Instrument / Equipment Monitoring and Maintenance

Manufacturer Agilent
Model 7890B / 5977B
S/N CN18226309 / US1837D002
Other SD GC MS 4

Date	Maintenance	Analyst
09/05/24	helium tank change	DS
09/23/24	helium tank change / liner-septum change	DS
10/22/24	helium tank change / liner-septum change	DS
11/15/24	helium tank change / gas filter change	DN / DS
11/18/24	please see autotune packet maintence dated 11/21/2024	DS
11/25/24	LINER AND SEPTUM CHANGE.	DS
12/02/24	helium tank change	DS
12/12/24	helium tank change	DS
12/30/24	liner and septum change	DS
01/05/25	helium tank change	DS
01/20/25	helium tank change	DS

GC/MS TUNE LOG

MSD 5977B

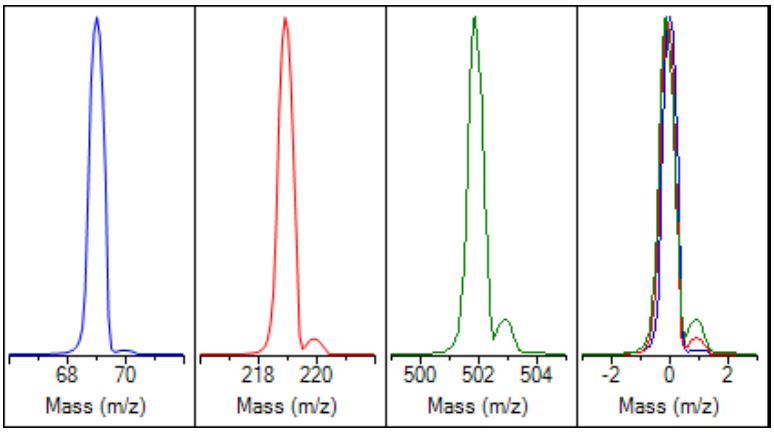
HES_Autotune

Date	Passed (Y/N)	Comments	Analyst
11/18/2024	N	See tune packet dated 11/21/2024	DS
11/21/2024	Y		DS
11/25/2024	Y	Liner and septum change	DS
12/02/2024	Y	helium tank change	DS
12/09/2024	Y		DS
12/16/2024	Y		DS
12/18/2024	Y	helium tank change	DS
12/23/2024	Y		KB
12/30/2024	Y		DS
01/06/2025	Y	helium tank change	DS
01/13/2025	Y		DS
01/24/2025	Y	helium tank change 01/20/2025	DS
01/27/2025	Y		DS

High Efficiency Source Autotune - 5977

Tune timestamp: 1/6/2025 9:22 AM (UTC-06:00) GCMS #4

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



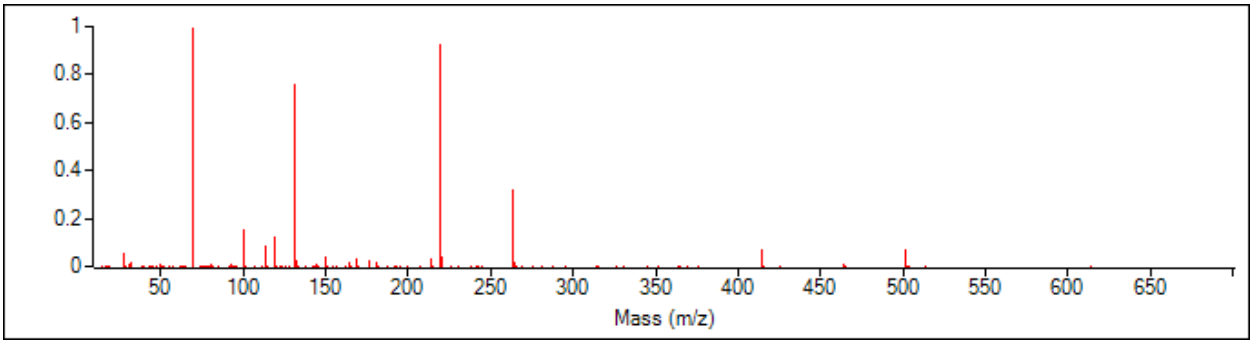
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	85
Electron Energy	70.0	Mass Offset	-28
Filament	1	Amu Gain	2438
Repeller	12.23	Amu Offset	137.00
Ion Focus	149.6	Width219	0.001
Entrance Lens	10.1	DC Polarity	Pos
Ent Lens Offset	14.94	HED Enable	On
Ion Body	5.25	EM Volts	2165.2
Post Extractor 1	15	Extractor Lens	13.80
Post Extractor 2	34	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	464,334	100.0%	0.60
218.90	436,481	94.0%	0.60
501.90	33,499	7.2%	0.61

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	7.16e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	120	69.00	442,304	1,775,765



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	442,304	100.0%	70.00	5,195	1.2%
219.00	219.00	408,640	92.4%	220.00	18,824	4.6%
502.00	502.00	31,992	7.2%	503.00	3,108	9.7%

Air/Water Check: H20 ~0.2% N2 ~5.4% O2 ~1.9% CO2 ~0.2% N2/H20 ~3585.5%

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 10142.931

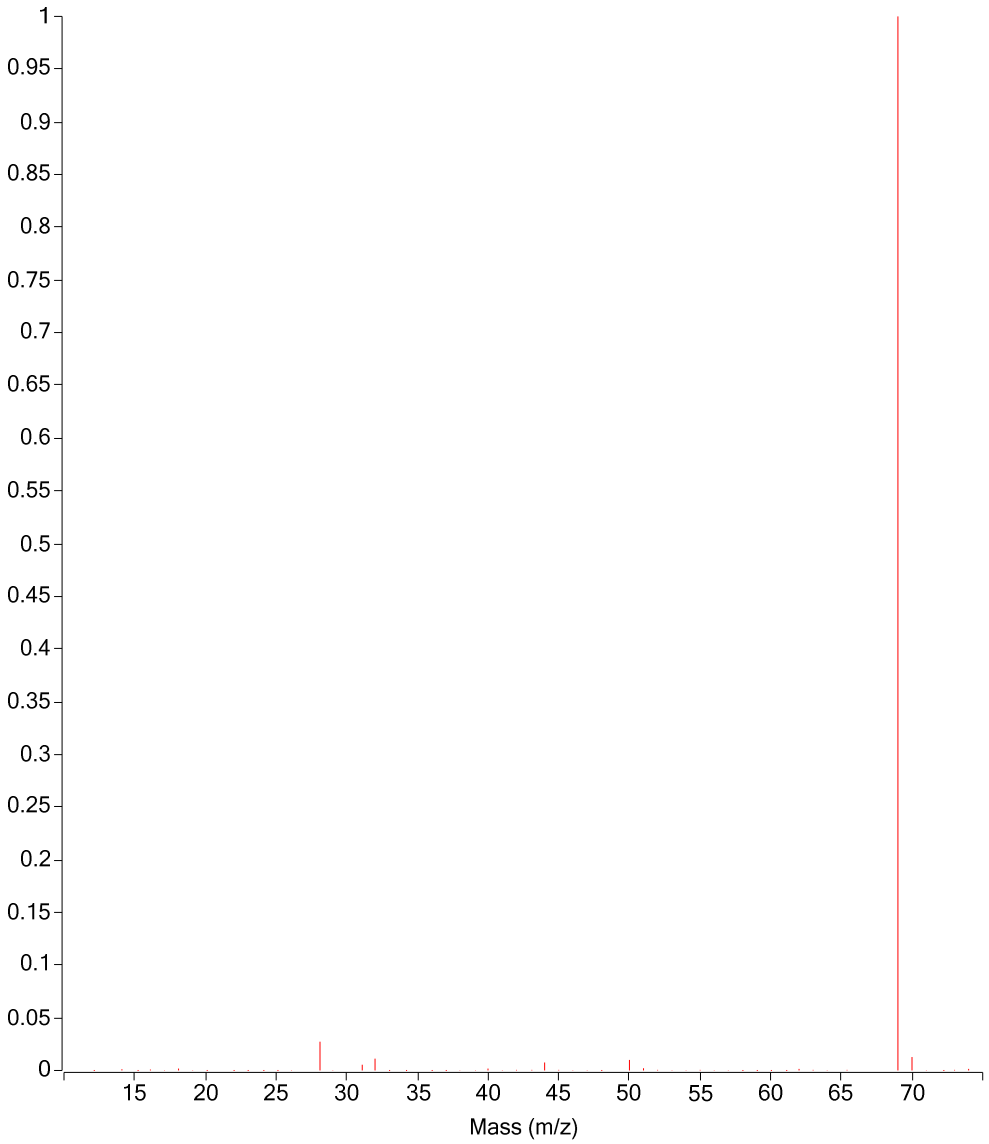
Repeller maximum 35 volts using ion 219; Gain Factor 0.1014

Mass Gain Values(Scan Speed): 98(3) 101(2) 118(1) 125(0) 177(FS1) 176(FS2) 165(FS3)

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	14.9	14.9	14.9	14.9	14.9	14.9	14.9

597x Air and Water Check

Instrument: GCMS #4
Mon Jan 06 09:12:15 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: HES_Atune.u

Relative abundances:

18/69 =	0.18	Water%	(counts=1331)
28/69 =	2.72	Nitrogen%	(counts=20384)
32/69 =	1.14	Oxygen%	(counts=8509)
44/69 =	0.76	Carbon Dioxide%	(counts=5696)
28/18 =	1531.48	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%)	1.18	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.59	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.27	OK
Ratio of 219 to 69 should be > 40% and is	92.71	OK
Ratio of 502 to 69 should be > 2.4% and is	7.27	OK
Mass 69 Precursor (<= 3%)	0.66	OK
Mass 219 Precursor (<= 6%)	1.30	OK
Mass 502 Precursor (<= 12%)	2.10	OK

597x Air and Water Check
Mon Jan 06 09:28:49 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%)	0.15	OK
Ratio of 28 to 69 (<10%)	5.31	OK
Electron Multiplier Voltage	2165	OK

Tune portion of System Verification passed.

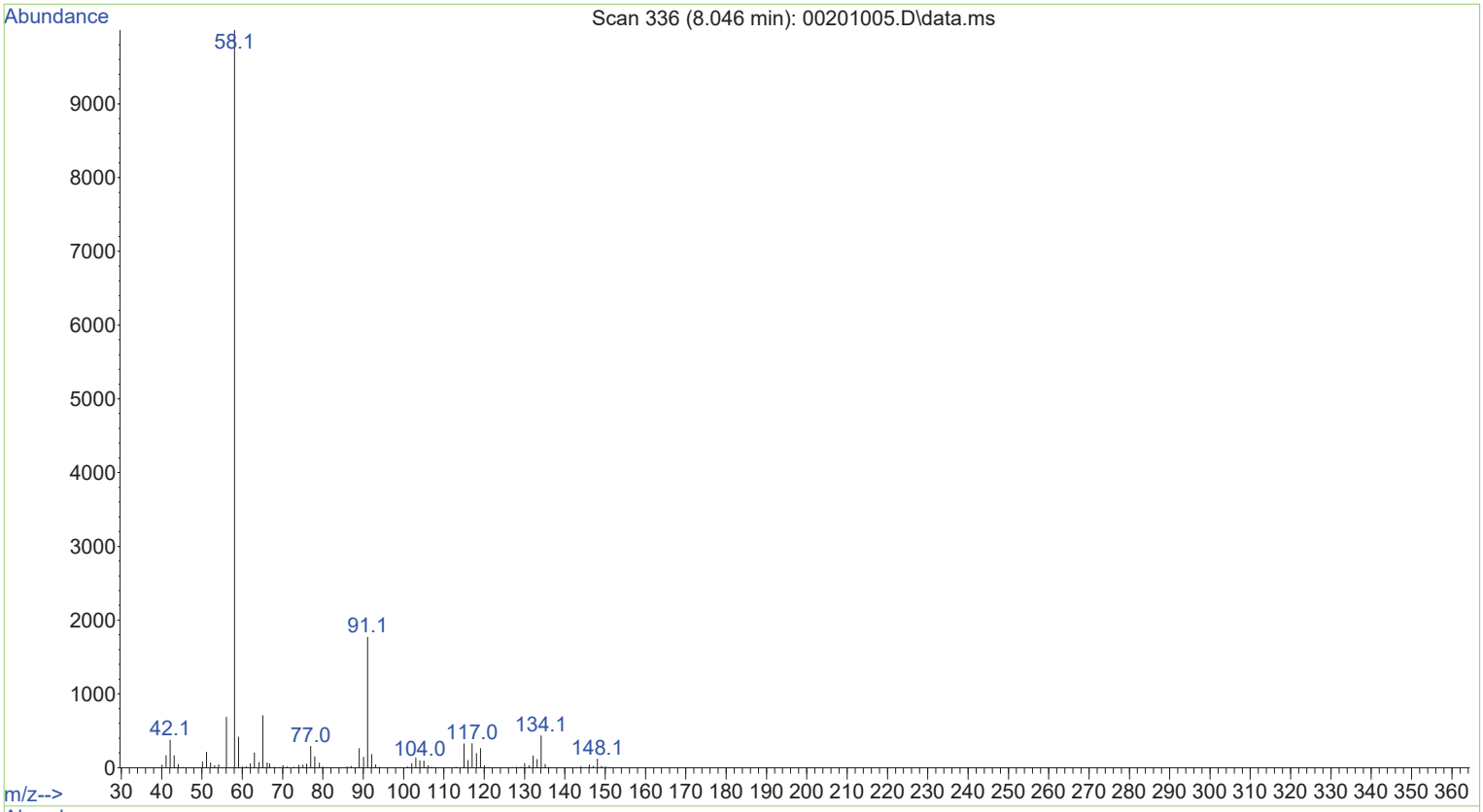
BCCL GC/MS #4
Retention Times for the Week of:

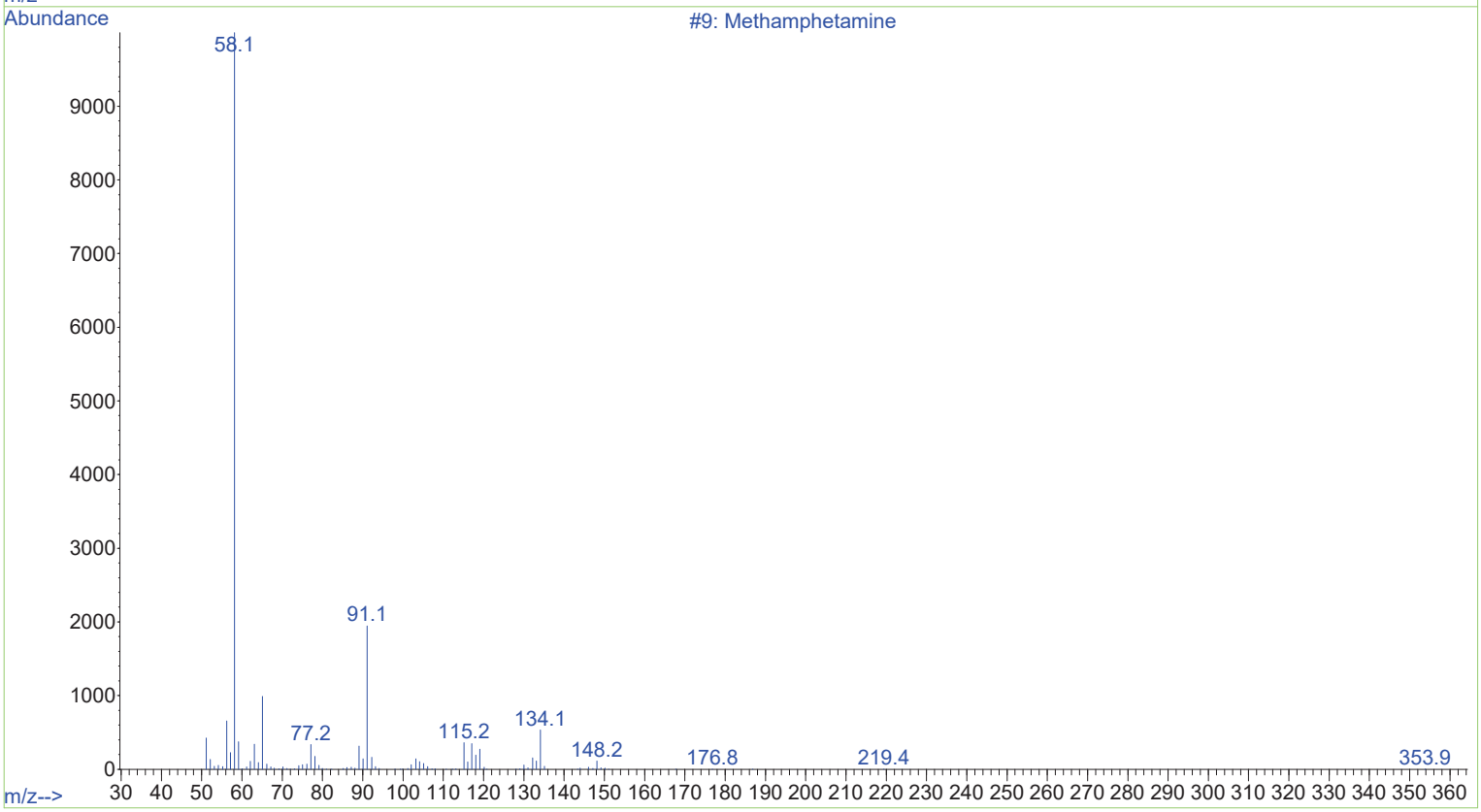
01/06/2024 - 01/12/2025

[X] **Tune:** DS/DN **01/06/2024 - HES Autotune**

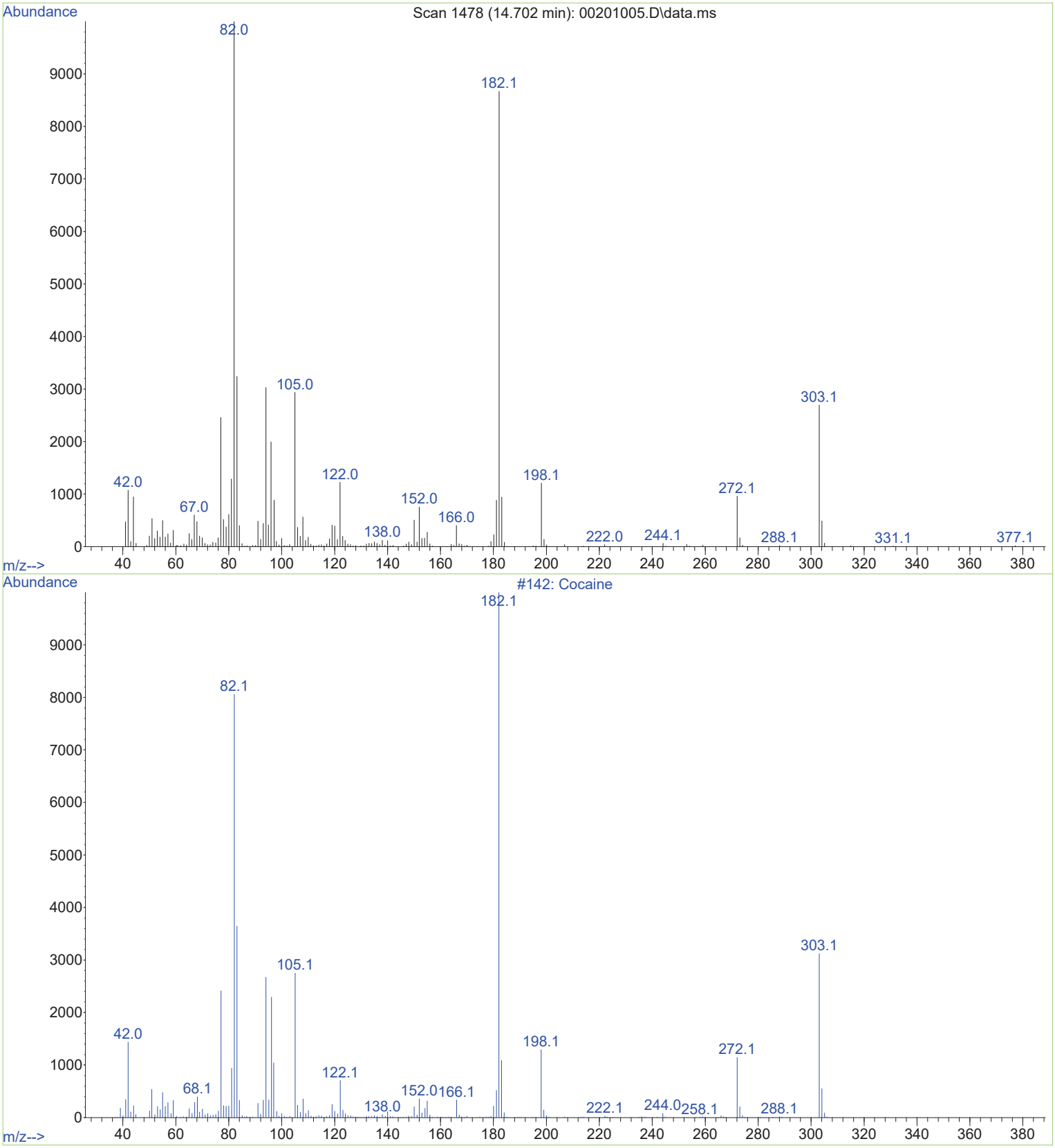
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35MS	8.049	7.968	8.129
Cocaine	R-24-060	DrugTest35MS	14.692	14.545	14.838
Heroin	R-24-060	DrugTest35MS	16.438	16.273	16.602
Fentanyl	R-24-060	DrugTest35MS	16.515	16.349	16.680
Alprazolam	R-24-060	DrugTest35MS	18.845	18.656	19.033
Buspirone	S-21-030	DrugTest35MS	21.686	21.469	21.902

File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\010625\00201005.D
Acquired : 06 Jan 2025 10:51 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

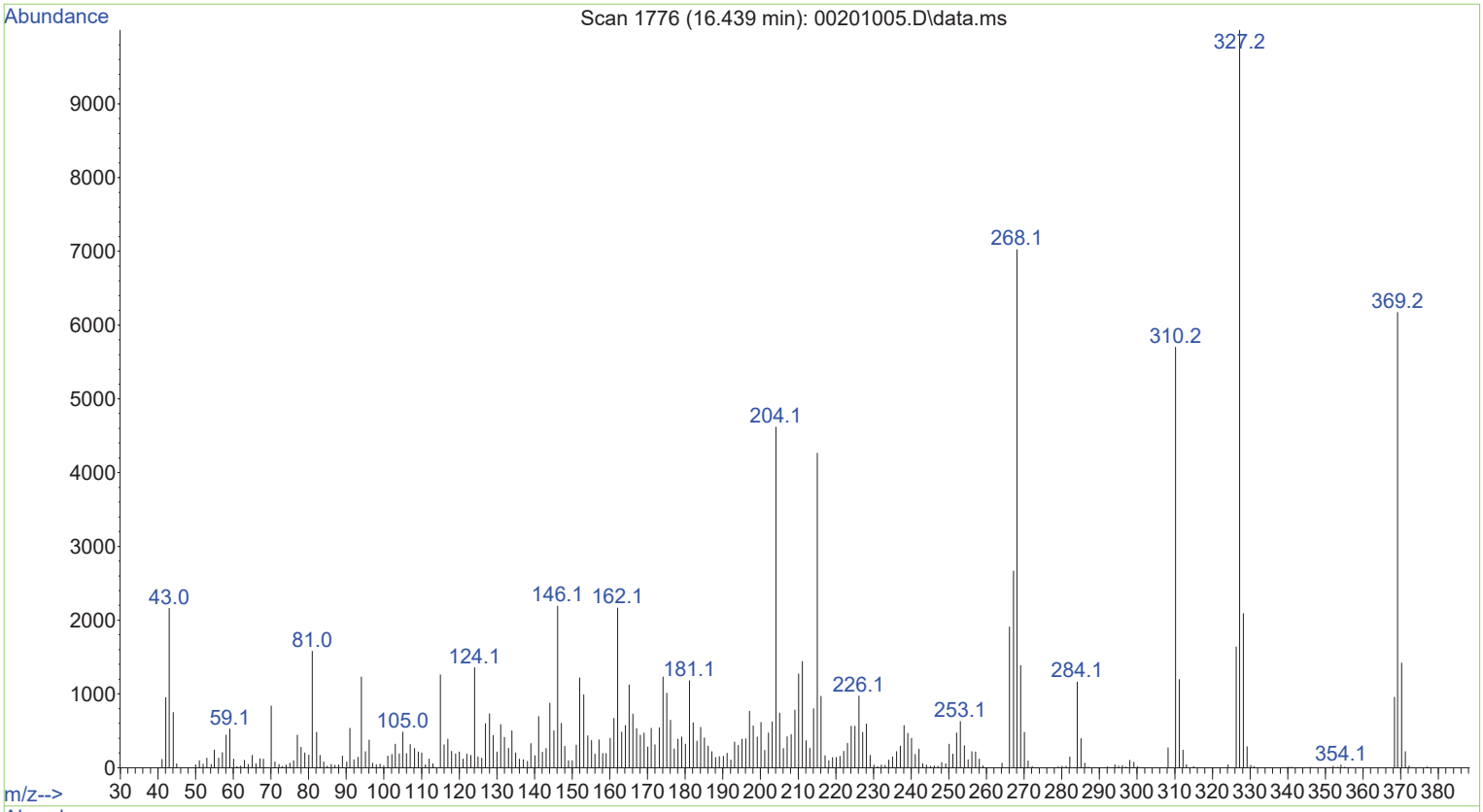


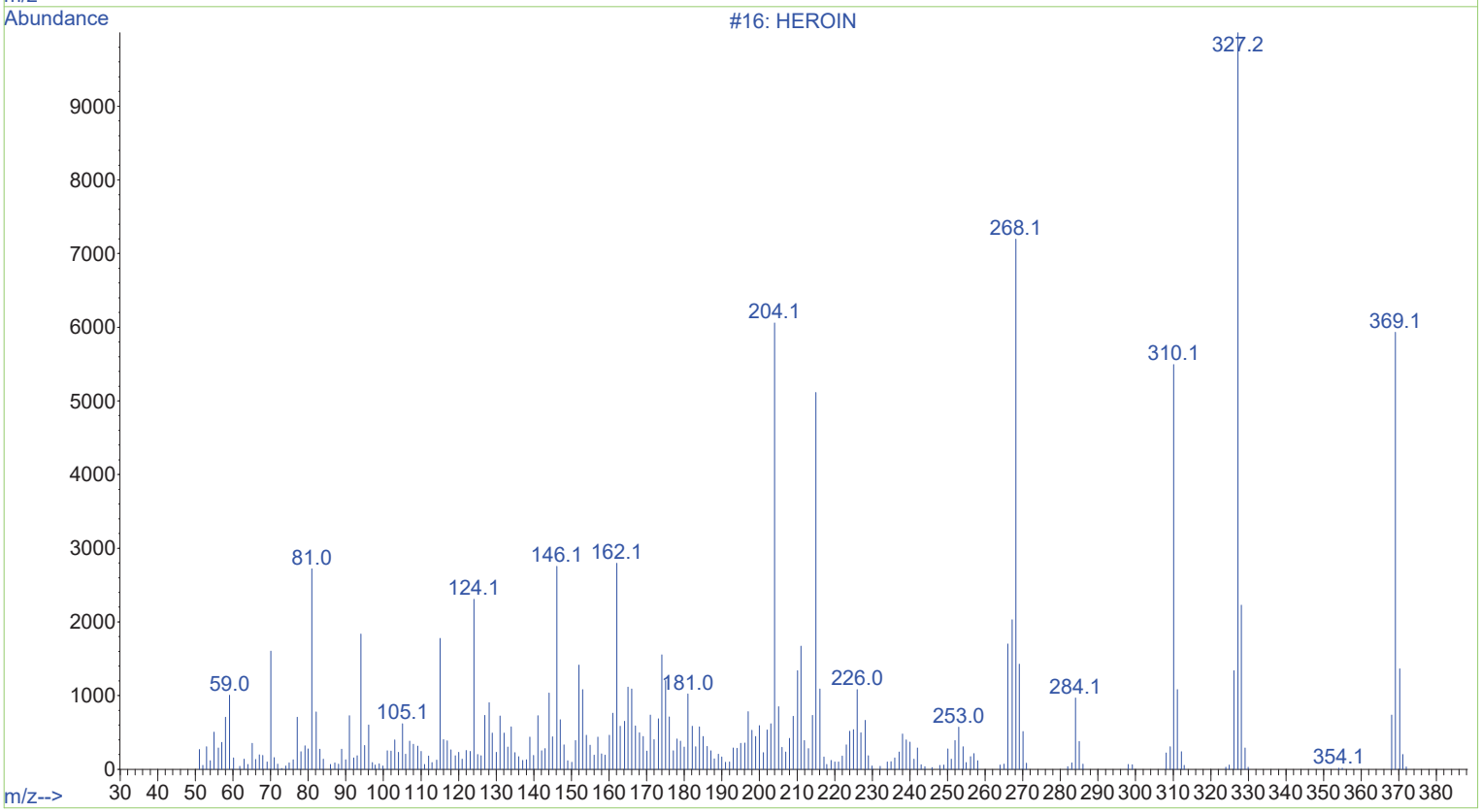


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Acquired   : 06 Jan 2025  10:51     using AcqMethod DrugTest35MS.M
Instrument :   GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060)                  000002669
Misc Info  : in ACN                                         000002669
Vial Number: 2
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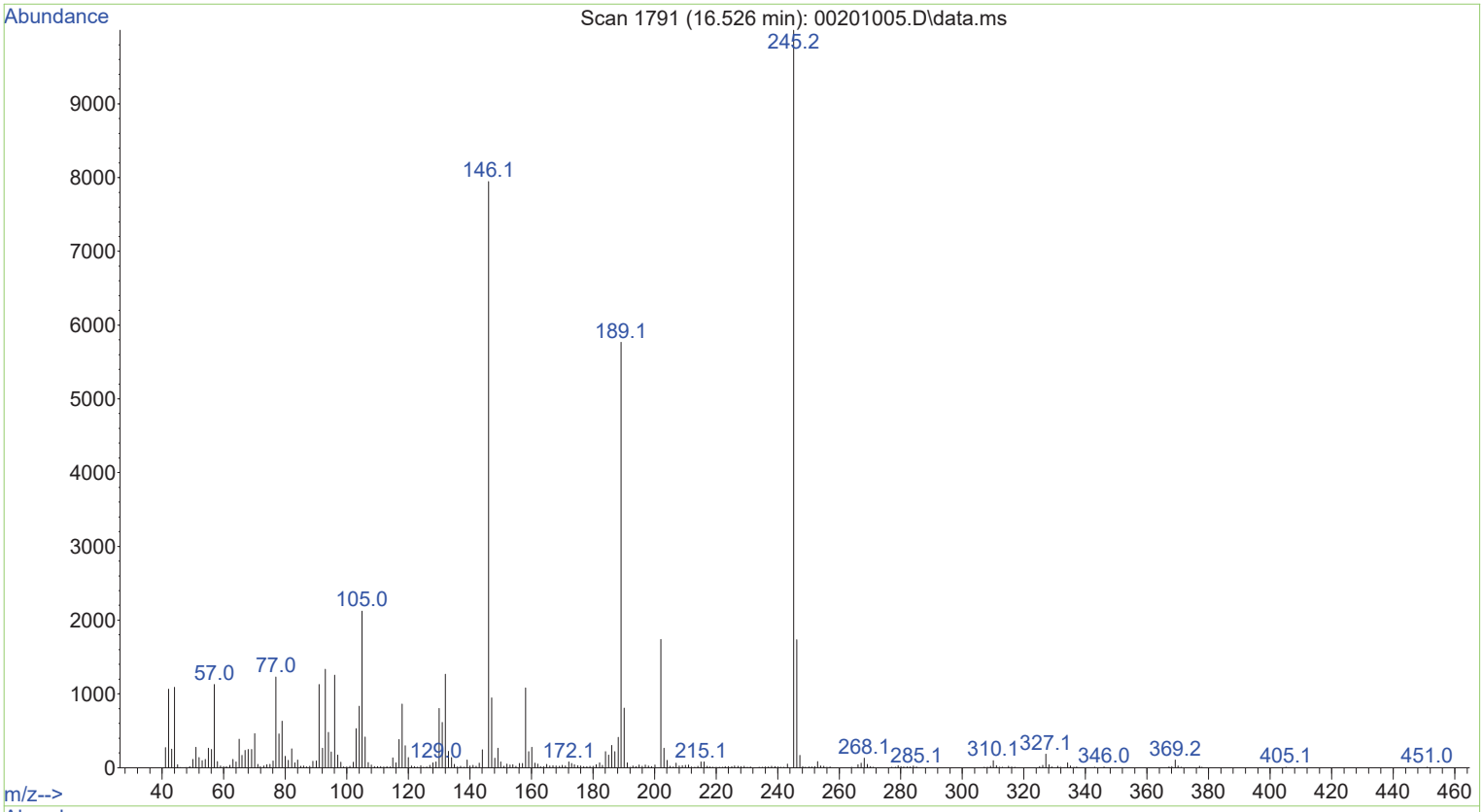


