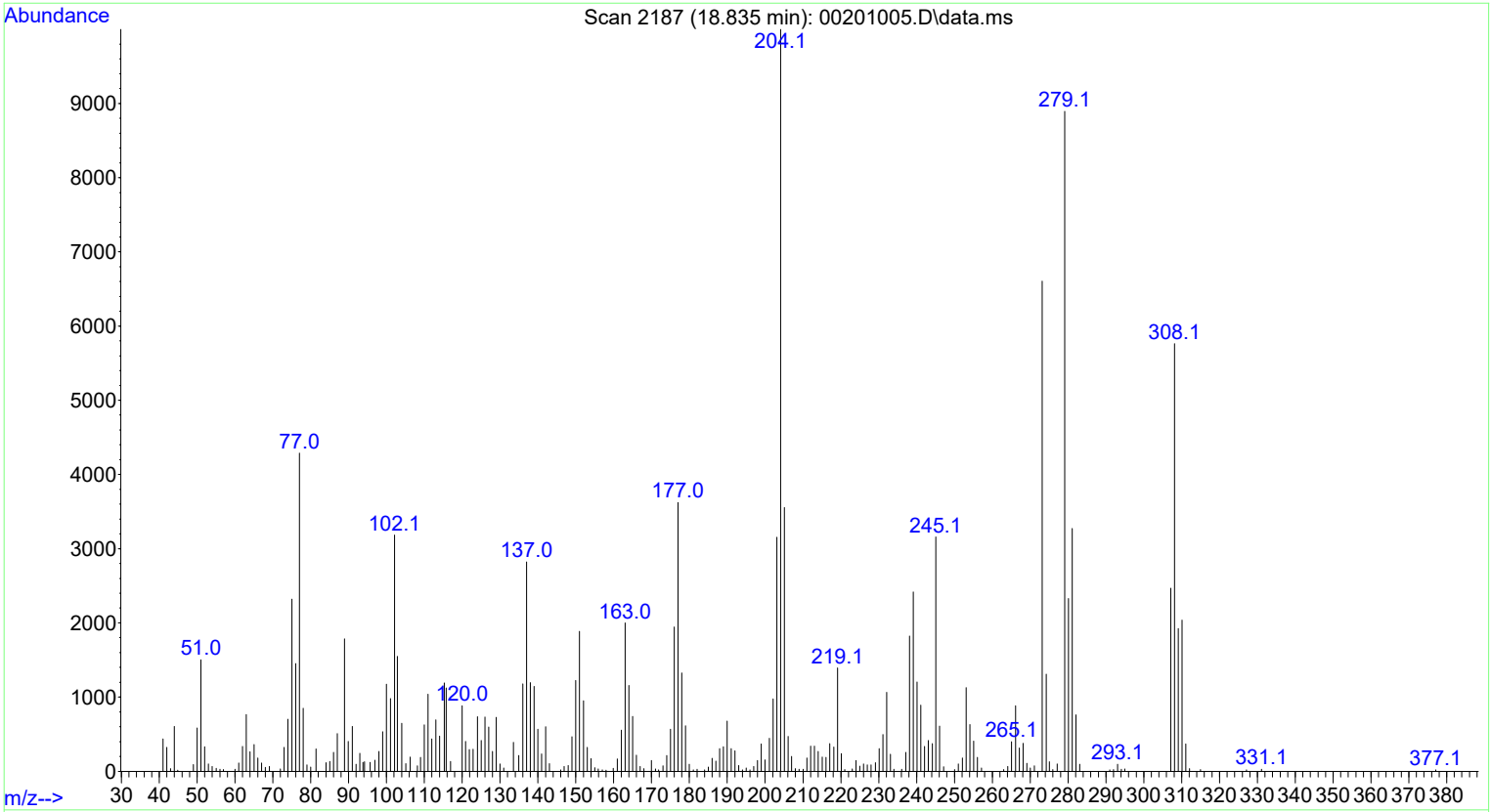


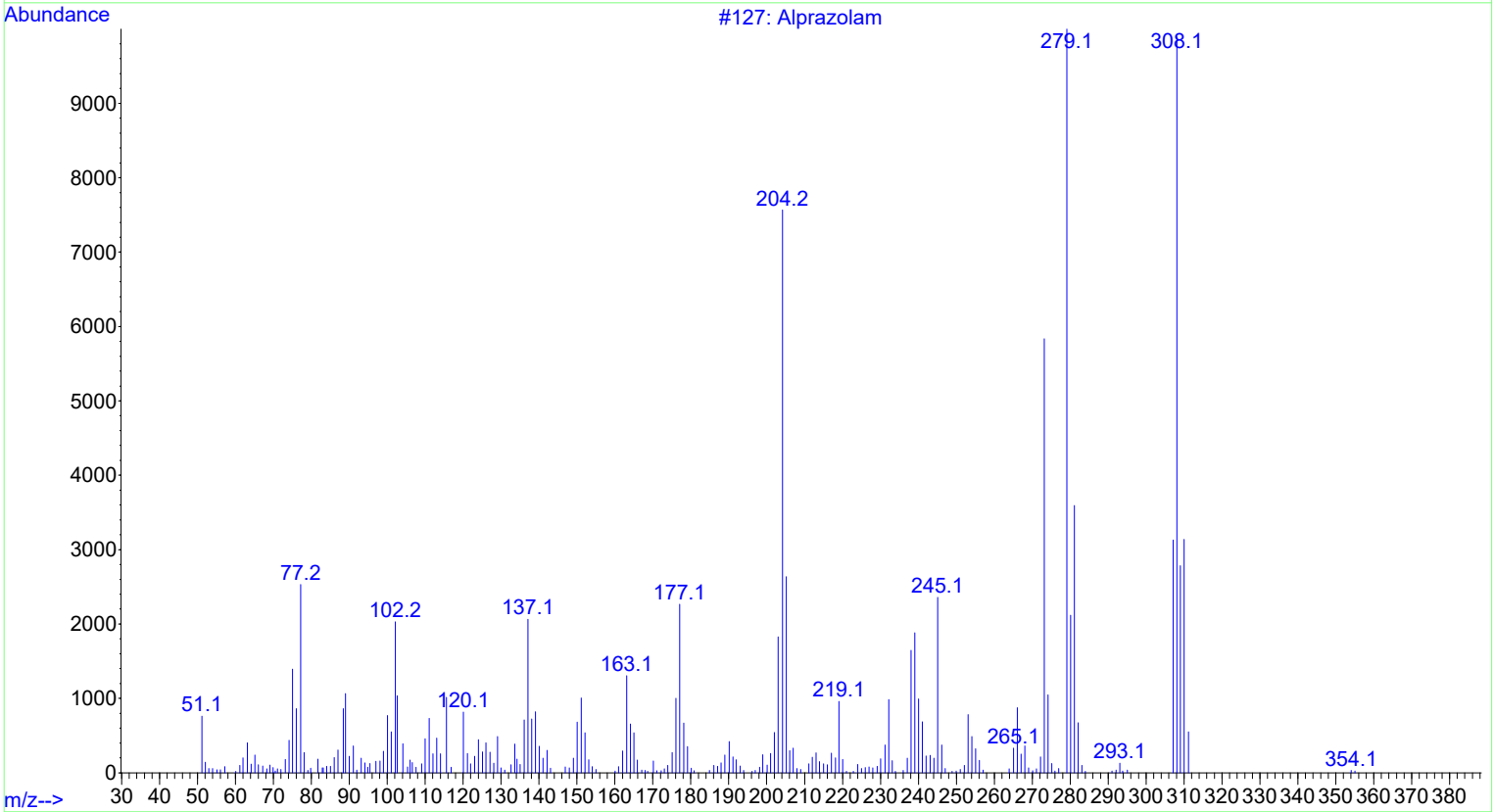
File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\032625\00201005.D
Acquired : 26 Mar 2025 12:15 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



