Brazoria County Crime Lab

Seized Drugs Section

GC-MS Maintenance Log

Instrument: SD GCMS-1 **Month/Year:** February 2025

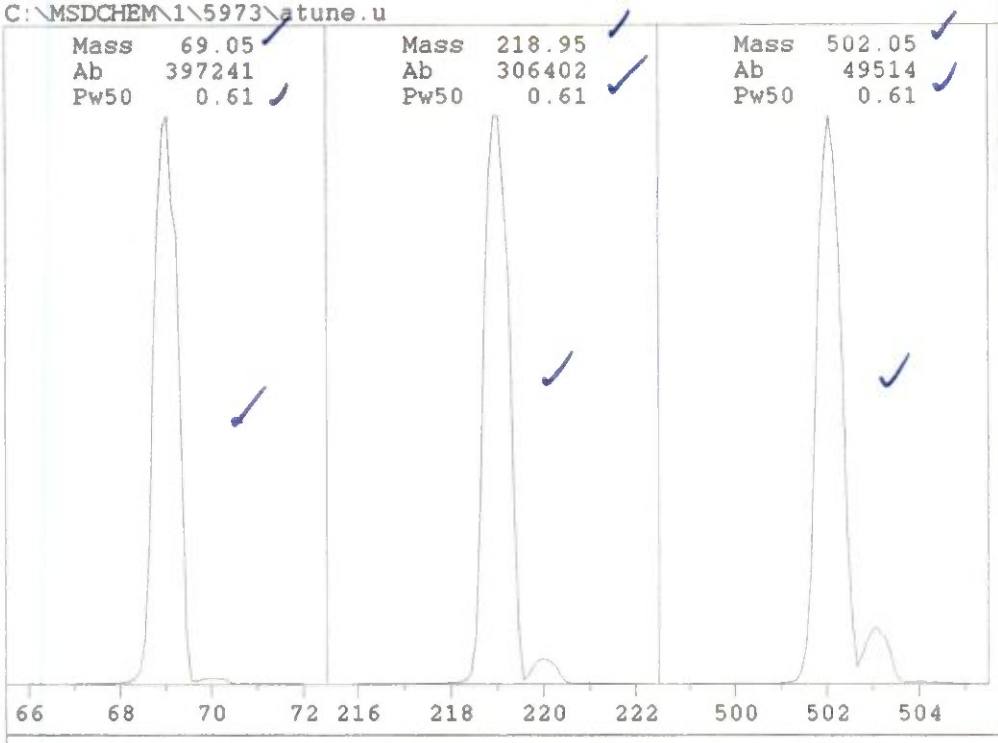
Entry Number	Date	He Tank Pressure	Autotune	Septum Change	Wash Vials Filled	Liner Change	Gold Seal Replaced	Column Cut	Computer Restarted	Maintenance/ PM	Analyst/ Technician	Comments	Initials
1	02/03/025	N/A	Pass	N/A	√	N/A	N/A	N/A	N/A	Maintenance	Analyst		DS
2	2/6/2025	2600	Pass	N/A	N/A	N/A	N/A	N/A	N/A	Maintenance	Analyst	Helium tank change - KB	DS
3	2/10/2025	2000	Pass	N/A	√	N/A	N/A	N/A	N/A	Maintenance	Analyst		DS
4	2/17/2025	1000	Pass	N/A	√	N/A	N/A	N/A	N/A	Maintenance	Analyst		DS
5	2/24/2025	2400	Pass	√	√	√	N/A	N/A	N/A	Maintenance	Analyst	Helium tank change - DS (02/23/25)	DS/DN

Signature: Derek Sanders **Date:** 28 Feb 2025

5973 Autotune

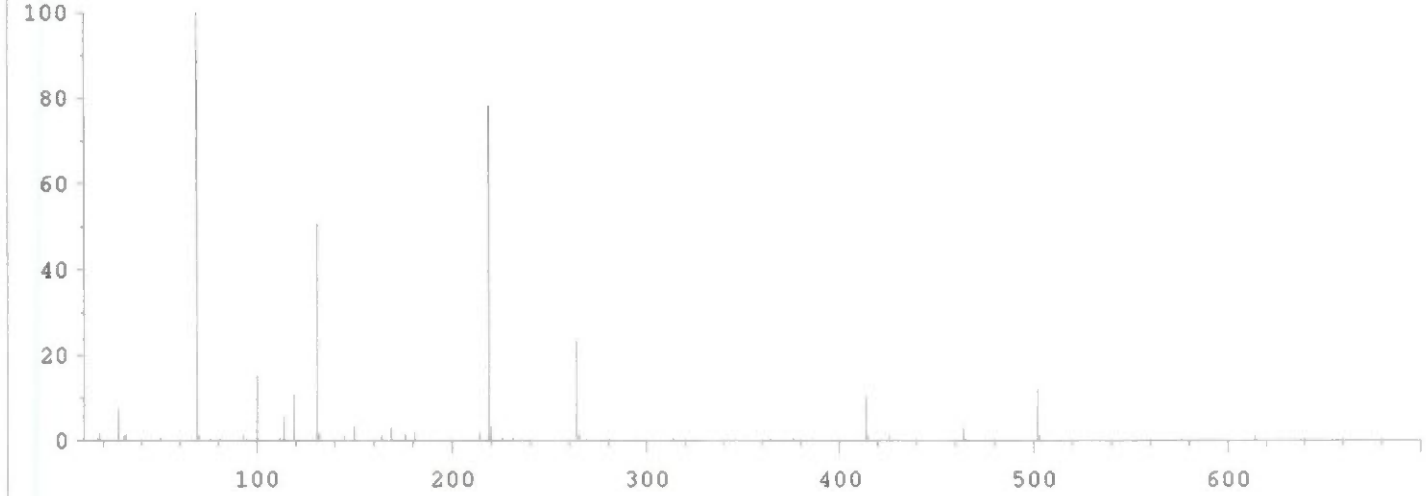
Mon Feb 03 09:05:40 2025
C:\MSDCHEM\1\5973\atune.u

Instrument: SD GCMS 1



Ion Pol	POS	MassGain	377
		MassOffs	-11
Emission	34.6	AmuGain	2439
EIEnrgy	69.9	AmuOffs	123
Filament	1	Wid219	-0.041
		DC Pol	POS
Repeller	26.77		
IonFcus	89.2	HEDEnab	ON
EntLens	14.5	EMVolts	1529
EntOffs	19.07		
		Samples	8
PFTBA	OPEN	Averages	3
		Stepsize	0.10
Zones:			
MS Source	230	TurboSpd	100
MS Quad	150		

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100 Step: 0.10
132 peaks Base: 69.05 Abundance: 356544



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.05	356544	100.00	70.05	4028	1.13
218.95	280064	78.55	219.95	11970	4.27
502.05	44336	12.43	503.05	4534	10.23

Air/Water Check: H20~1.88% N2~7.33% O2~1.51% CO2~0.20% N2/H2O~389.92%

Column Flow: Front: 0.798 Back: 0 ml/min. Interface Temp: 280

Ramp Criteria:
Ion Focus Maximum 90 volts using ion 502; EM Gain 95897
Repeller Maximum 35 volts using ion 219;

MassGain Values @Samples: 374@3 375@2 375@1 375@0 377@FS

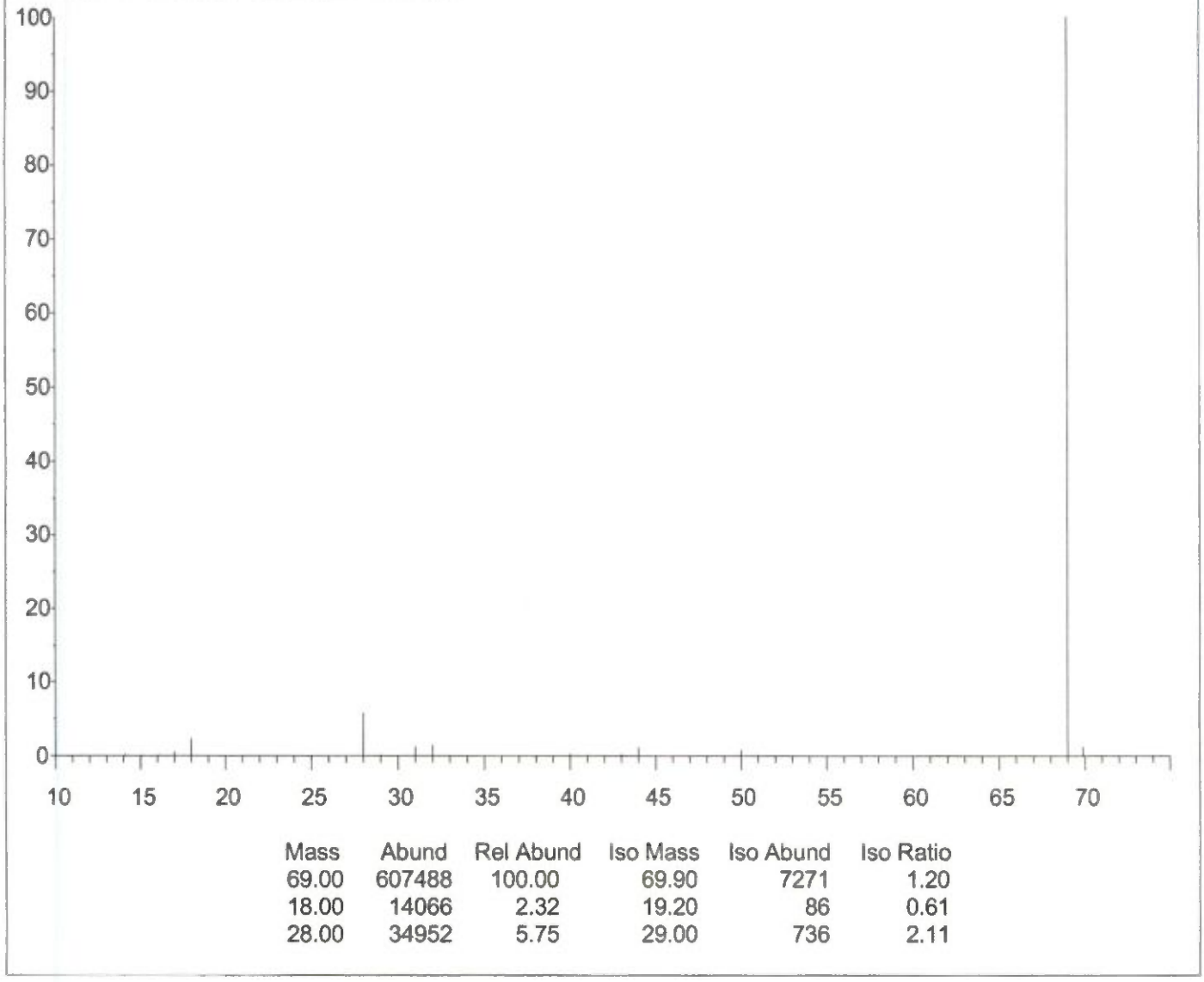
TARGET MASS:	50	69	131	219	414	502	800
Amu Offset:	123.0	123.0	123.0	123.0	123.0	123.0	123.0
Entrance Lens Offset:	19.1	19.1	19.1	19.1	19.1	19.1	19.1

597x Air and Water Check

35
OK

Instrument: SD GCMS 1
Mon Feb 03 08:58:33 2025 C:\MSDCHEM\1\5973\

Scan: 10.00 - 75.00 Samples: 8 Thresh: 0 Step: 0.10
67 peaks Base: 69.00 Abundance: 607488



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	607488	100.00	69.90	7271	1.20
18.00	14066	2.32	19.20	86	0.61
28.00	34952	5.75	29.00	736	2.11

Current Params used: atune.u

Relative abundances:
18/69 = 2.32 Water% ✓
28/69 = 5.75 Nitrogen% ✓
32/69 = 1.44 Oxygen% ✓
44/69 = 1.11 Carbon Dioxide% ✓
28/18 = 248.49 Nitrogen/Water%

System Verification - Tune (Detector Optimization) Portion

DS

Instrument Name	: SD GCMS 1	
DC Polarity	: Positive	
Filament	: 1	
BasePeak should be 69 or 219		Ok
Position of mass 69	69.05	Ok
Position of mass 219	219.01	Ok
Position of mass 502	502.05	Ok
Position of isotope mass 70	70.04	Ok
Position of isotope mass 220	219.99	Ok
Position of isotope mass 503	503.05	Ok
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.10	Ok
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.38	Ok
Ratio of mass 503 to mass 502(7.9 - 12.3%)	9.95	Ok
Ratio of 219 to 69 should be > 40% and is	78.12	Ok
Ratio of 502 to 69 should be > 2.4% and is	12.49	Ok
Mass 69 Precursor (<= 3%)	0.21	Ok
Mass 219 Precursor (<= 6%)	0.36	Ok
Mass 502 Precursor (<= 12%)	0.35	Ok
Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	1.67	Ok
Ratio of 28 to 69 (<10%)	7.04	Ok
Electron Multiplier Voltage	1529	Ok

Tune portion of System Verification passed.