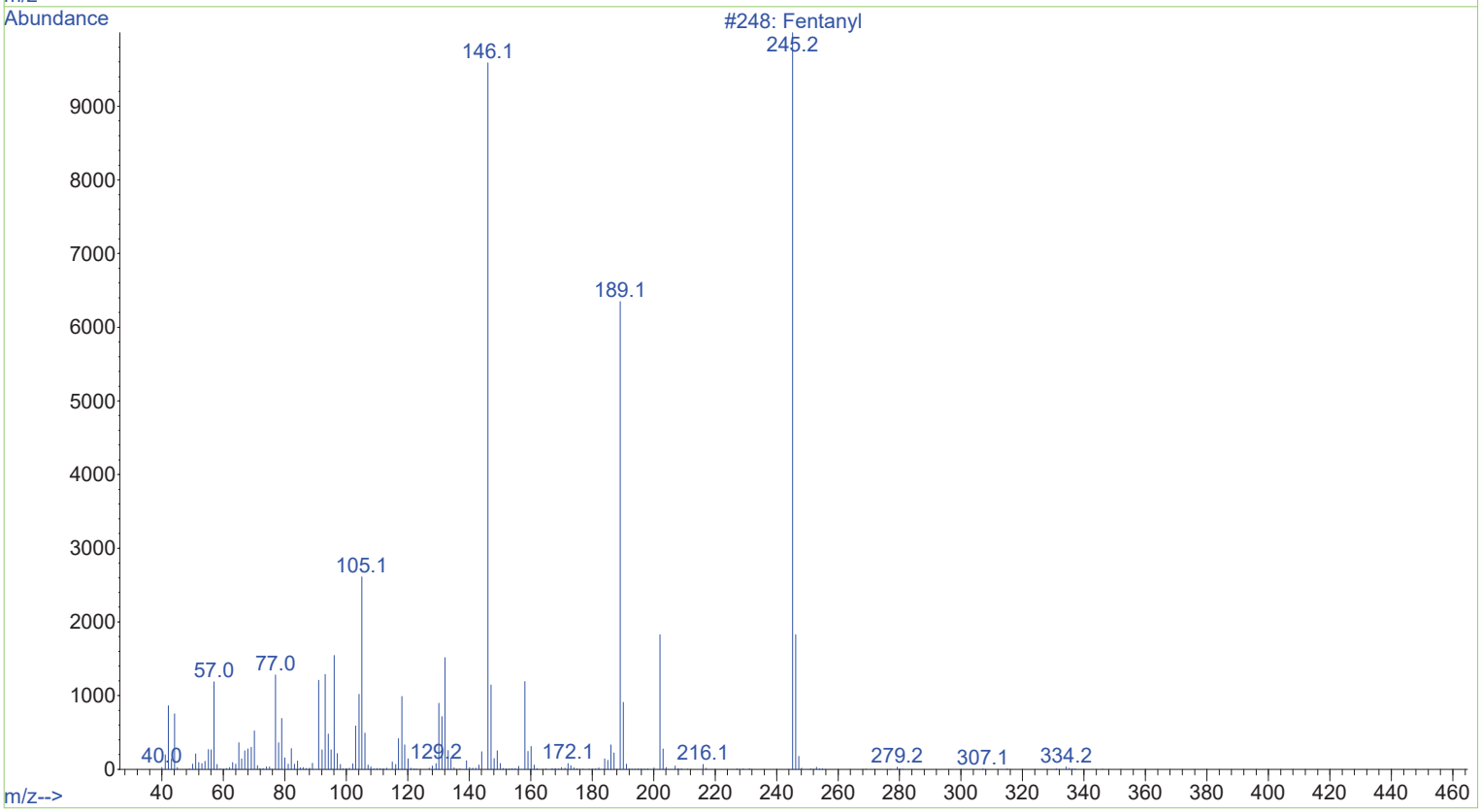
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Acquired : 06 Jan 2025 10:51 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



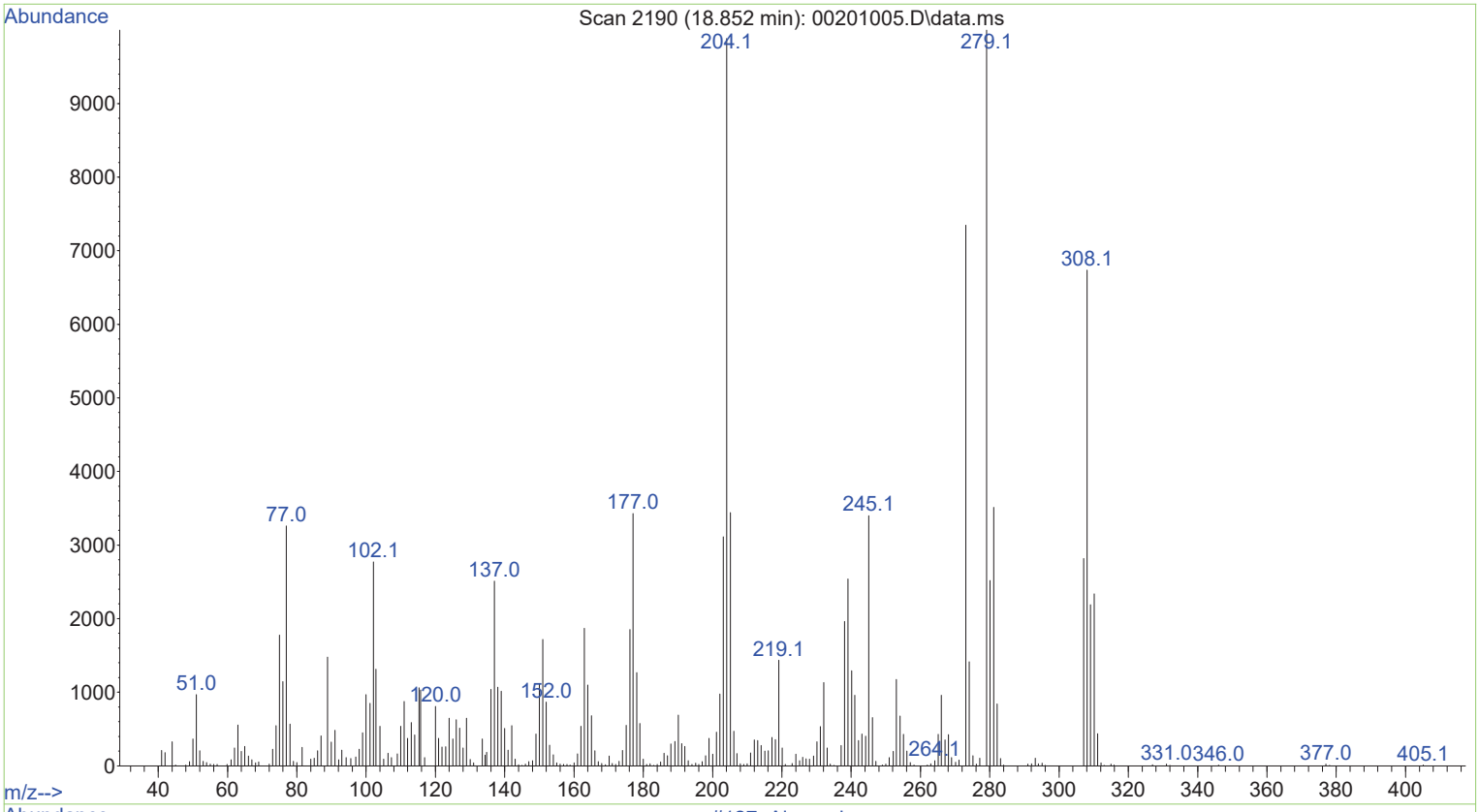


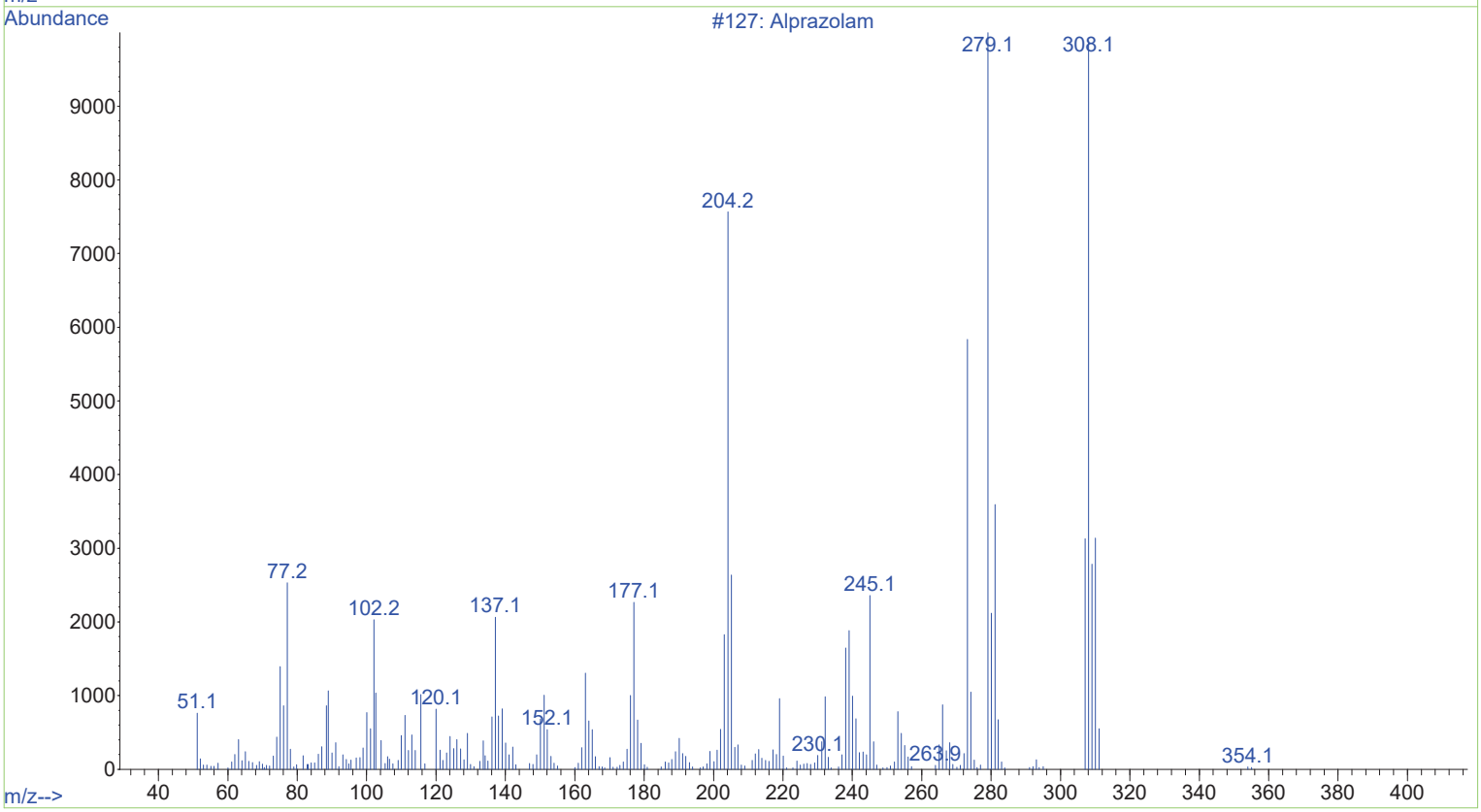
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Misc Info : in ACN 000002669
Vial Number: 2



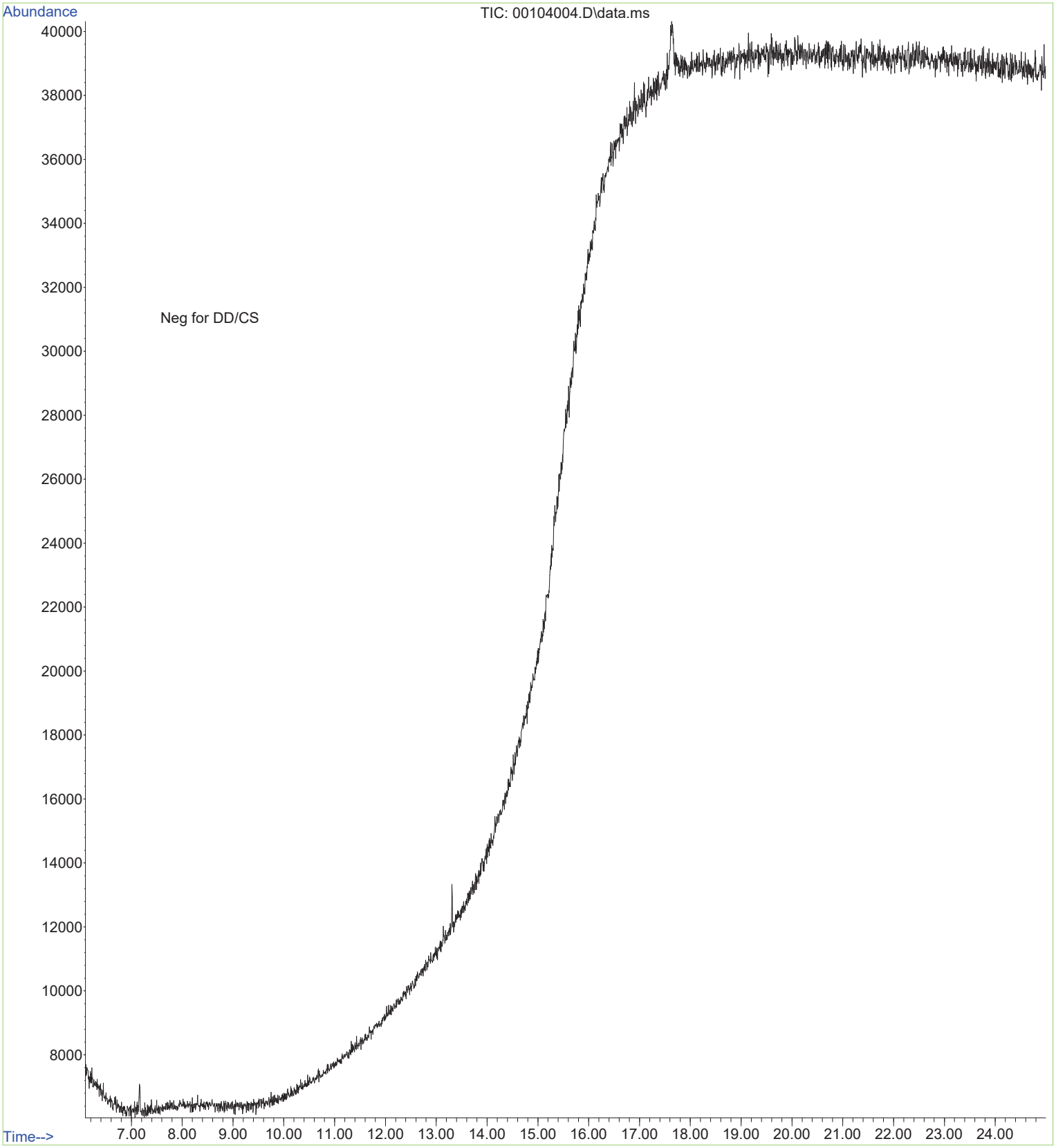


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Acquired : 06 Jan 2025 10:51 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2

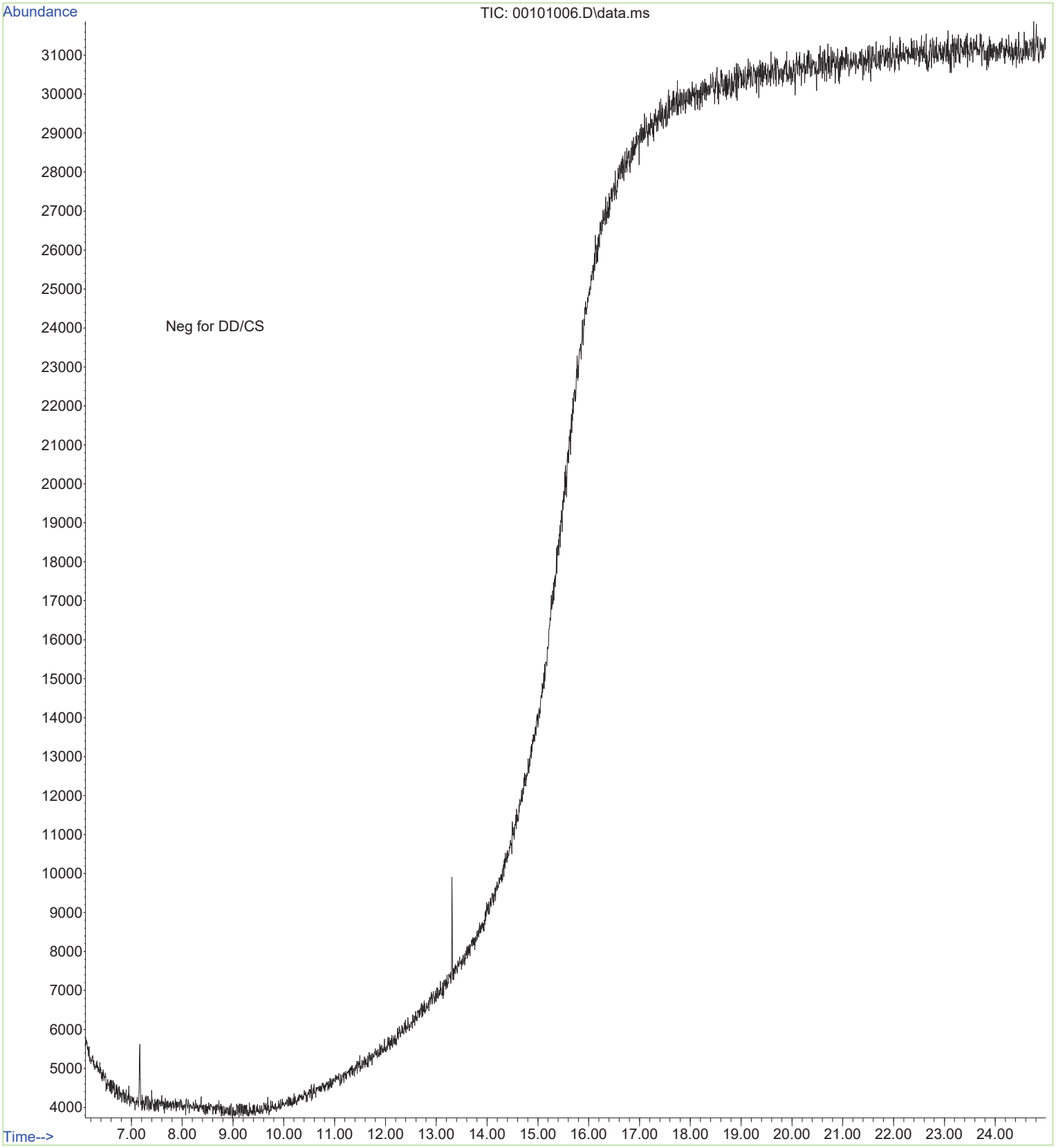




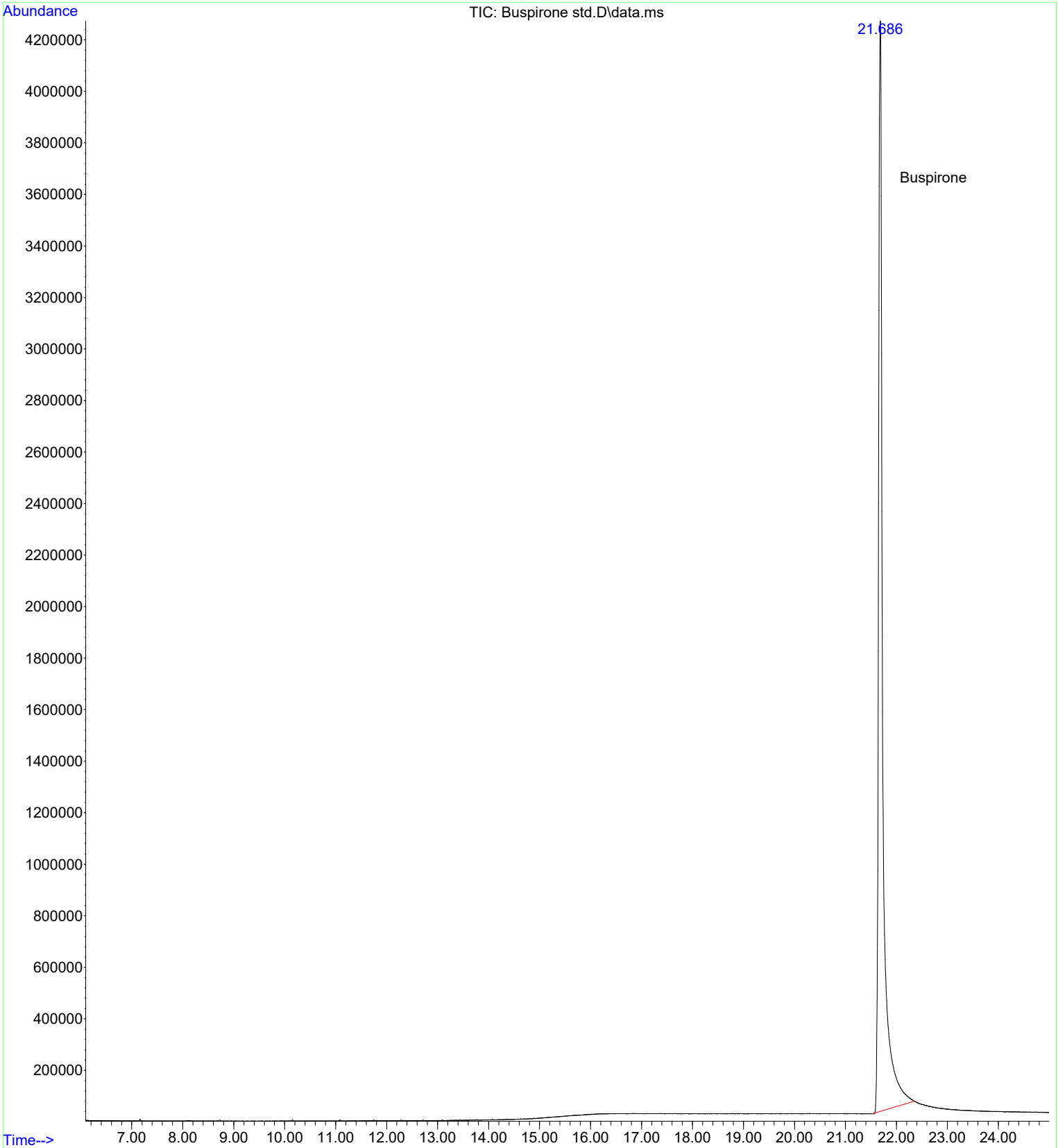
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Instrument : GCMS #4
Sample Name: BLANK (C-19-0068) prior to Cayman GC/MS mix 3 (R-24-060) 000002668
Misc Info : ACN 000002668
Vial Number: 1



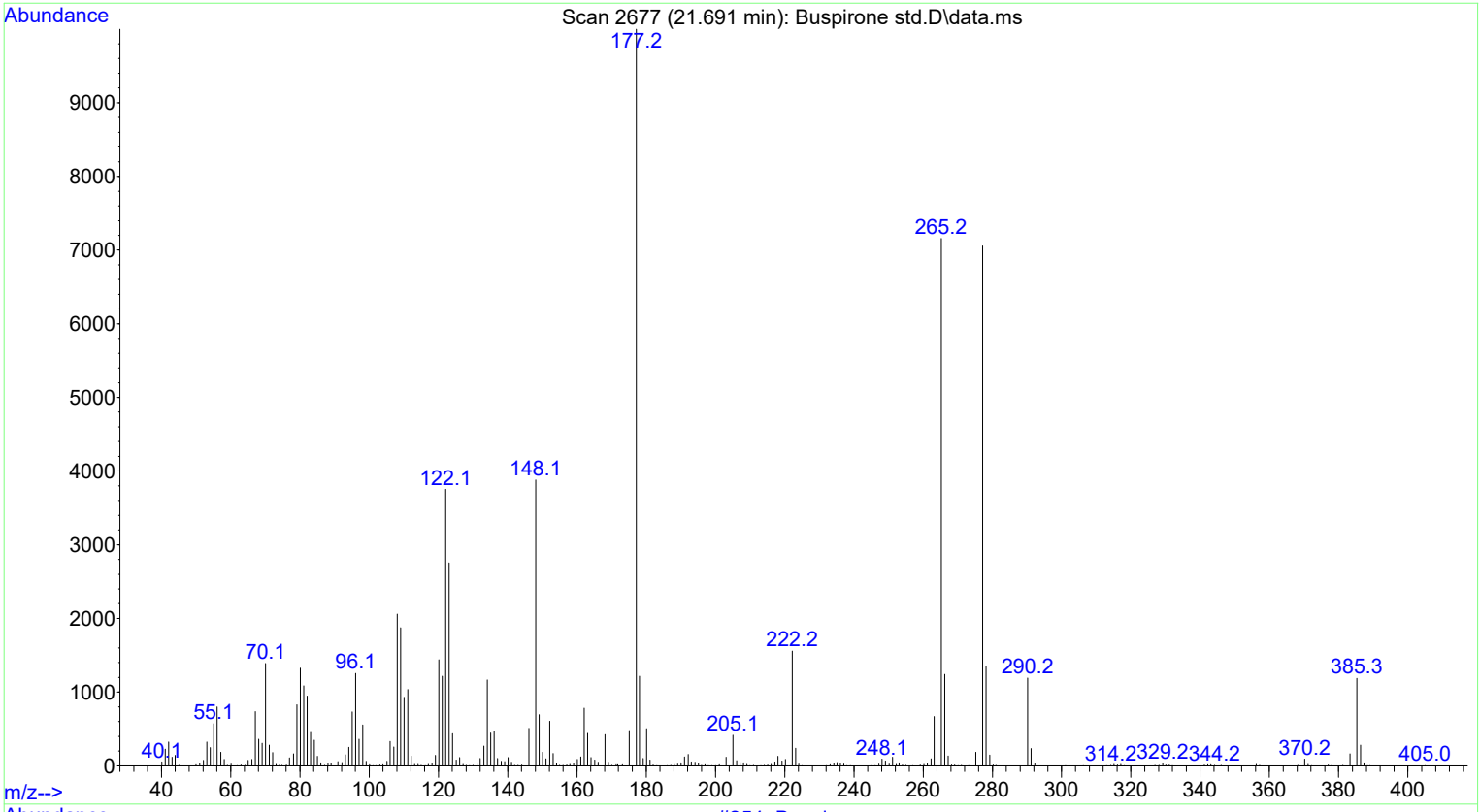
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Acquired : 06 Jan 2025 11:19 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Blank (C-19-0068) - Instrument ready 000002668
Misc Info : ACN 000002668
Vial Number: 1