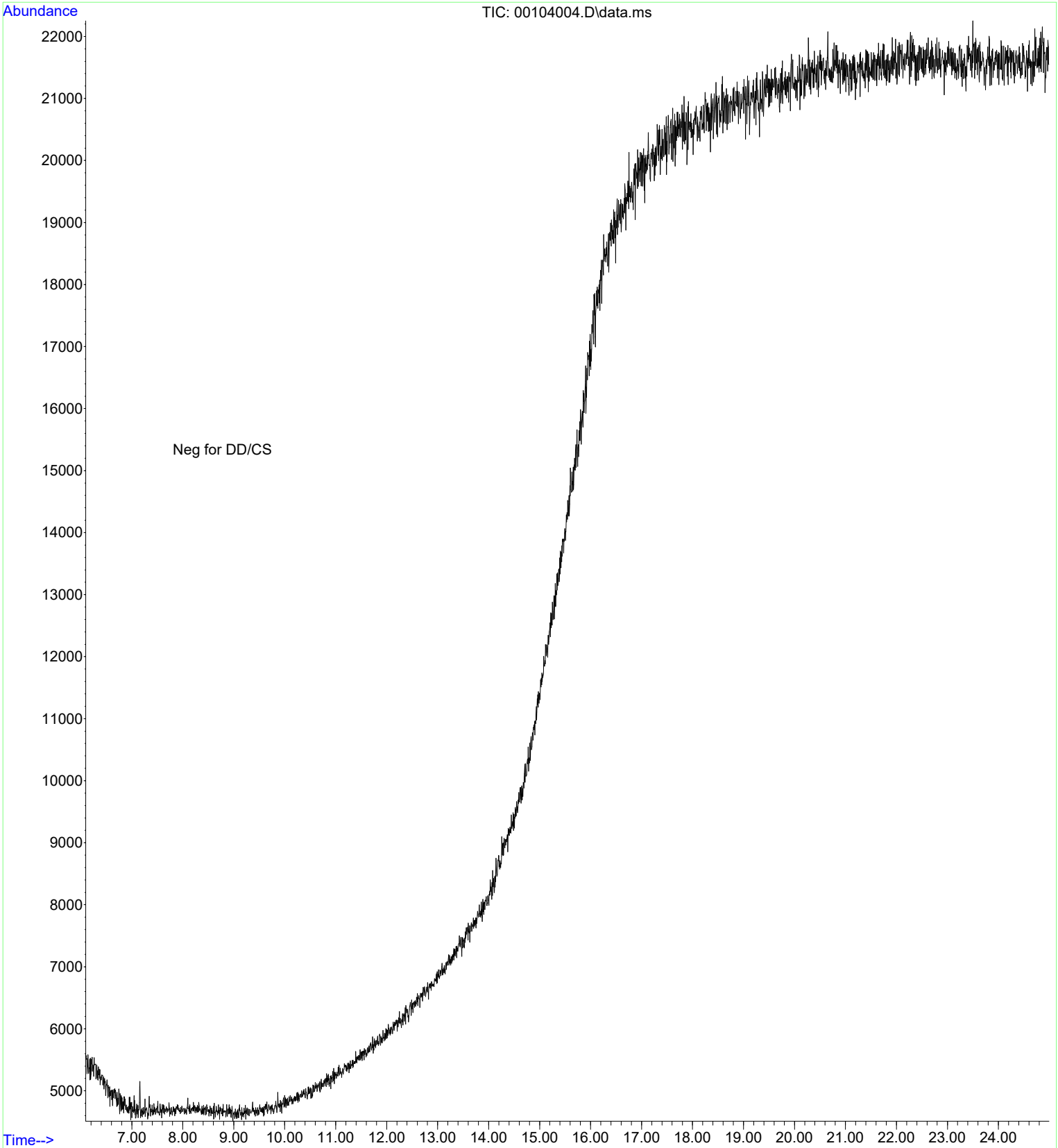


File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\032625\00201005.D
Acquired : 26 Mar 2025 12:15 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2

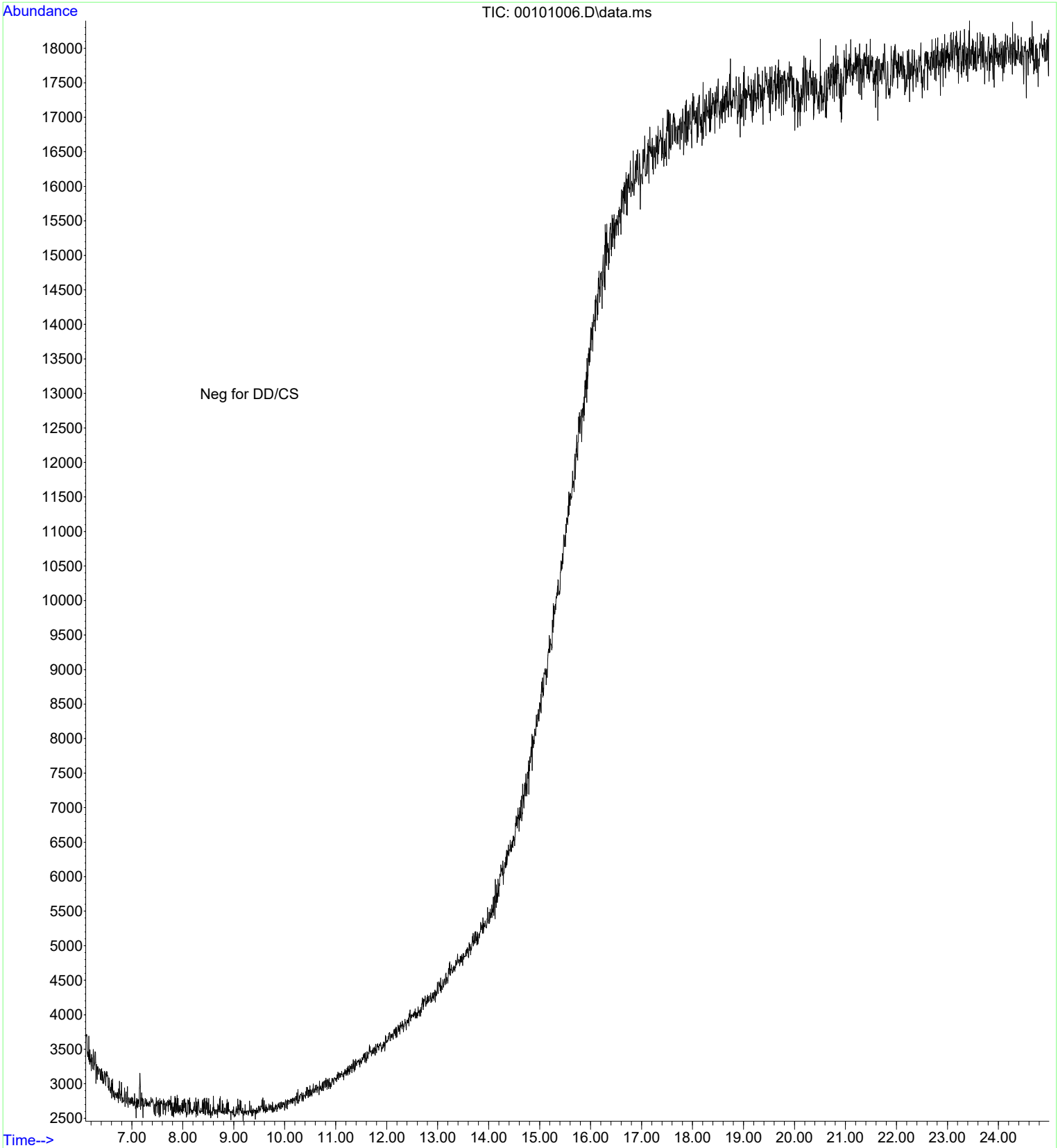




File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\032625\00104004.D
Acquired : 26 Mar 2025 11:46 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: BLANK (C-19-0068) prior to Cayman GC/MS mix 3 (R-24-060) 000002668
Misc Info : ACN 000002668
Vial Number: 1



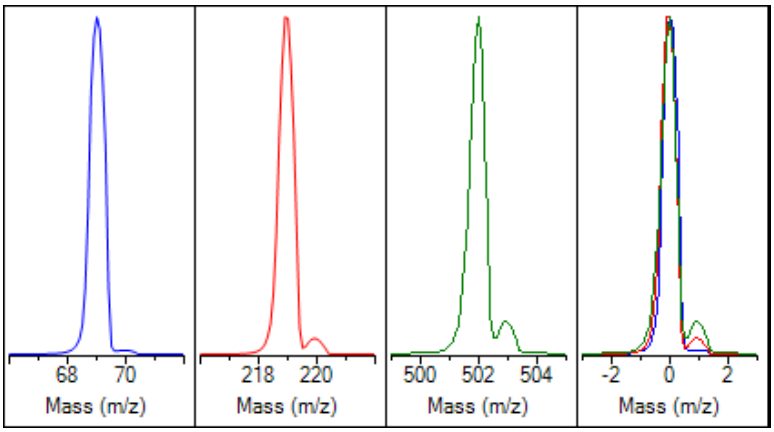
File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\032625\00101006.D
Acquired : 26 Mar 2025 12:43 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Blank (C-19-0068) - Instrument ready 000002668
Misc Info : ACN 000002668
Vial Number: 1



High Efficiency Source Autotune - 5977

Tune timestamp: 3/31/2025 8:29 AM (UTC-05:00) GCMS #4

D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002



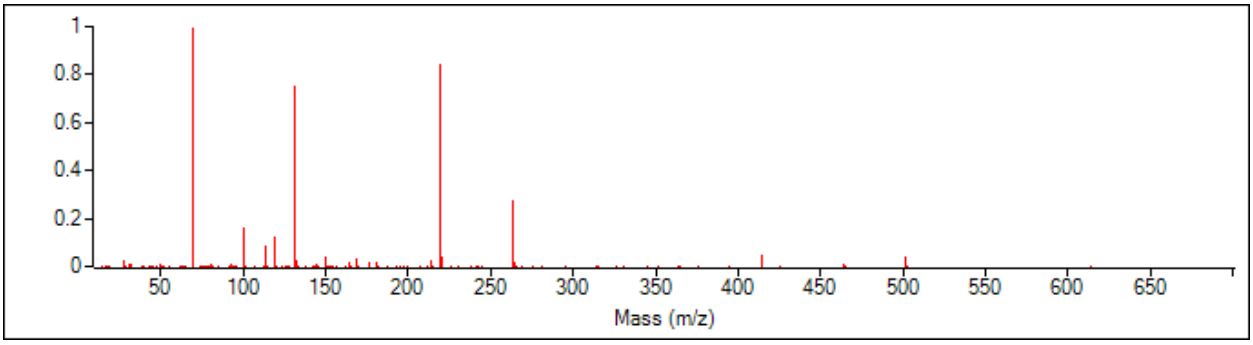
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	79
Electron Energy	70.0	Mass Offset	-27
Filament	1	Amu Gain	2452
Repeller	13.15	Amu Offset	136.56
Ion Focus	149.6	Width219	0.001
Entrance Lens	10.1	DC Polarity	Pos
Ent Lens Offset	13.90	HED Enable	On
Ion Body	5.00	EM Volts	2178.0
Post Extractor 1	11	Extractor Lens	13.60
Post Extractor 2	31	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	482,145	100.0%	0.61
218.90	409,472	84.9%	0.61
502.00	22,537	4.7%	0.60