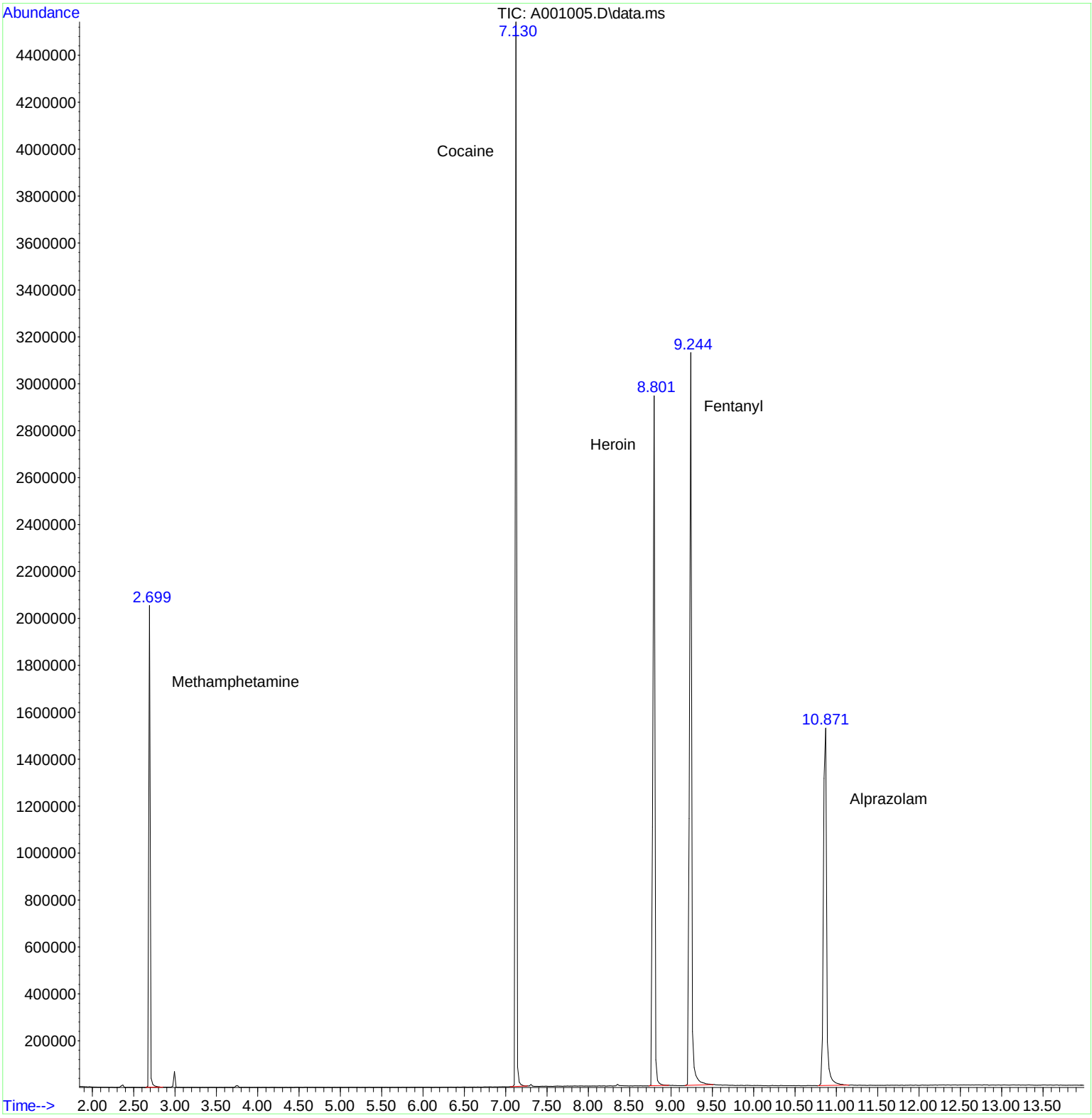
BCCL GC/MS #1
Retention Times for the Week of:

02/03/2025 - 02/09/2025

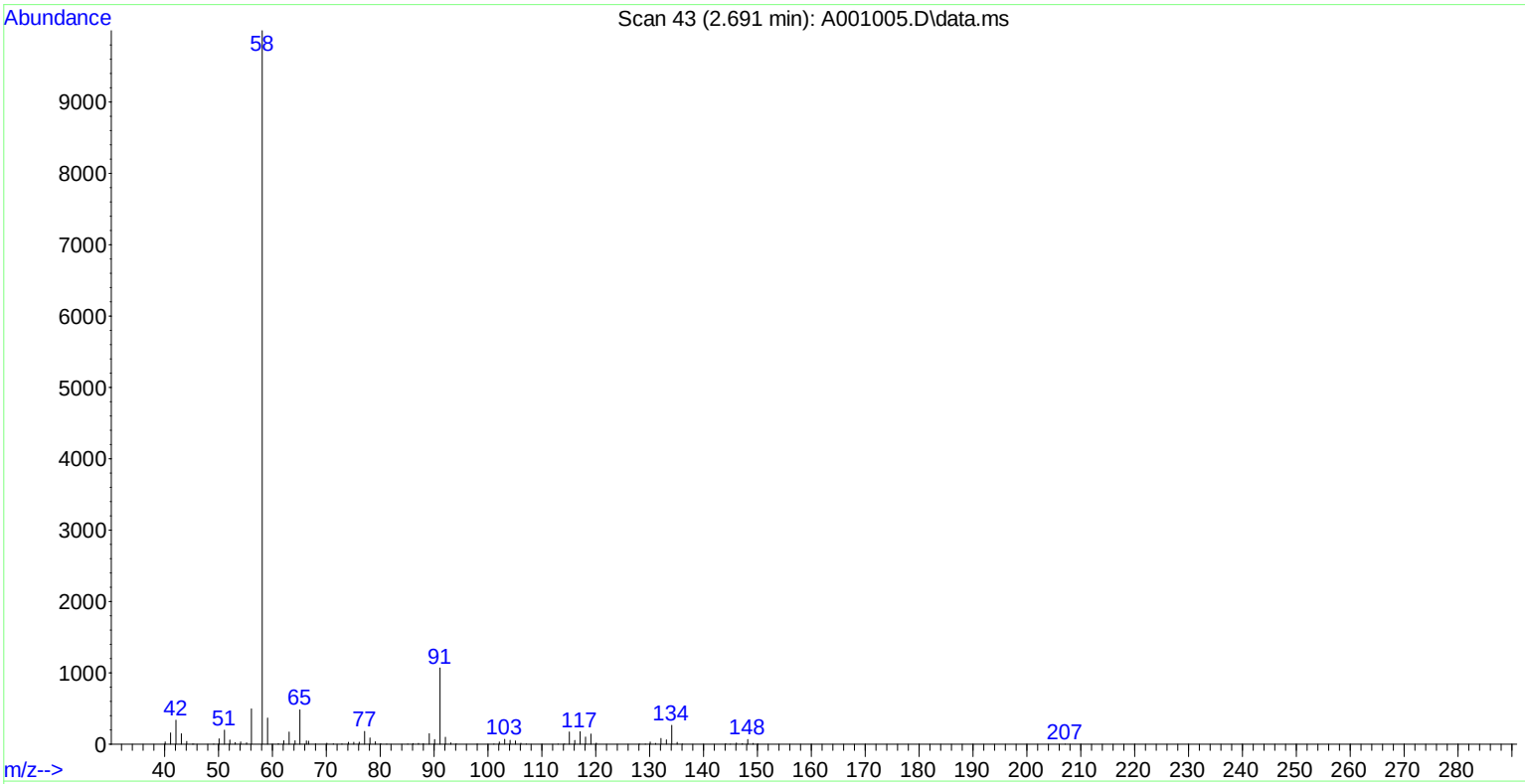
[x] **Tune: 02/03/2025 - Autotune DS**

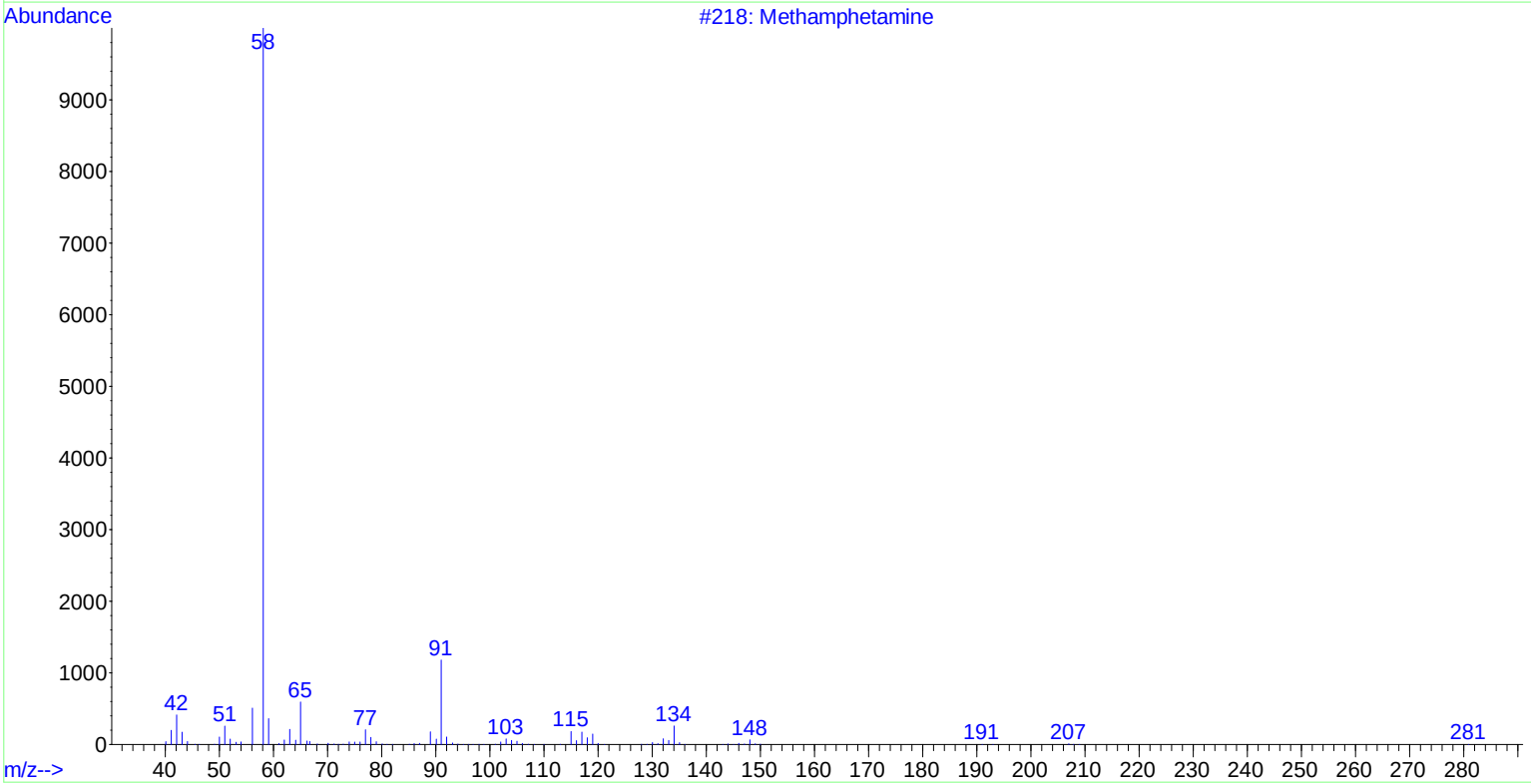
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	BCCL GenDrug	2.699	2.672	2.725
Cocaine	R-24-060	BCCL GenDrug	7.130	7.058	7.201
Heroin	R-24-060	BCCL GenDrug	8.801	8.712	8.889
Fentanyl	R-24-060	BCCL GenDrug	9.244	9.151	9.336
Alprazolam	R-24-060	BCCL GenDrug	10.871	10.762	10.979