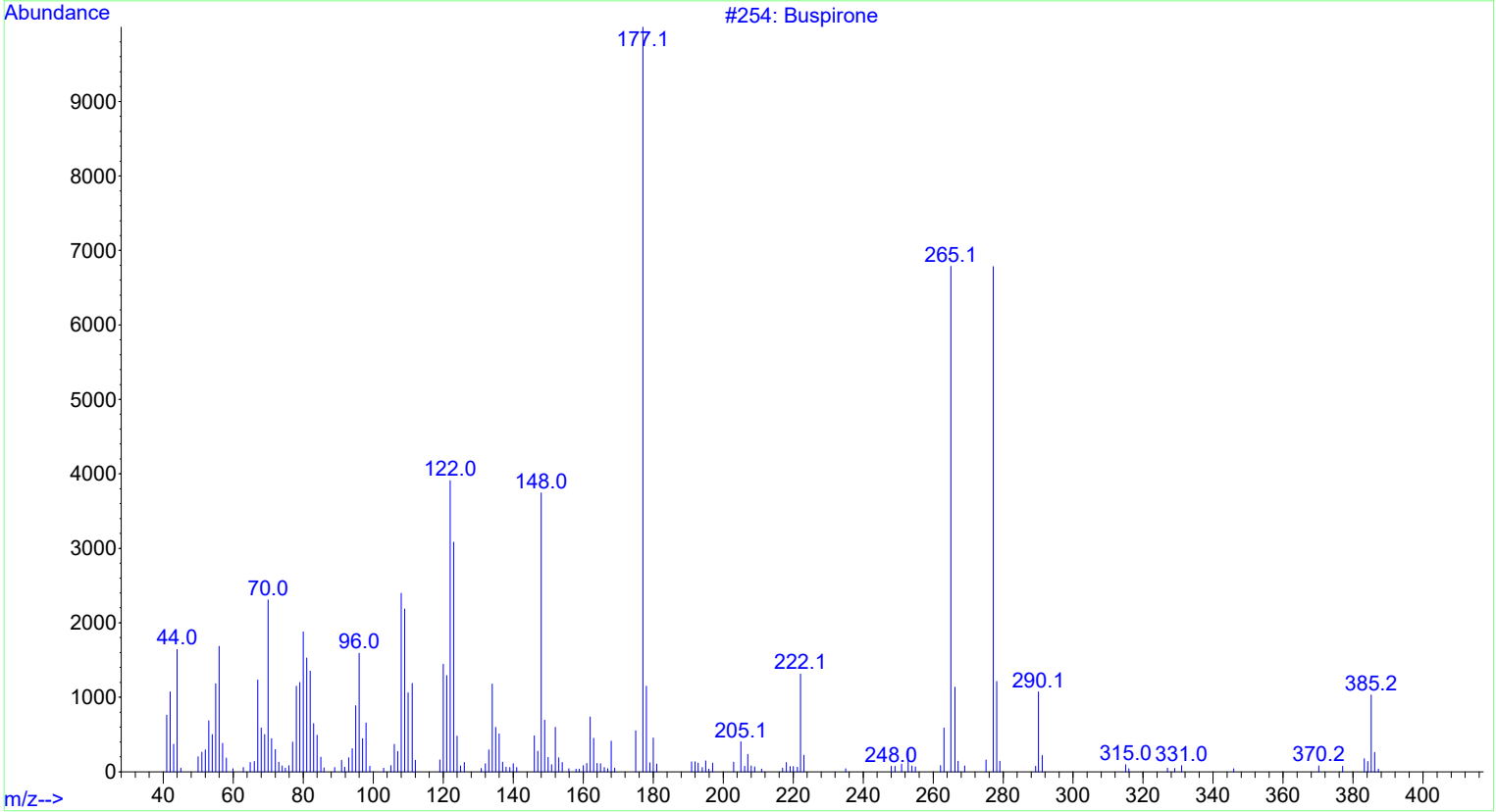


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Acquired : 08 Jan 2025 18:19 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Buspirone Std 000002760
Misc Info : Rt determination 000002760
Vial Number: 128

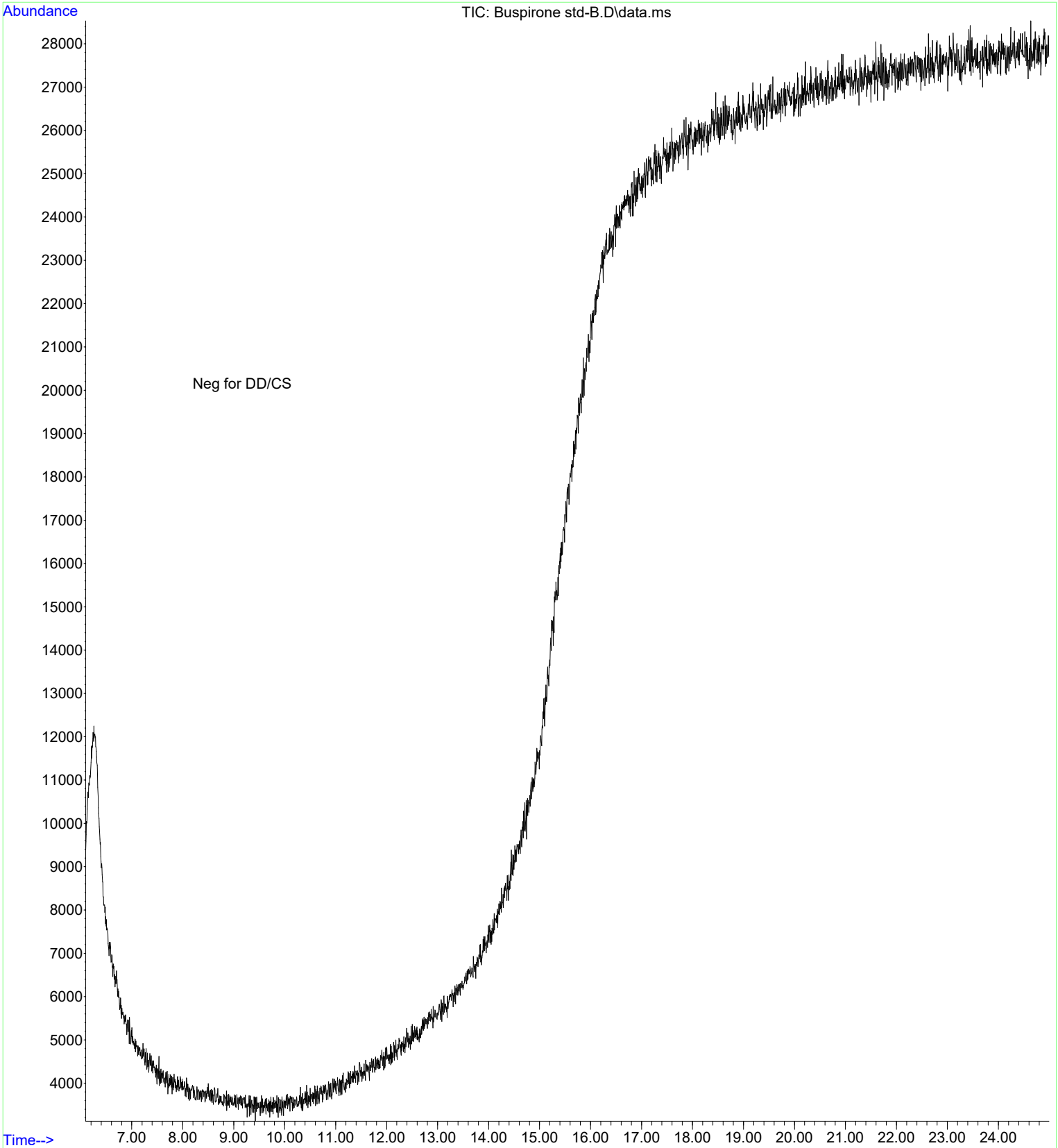


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Instrument : GCMS #4
Sample Name: Buspirone Std 000002760
Misc Info : Rt determination 000002760
Vial Number: 128





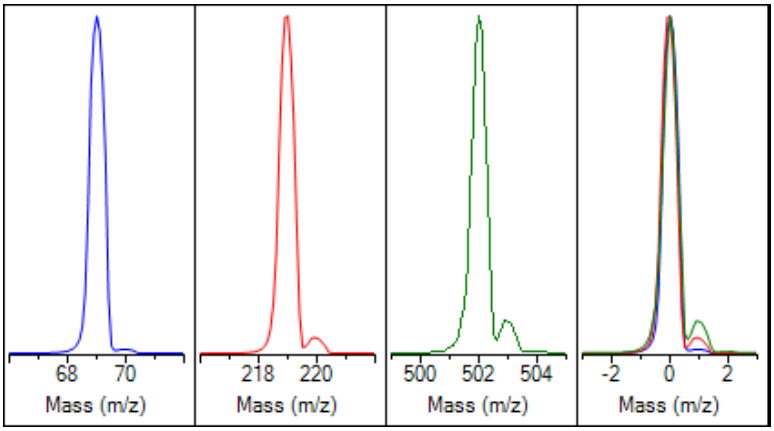
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... std-B.D
Acquired : 08 Jan 2025 17:50 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: blank prior to Buspirone Std (S-21-030) 000002145
Misc Info : EtAc (C-22-0063A)/base extract w/ R-24-058 000002145
Vial Number: 121



High Efficiency Source Autotune - 5977

Tune timestamp: 1/13/2025 8:38 AM (UTC-06:00) GCMS #4

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



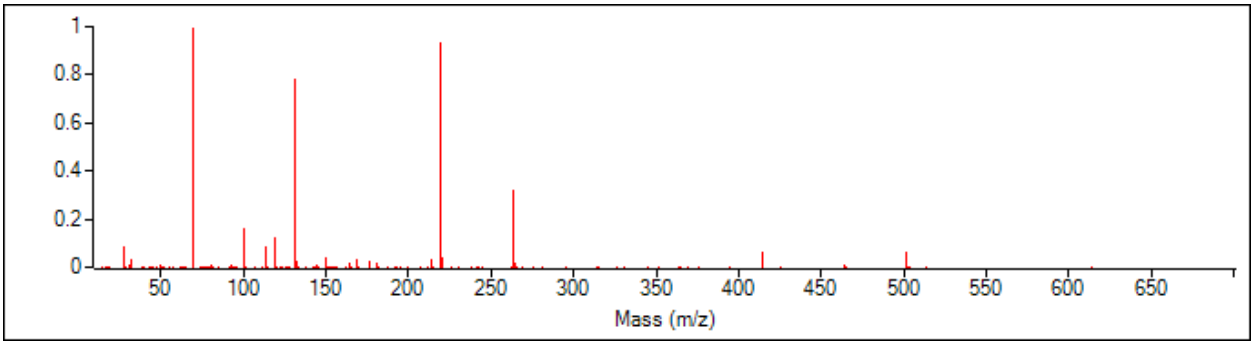
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	92
Electron Energy	70.0	Mass Offset	-28
Filament	1	Amu Gain	2440
Repeller	13.15	Amu Offset	136.88
Ion Focus	149.6	Width219	0.001
Entrance Lens	7.5	DC Polarity	Pos
Ent Lens Offset	15.10	HED Enable	On
Ion Body	5.25	EM Volts	2164.6
Post Extractor 1	15	Extractor Lens	14.50
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	471,075	100.0%	0.60
219.00	448,240	95.2%	0.60
502.00	30,517	6.5%	0.59

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	7.20e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	125	69.00	449,472	1,840,138



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	449,472	100.0%	70.00	5,346	1.2%
219.00	219.00	418,560	93.1%	220.00	19,152	4.6%
502.00	502.00	27,416	6.1%	503.00	2,870	10.5%

Air/Water Check: H20 ~0.1% N2 ~8.5% O2 ~2.9% CO2 ~0.3% N2/H20 ~5713.8%

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 11665.073

Repeller maximum 35 volts using ion 219; Gain Factor 0.1167

Mass Gain Values(Scan Speed): 92(3) 92(2) 104(1) 130(0) 182(FS1) 181(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	15.1	15.1	15.1	15.1	15.1	15.1	15.1

Instrument Name : GCMS #4
DC Polarity : Positive
Filament 1
Current Vacuum status :High Vacuum: 5.53E-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%)	1.21	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%)	10.00	OK
Ratio of 219 to 69 should be > 40% and is	97.44	OK
Ratio of 502 to 69 should be > 2.4% and is	8.02	OK
Mass 69 Precursor (<= 3%)	0.73	OK
Mass 219 Precursor (<= 6%)	2.05	OK
Mass 502 Precursor (<= 12%)	2.90	OK

597x Air and Water Check
Mon Jan 13 10:05:08 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%)	6.30	OK
Electron Multiplier Voltage	2165	OK

Original tune evaluation and air water check were mistakenly disgarded by analyst DS while electronically combining the tune packet. This tune evaluation was run later that morning to verify that the tune run on January 13, 2025 was indeed OK. Since this evaluation contains leak evaluation, a second air/water check was not initiated - DS

Tune portion of System Verification passed.

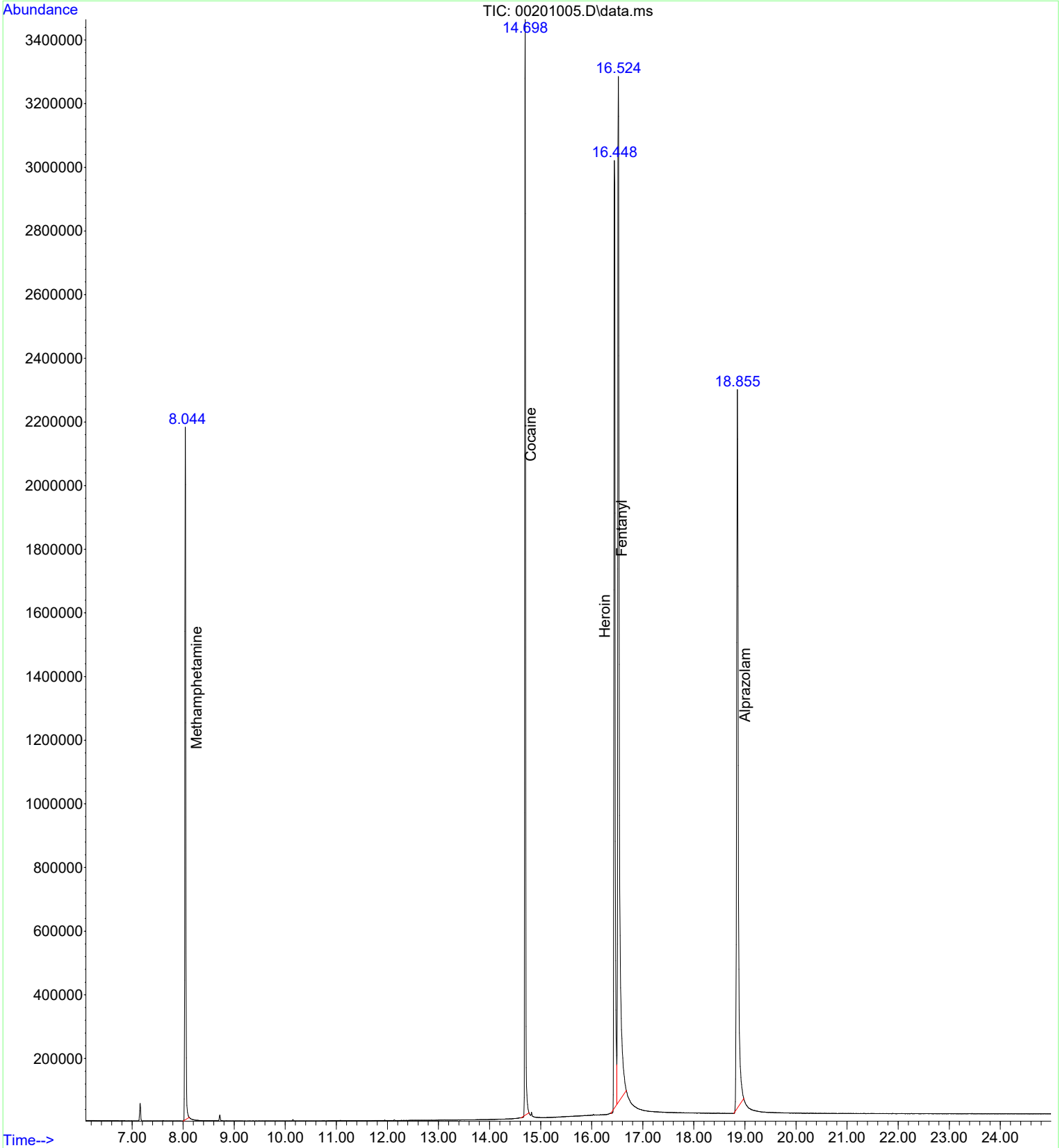
BCCL GC/MS #4
Retention Times for the Week of:

01/13/2024 - 01/19/2025

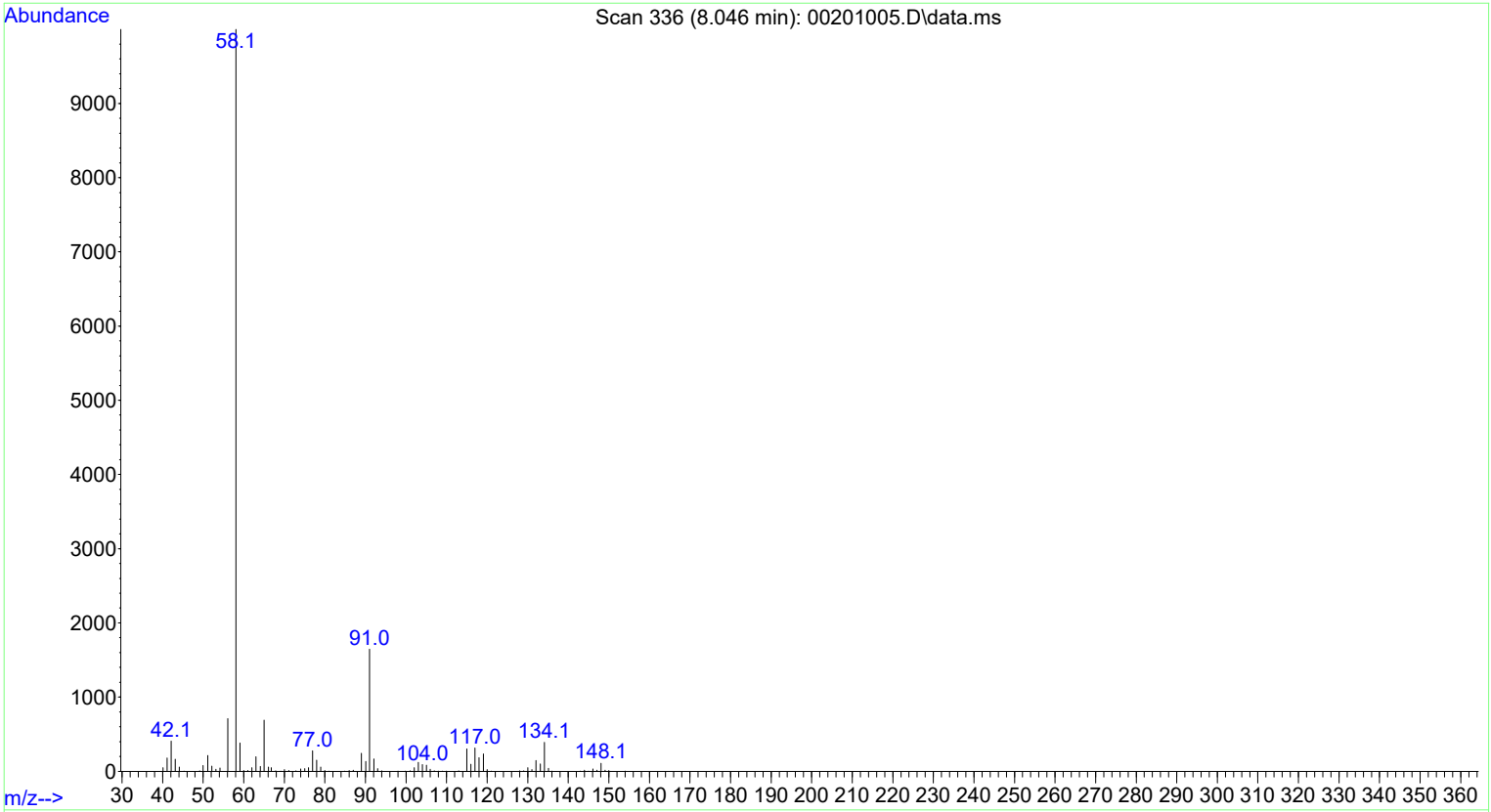
[X] **Tune:** DS **01/13/2024 - HES Autotune**

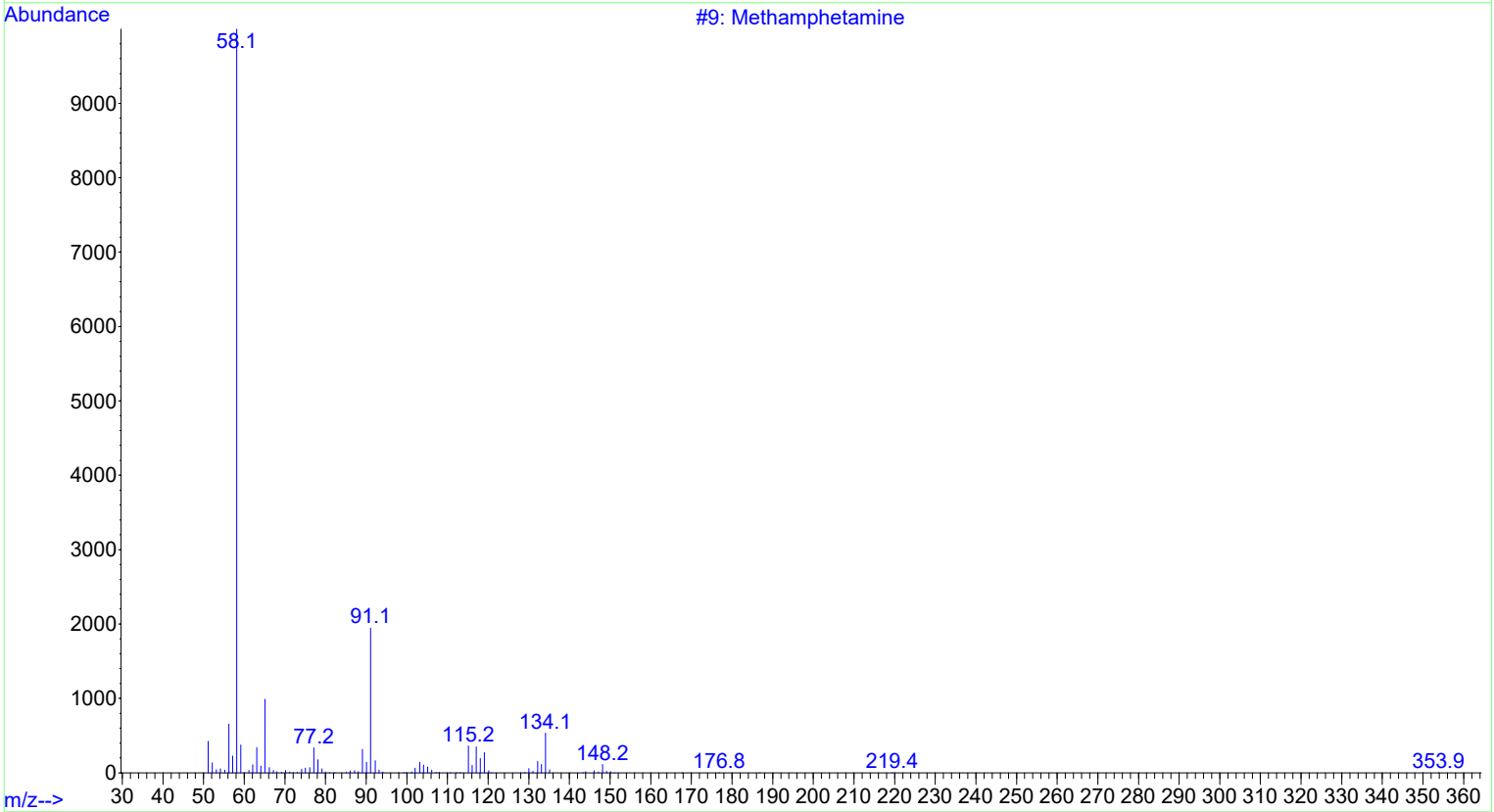
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35MS	8.044	7.963	8.124
Cocaine	R-24-060	DrugTest35MS	14.698	14.551	14.844
Heroin	R-24-060	DrugTest35MS	16.448	16.283	16.612
Fentanyl	R-24-060	DrugTest35MS	16.524	16.358	16.689
Alprazolam	R-24-060	DrugTest35MS	18.855	18.666	19.043

File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\011325\00201005.D
Acquired : 13 Jan 2025 10:08 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