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	8.38e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	118	69.00	456,256	1,720,149



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	456,256	100.0%	70.00	5,530	1.2%
219.00	219.00	384,256	84.2%	220.00	17,944	4.7%
502.00	502.00	19,704	4.3%	503.00	2,217	11.3%

Air/Water Check: H20 ~0.1% N2 ~2.3% O2 ~0.7% CO2 ~0.1% N2/H20 ~1616.0%

Column(1) Flow: 0.70 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 128 volts using ion 502; Electron Multiplier Gain 11488.385

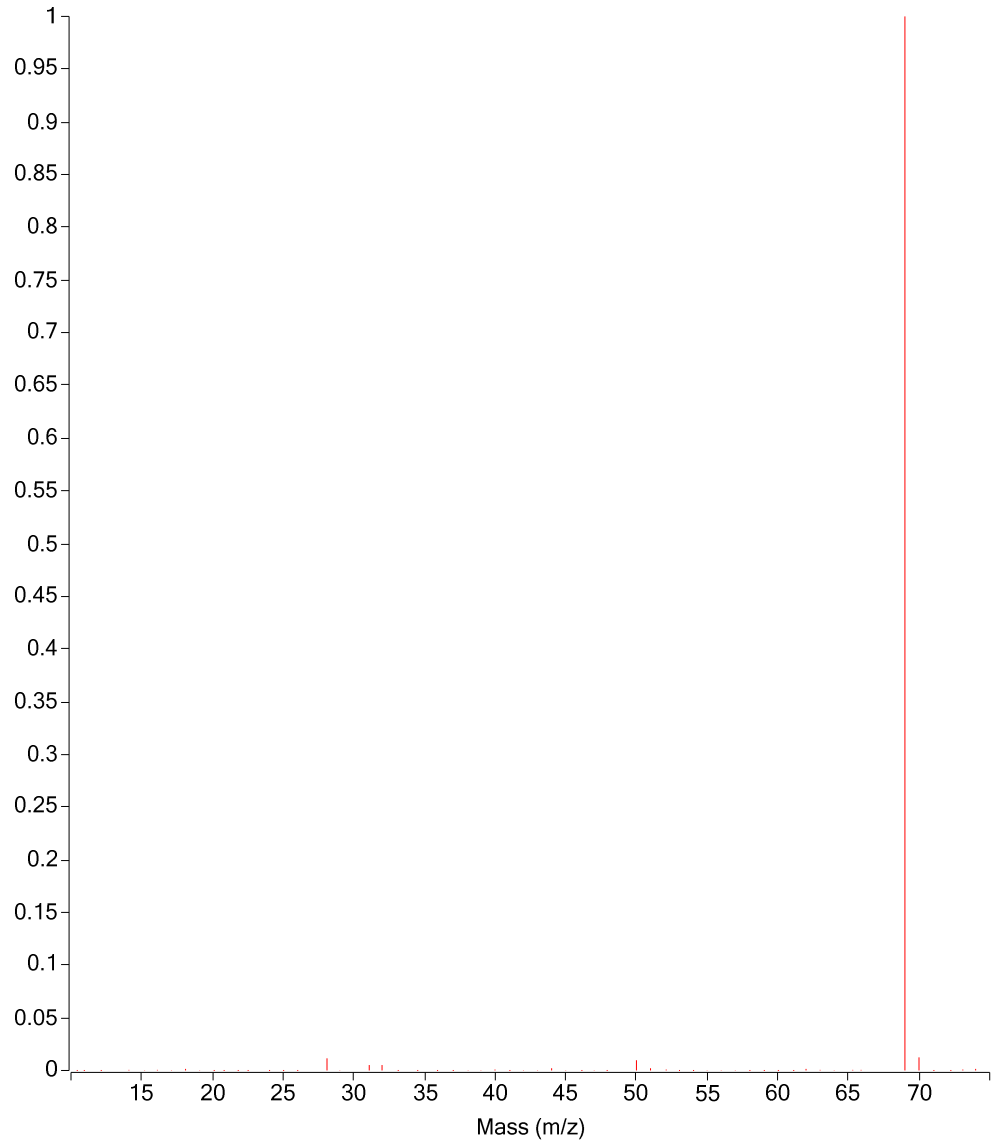
Repeller maximum 35 volts using ion 219; Gain Factor 0.1149

Mass Gain Values(Scan Speed): 88(3) 92(2) 98(1) 113(0) 165(FS1) 164(FS2) 143(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	136.6	136.6	136.6	136.6	136.6	136.6	136.6
Entrance Lens Offset	13.9	13.9	13.9	13.9	13.9	13.9	13.9

597x Air and Water Check

Instrument: GCMS #4
Mon Mar 31 08:19:28 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: HES_Atune.u

Relative abundances:

18/69 =	0.14	Water%	(counts=1173)
28/69 =	1.17	Nitrogen%	(counts=9448)
32/69 =	0.52	Oxygen%	(counts=4202)
44/69 =	0.22	Carbon Dioxide%	(counts=1784)
28/18 =	805.46	Nitrogen/Water%	

Instrument Name : GCMS #4
DC Polarity : Positive
Filament 1
Current Vacuum status :High Vacuum: 5.78E-06 Torr Turbo:100%

BasePeak should be 69 or 219		OK
Position of mass 69	69.00	OK
Position of mass 219	219.00	OK
Position of mass 502	502.00	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	220.00	OK
Position of isotope mass 503	503.00	OK
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.20	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.63	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.26	OK
Ratio of 219 to 69 should be > 40% and is	86.45	OK
Ratio of 502 to 69 should be > 2.4% and is	4.77	OK
Mass 69 Precursor (<= 3%)	0.82	OK
Mass 219 Precursor (<= 6%)	2.14	OK
Mass 502 Precursor (<= 12%)	4.81	OK

597x Air and Water Check
Mon Mar 31 08:33:37 2025 Instrument: GCMS #4
D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002

Testing for a leak in the system

Ratio of 18 to 69 (<20%)	0.13	OK
Ratio of 28 to 69 (<10%)	2.24	OK
Electron Multiplier Voltage	2178	OK

Tune portion of System Verification passed.

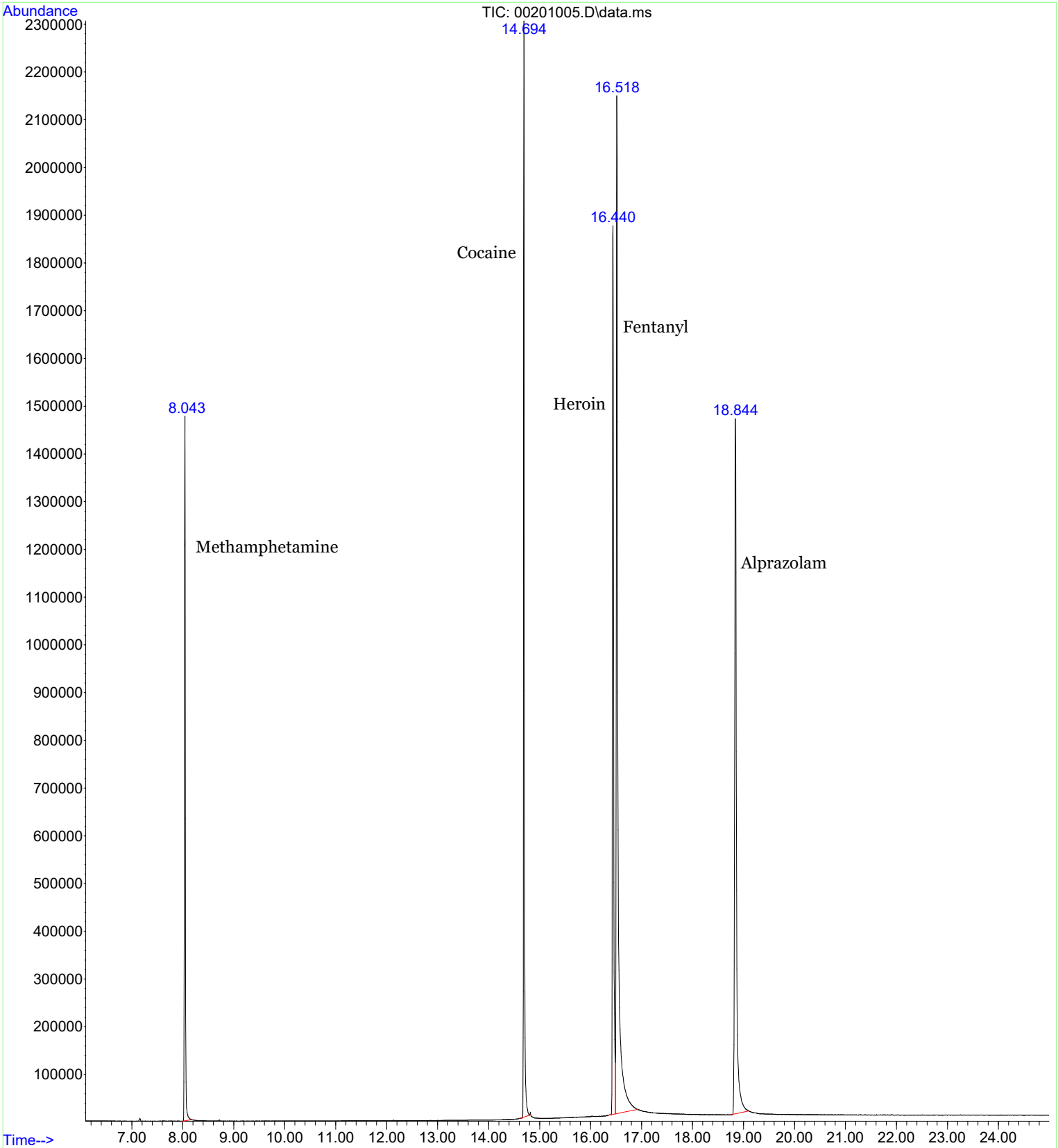
BCCL GC/MS #4
Retention Times for the Week of:

03/31/2025 - 04/06/2025

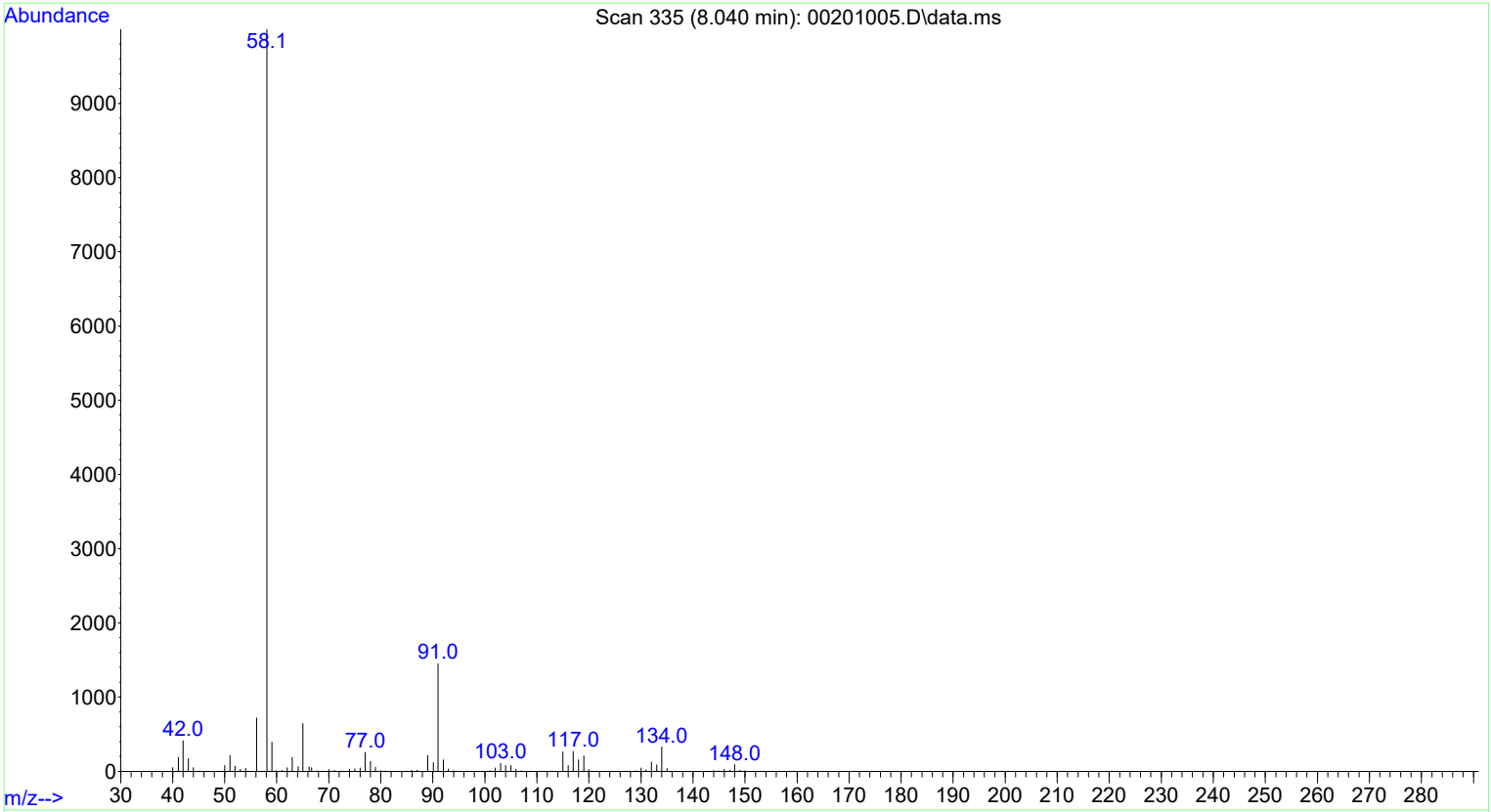
[X] **Tune:** DS **03/31/2025 - HES Autotune**

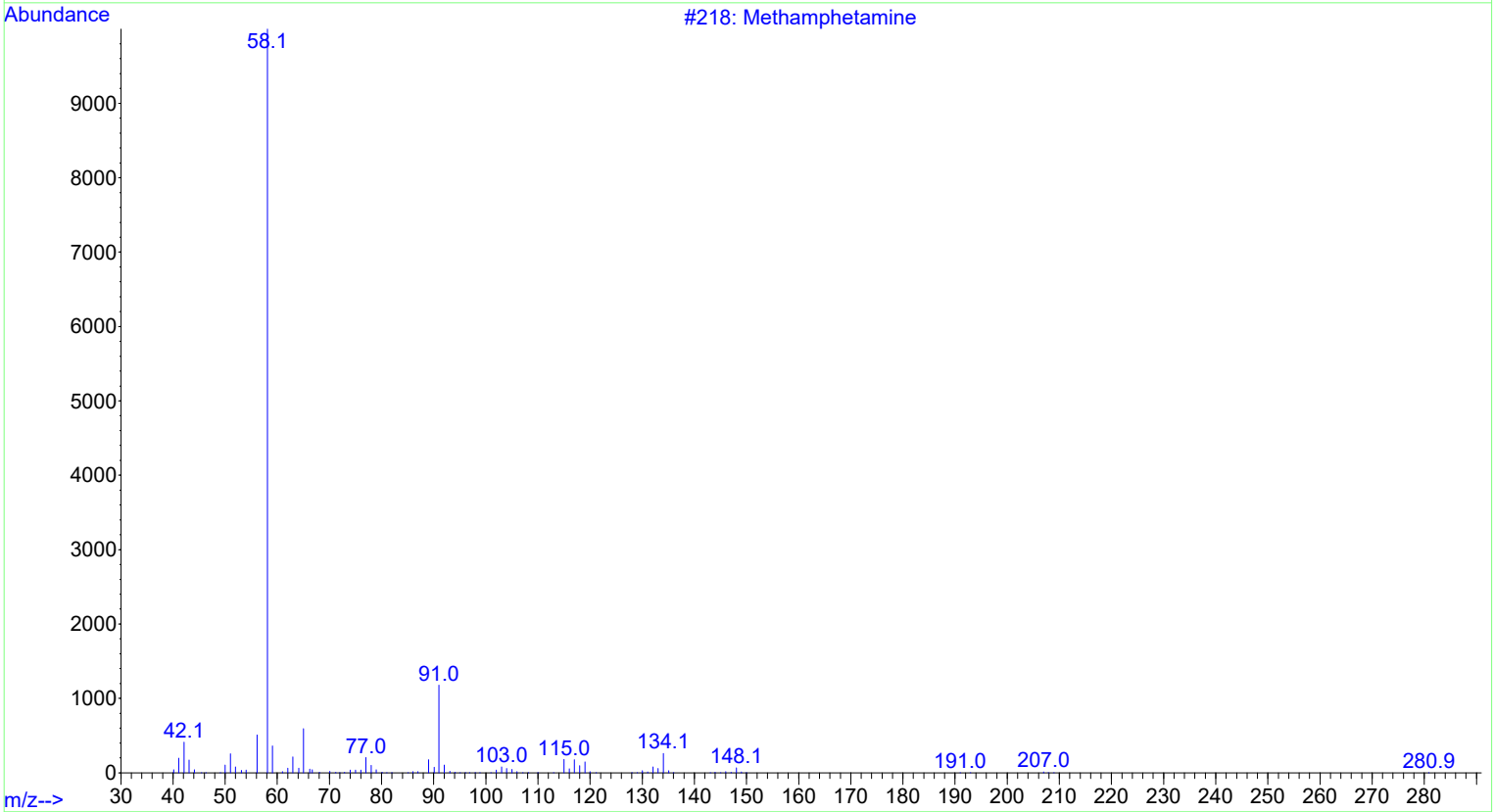
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35MS	8.043	7.962	8.123
Cocaine	R-24-060	DrugTest35MS	14.694	14.547	14.840
Heroin	R-24-060	DrugTest35MS	16.440	16.275	16.604
Fentanyl	R-24-060	DrugTest35MS	16.518	16.352	16.683
Alprazolam	R-24-060	DrugTest35MS	18.844	18.655	19.032