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... 2025\020325\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 3 Feb 2025 10:10 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN

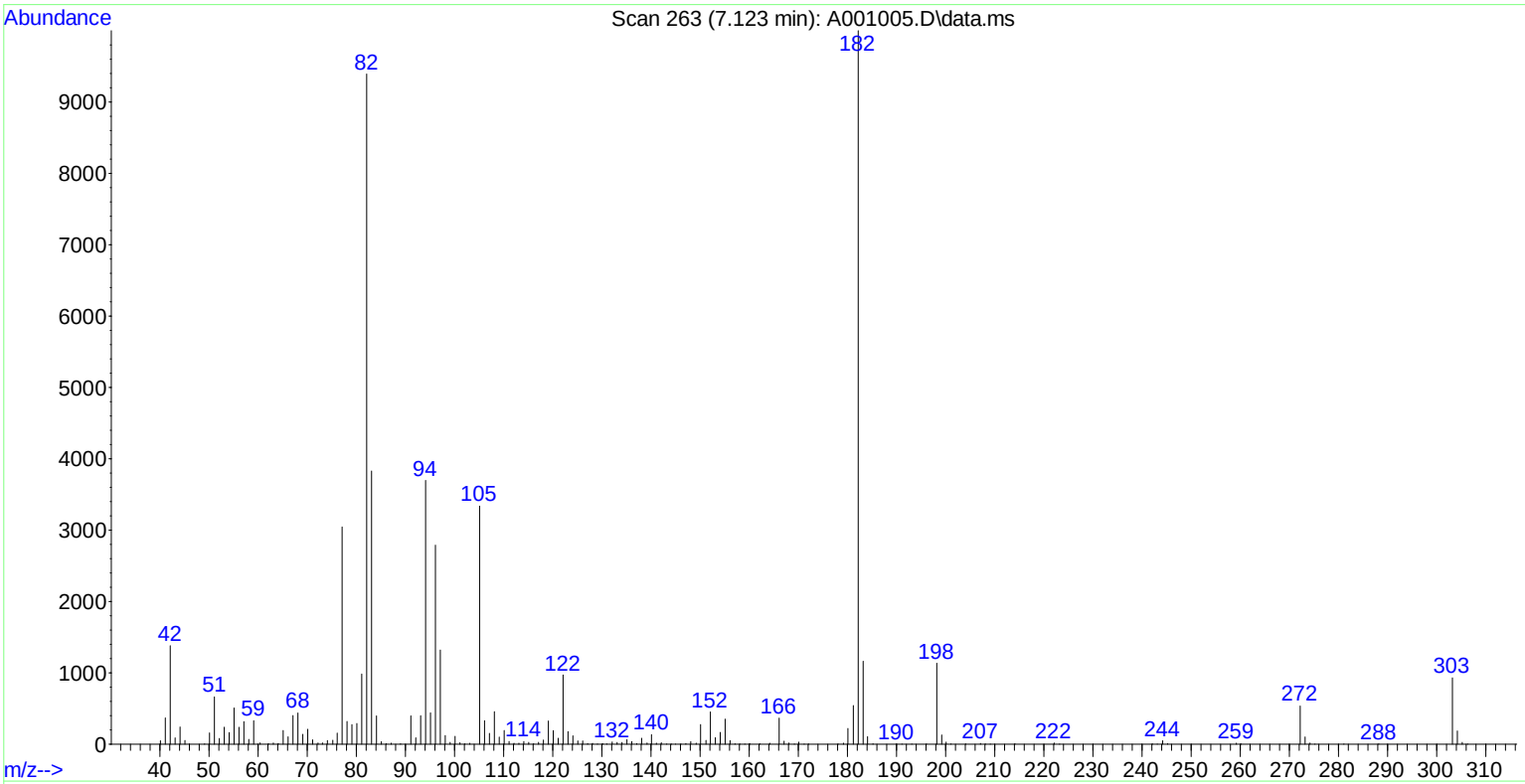


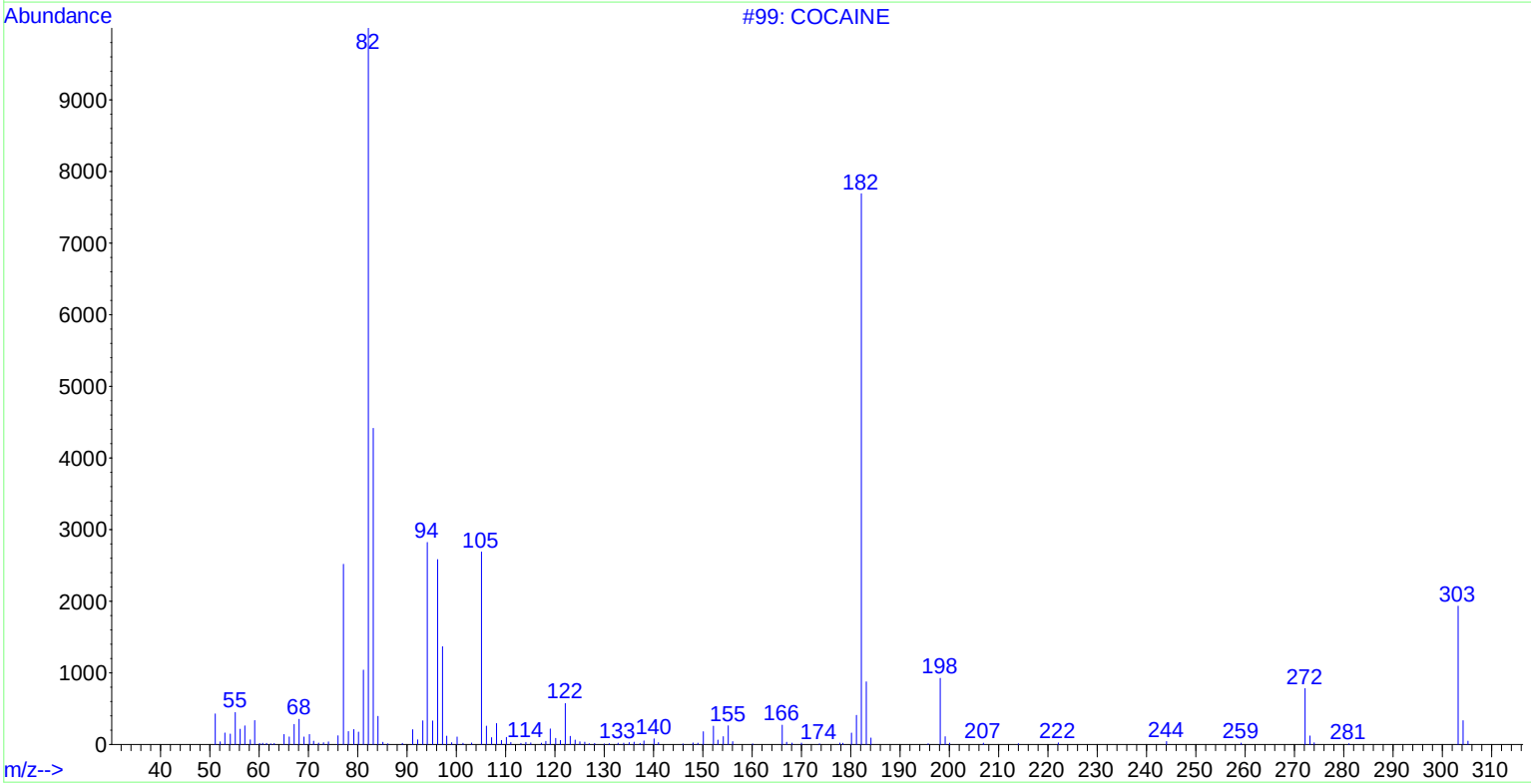
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Instrument : SD GCMS 1
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Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