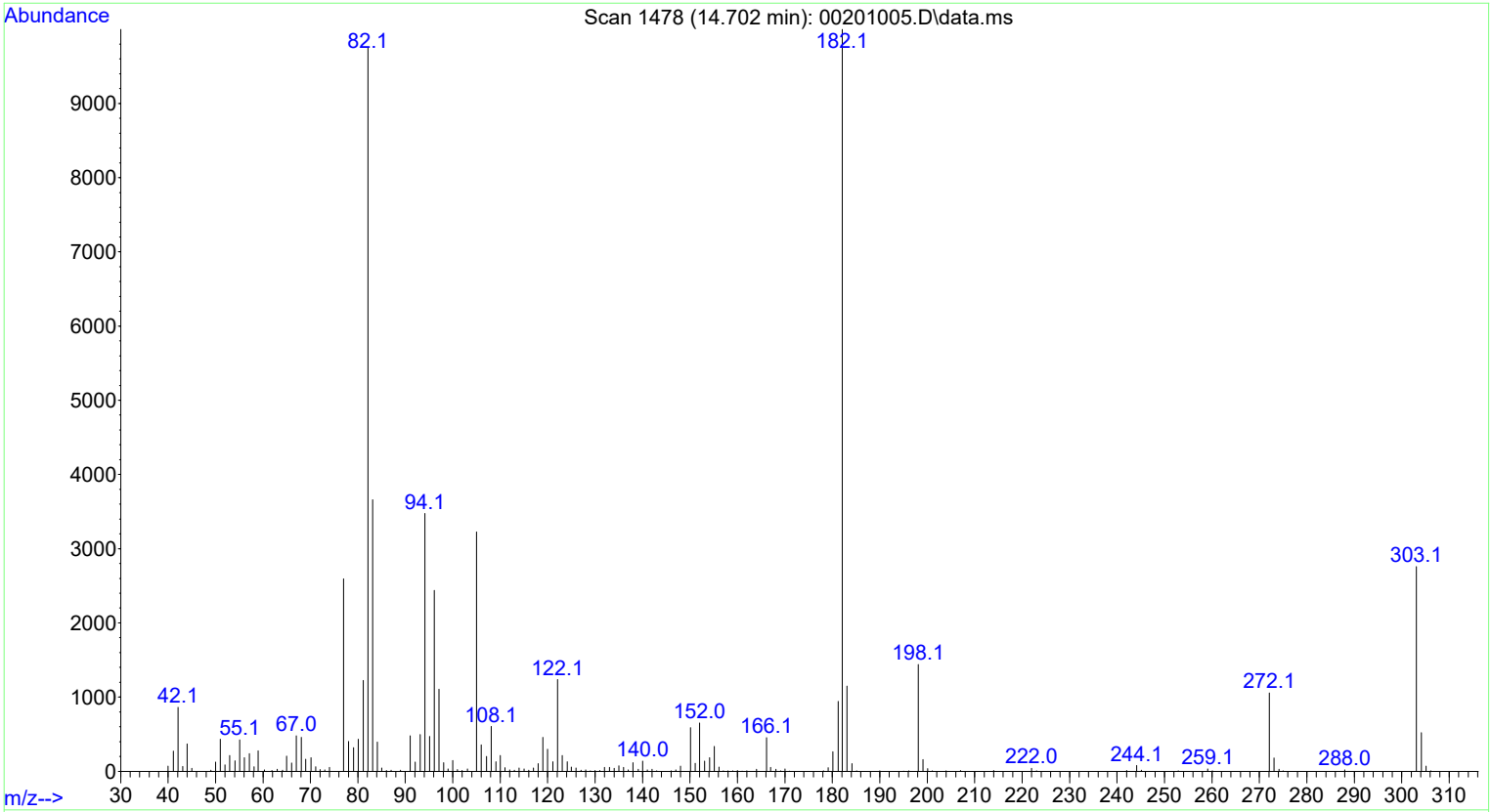


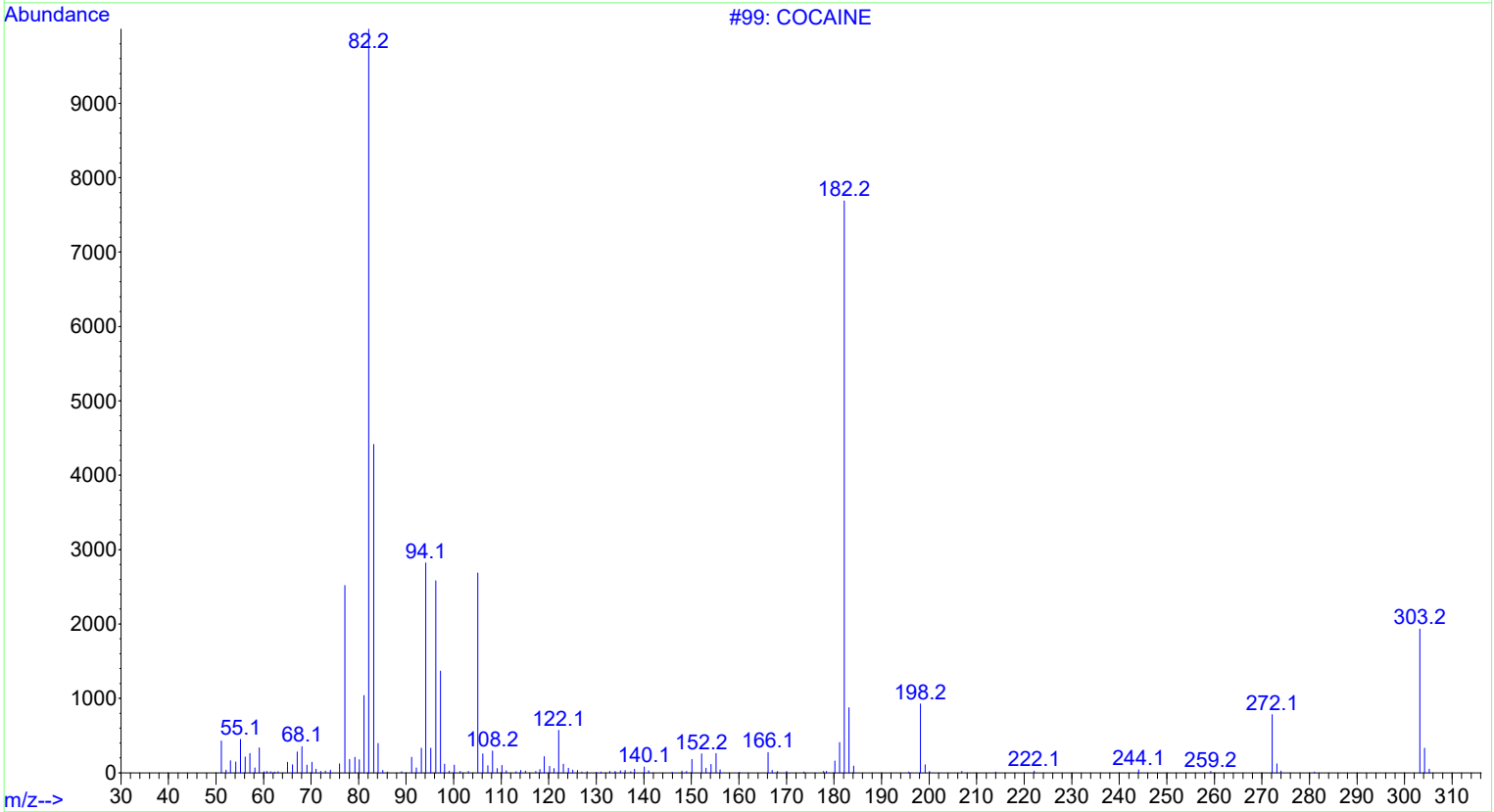
File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\011325\00201005.D
Acquired : 13 Jan 2025 10:08 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



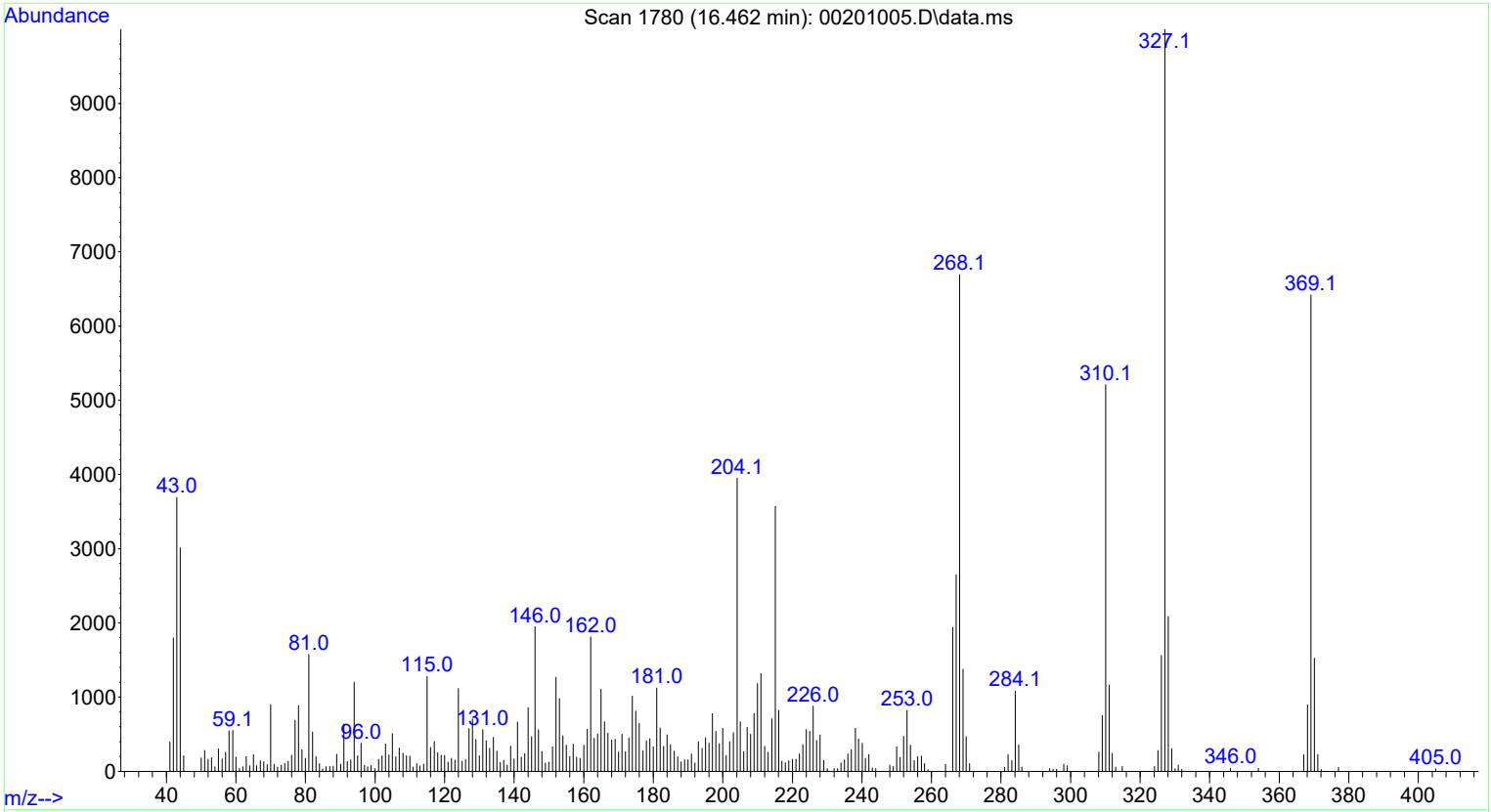


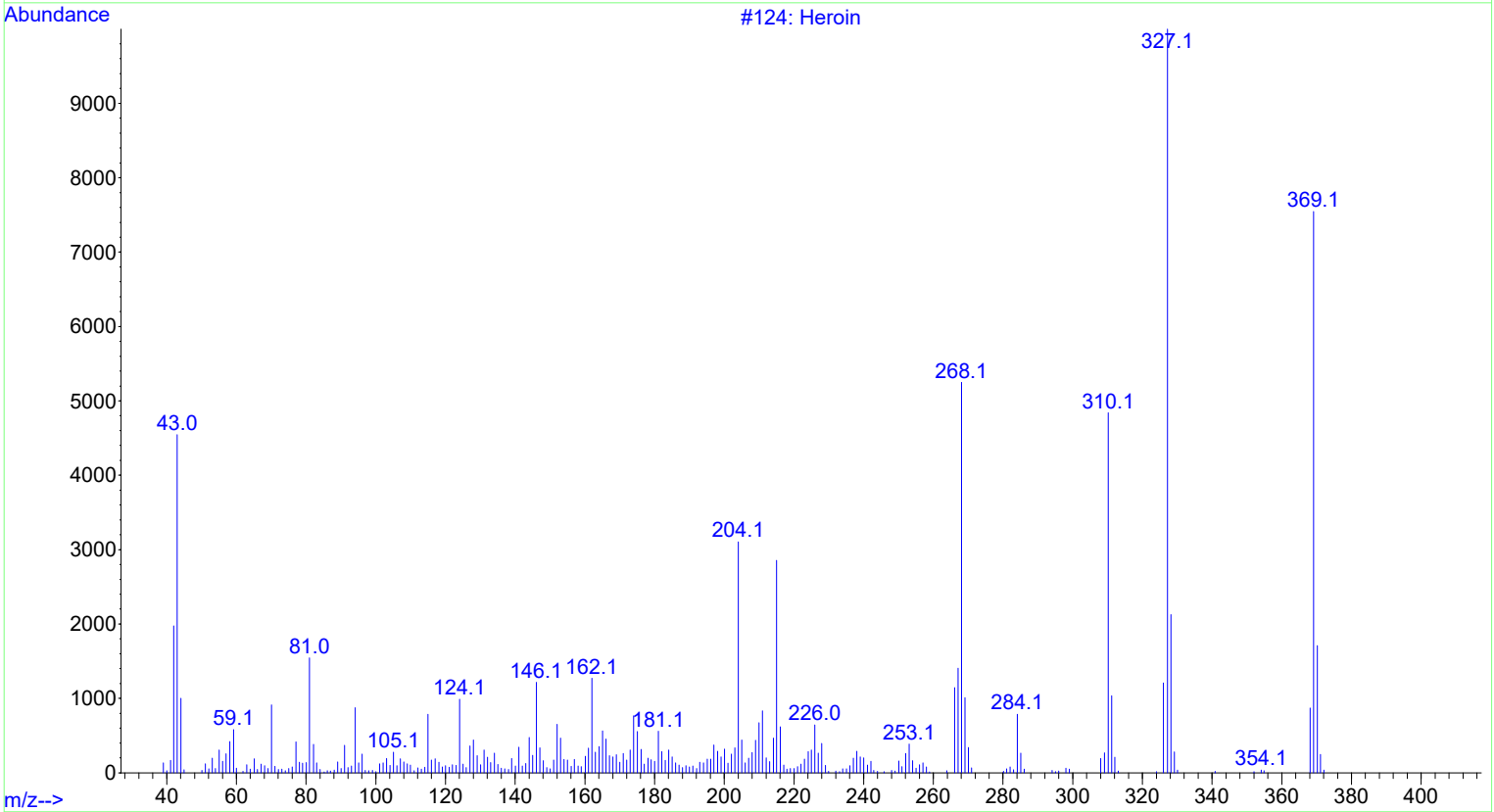
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Acquired : 13 Jan 2025 10:08 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



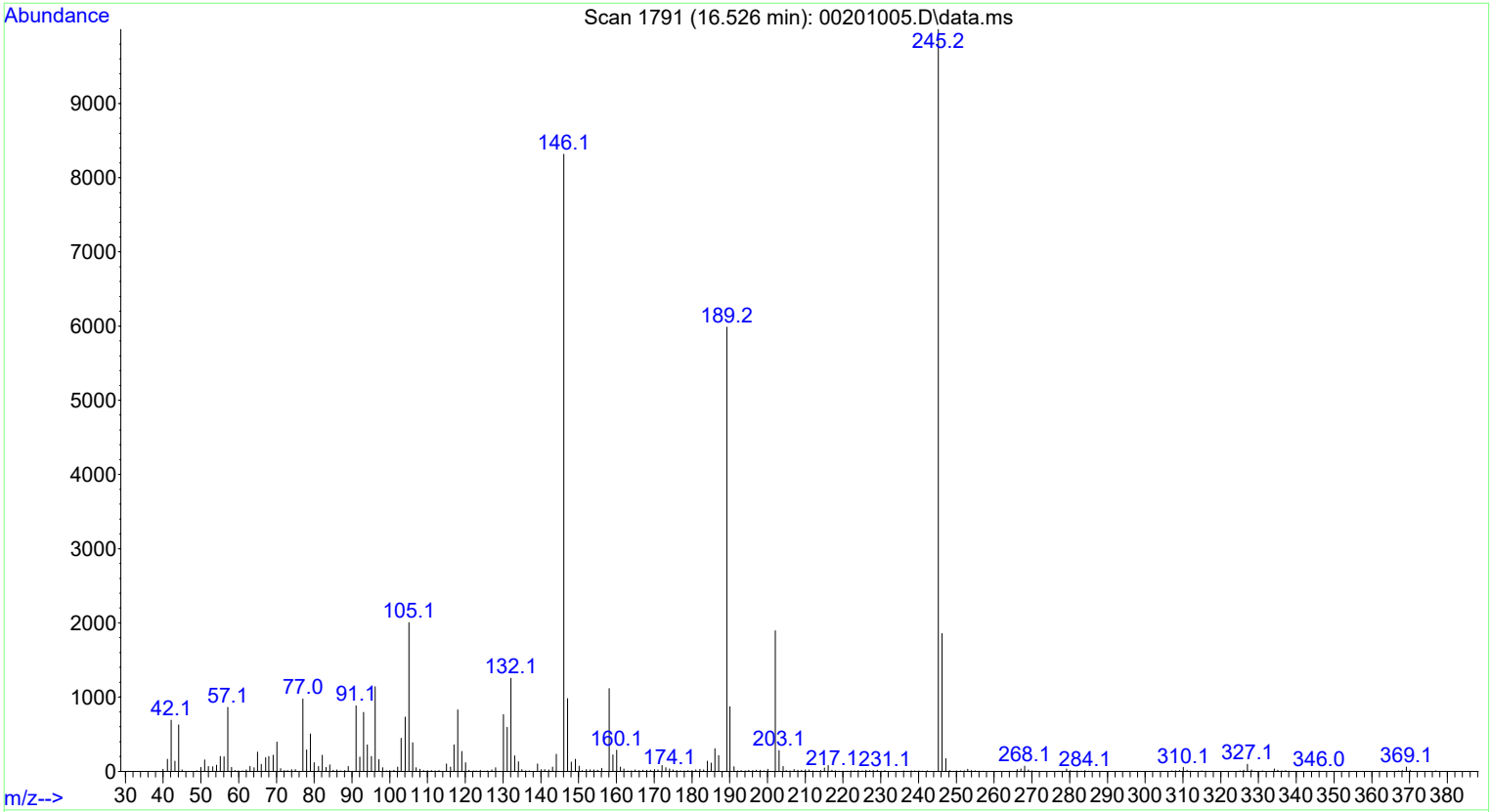


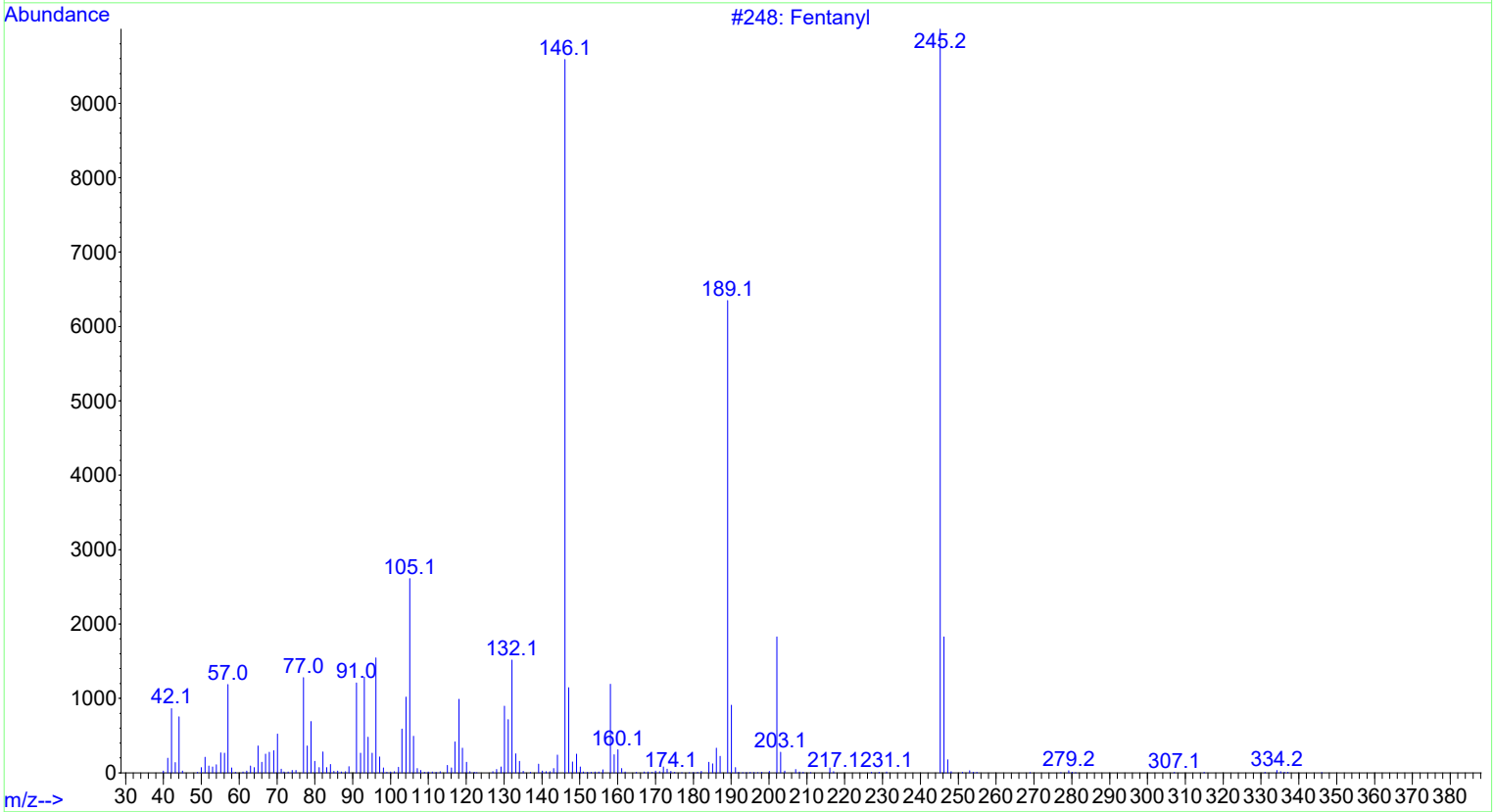
File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\011325\00201005.D
Acquired : 13 Jan 2025 10:08 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



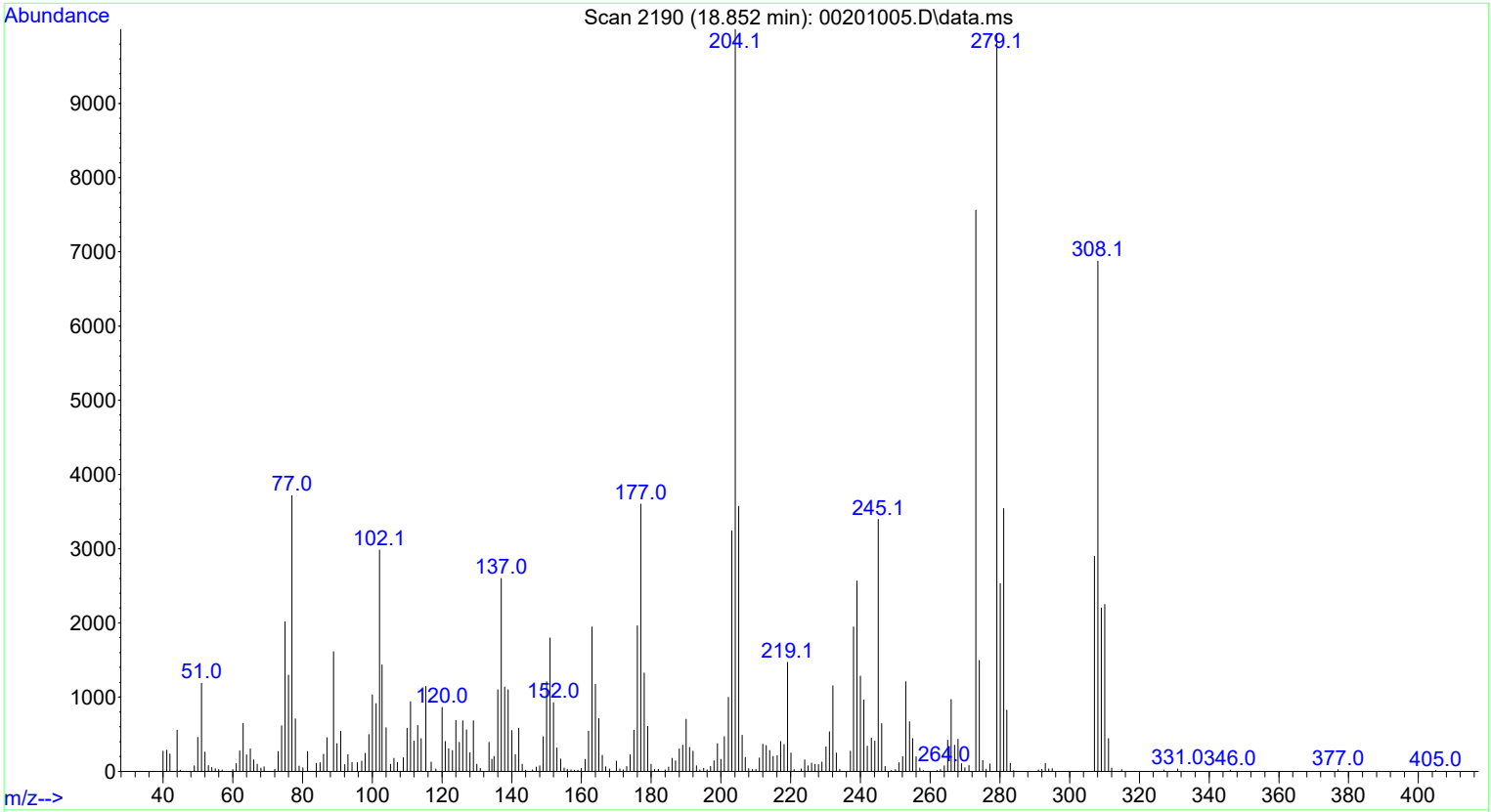


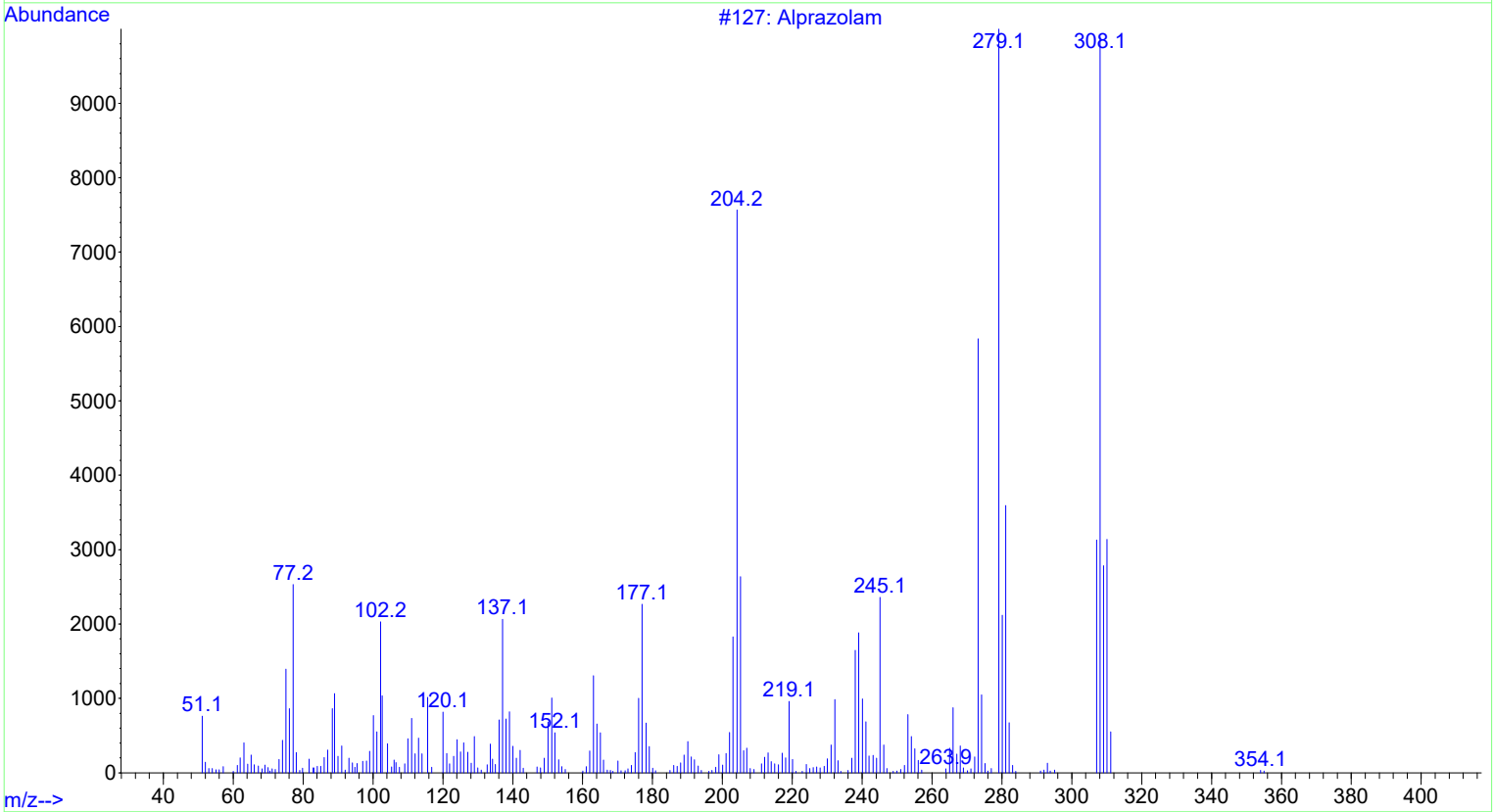
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... 2025 Data\011325\00201005.D
Acquired : 13 Jan 2025 10:08 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