File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\033125\00201005.D
Acquired : 31 Mar 2025 10:29 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2

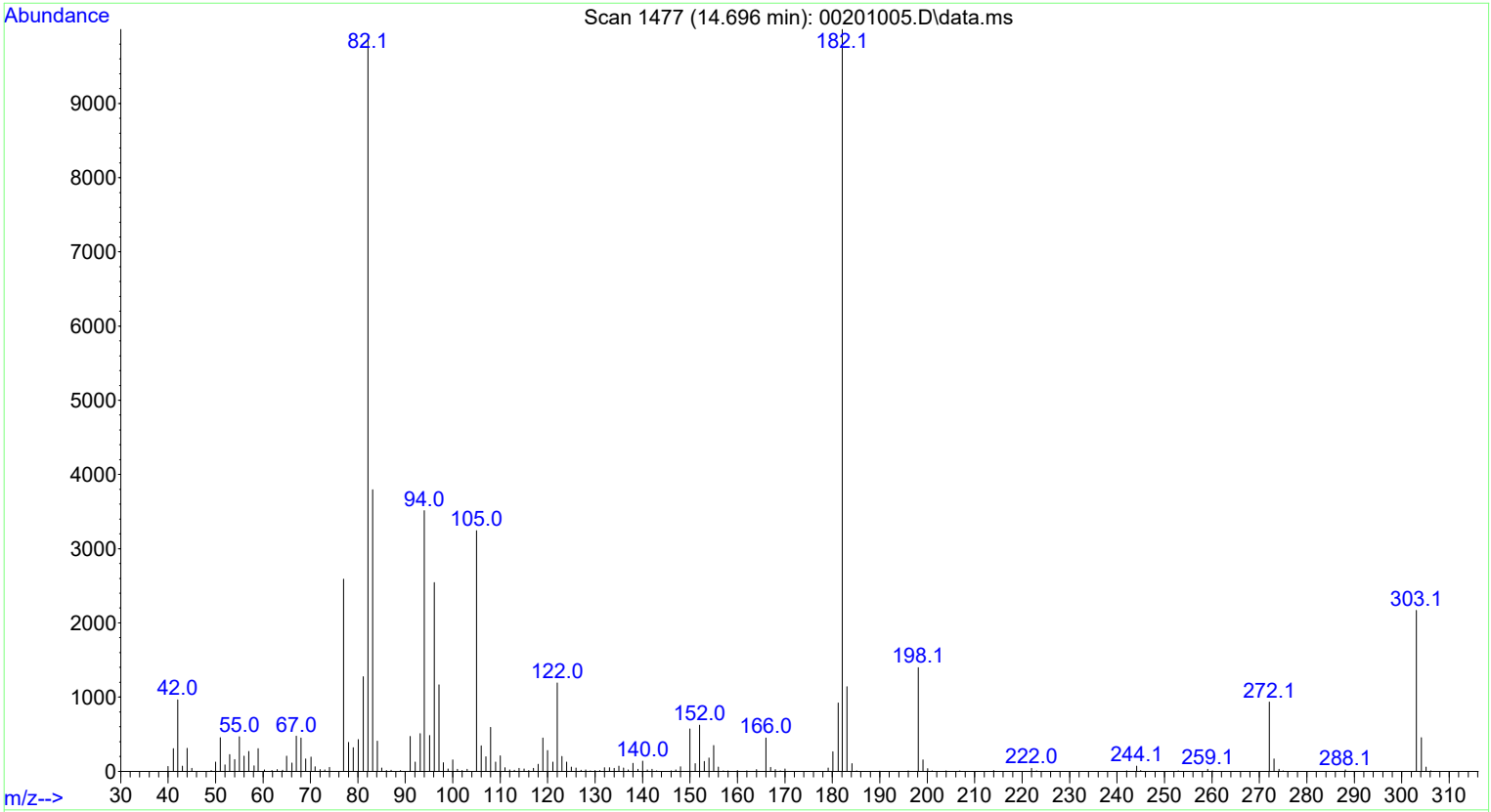


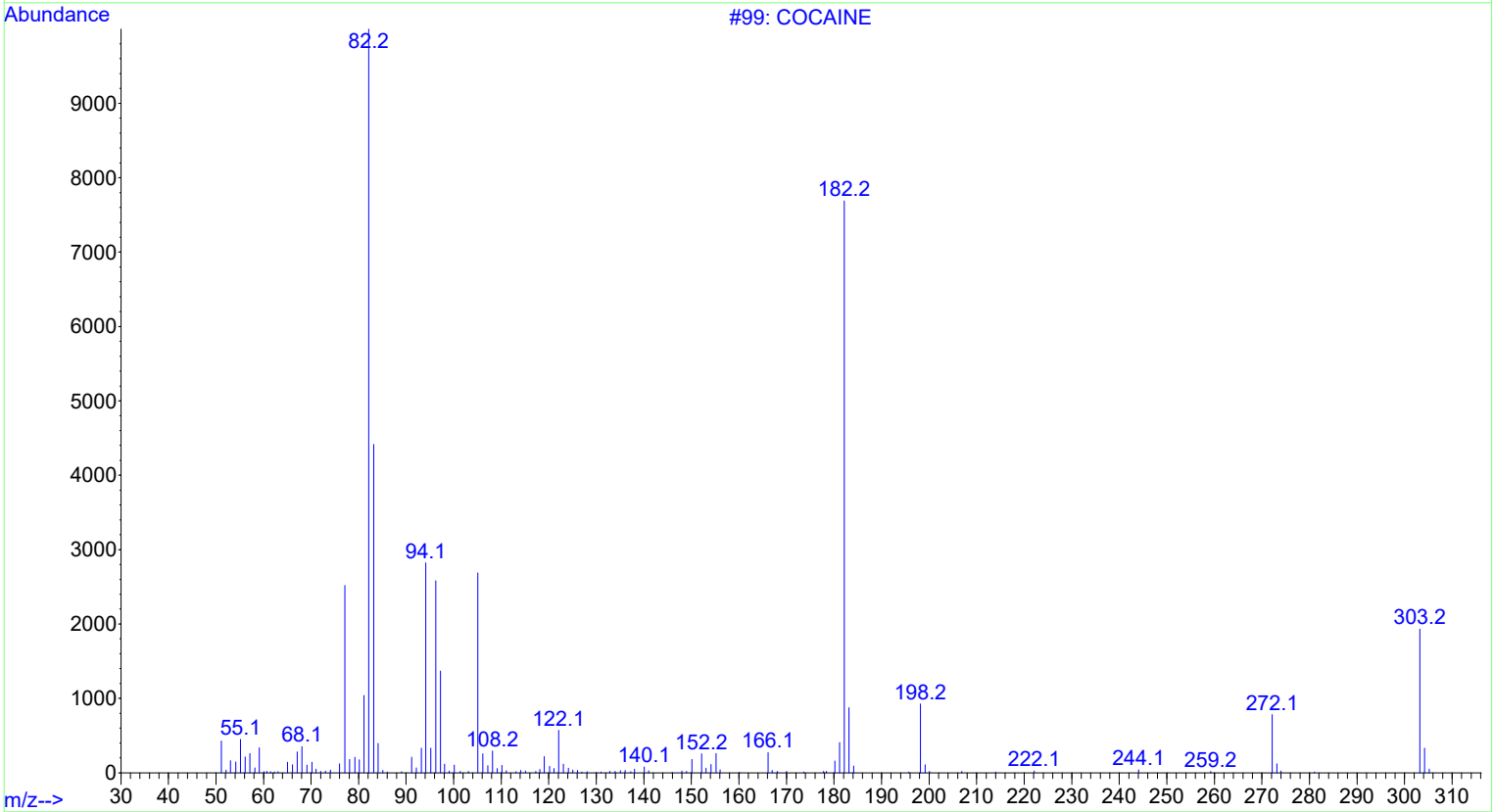
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Acquired   : 31 Mar 2025  10:29     using AcqMethod DrugTest35MS.M
Instrument :   GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060)                  000002669
Misc Info  : in ACN                                         000002669
Vial Number: 2
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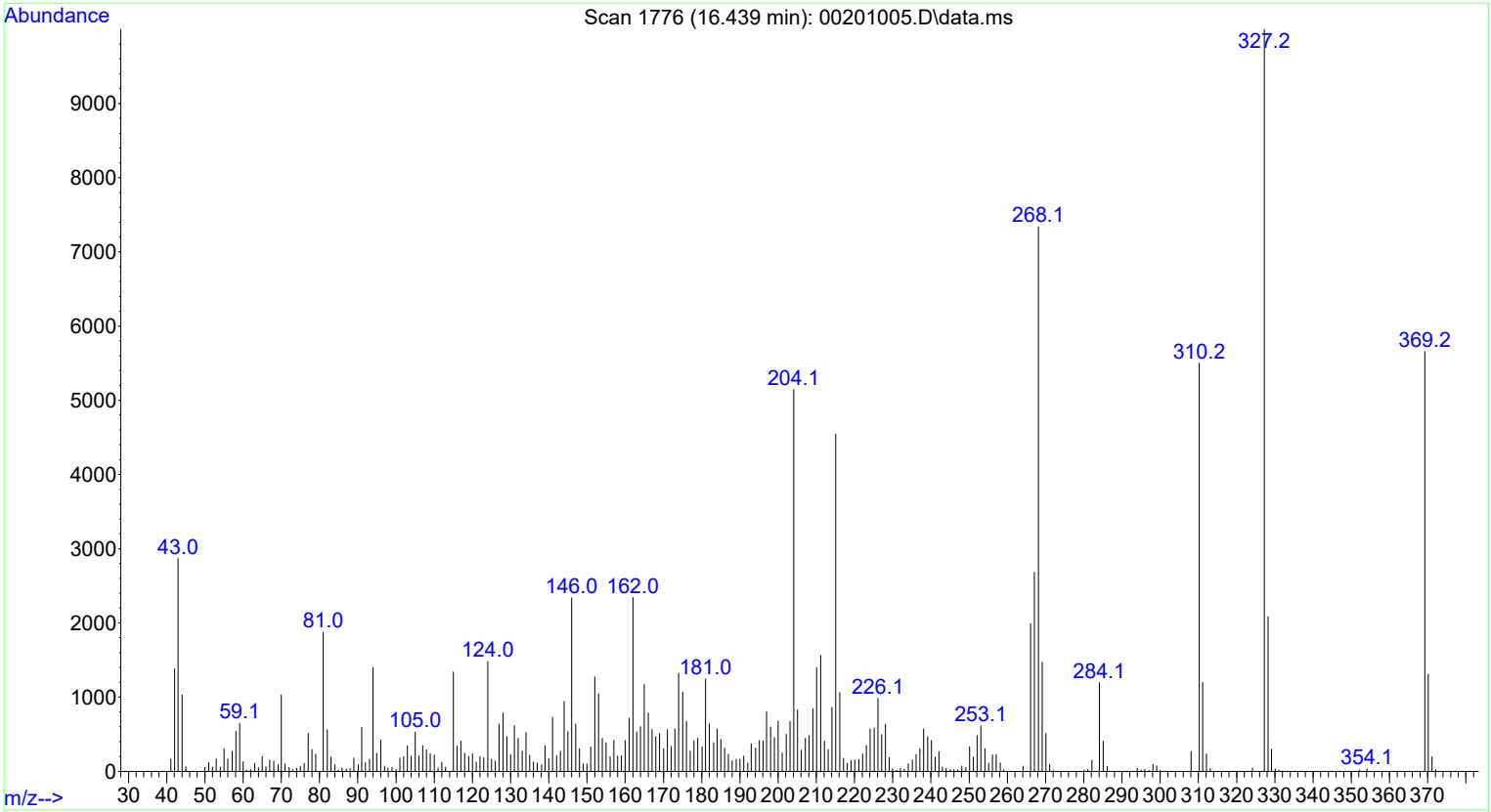