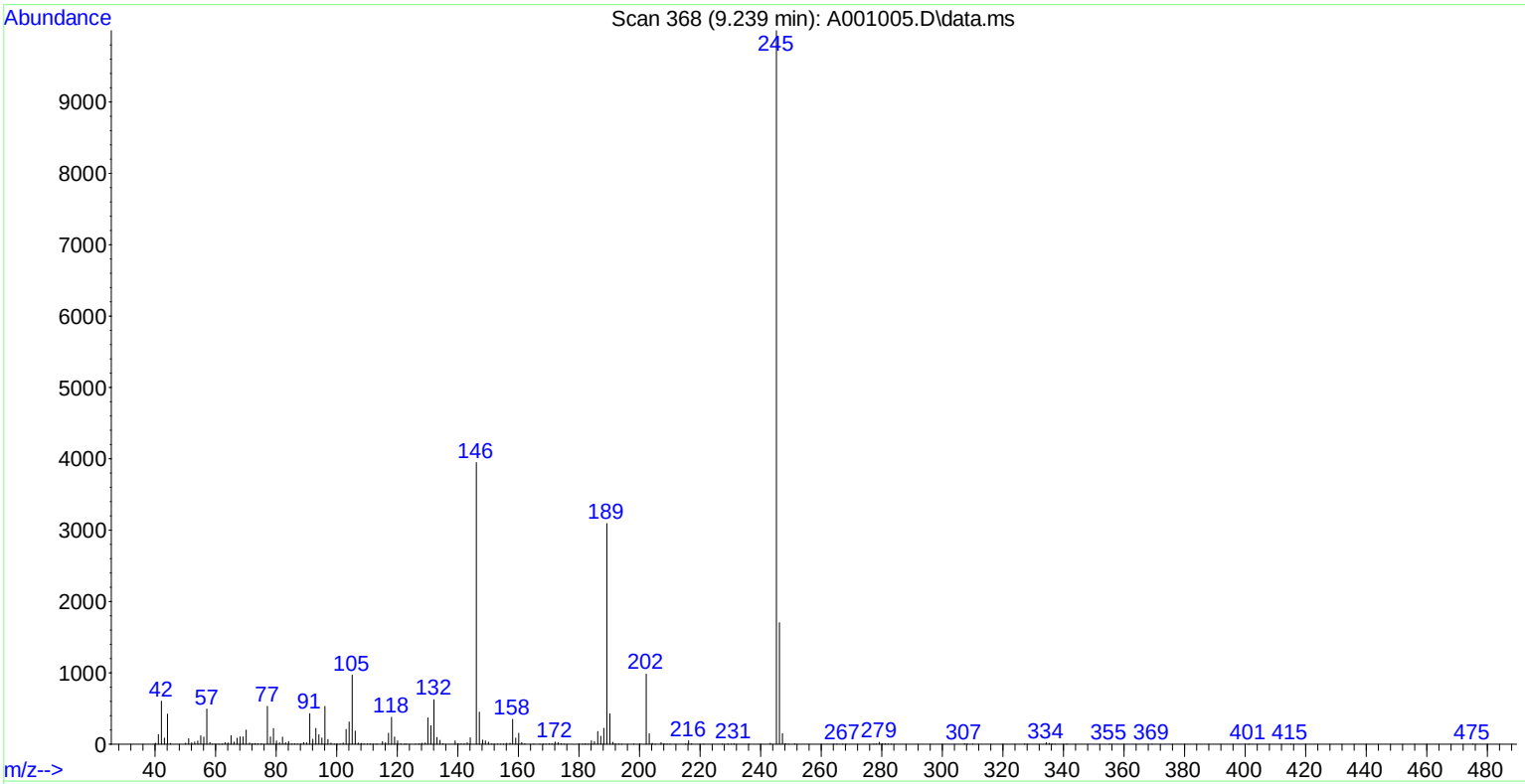


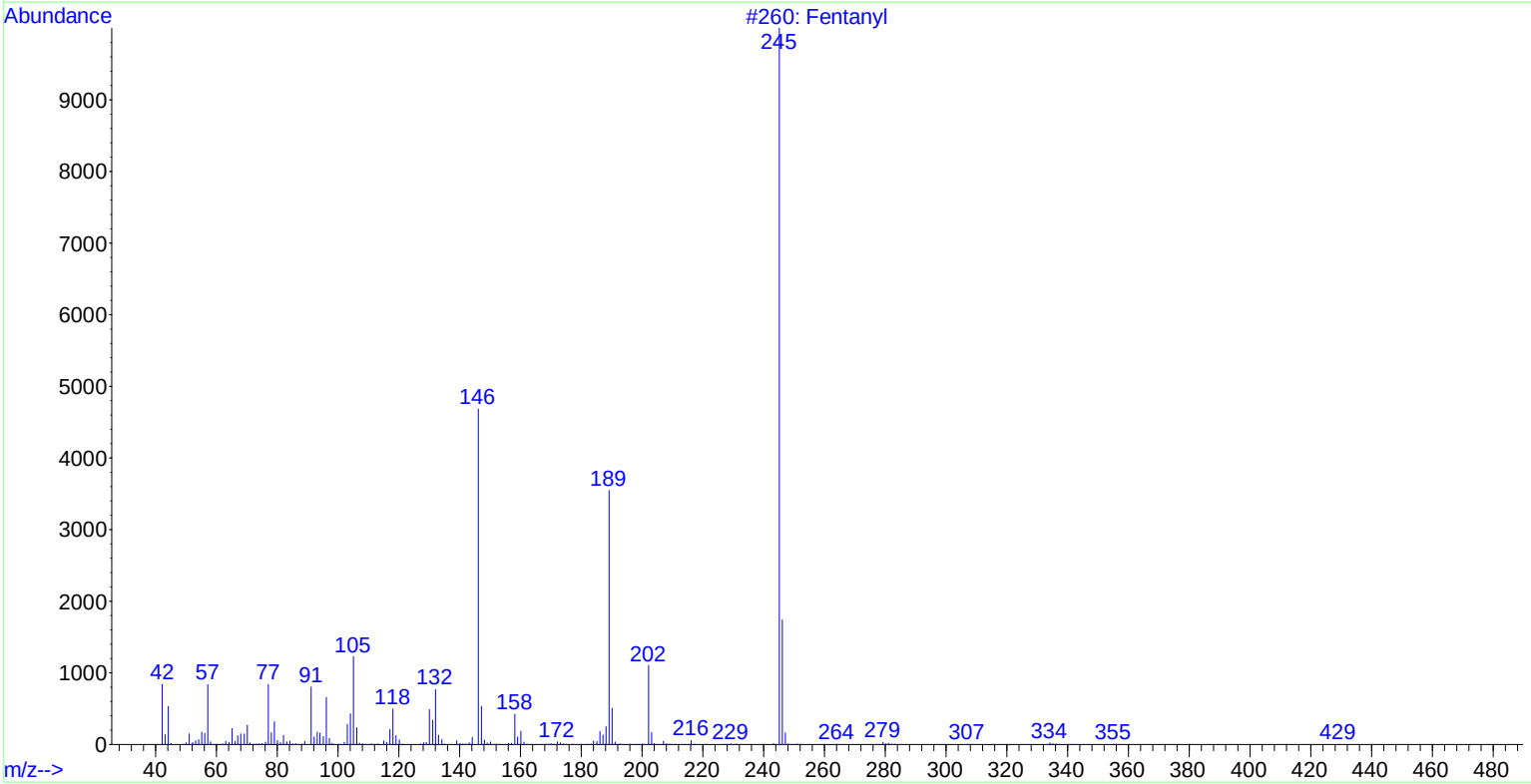
File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\020325\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 3 Feb 2025 10:10 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



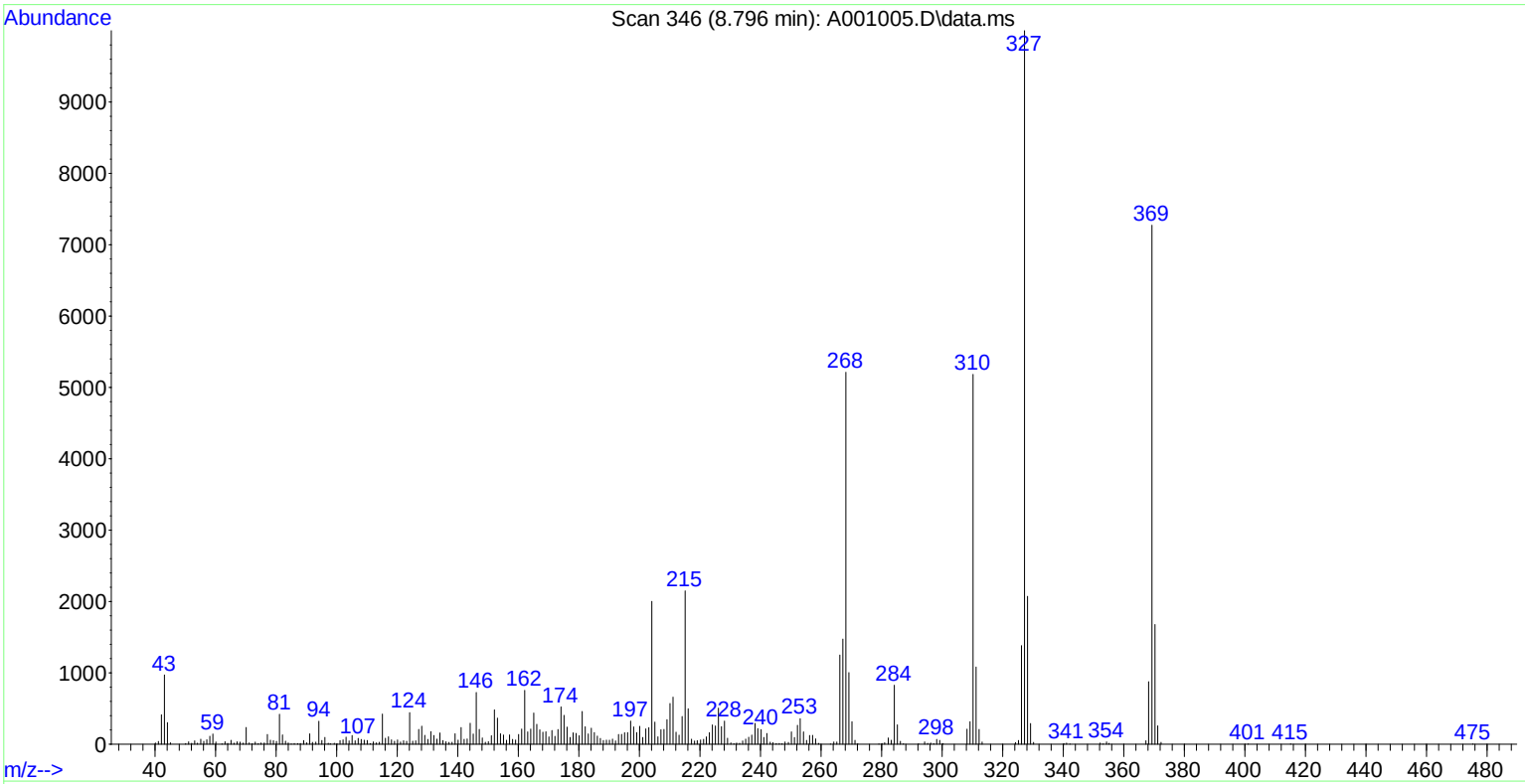


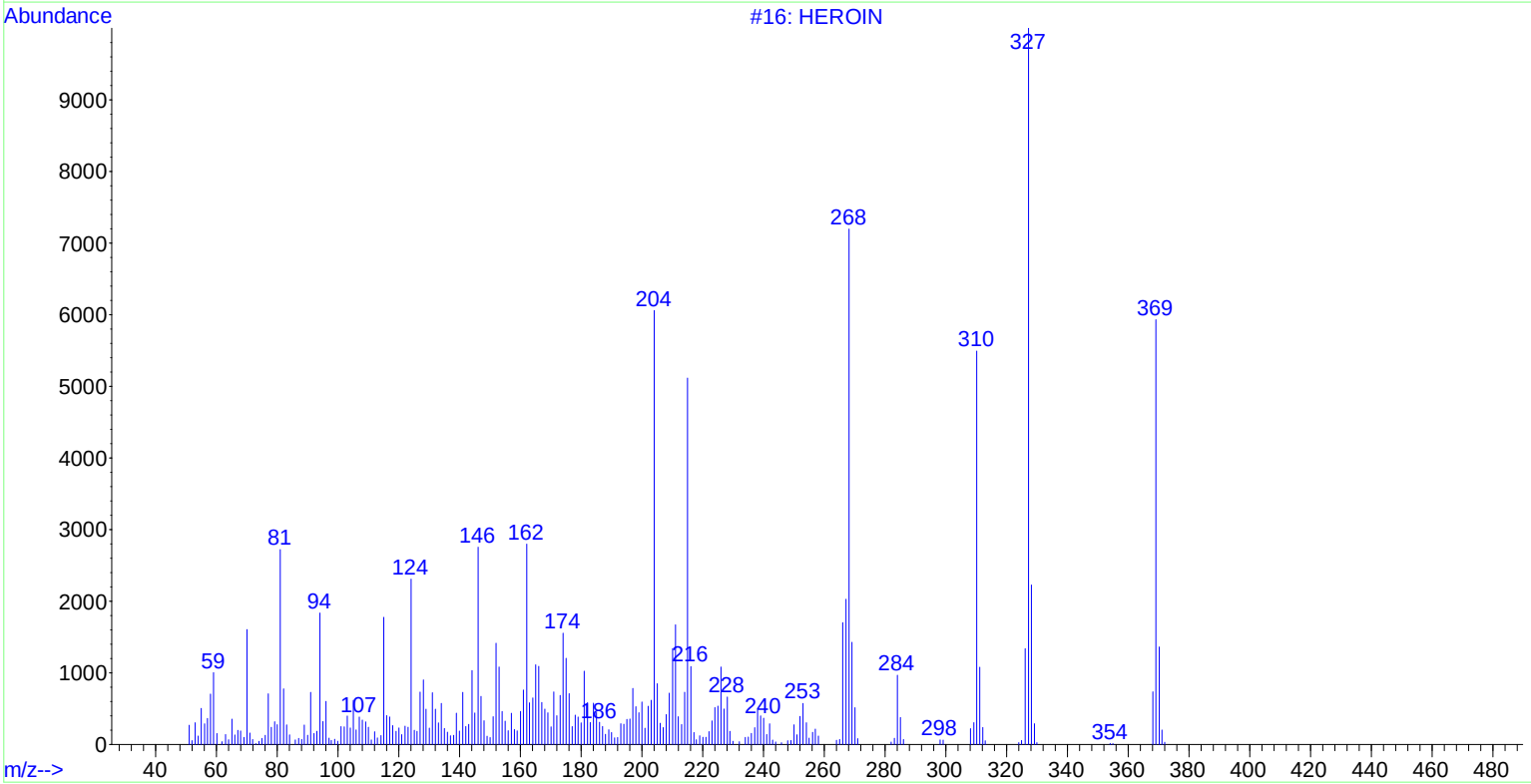
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 3 Feb 2025 10:10 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