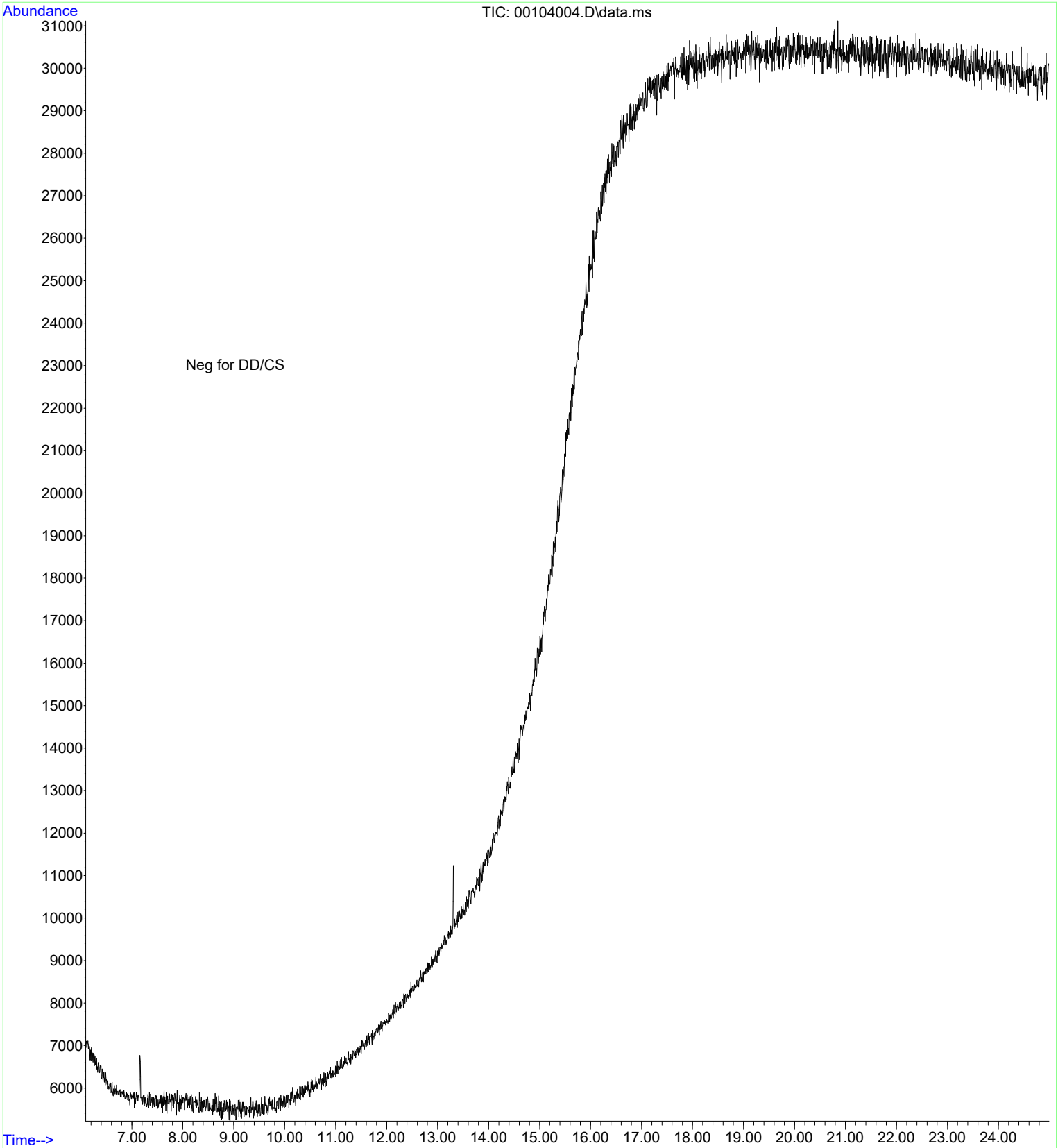


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File       :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
...         2025 Data\011325\00201005.D
Acquired   : 13 Jan 2025  10:08     using AcqMethod DrugTest35MS.M
Instrument :   GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060)                  000002669
Misc Info  : in ACN                                         000002669
Vial Number: 2
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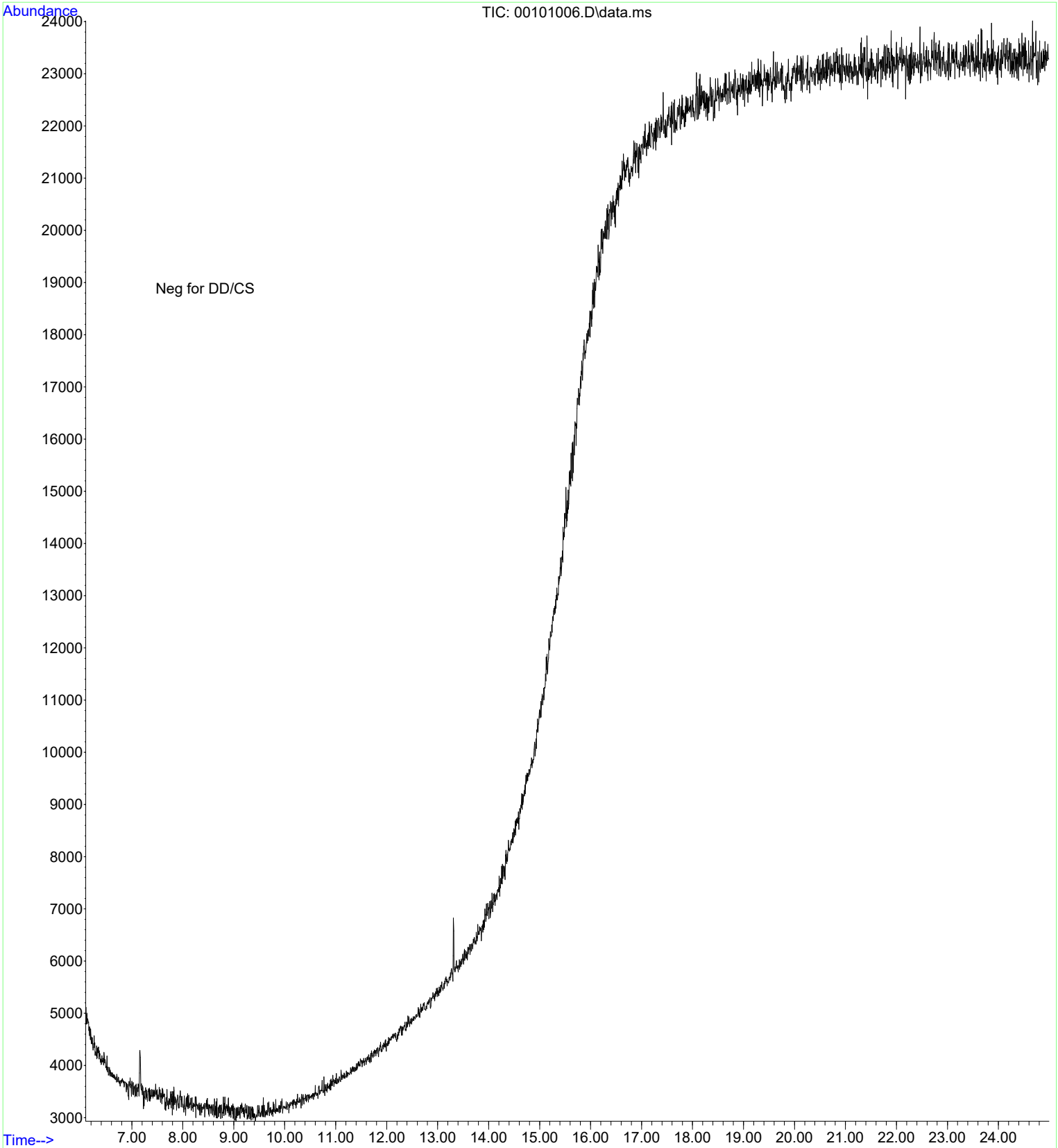




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... 2025 Data\011325\00104004.D
Acquired : 13 Jan 2025 09:35 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: BLANK (C-19-0068) prior to Cayman GC/MS mix 3 (R-24-060) 000002668
Misc Info : ACN 000002668
Vial Number: 1



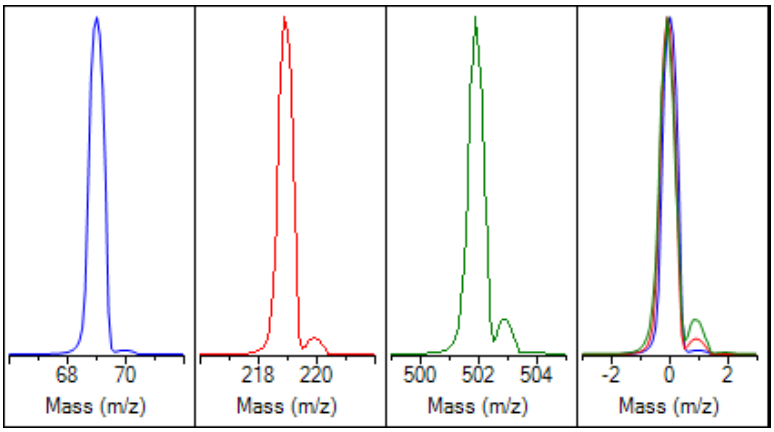
File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\011325\00101006.D
Acquired : 13 Jan 2025 10:37 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Blank (C-19-0068) - Instrument ready 000002668
Misc Info : ACN 000002668
Vial Number: 1



High Efficiency Source Autotune - 5977

Tune timestamp: 1/24/2025 9:21 AM (UTC-06:00) GCMS #4

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



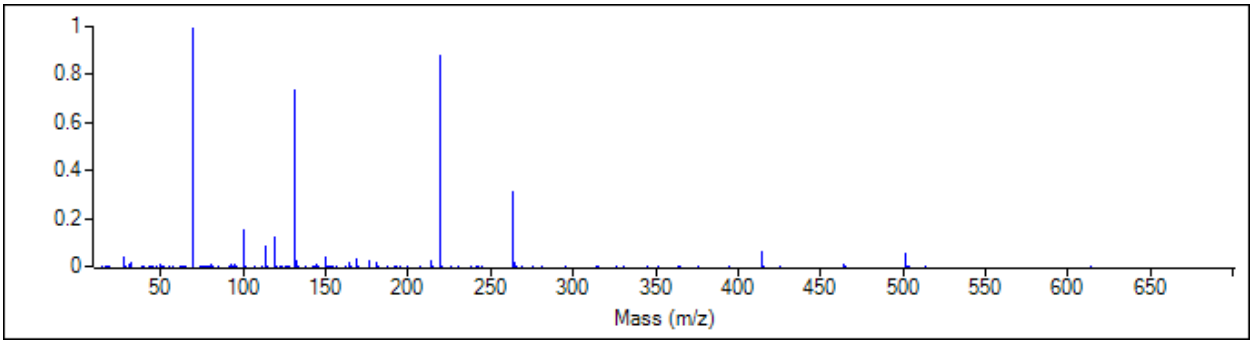
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	82
Electron Energy	70.0	Mass Offset	-28
Filament	1	Amu Gain	2437
Repeller	12.78	Amu Offset	136.06
Ion Focus	149.6	Width219	0.001
Entrance Lens	5.0	DC Polarity	Pos
Ent Lens Offset	16.31	HED Enable	On
Ion Body	5.25	EM Volts	2165.0
Post Extractor 1	17	Extractor Lens	14.30
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	464,220	100.0%	0.61
218.90	425,289	91.6%	0.60
501.90	29,995	6.5%	0.59

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	7.12e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	121	69.00	444,544	1,734,580



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	444,544	100.0%	70.00	5,254	1.2%
219.00	219.00	392,576	88.3%	219.90	18,600	4.7%
502.00	502.00	26,160	5.9%	503.00	2,822	10.8%

Air/Water Check: H20 ~0.1% N2 ~4.1% O2 ~1.2% CO2 ~0.2% N2/H20 ~4516.3%

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 8797.261

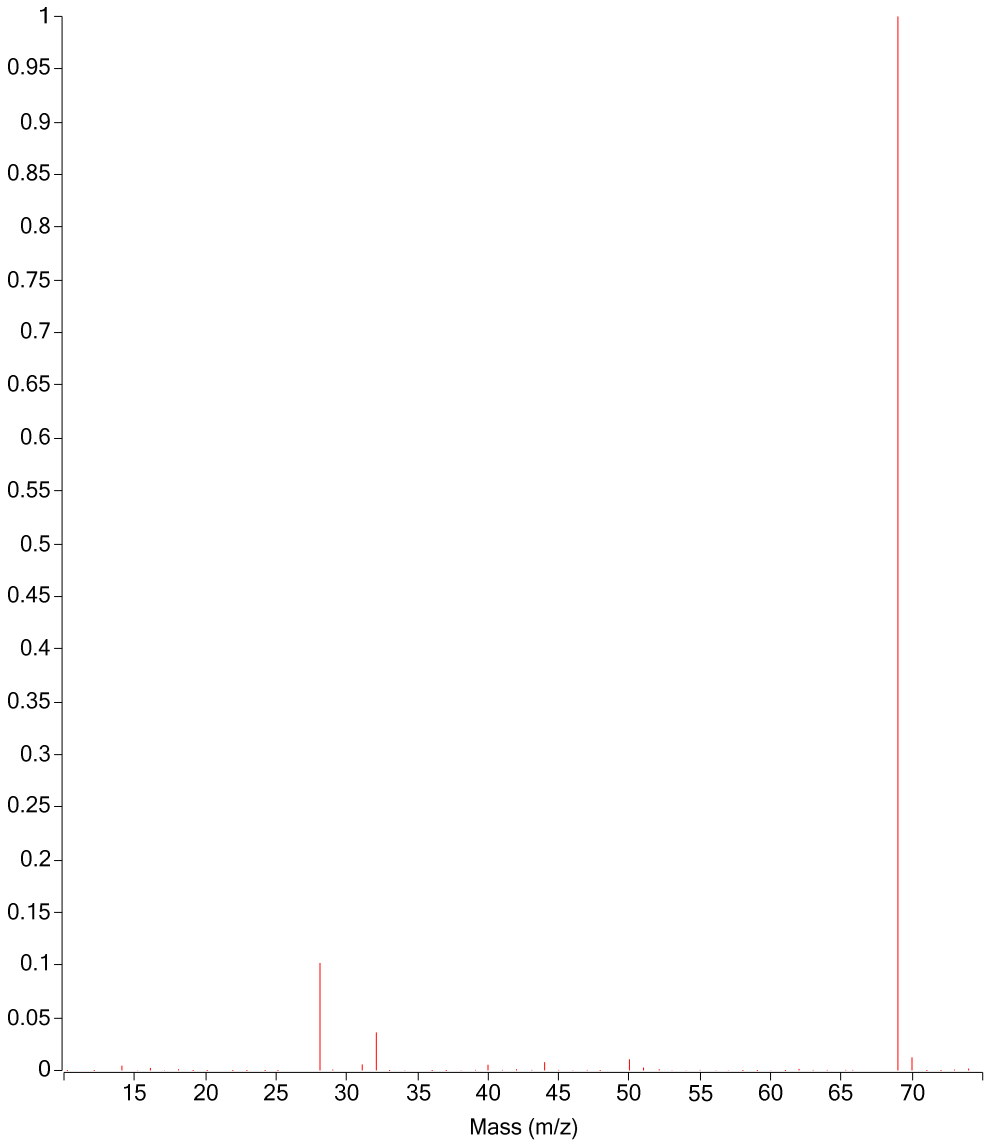
Repeller maximum 35 volts using ion 219; Gain Factor 0.0880

Mass Gain Values(Scan Speed): 92(3) 92(2) 100(1) 125(0) 177(FS1) 176(FS2) 110(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	136.1	136.1	136.1	136.1	136.1	136.1	136.1
Entrance Lens Offset	16.3	16.3	16.3	16.3	16.3	16.3	16.3

597x Air and Water Check

Instrument: GCMS #4
Fri Jan 24 09:09:51 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: HES_Atune.u

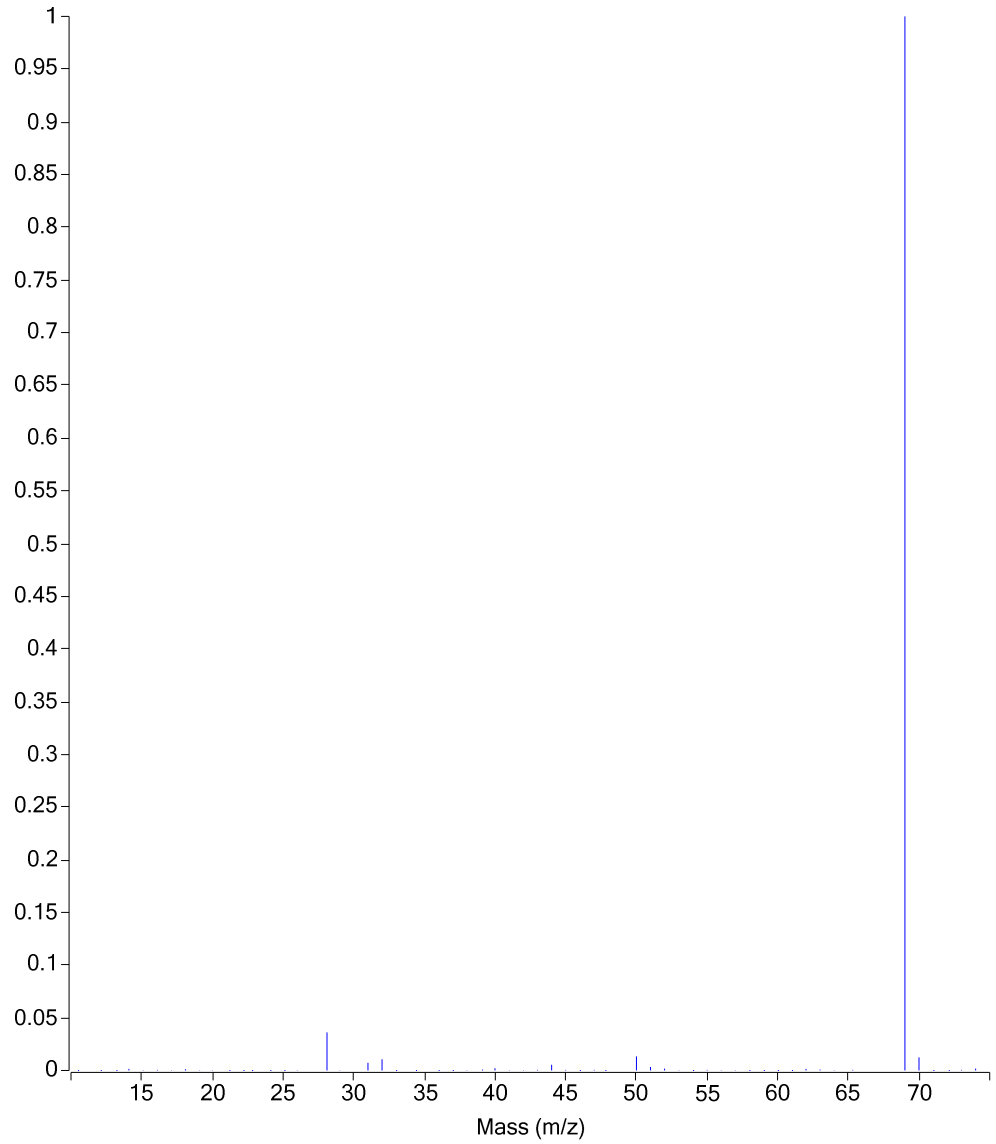
Relative abundances:

18/69 =	0.13	Water%	(counts=1034)
28/69 =	10.20	Nitrogen%	(counts=82936)
32/69 =	3.62	Oxygen%	(counts=29440)
44/69 =	0.80	Carbon Dioxide%	(counts=6489)
28/18 =	8020.89	Nitrogen/Water%	

Initial Air and Water check. Tightened the column
interface nut prior to next Air and Water check - DN/DS 01/24/2025

597x Air and Water Check

Instrument: GCMS #4
Fri Jan 24 09:11:45 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: HES_Atune.u

Relative abundances:

18/69 =	0.13	Water%	(counts=758)
28/69 =	3.62	Nitrogen%	(counts=21520)
32/69 =	1.07	Oxygen%	(counts=6381)
44/69 =	0.56	Carbon Dioxide%	(counts=3324)
28/18 =	2839.05	Nitrogen/Water%	

Instrument Name : GCMS #4
DC Polarity : Positive
Filament 1
Current Vacuum status :High Vacuum: 5.65E-06 Torr Turbo:100%

BasePeak should be 69 or 219		OK
Position of mass 69	69.00	OK
Position of mass 219	218.99	OK
Position of mass 502	502.00	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	219.96	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%)	4.61	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.07	OK
Ratio of 219 to 69 should be > 40% and is	86.70	OK
Ratio of 502 to 69 should be > 2.4% and is	5.02	OK
Mass 69 Precursor (<= 3%)	0.66	OK
Mass 219 Precursor (<= 6%)	1.35	OK
Mass 502 Precursor (<= 12%)	3.59	OK

597x Air and Water Check
Fri Jan 24 09:26:24 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%)	0.09	OK
Ratio of 28 to 69 (<10%)	4.08	OK
Electron Multiplier Voltage	2165	OK

Tune portion of System Verification passed.

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

01/20/2024 - 01/26/2025

[X] **Tune:** DS/DN **01/24/2024 - HES Autotune**

Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35MS	8.048	7.967	8.128
Cocaine	R-24-060	DrugTest35MS	14.686	14.539	14.832
Heroin	R-24-060	DrugTest35MS	16.422	16.257	16.586
Fentanyl	R-24-060	DrugTest35MS	16.496	16.331	16.660
Alprazolam	R-24-060	DrugTest35MS	18.821	18.632	19.009

Brazoria County Crime Lab Area Percent Report

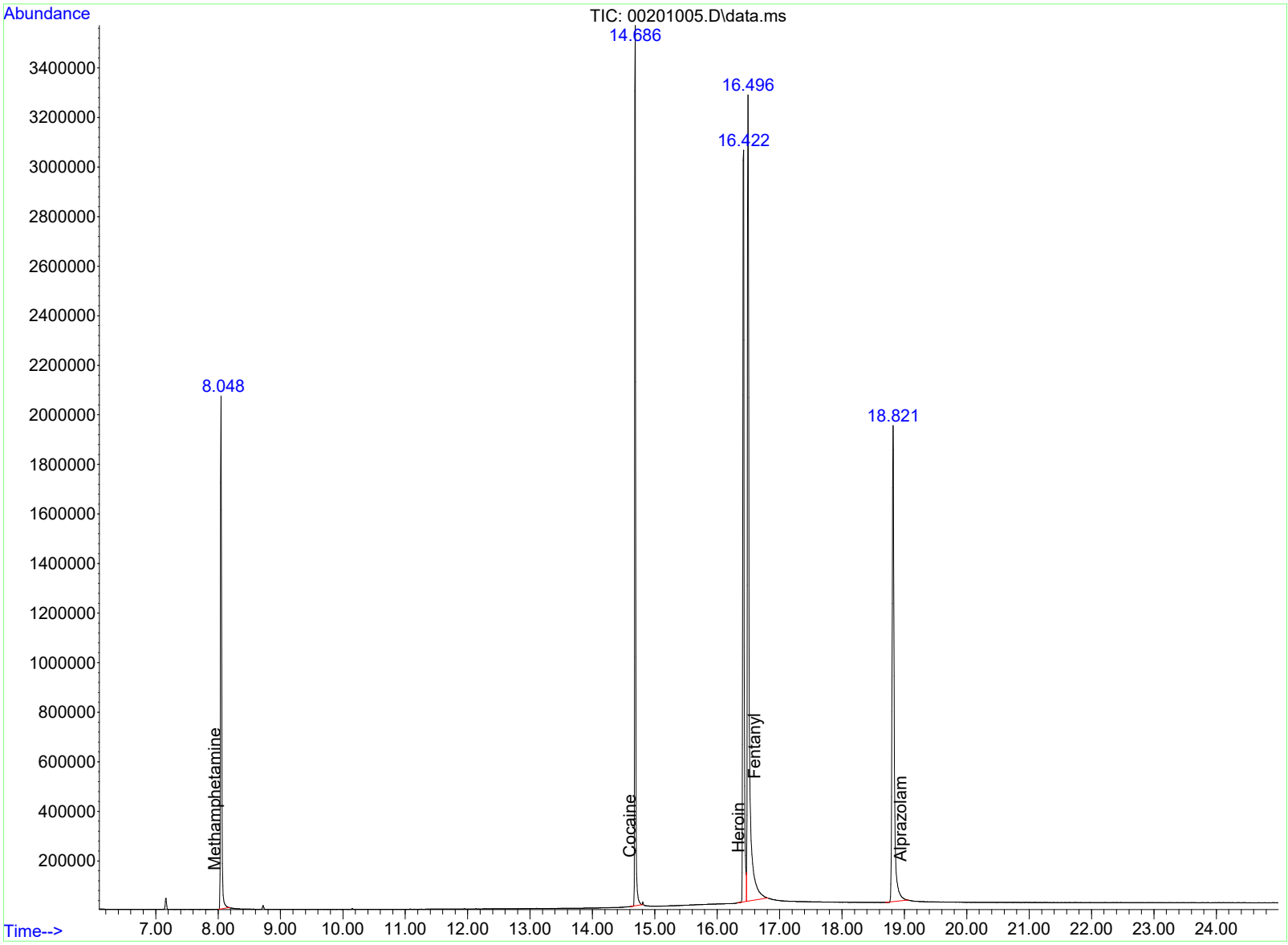
Data File: D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\2025 Data\012425\00201005.D
Method : D:\MassHunter\GCMS\1\methods\DrugTest35MS.M
Operator : AGILENT 4
Acq On : 24 Jan 2025 10:52
Sample : Cayman GC/MS mix 3 (R-24-060)
Misc : in ACN
ALS Vial : 2
ExpBcode : 000002669
ActBcode : 000002669

Signal : TIC: 00201005.D\data.ms

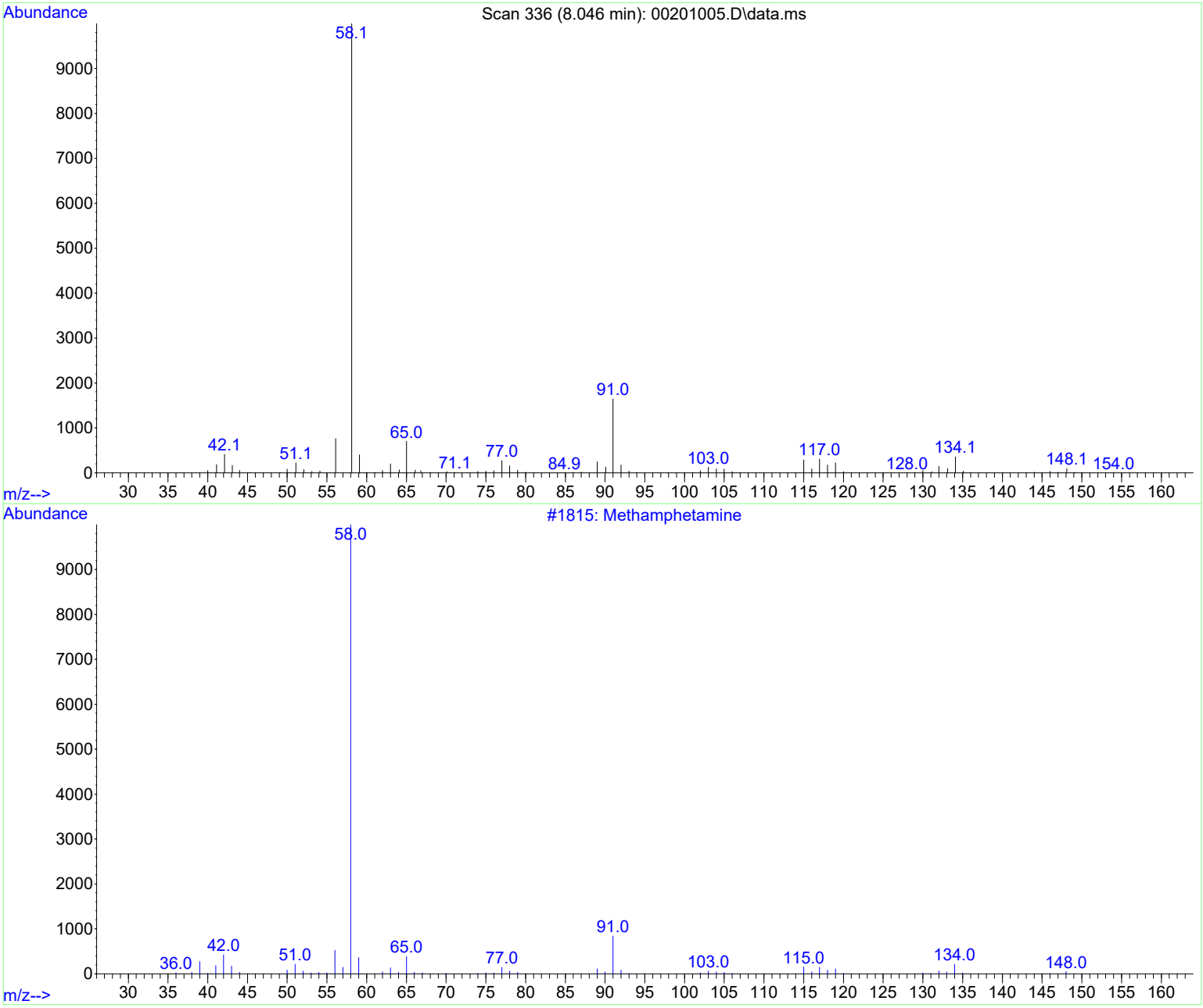
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.048	330	336	358	BB	2002412	27916510	42.70%	12.501%
2	14.686	1462	1475	1494	BV	3469014	39256396	60.04%	17.579%
3	16.422	1757	1773	1781	BV 2	3043183	46493288	71.11%	20.820%
4	16.496	1781	1786	1839	VB	3201908	65378950	100.00%	29.277%
5	18.821	2164	2185	2224	BB	1903050	44267763	67.71%	19.823%