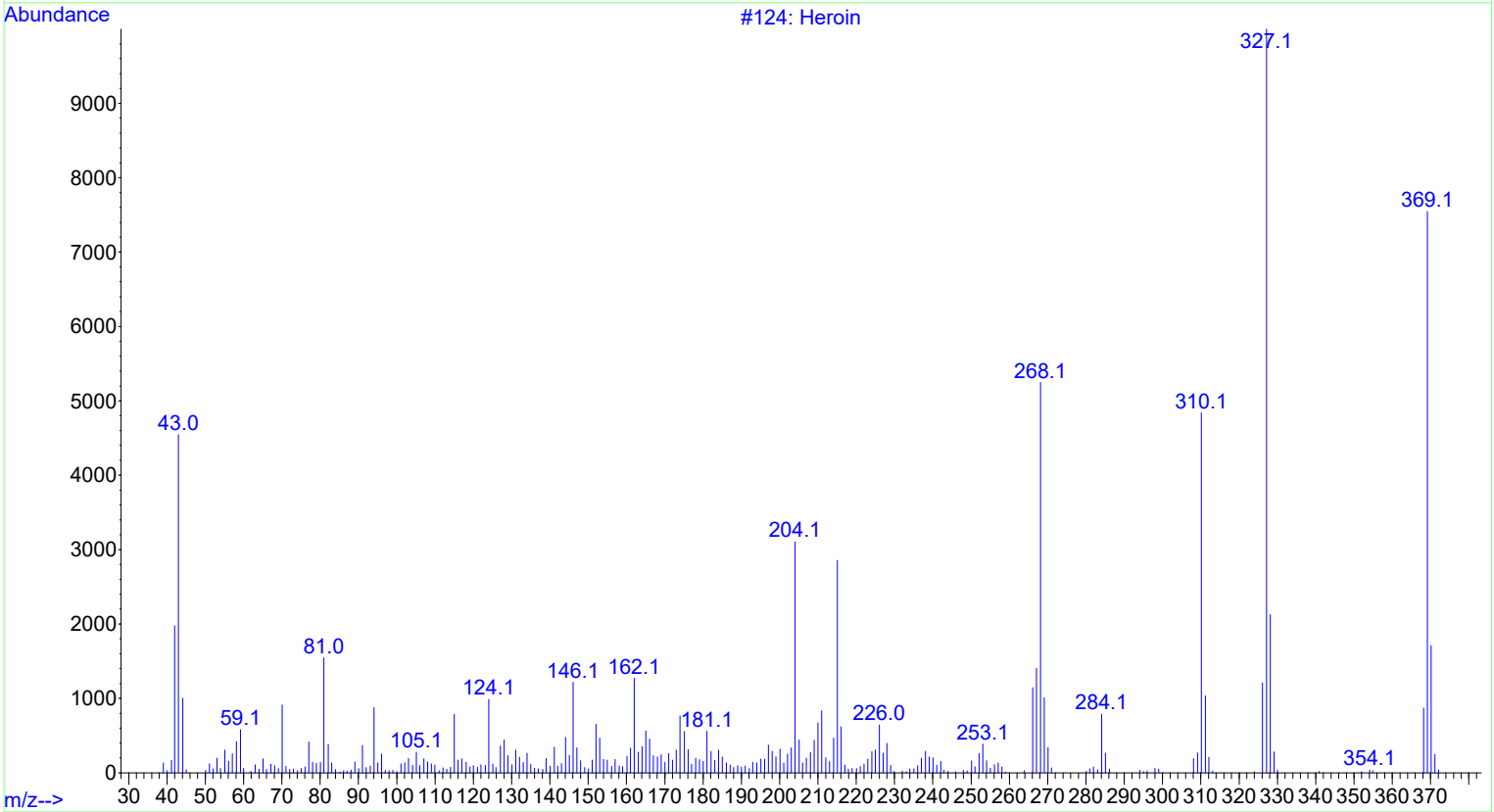
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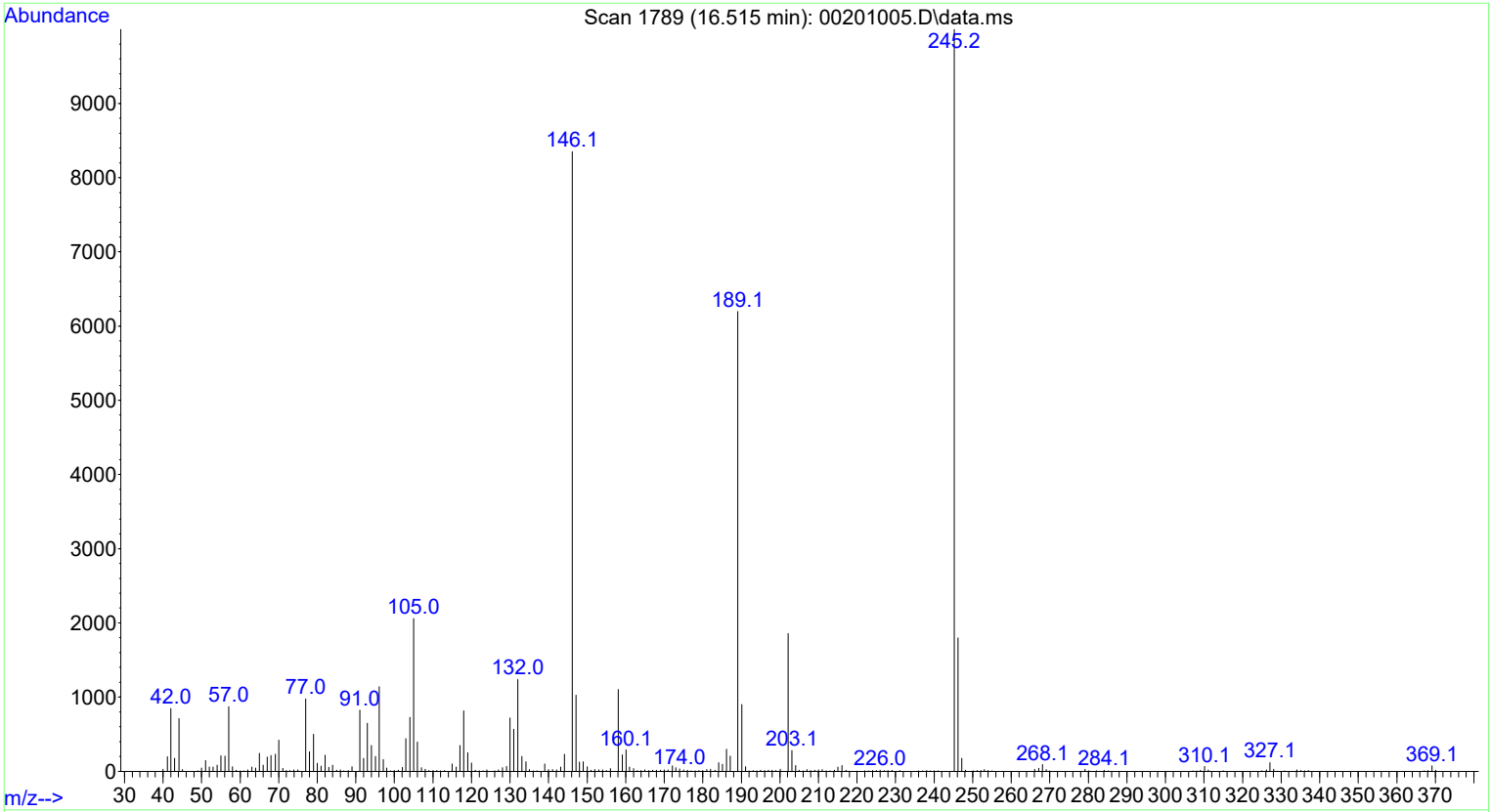