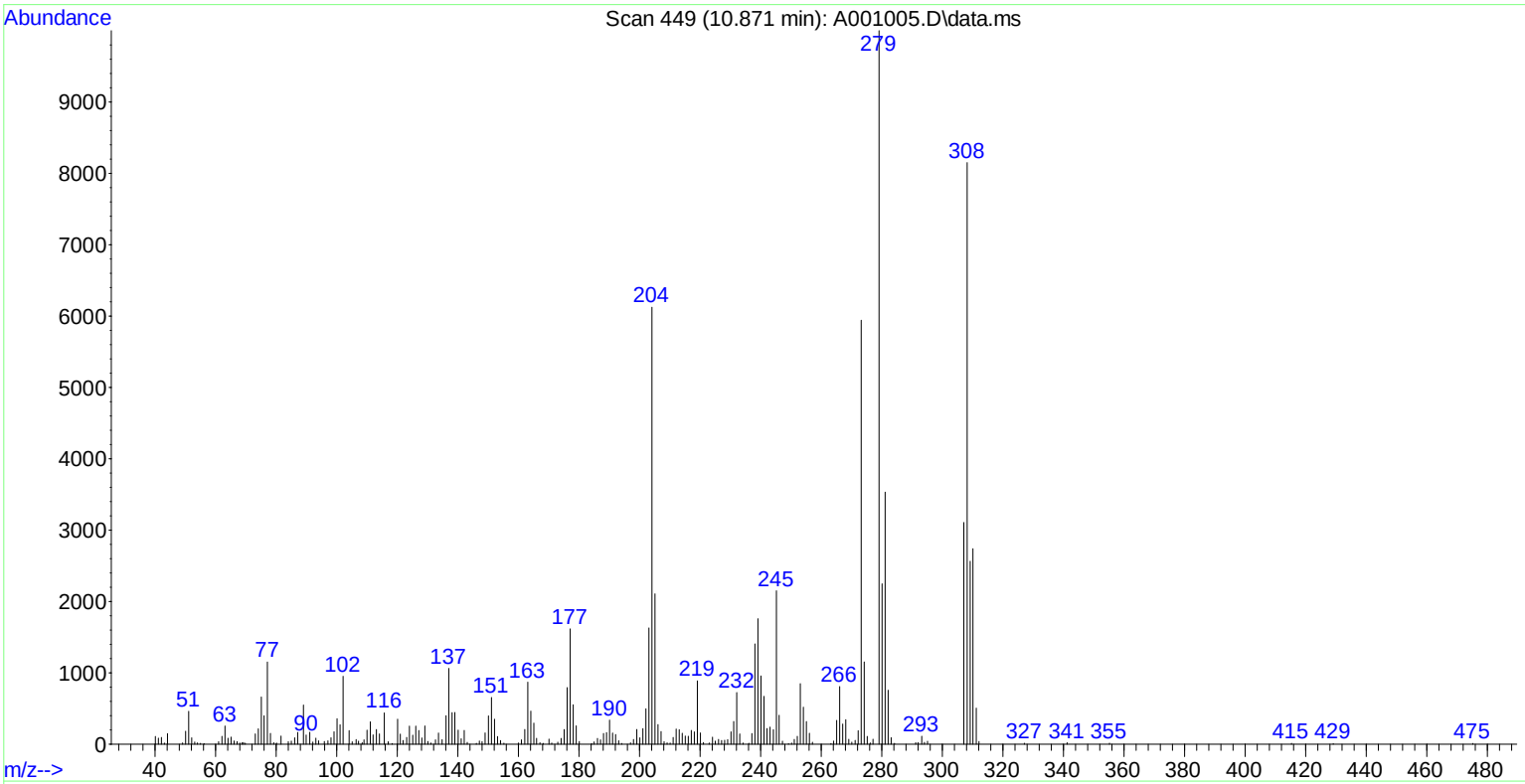


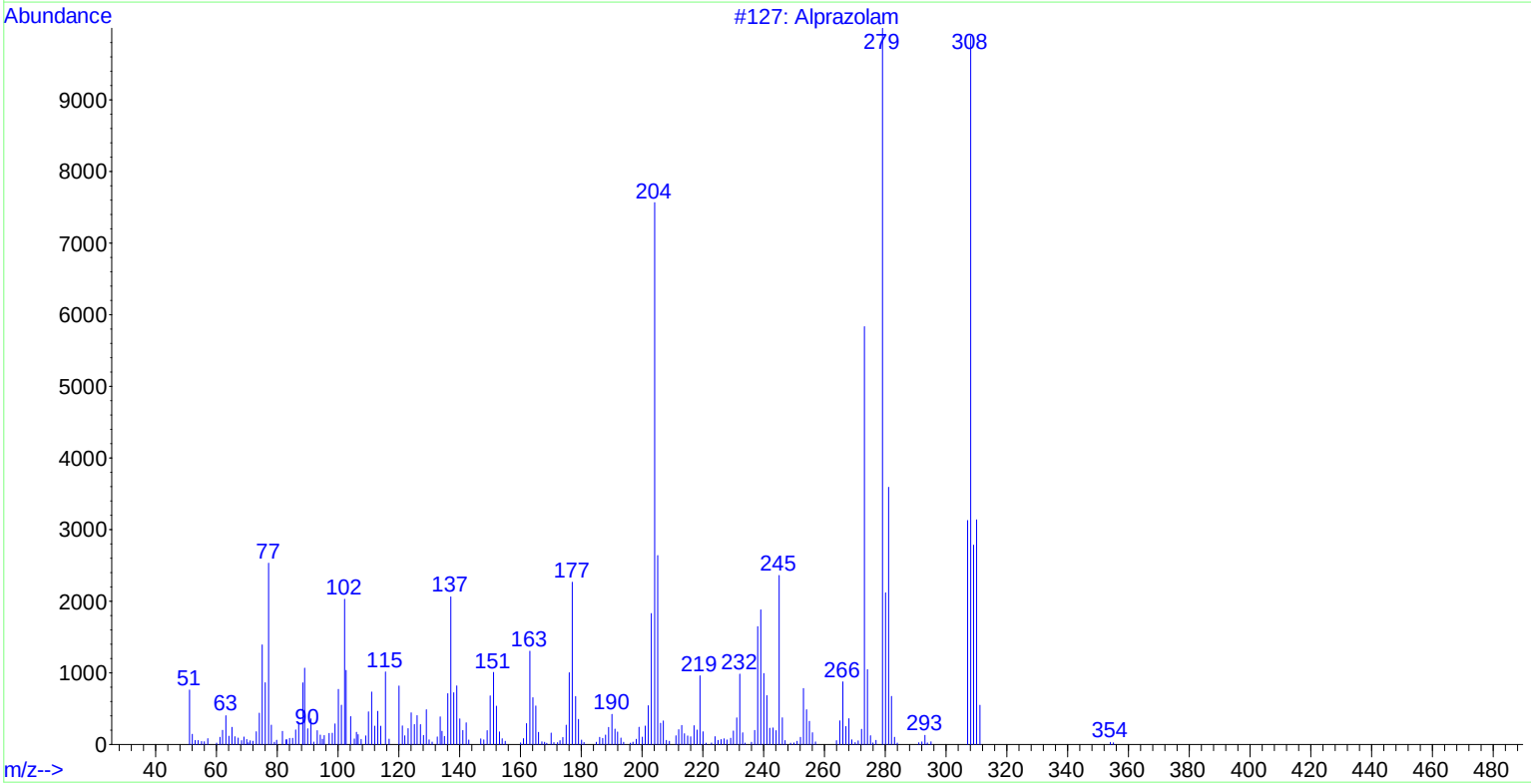
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
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Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



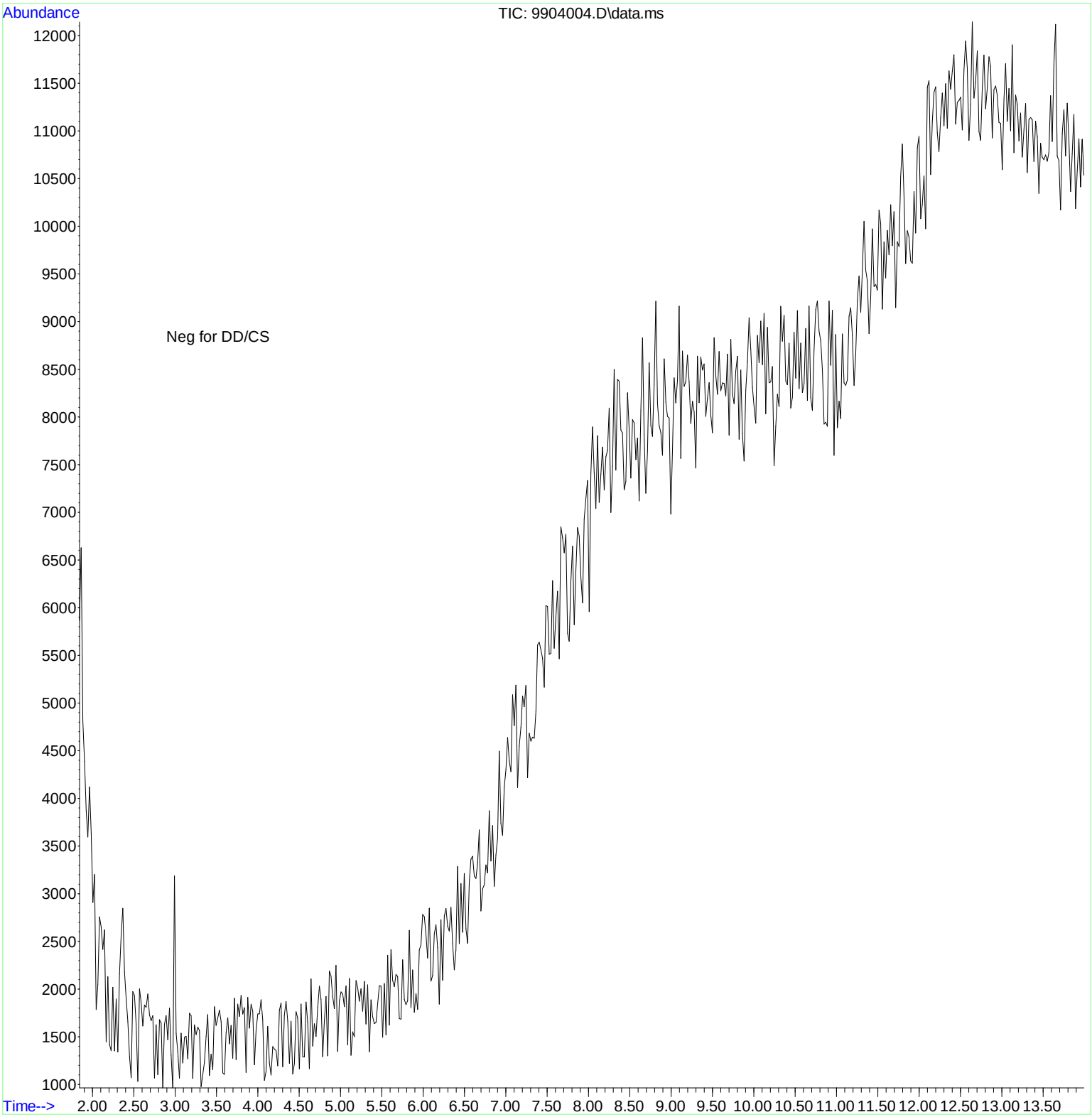


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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 3 Feb 2025 10:10 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN

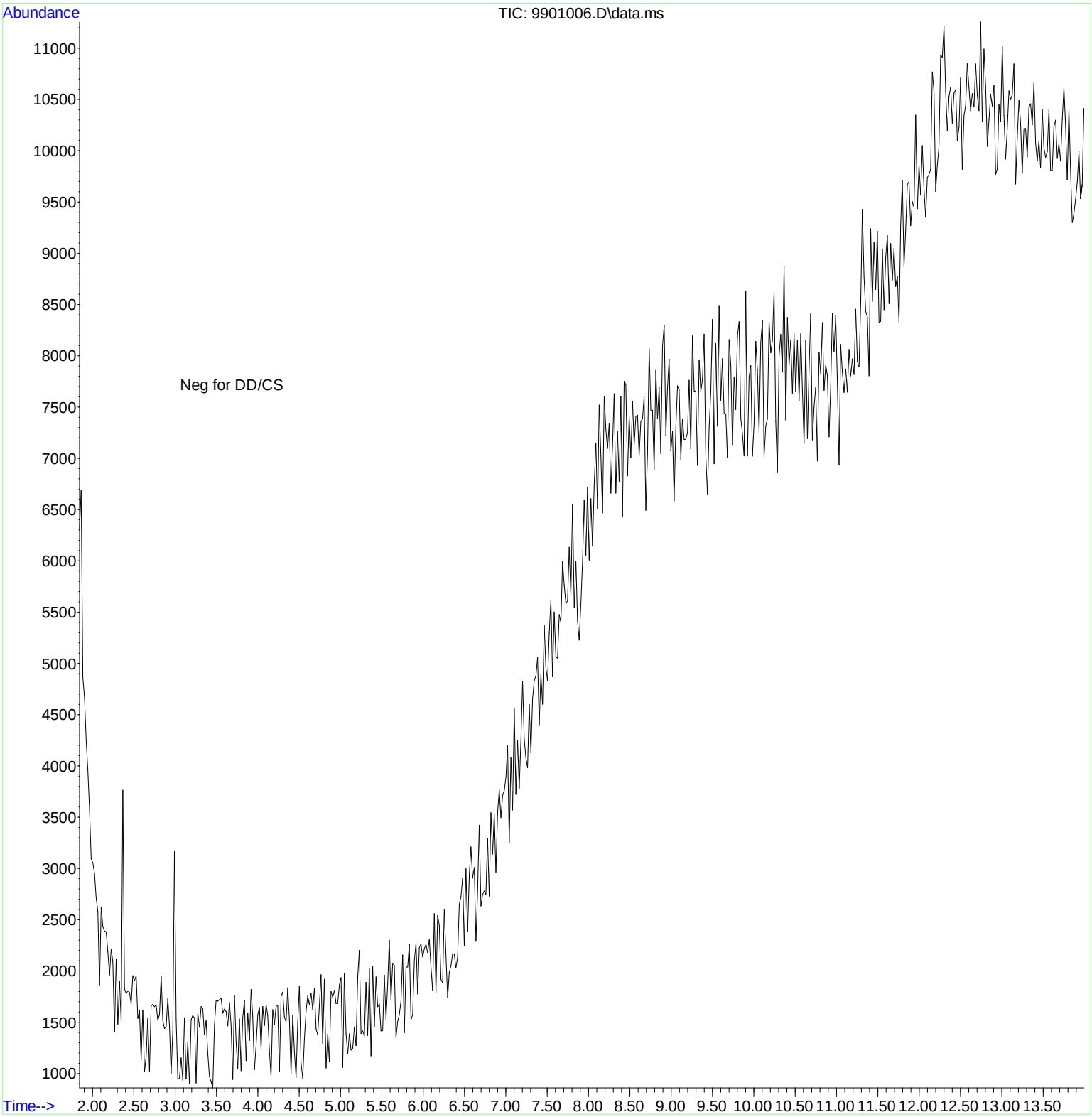




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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 3 Feb 2025 9:53 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK PRIOR TO CAYMAN GC/MS 000002664
Misc Info : ACN (C-19-0068)