Sum of corrected areas: 223312906

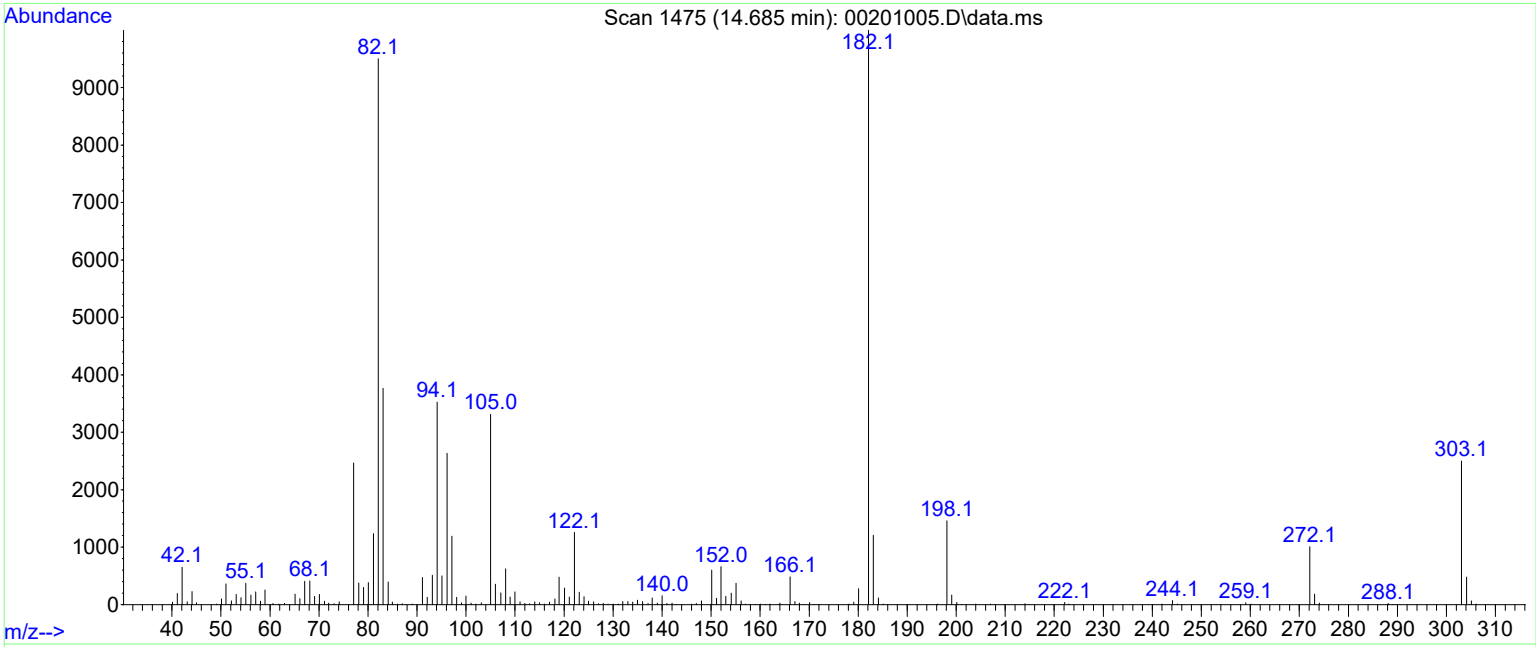
DrugTest35MS.M Fri Jan 24 14:30:26 2025 DRUGS

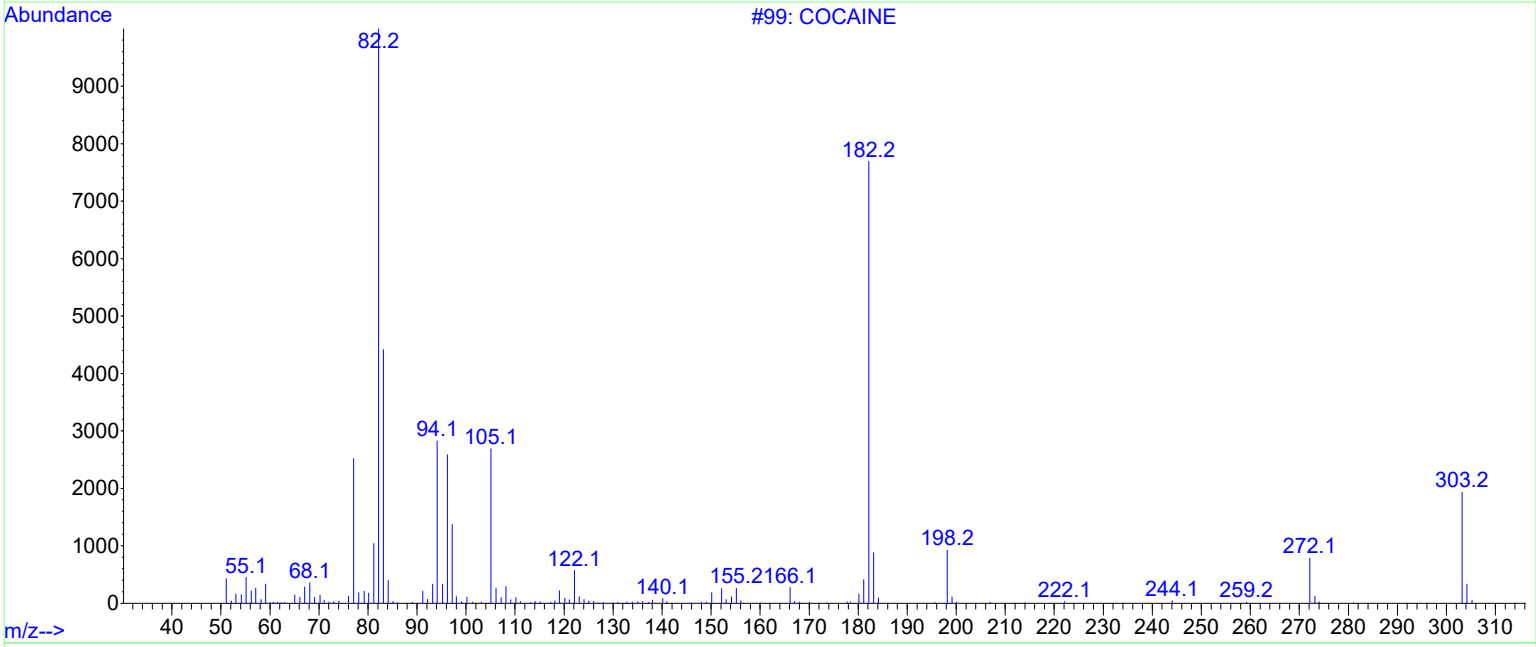


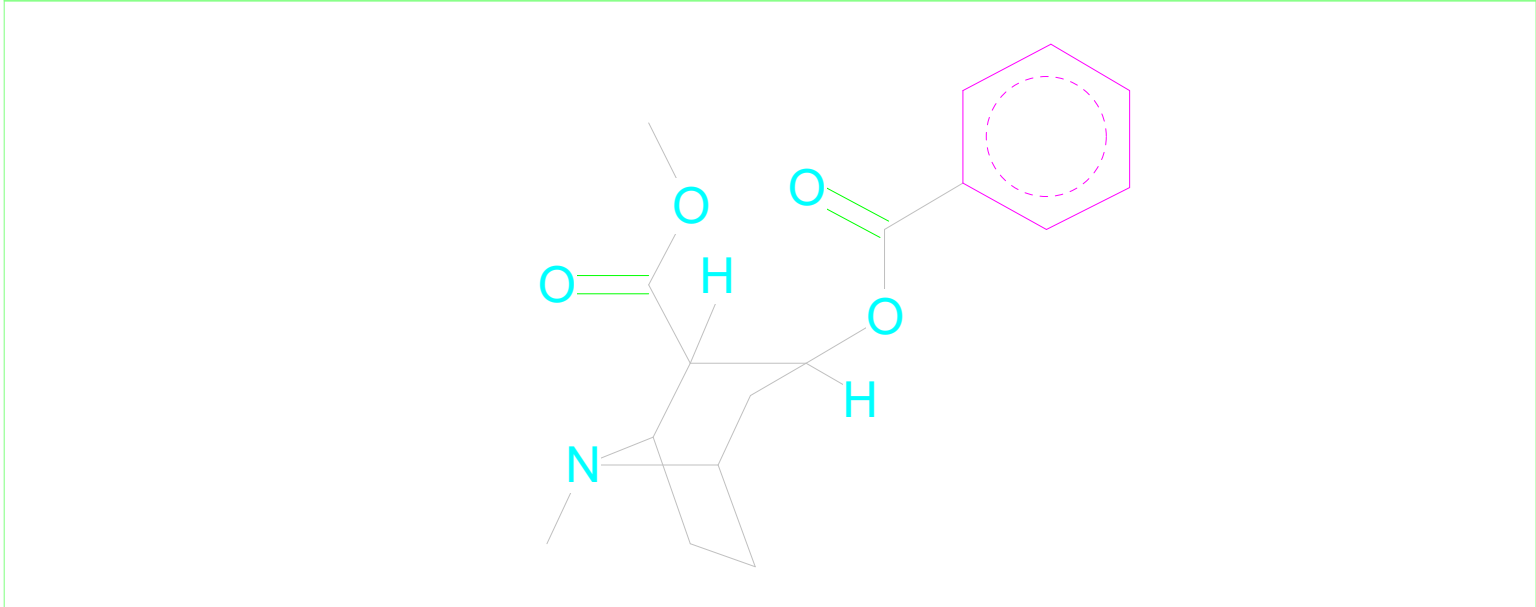
Library Searched : D:\MassHunter\GCMS#4 Library\SWGDRUG 3.13.L Sample Name: Cayman GC/MS mix 3 (R-24-060)
Quality : 78
ID : Methamphetamine



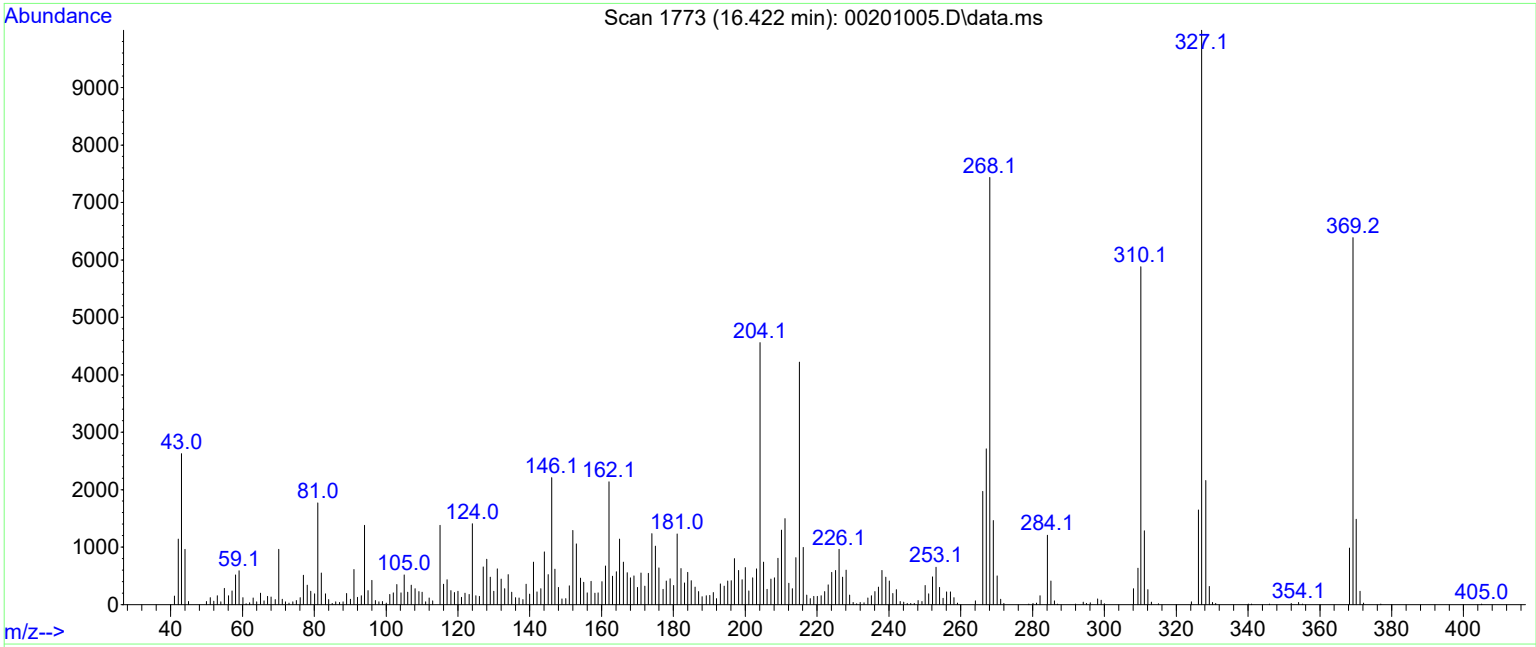
Library Searched : D:\MassHunter\GCMS#4 Library\DRUG.L Sample Name: Cayman GC/MS mix 3 (R-24-060)
Quality : 98
ID : COCAINE

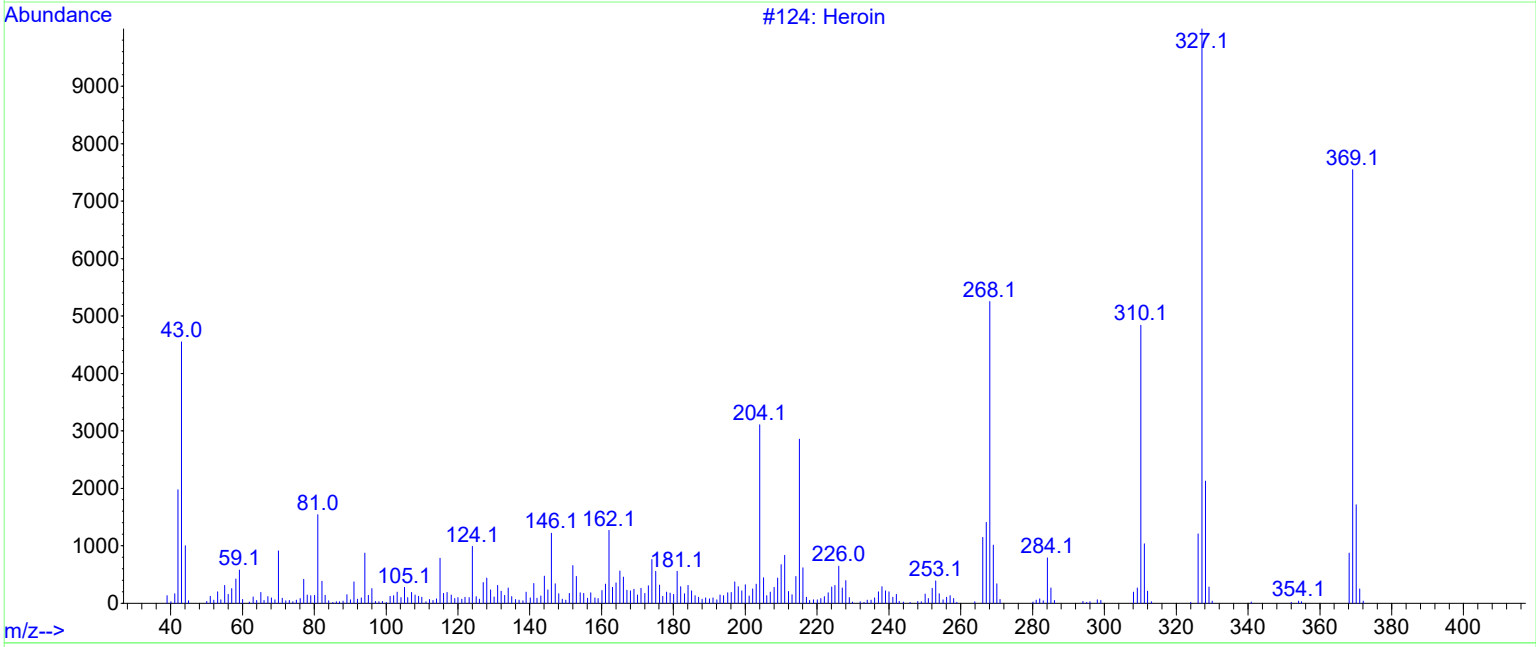


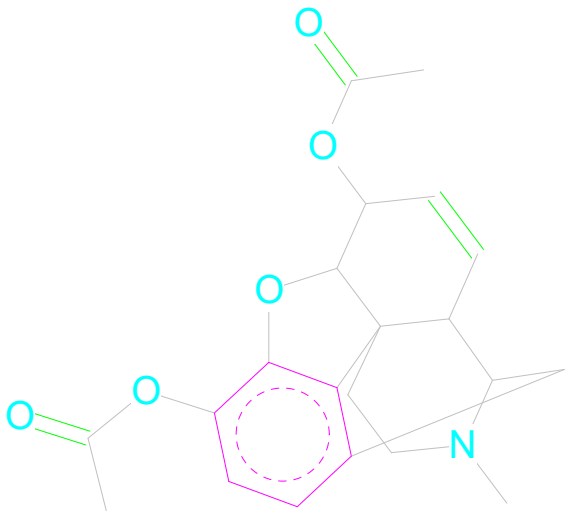




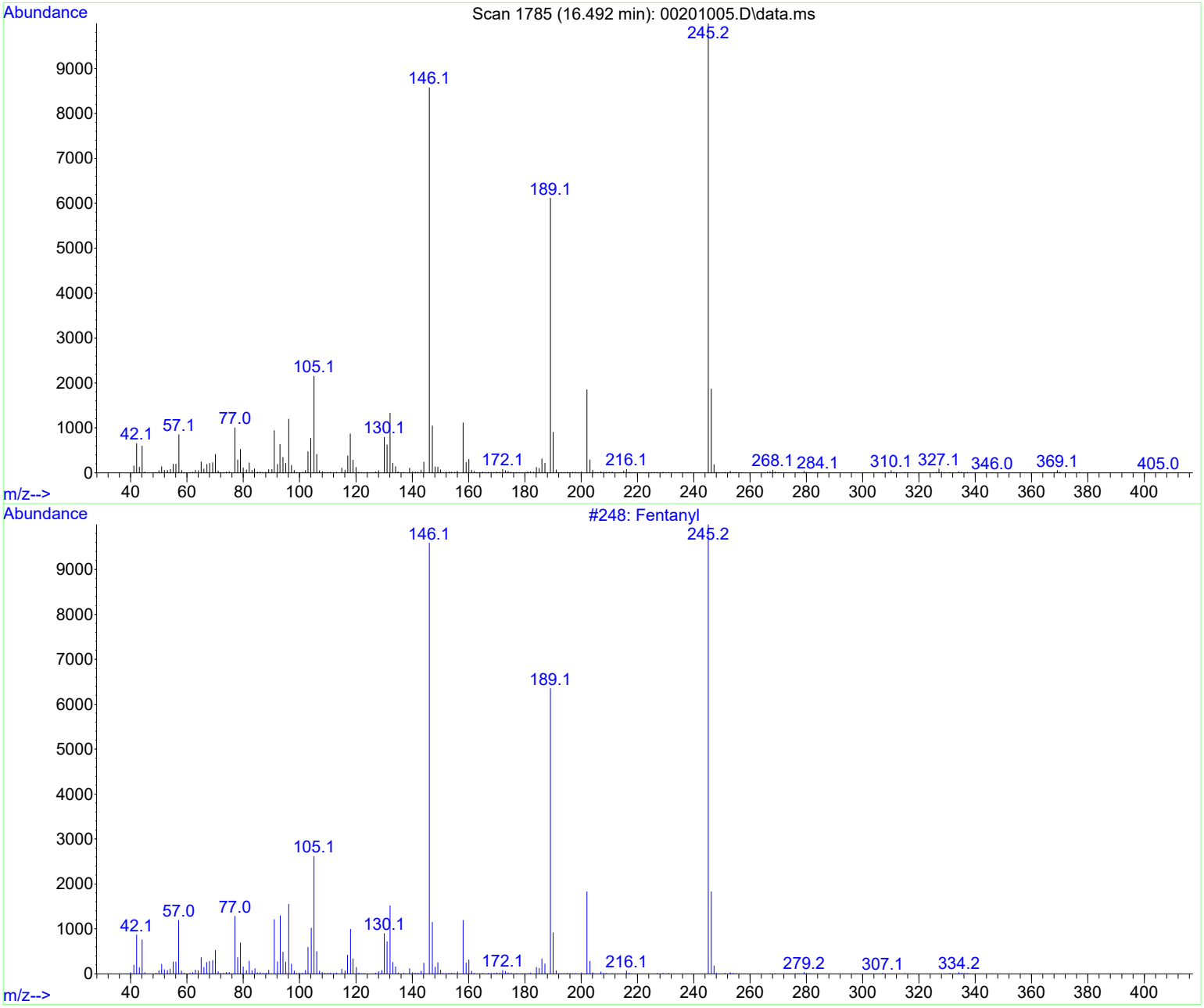
Library Searched : D:\MassHunter\GCMS#4 Library\DRUG.L Sample Name: Cayman GC/MS mix 3 (R-24-060)
Quality : 99
ID : Heroin



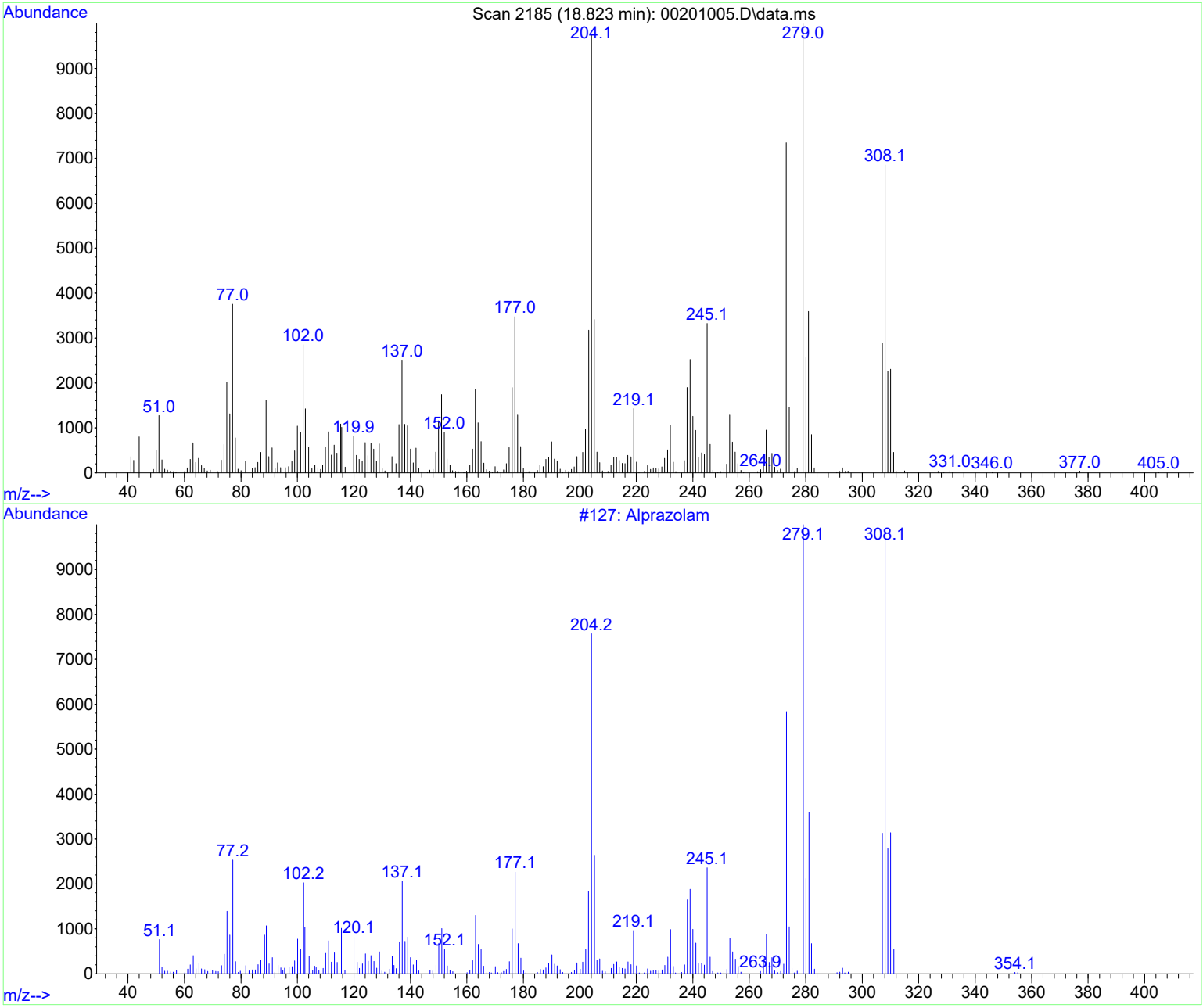




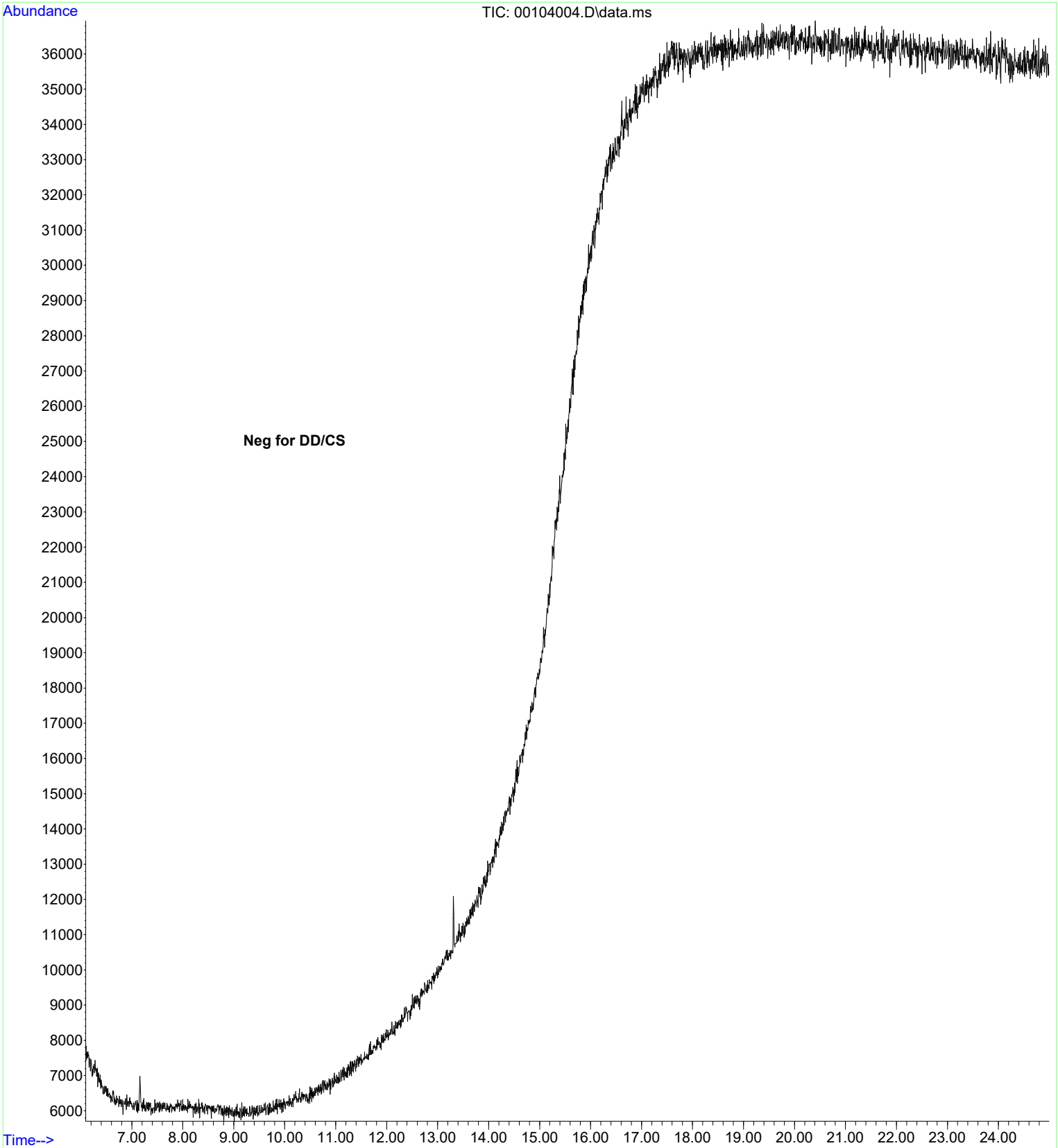
Library Searched : D:\MassHunter\GCMS#4 Library\DRUG.L Sample Name: Cayman GC/MS mix 3 (R-24-060)
Quality : 99
ID : Fentanyl