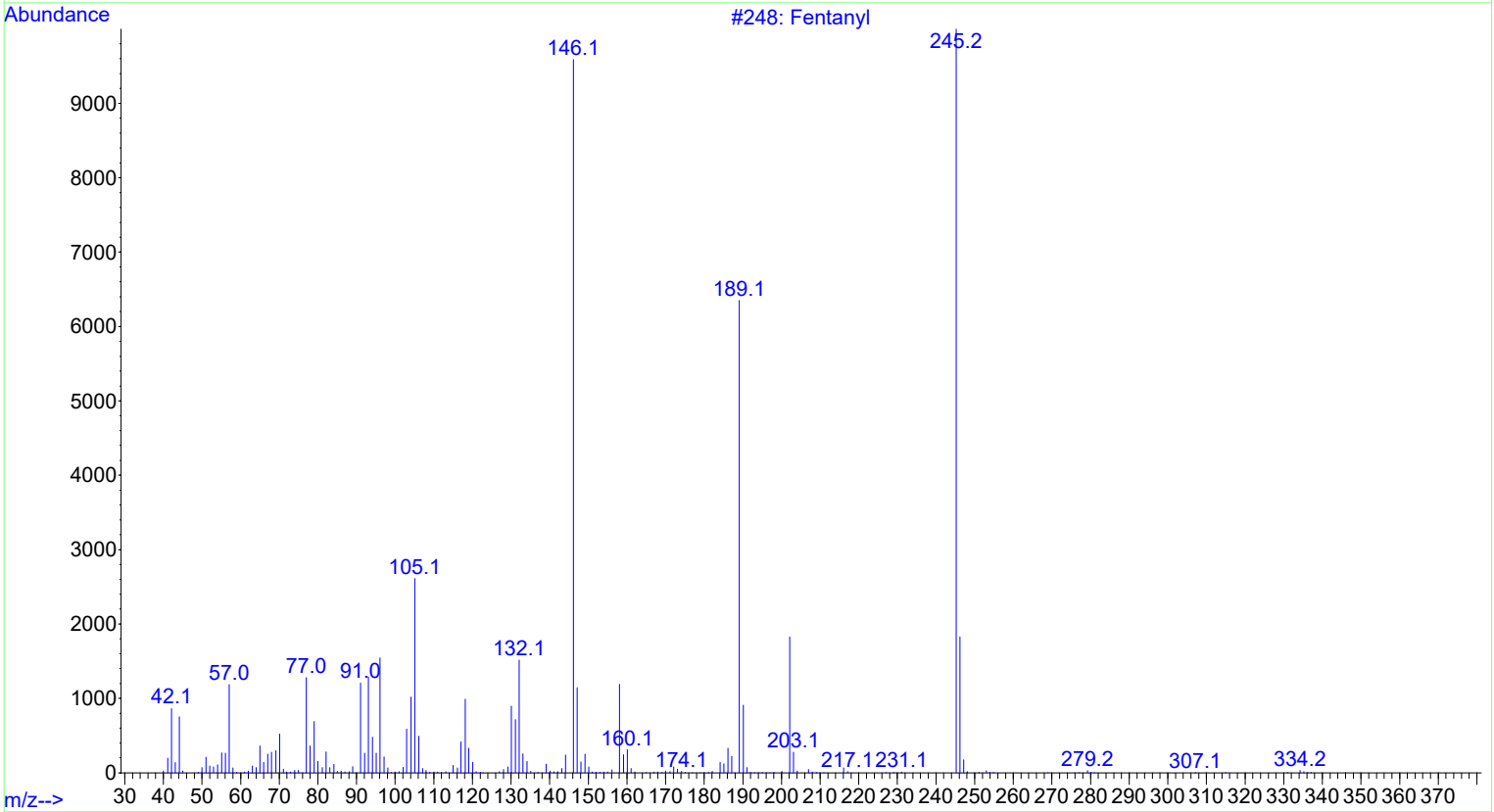
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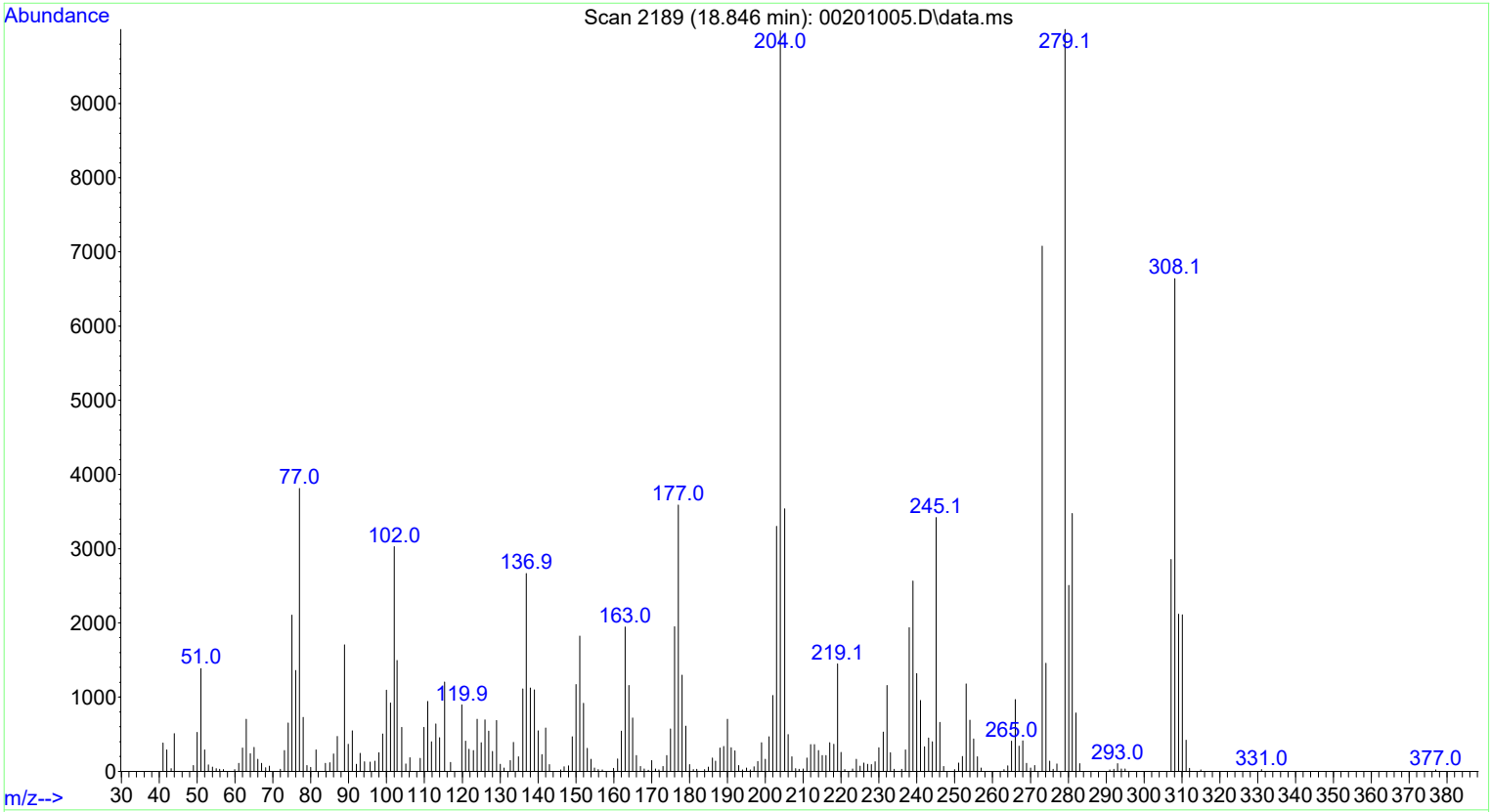