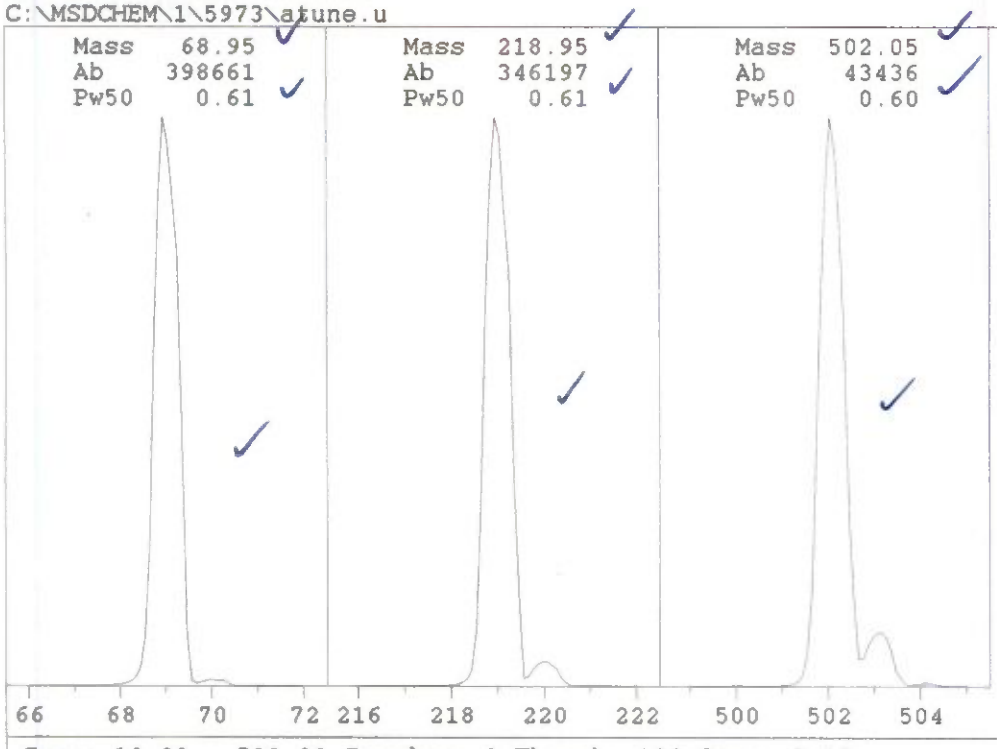
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 3 Feb 2025 10:28 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK - INSTRUMENT READY 000002664
Misc Info : ACN (C-19-0068)



5973 Autotune

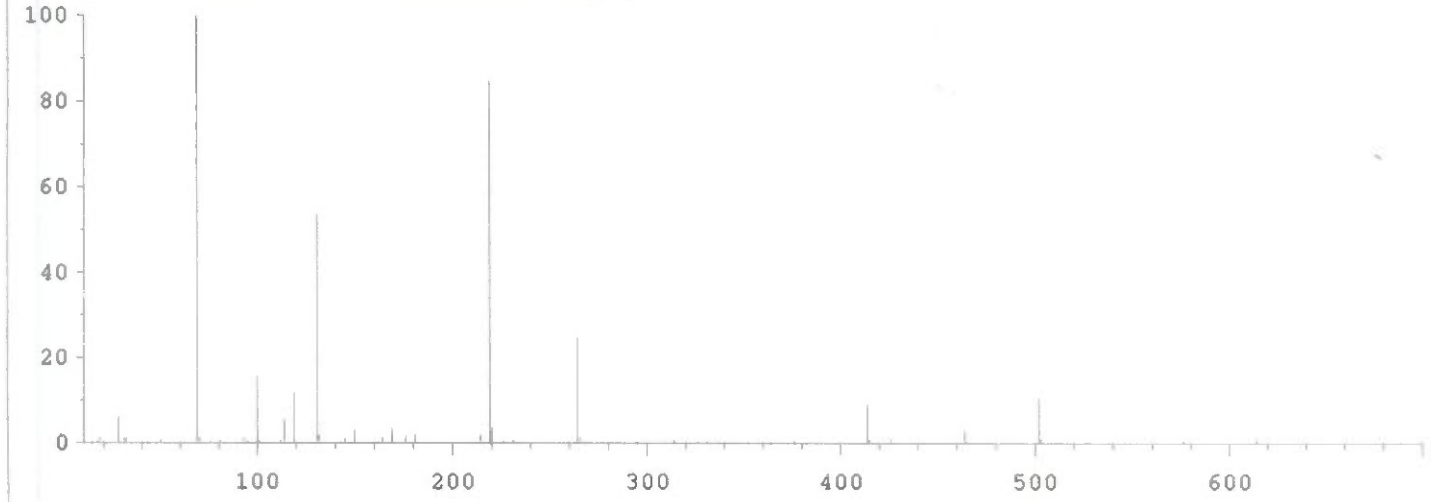
Thu Feb 06 10:47:28 2025
C:\MSDCHEM\1\5973\atune.u

Instrument: SD GCMS 1



Ion Pol	POS	MassGain	372
		MassOffs	-11
Emission	34.6	AmuGain	2442
EIEnrgy	69.9	AmuOffs	123
Filament	1	Wid219	-0.023
		DC Pol	POS
Repeller	29.79		
IonFcus	90.2	HEDEnab	ON
EntLens	19.0	EMVolts	1529
EntOffs	17.82		
		Samples	8
PFTBA	OPEN	Averages	3
		Stepsize	0.10
Zones:			
MS Source	230	TurboSpd	100
MS Quad	150		

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100 Step: 0.10
154 peaks Base: 69.05 Abundance: 362624



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.05	362624	100.00	70.05	4076	1.12
219.05	307712	84.86	220.05	13240	4.30
502.05	38280	10.56	503.05	3905	10.20

Air/Water Check: H20~1.17% N2~6.21% O2~1.21% CO2~0.10% N2/H2O~532.83%

Column Flow: Front: 0.798 Back: 0 ml/min. Interface Temp: 280

Ramp Criteria:
Ion Focus Maximum 90 volts using ion 502: EM Gain 96849
Repeller Maximum 35 volts using ion 219:

MassGain Values @Samples: 372@3 372@2 372@1 372@0 372@FS

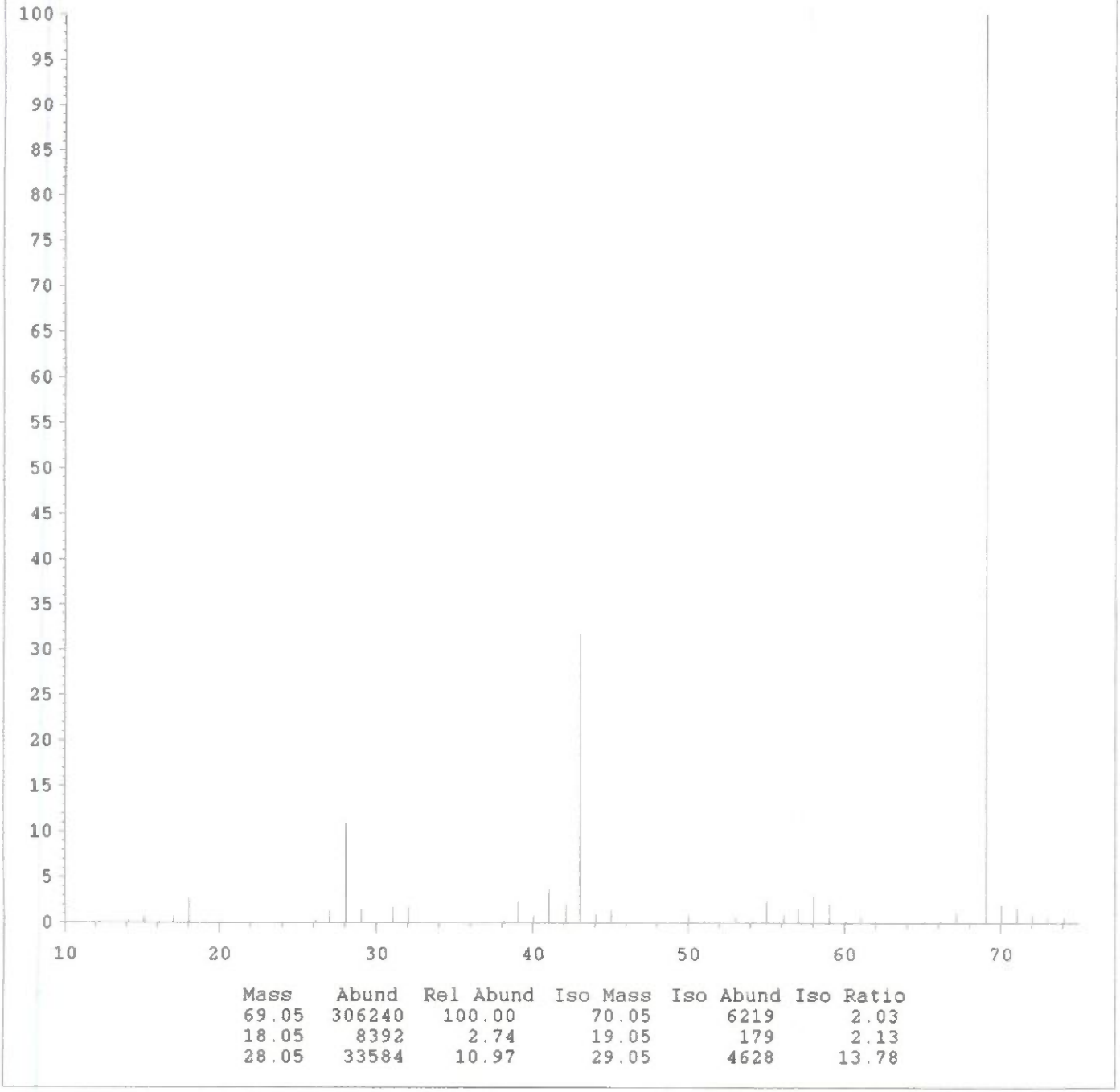
TARGET MASS:	50	69	131	219	414	502	800
Amu Offset:	123.0	123.0	123.0	123.0	123.0	123.0	123.0
Entrance Lens Offset:	17.8	17.8	17.8	17.8	17.8	17.8	17.8

DS

597x Air and Water Check

Instrument: SD GCMS 1
Thu Feb 06 09:19:06 2025 C:\MSDCHEM\1\5973\

Scan: 10.00 - 75.00 Samples: 8 Thresh: 0 Step: 0.10
69 peaks Base: 69.05 Abundance: 306240



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.05	306240	100.00	70.05	6219	2.03
18.05	8392	2.74	19.05	179	2.13
28.05	33584	10.97	29.05	4628	13.78

Current Params used: atune.u

Relative abundances:

18/69 =	2.74	Water%
28/69 =	10.97	Nitrogen%
32/69 =	1.69	Oxygen%
44/69 =	1.03	Carbon Dioxide%
28/18 =	400.19	Nitrogen/Water%