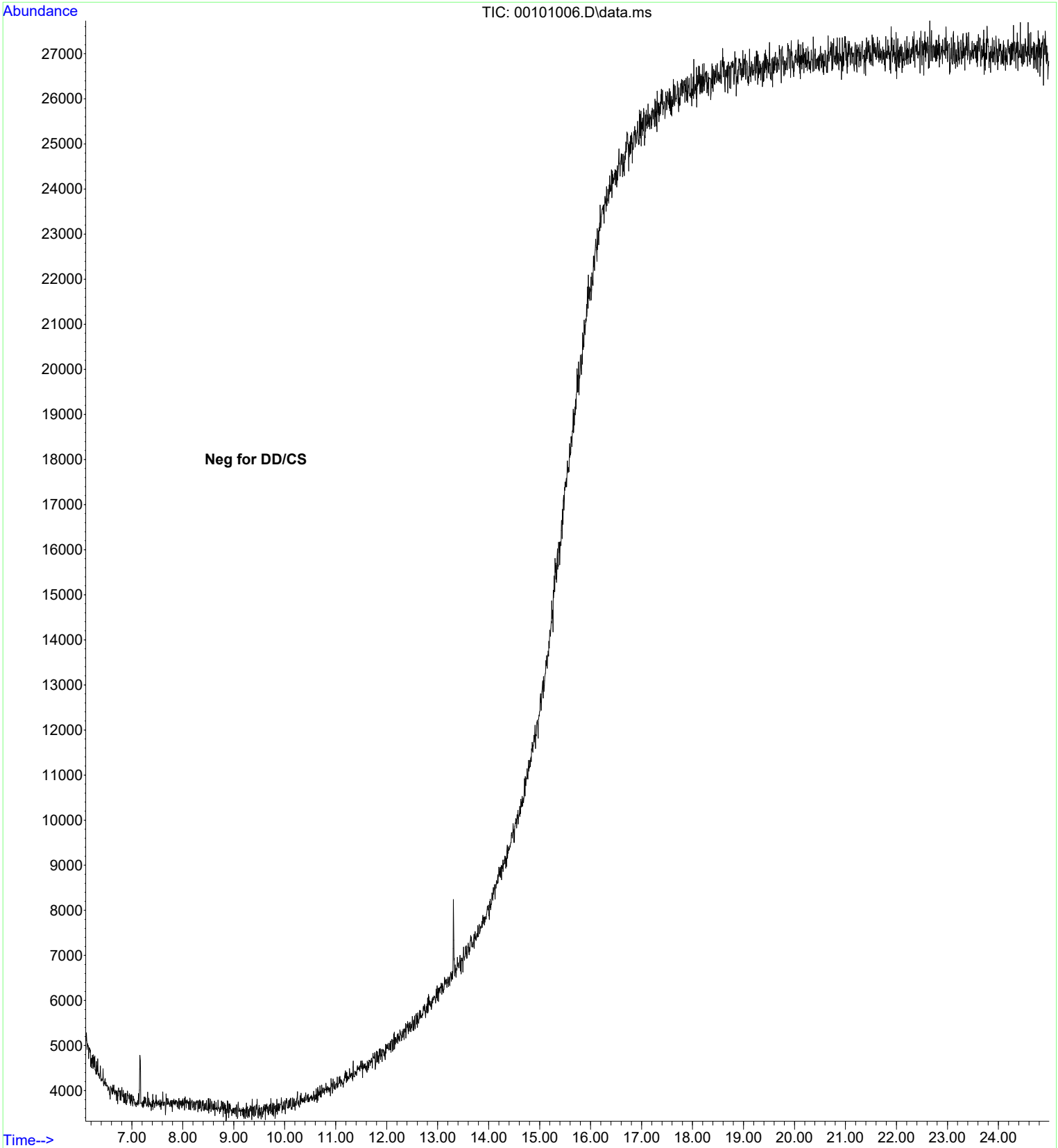
Library Searched : D:\MassHunter\GCMS#4 Library\DRUG.L Sample Name: Cayman GC/MS mix 3 (R-24-060)
Quality : 99
ID : Alprazolam



File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\012425\00104004.D
Acquired : 24 Jan 2025 10:23 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



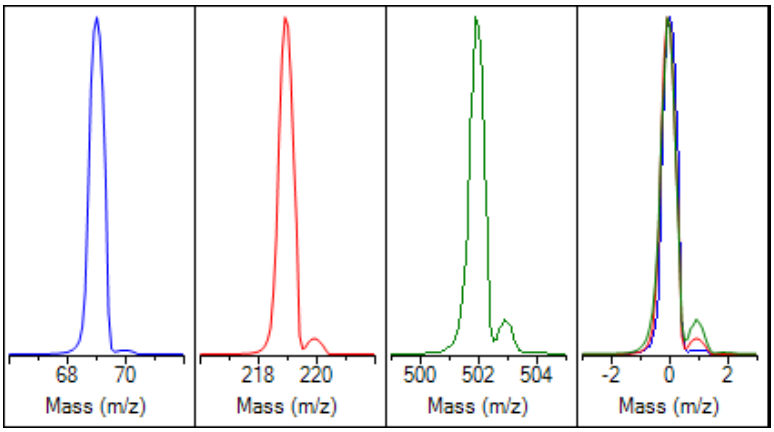
File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\012425\00101006.D
Acquired : 24 Jan 2025 11:20 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Blank (C-19-0068) - Instrument ready 000002668
Misc Info : ACN 000002668
Vial Number: 1



High Efficiency Source Autotune - 5977

Tune timestamp: 1/27/2025 8:17 AM (UTC-06:00) GCMS #4

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



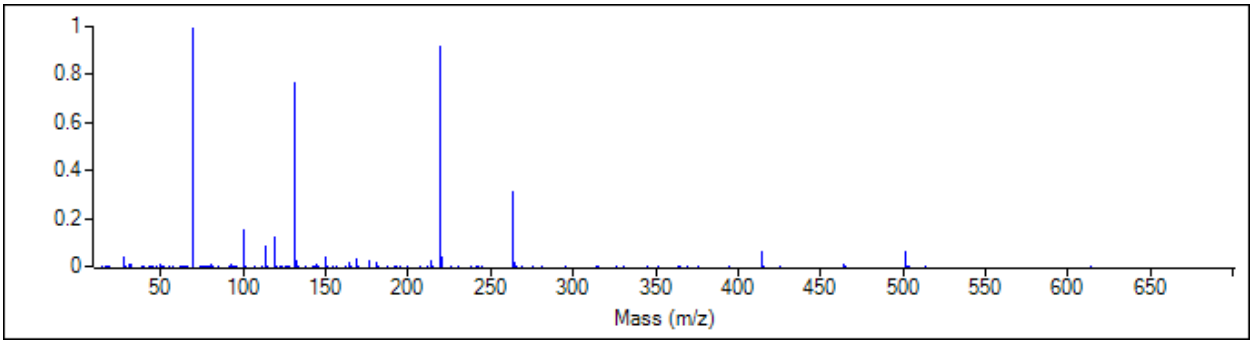
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	84
Electron Energy	70.0	Mass Offset	-28
Filament	1	Amu Gain	2440
Repeller	13.51	Amu Offset	136.88
Ion Focus	149.6	Width219	0.001
Entrance Lens	7.5	DC Polarity	Pos
Ent Lens Offset	15.10	HED Enable	On
Ion Body	5.25	EM Volts	2178.5
Post Extractor 1	15	Extractor Lens	14.30
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	473,551	100.0%	0.60
218.90	438,421	92.6%	0.59
501.90	27,103	5.7%	0.59

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	7.32e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	123	69.00	450,176	1,791,045



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	450,176	100.0%	70.00	5,335	1.2%
219.00	219.00	415,552	92.3%	220.00	19,216	4.6%
502.00	502.00	29,360	6.5%	503.00	2,781	9.5%

Air/Water Check: H20 ~0.1% N2 ~3.9% O2 ~1.1% CO2 ~0.2% N2/H20 ~2798.7%

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 11080.859

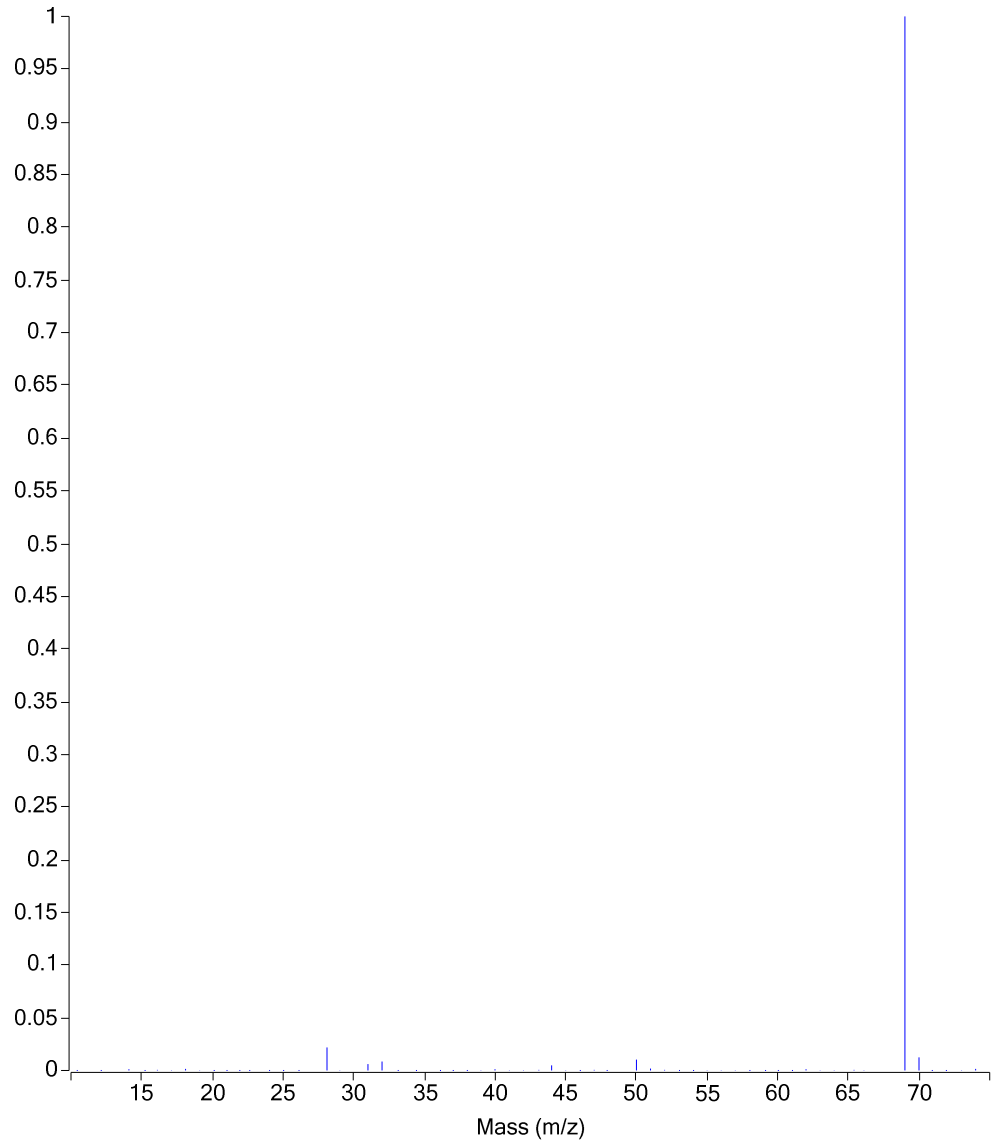
Repeller maximum 35 volts using ion 219; Gain Factor 0.1108

Mass Gain Values(Scan Speed): 95(3) 101(2) 116(1) 118(0) 143(FS1) 187(FS2) 109(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	15.1	15.1	15.1	15.1	15.1	15.1	15.1

597x Air and Water Check

Instrument: GCMS #4
Mon Jan 27 08:07:40 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: HES_Atune.u

Relative abundances:

18/69 =	0.15	Water%	(counts=1057)
28/69 =	2.18	Nitrogen%	(counts=14955)
32/69 =	0.84	Oxygen%	(counts=5758)
44/69 =	0.50	Carbon Dioxide%	(counts=3409)
28/18 =	1414.85	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	502.03	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	220.00	OK
Position of isotope mass 503	503.01	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%)	10.24	OK
Ratio of 219 to 69 should be > 40% and is	90.57	OK
Ratio of 502 to 69 should be > 2.4% and is	4.97	OK
Mass 69 Precursor (<= 3%)	0.71	OK
Mass 219 Precursor (<= 6%)	1.67	OK
Mass 502 Precursor (<= 12%)	4.86	OK

597x Air and Water Check
Mon Jan 27 08:21:36 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%)	3.90	OK
Electron Multiplier Voltage	2179	OK

Tune portion of System Verification passed.

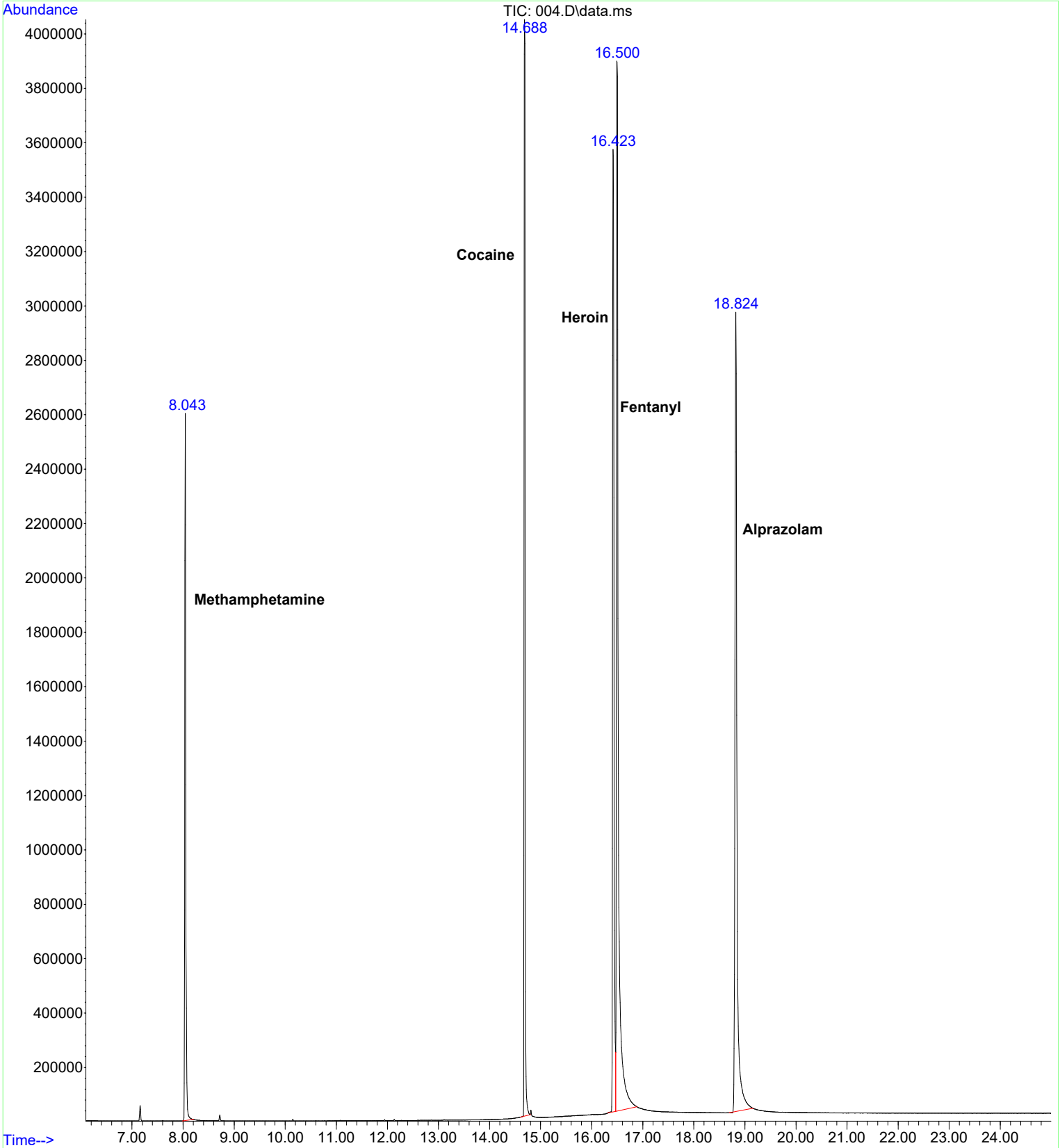
BCCL GC/MS #4
Retention Times for the Week of:

01/27/2025 - 02/02/2025

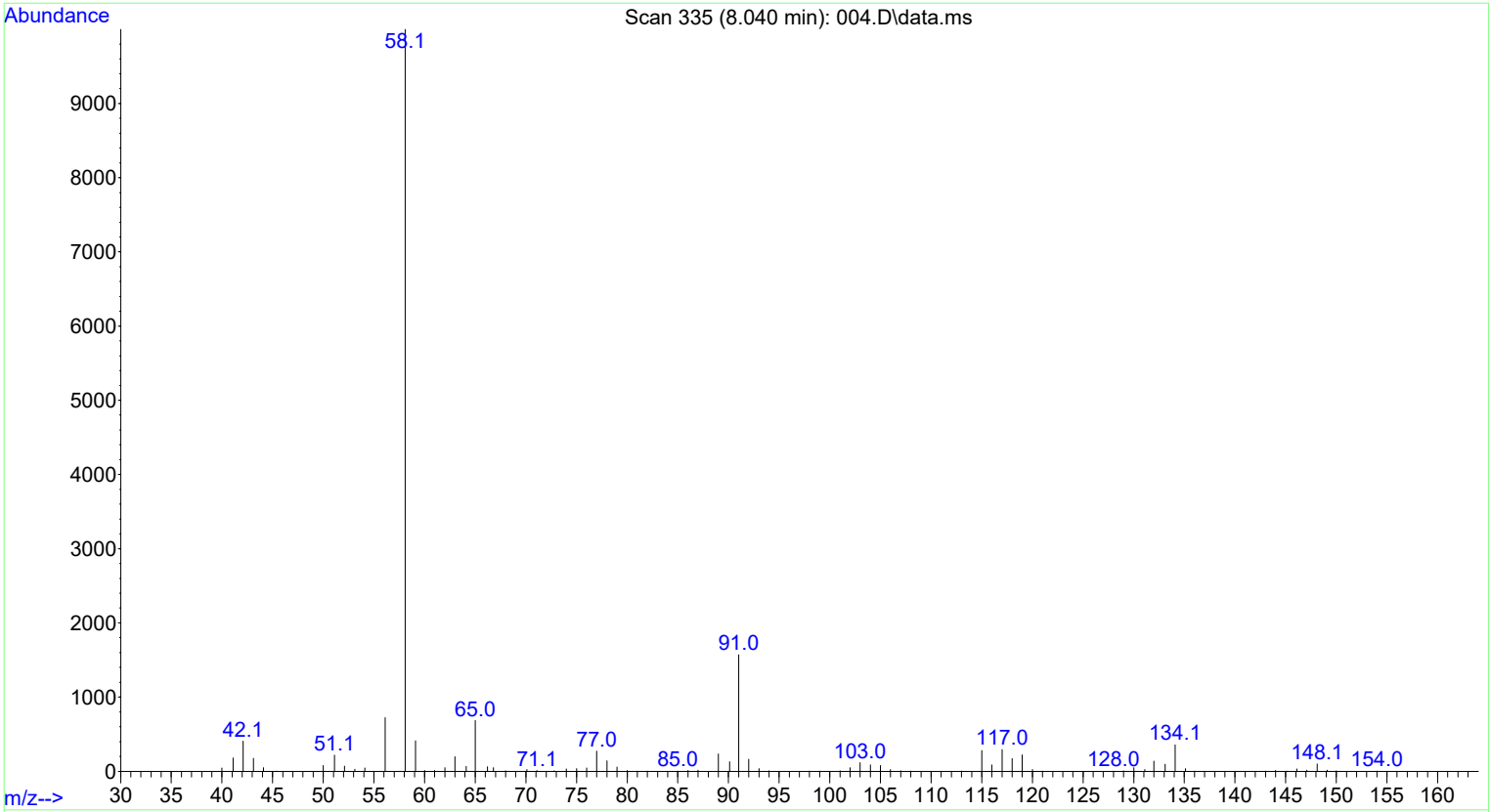
[X] **Tune:** DS/DN **01/27/2025 - HES Autotune**

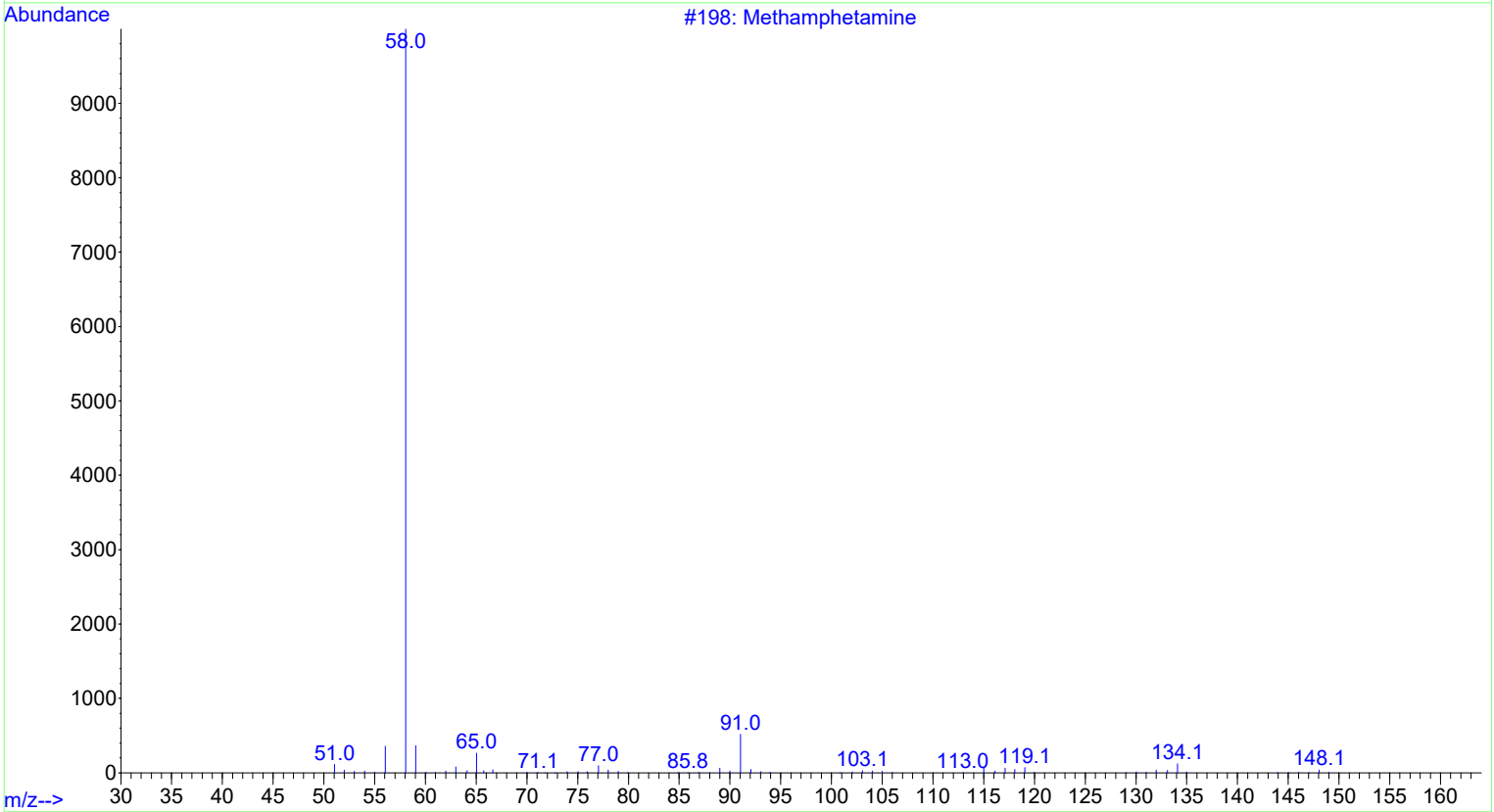
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35MS	8.043	7.962	8.123
Cocaine	R-24-060	DrugTest35MS	14.688	14.541	14.834
Heroin	R-24-060	DrugTest35MS	16.423	16.258	16.587
Fentanyl	R-24-060	DrugTest35MS	16.500	16.335	16.665
Alprazolam	R-24-060	DrugTest35MS	18.824	18.635	19.012

File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\012725\004.D
Acquired : 28 Jan 2025 11:19 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