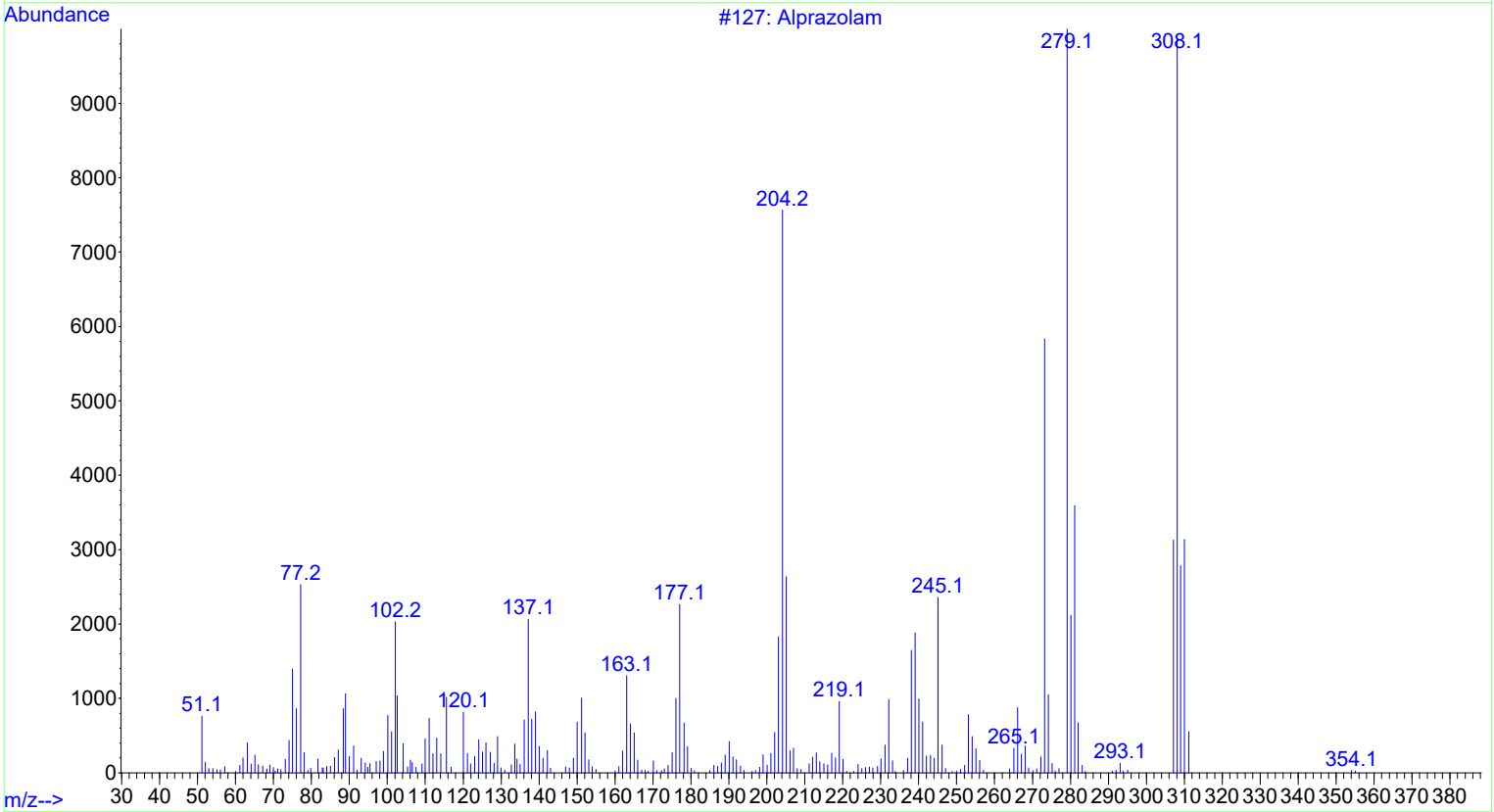
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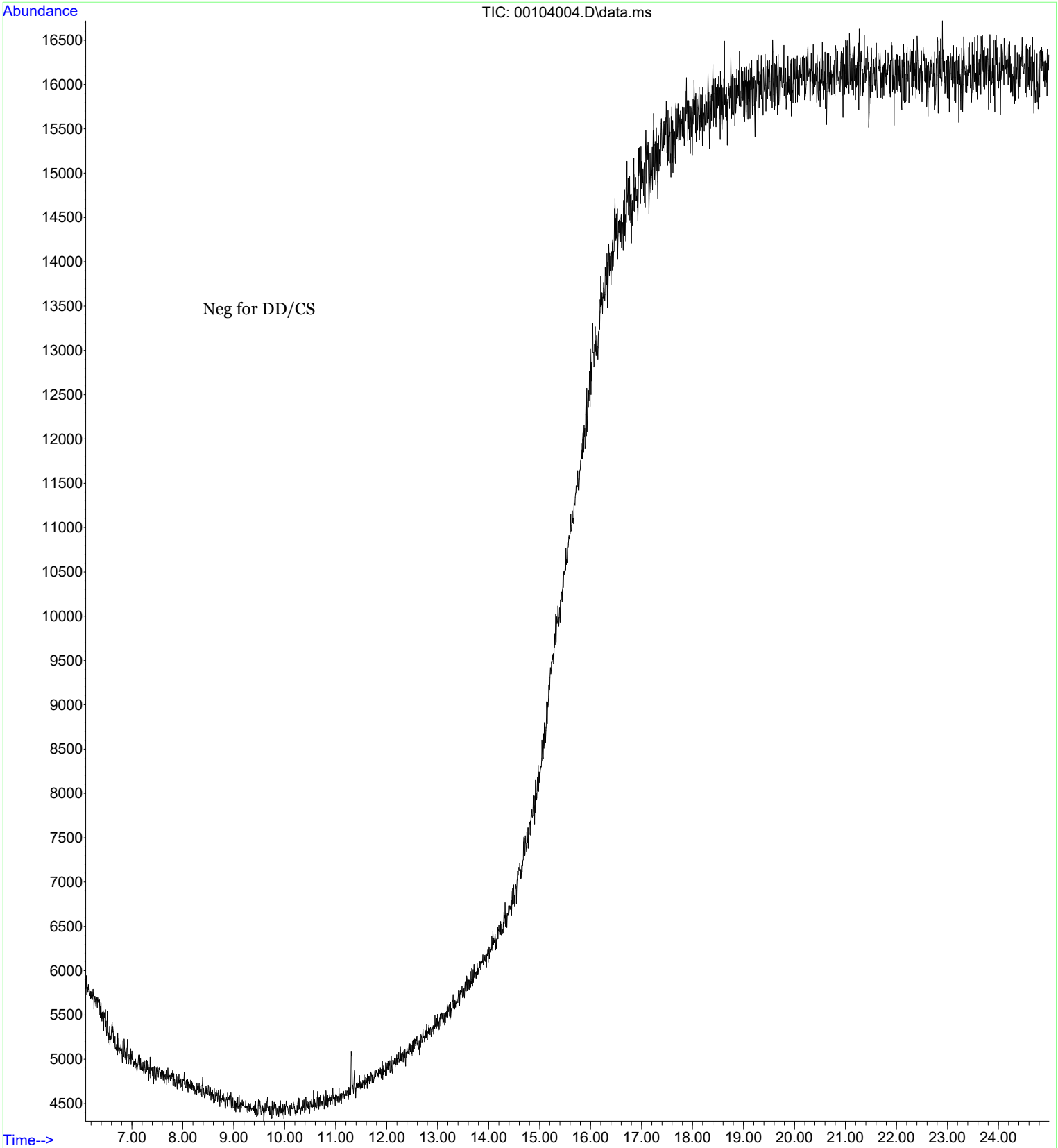


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Acquired : 31 Mar 2025 10:29 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2





File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
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Acquired : 31 Mar 2025 10:01 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: BLANK (C-19-0068) prior to Cayman GC/MS mix 3 (R-24-060) 000002668
Misc Info : ACN 000002668
Vial Number: 1



File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\033125\00101006.D
Acquired : 31 Mar 2025 10:58 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Blank (C-19-0068) - Instrument ready 000002668
Misc Info : ACN 000002668
Vial Number: 1