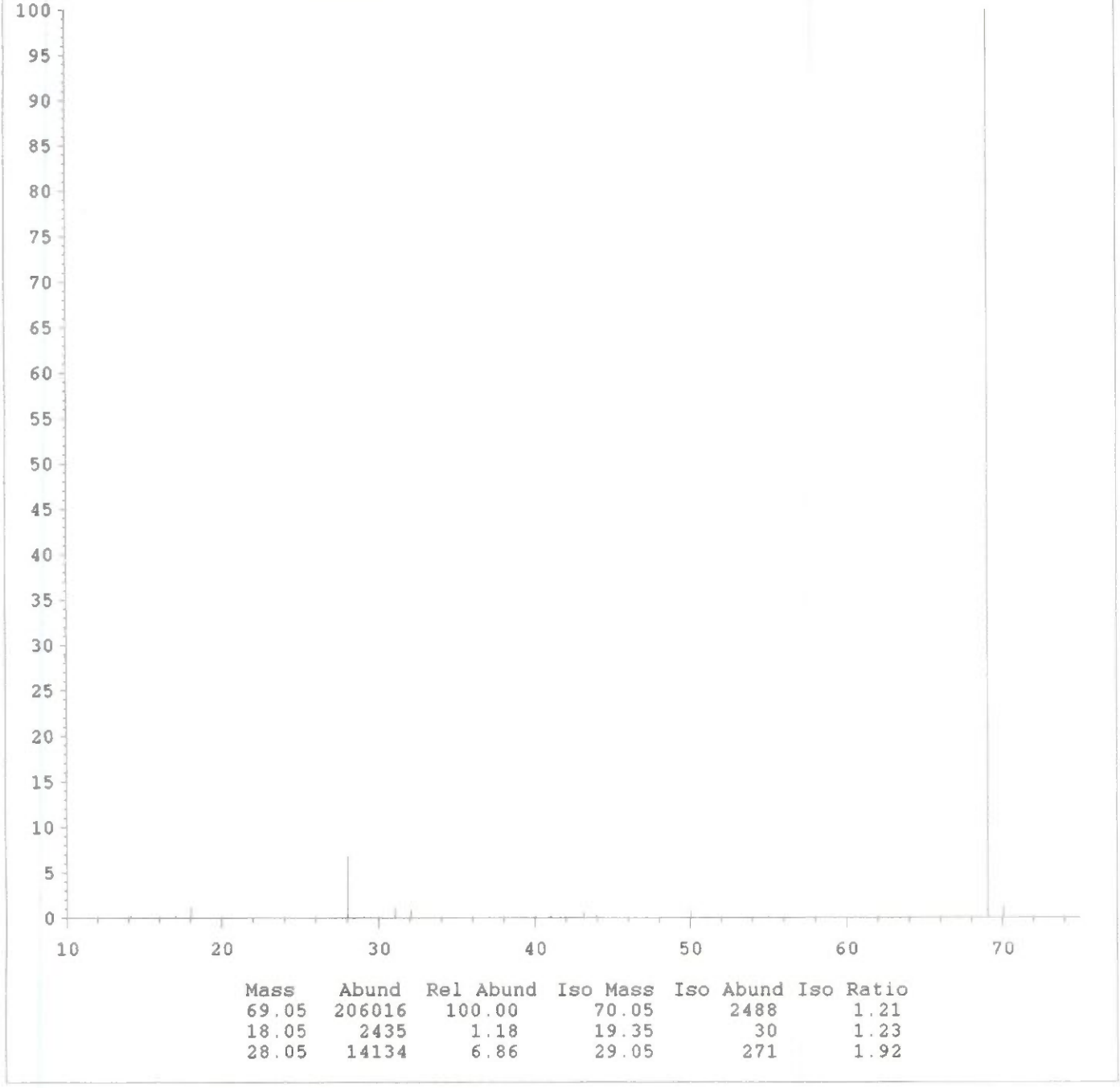
1st Air/water check after helium tank change - DJ

DS
OK

597x Air and Water Check

Instrument: SD GCMS 1
Thu Feb 06 10:39:11 2025 C:\MSDCHEM\1\5973\

Scan: 10.00 - 75.00 Samples: 8 Thresh: 0 Step: 0.10
70 peaks Base: 69.05 Abundance: 206016



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.05	206016	100.00	70.05	2488	1.21
18.05	2435	1.18	19.35	30	1.23
28.05	14134	6.86	29.05	271	1.92

Current Params used: atune.u

2nd Air/Water check

Relative abundances: ✓

18/69 =	1.18 ✓	Water%
28/69 =	6.86 ✓	Nitrogen%
32/69 =	0.82 ✓	Oxygen%
44/69 =	0.39 ✓	Carbon Dioxide%
28/18 =	580.45	Nitrogen/Water%

System Verification - Tune (Detector Optimization) Portion

Instrument Name	: SD GCMS 1	
DC Polarity	: Positive	
Filament	: 1	
BasePeak should be 69 or 219		Ok
Position of mass 69	69.05	Ok
Position of mass 219	219.05	Ok
Position of mass 502	502.05	Ok
Position of isotope mass 70	70.02	Ok
Position of isotope mass 220	220.01	Ok
Position of isotope mass 503	503.07	Ok
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.10	Ok
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.37	Ok
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.19	Ok
Ratio of 219 to 69 should be > 40% and is	86.27	Ok
Ratio of 502 to 69 should be > 2.4% and is	10.98	Ok
Mass 69 Precursor (<= 3%)	0.21	Ok
Mass 219 Precursor (<= 6%)	0.39	Ok
Mass 502 Precursor (<= 12%)	0.50	Ok
Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	1.18	Ok
Ratio of 28 to 69 (<10%)	6.44	Ok
Electron Multiplier Voltage	1529	Ok

Tune portion of System Verification passed.

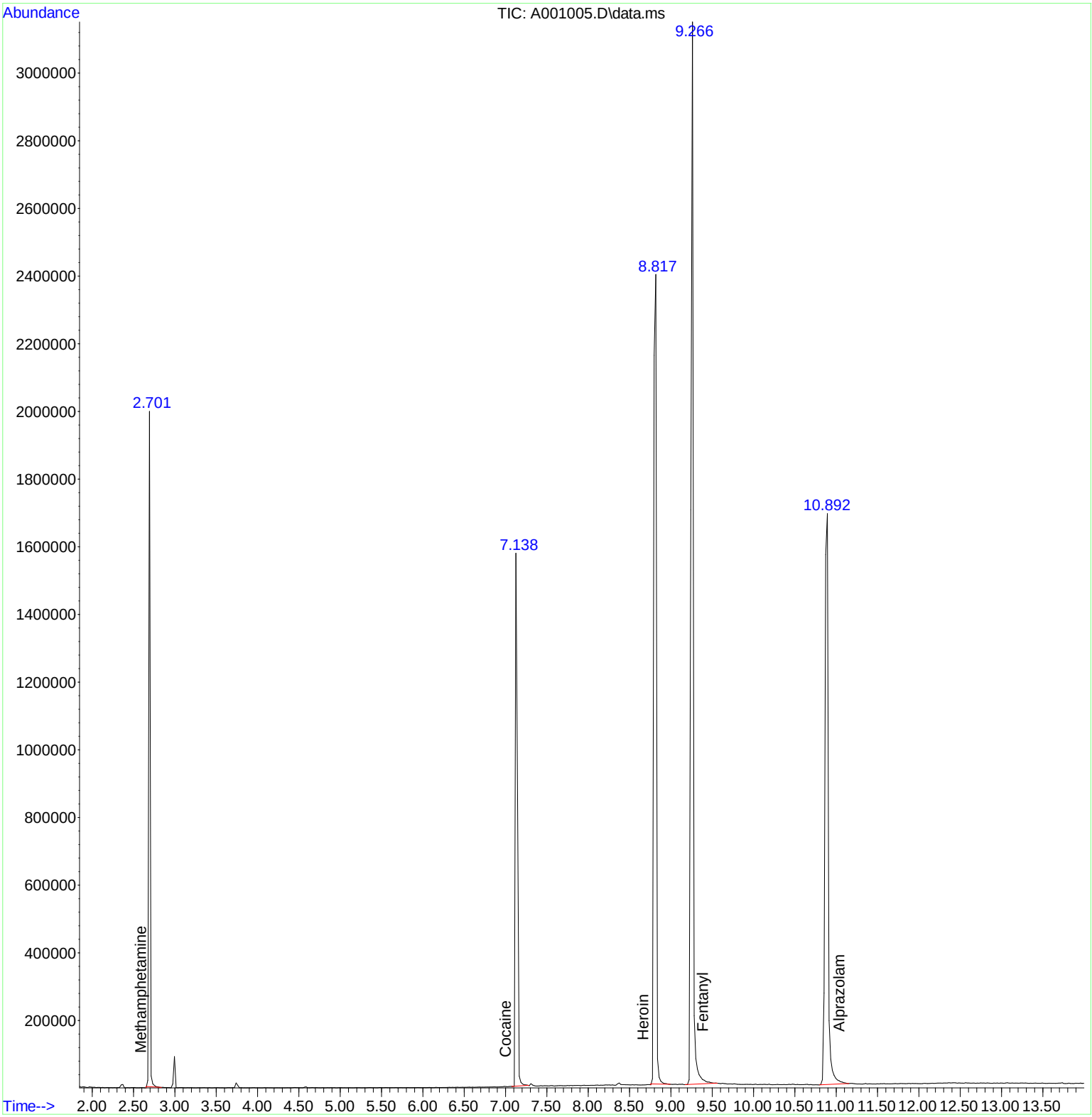
BCCL GC/MS #1
Retention Times for the Week of:

02/06/2025 - 02/09/2025

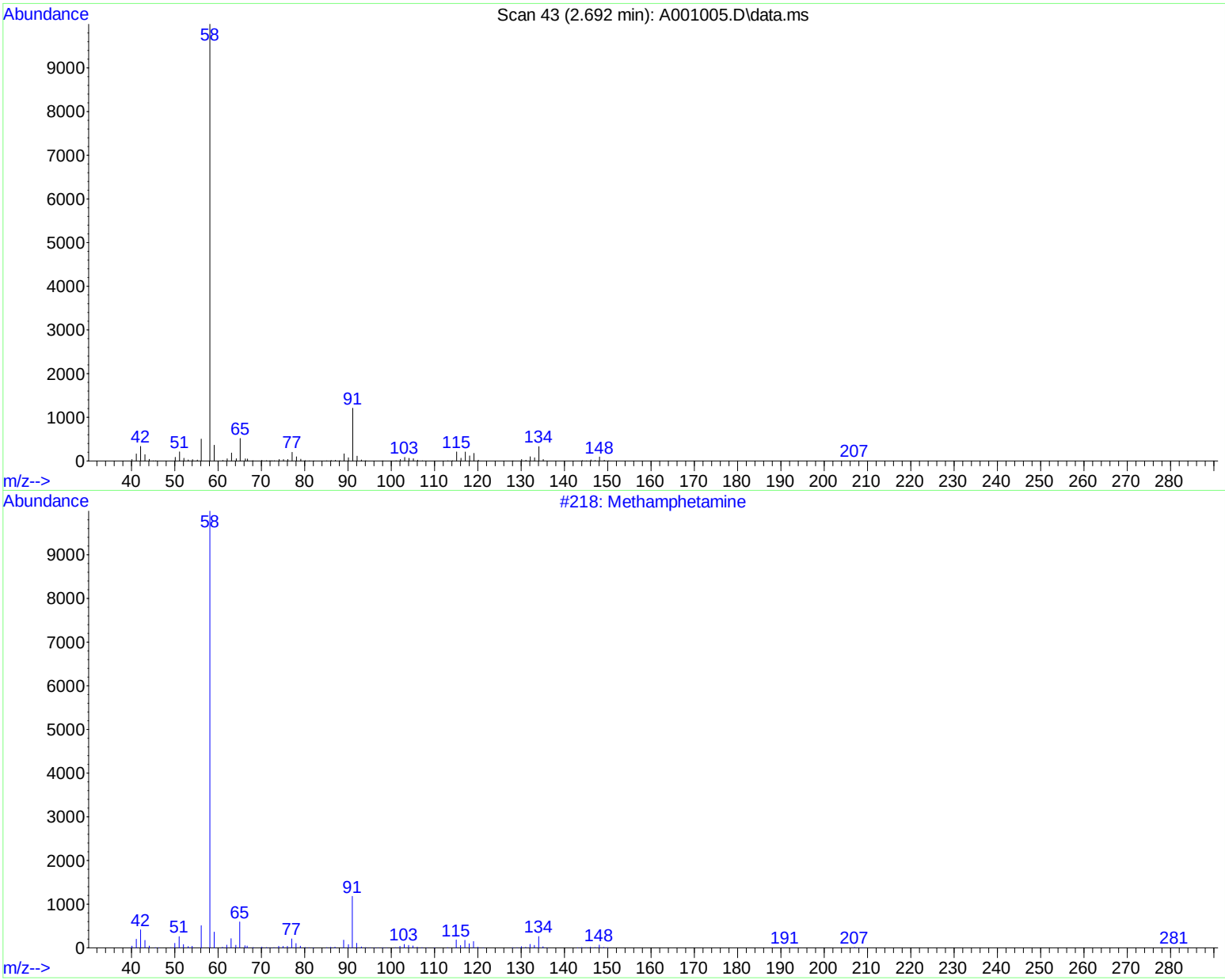
[x] **Tune: 02/06/2025 - Autotune DS**

Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	BCCL GenDrug	2.701	2.673	2.728
Cocaine	R-24-060	BCCL GenDrug	7.138	7.066	7.209
Heroin	R-24-060	BCCL GenDrug	8.817	8.728	8.905
Fentanyl	R-24-060	BCCL GenDrug	9.266	9.173	9.358
Alprazolam	R-24-060	BCCL GenDrug	10.892	10.783	11.000