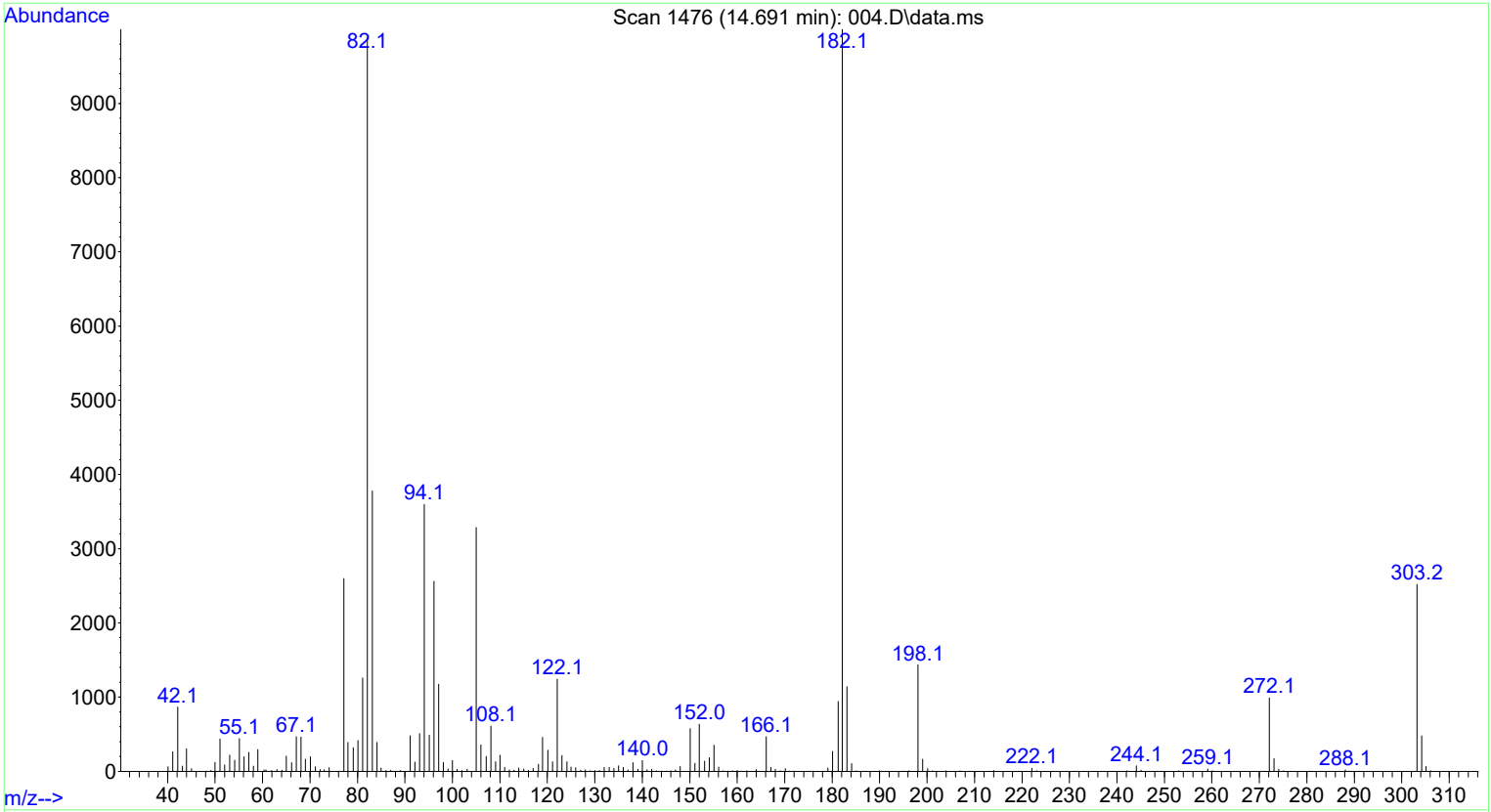


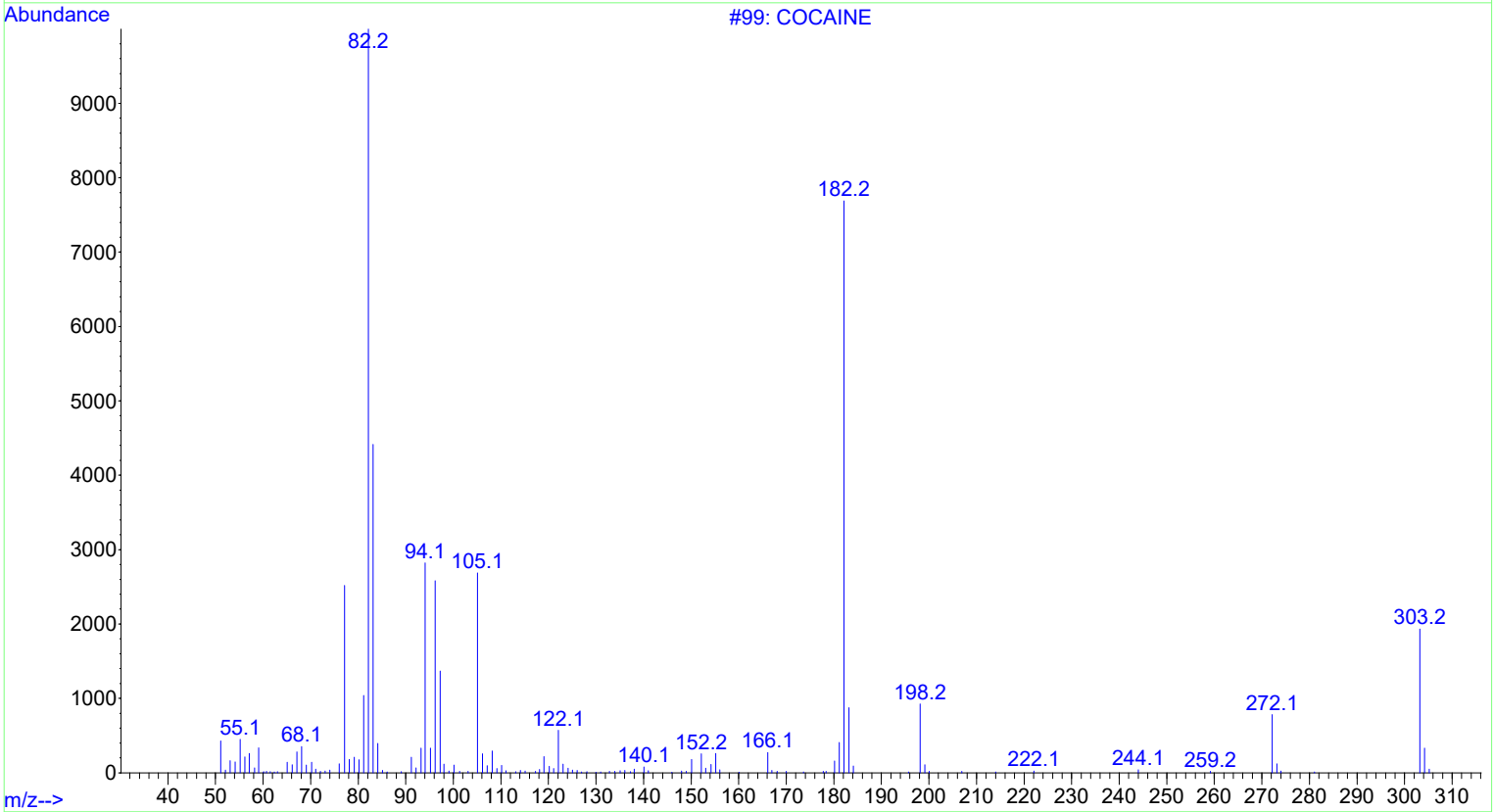
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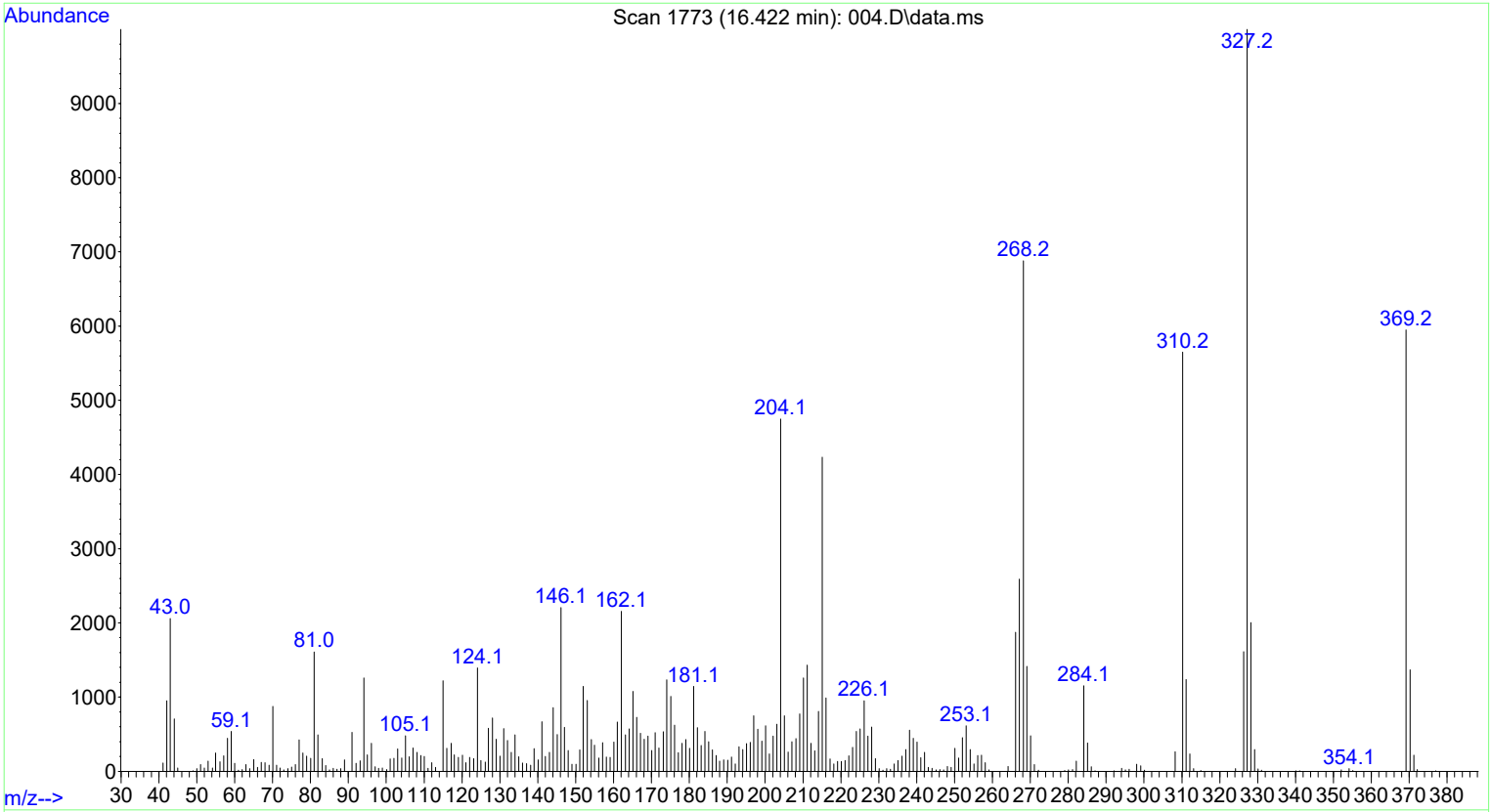


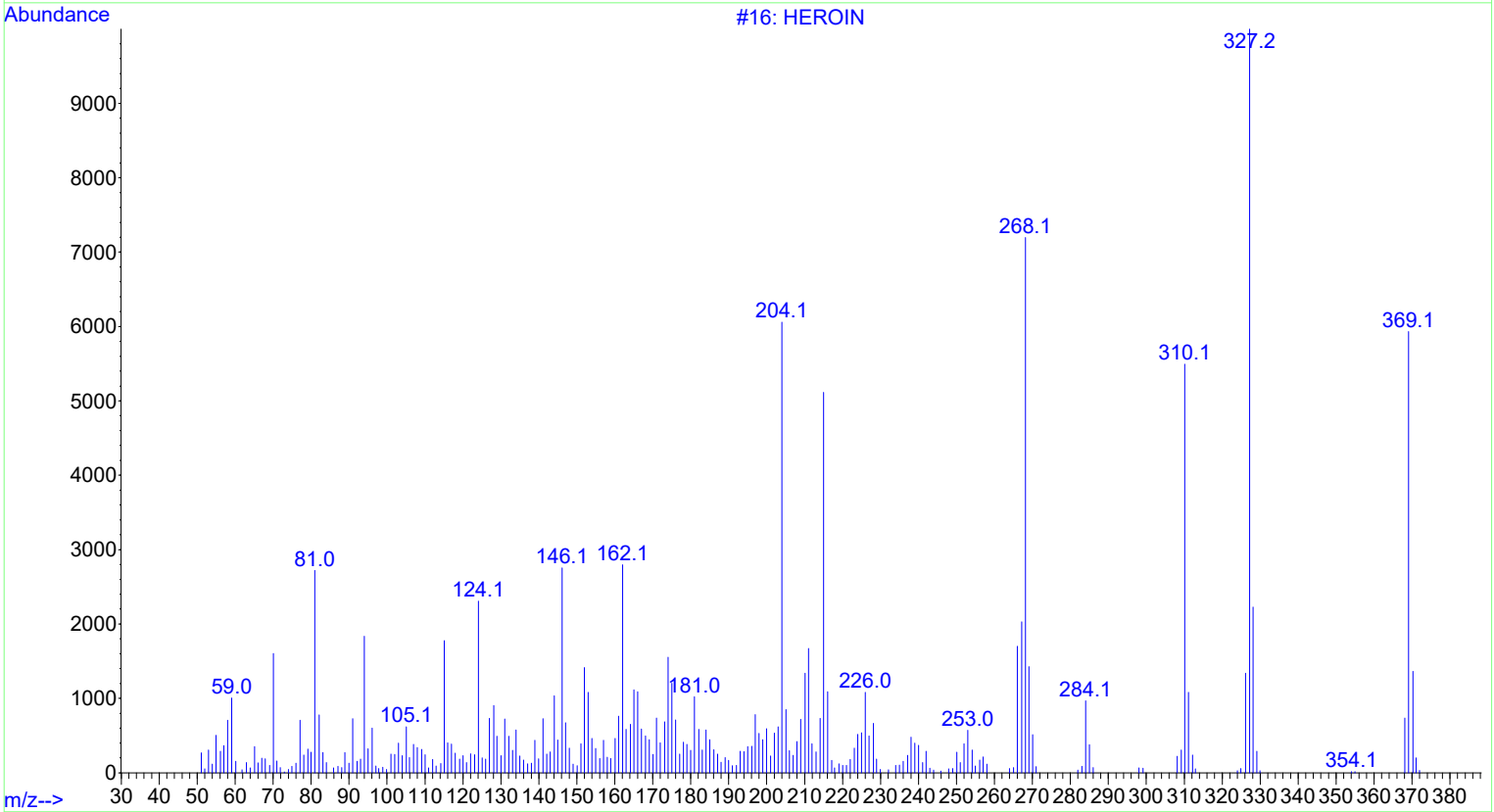
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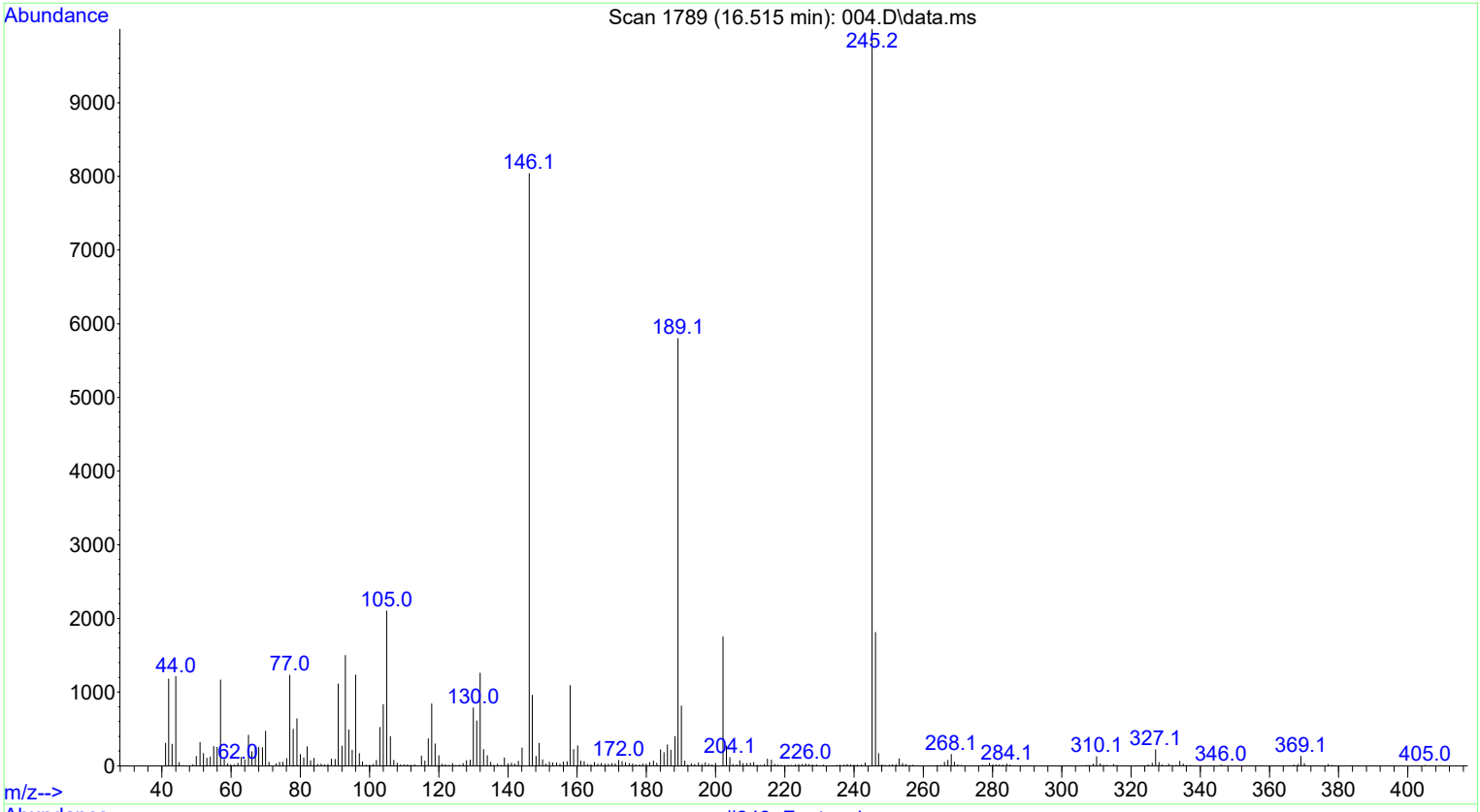


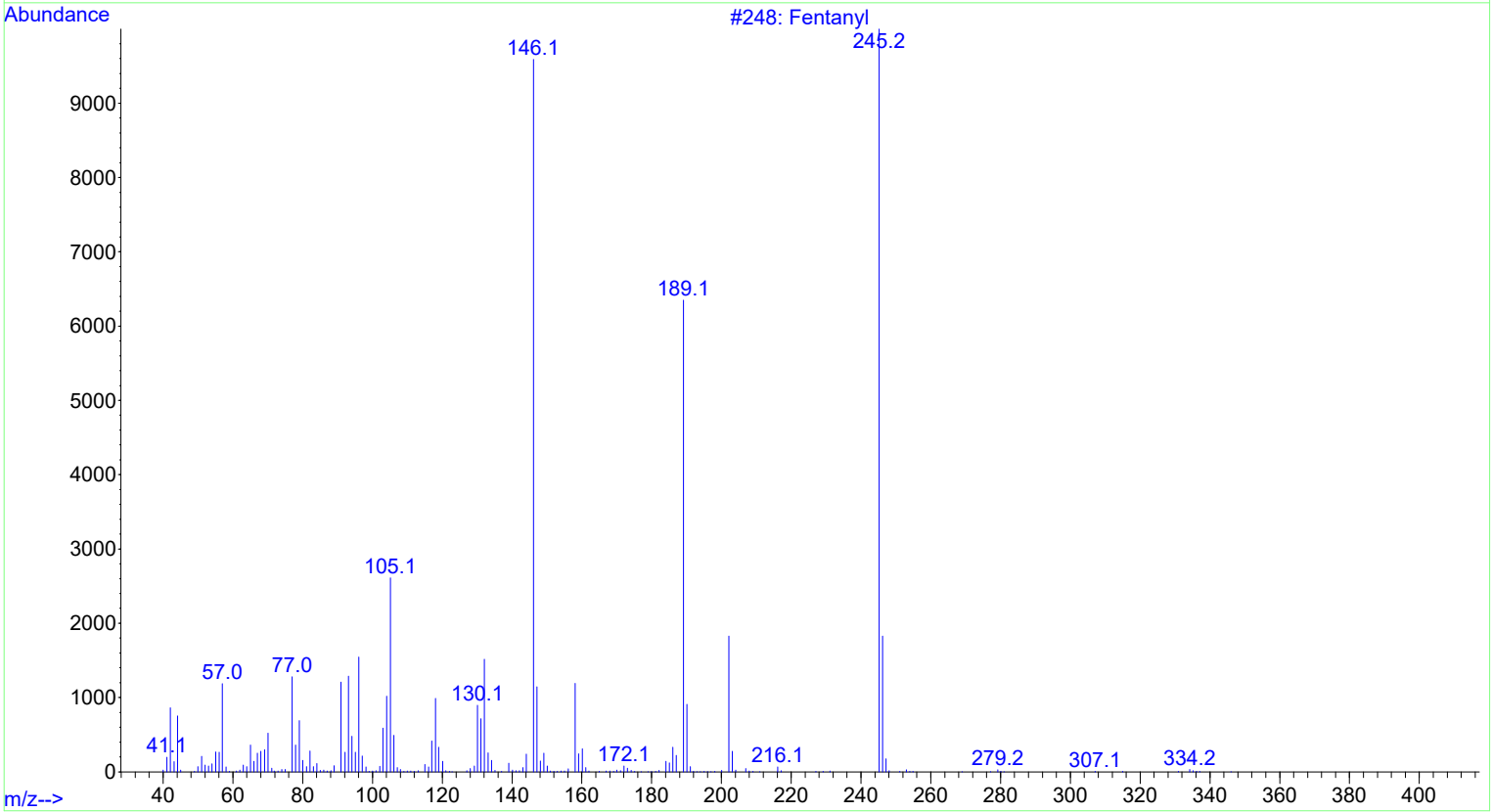
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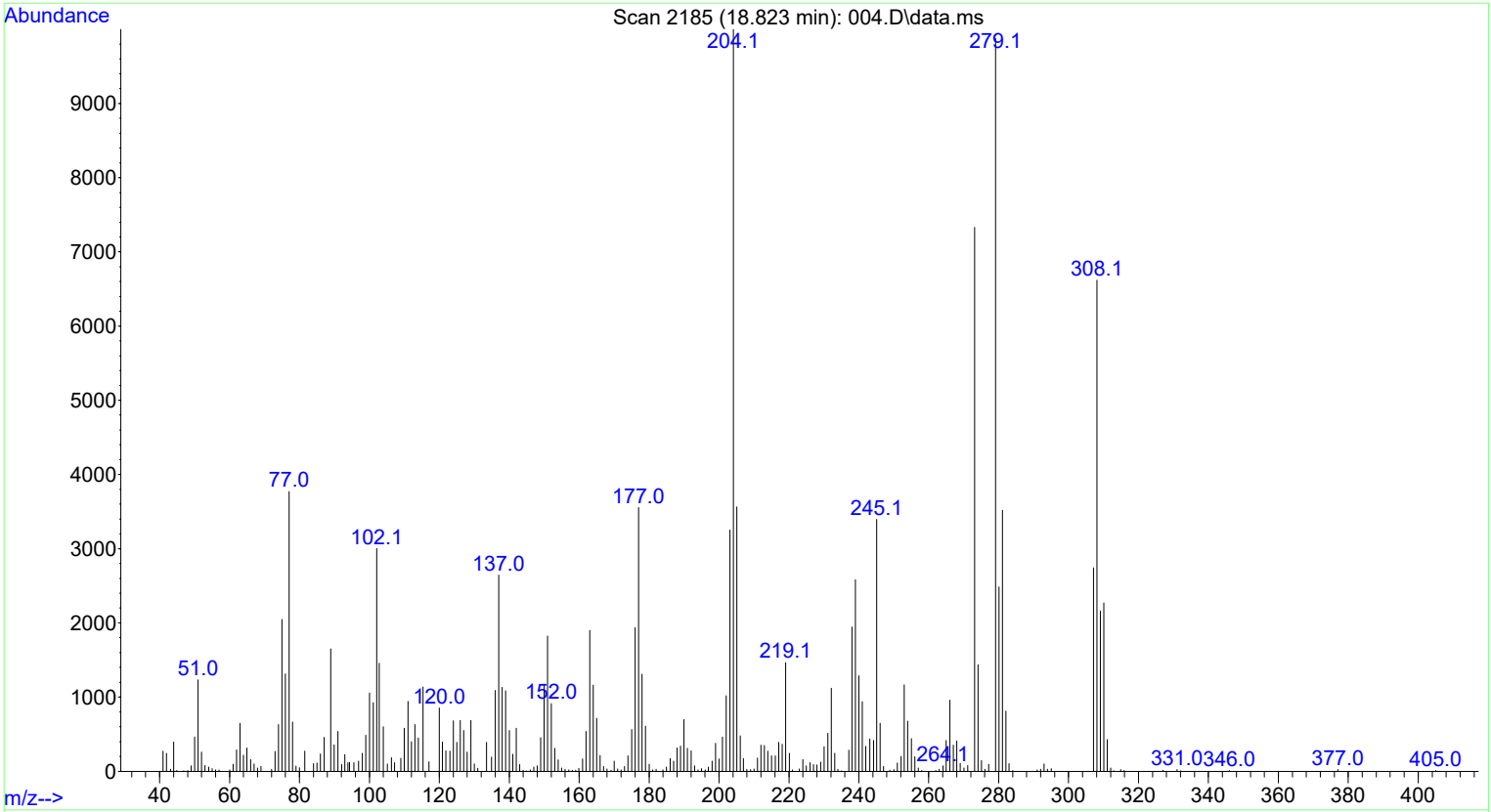


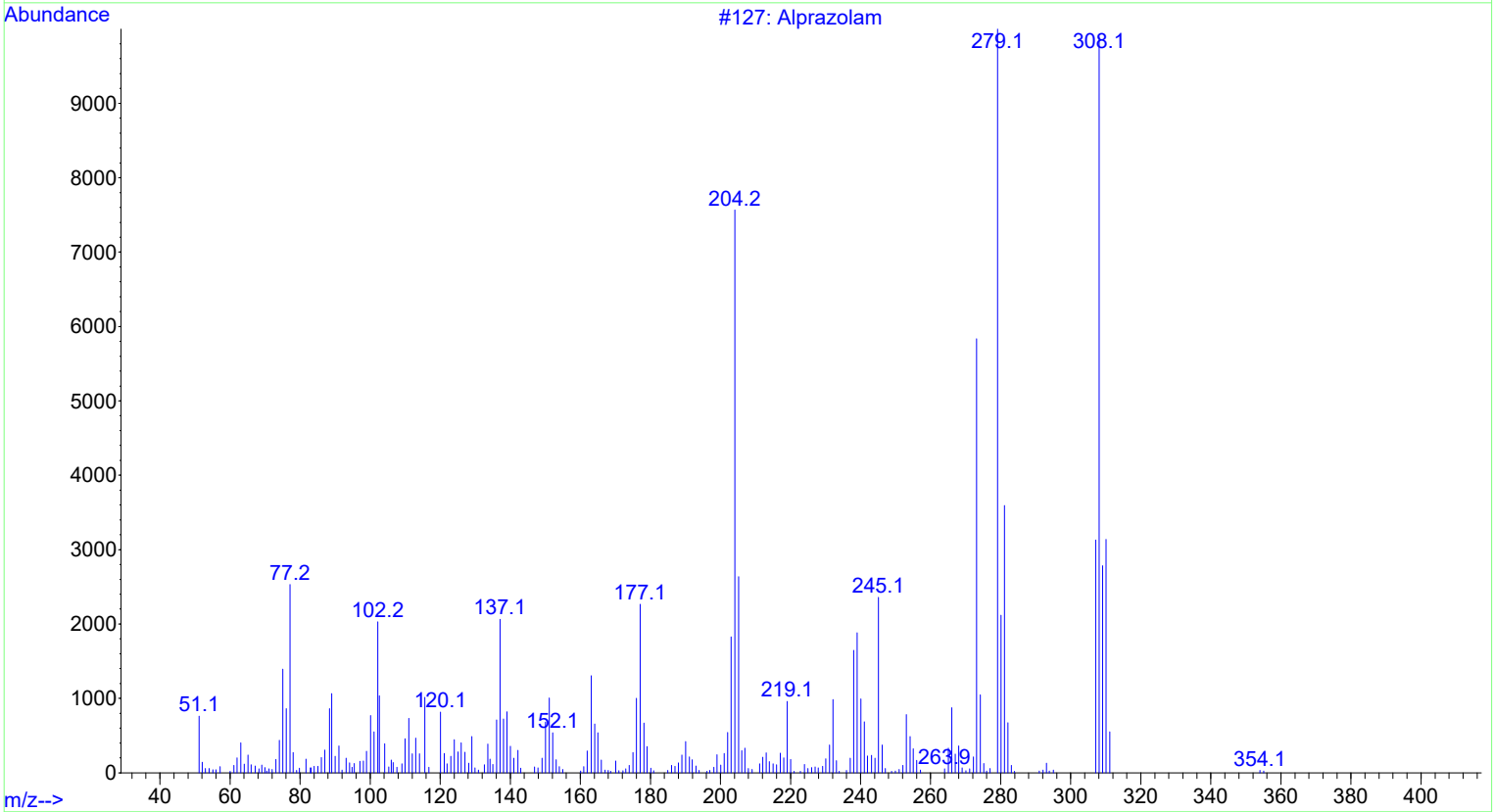
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Misc Info : in ACN 000002669
Vial Number: 2



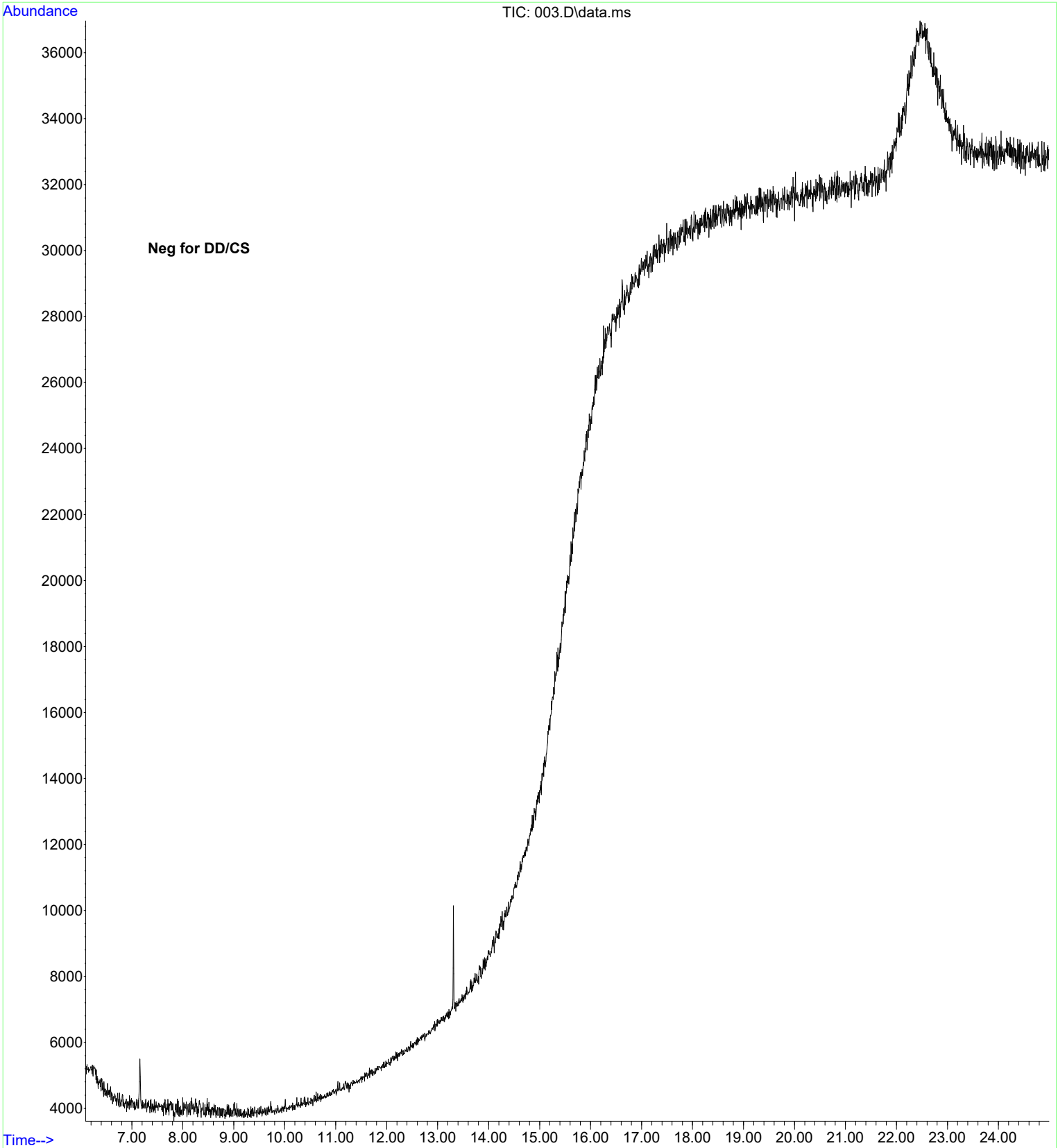


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File       :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
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Acquired   : 28 Jan 2025  11:19     using AcqMethod DrugTest35MS.M
Instrument :   GCMS #4
Sample Name: Cayman GC/MS mix 3 (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\012725\003.D
Acquired : 28 Jan 2025 10:50 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\012725\005.D
Acquired : 28 Jan 2025 11:48 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Blank (C-19-0068) - Instrument ready 000002668
Misc Info : ACN 000002668
Vial Number: 1