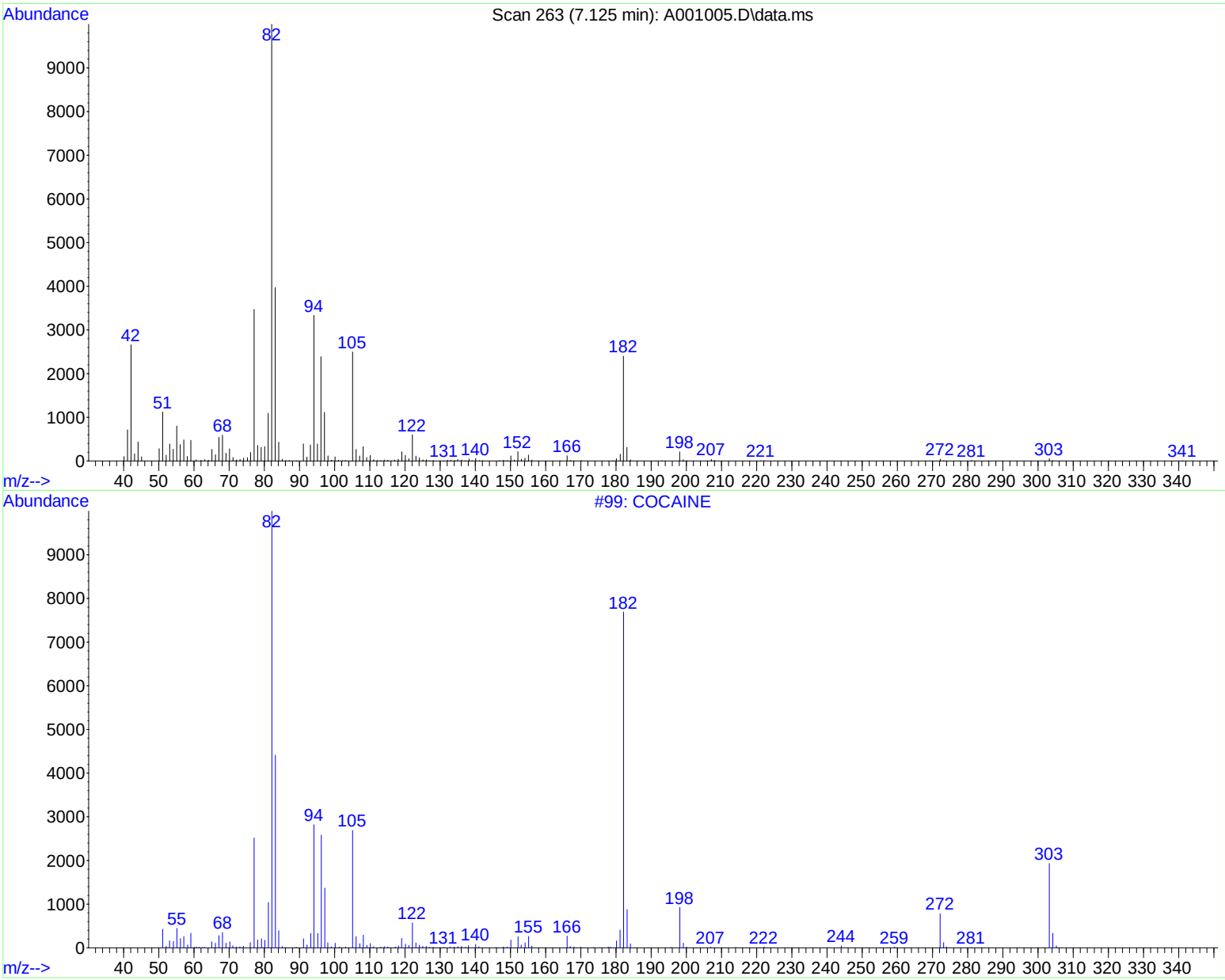
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... 2025\020625\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 6 Feb 2025 11:55 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



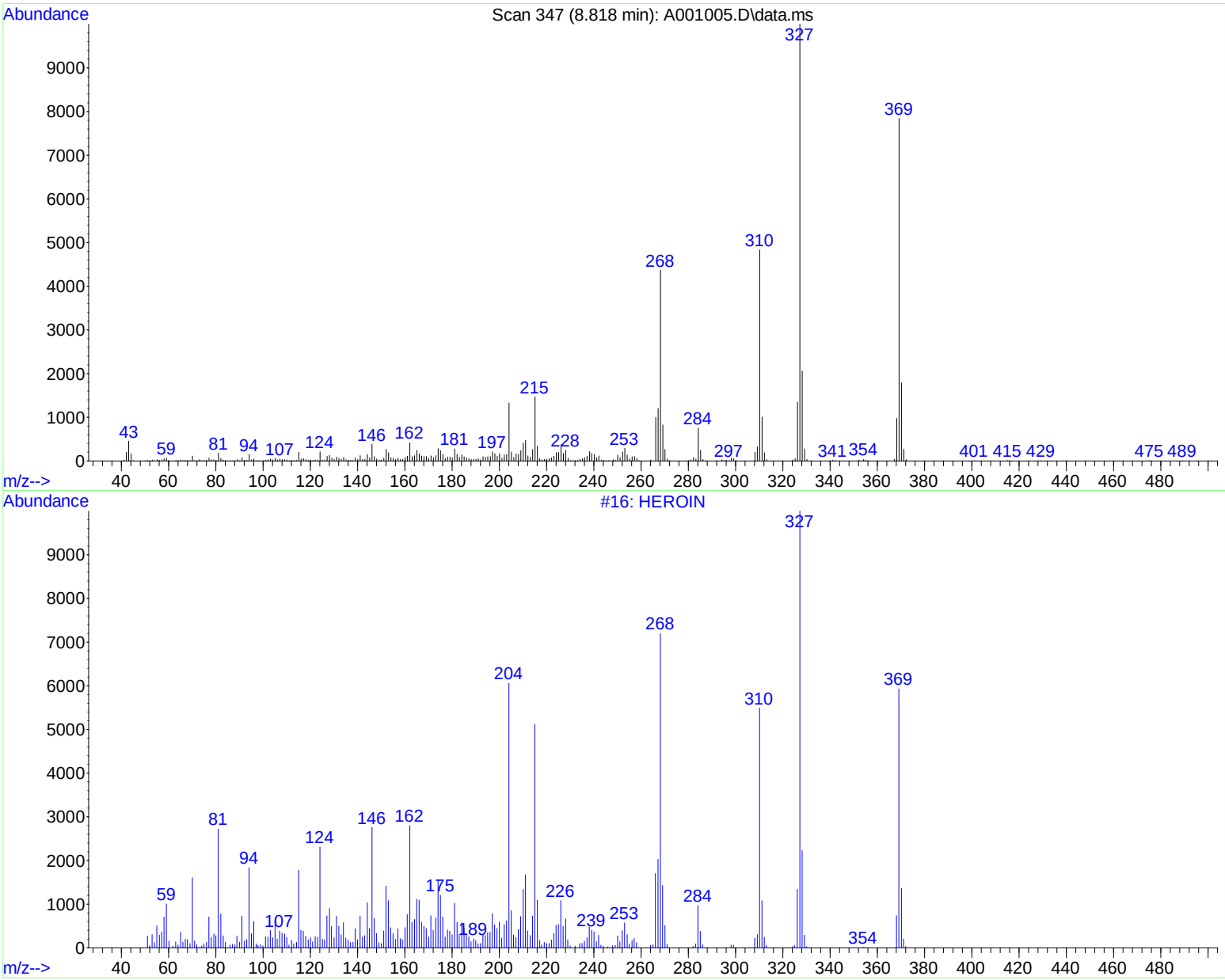
Library Searched : C:\Database\DRUG.L Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)
Quality : 90
ID : Methamphetamine



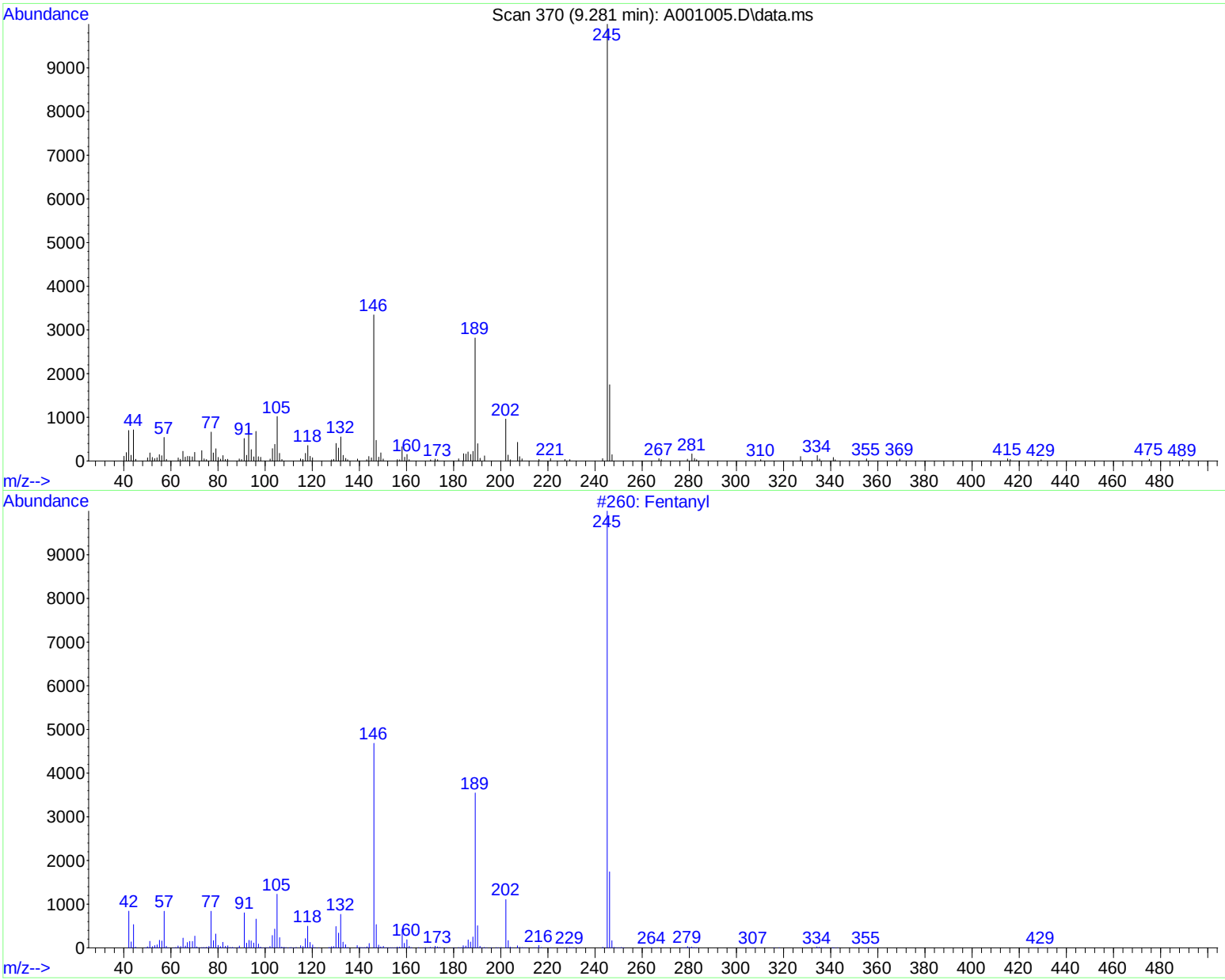
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Quality : 91
ID : COCAINE



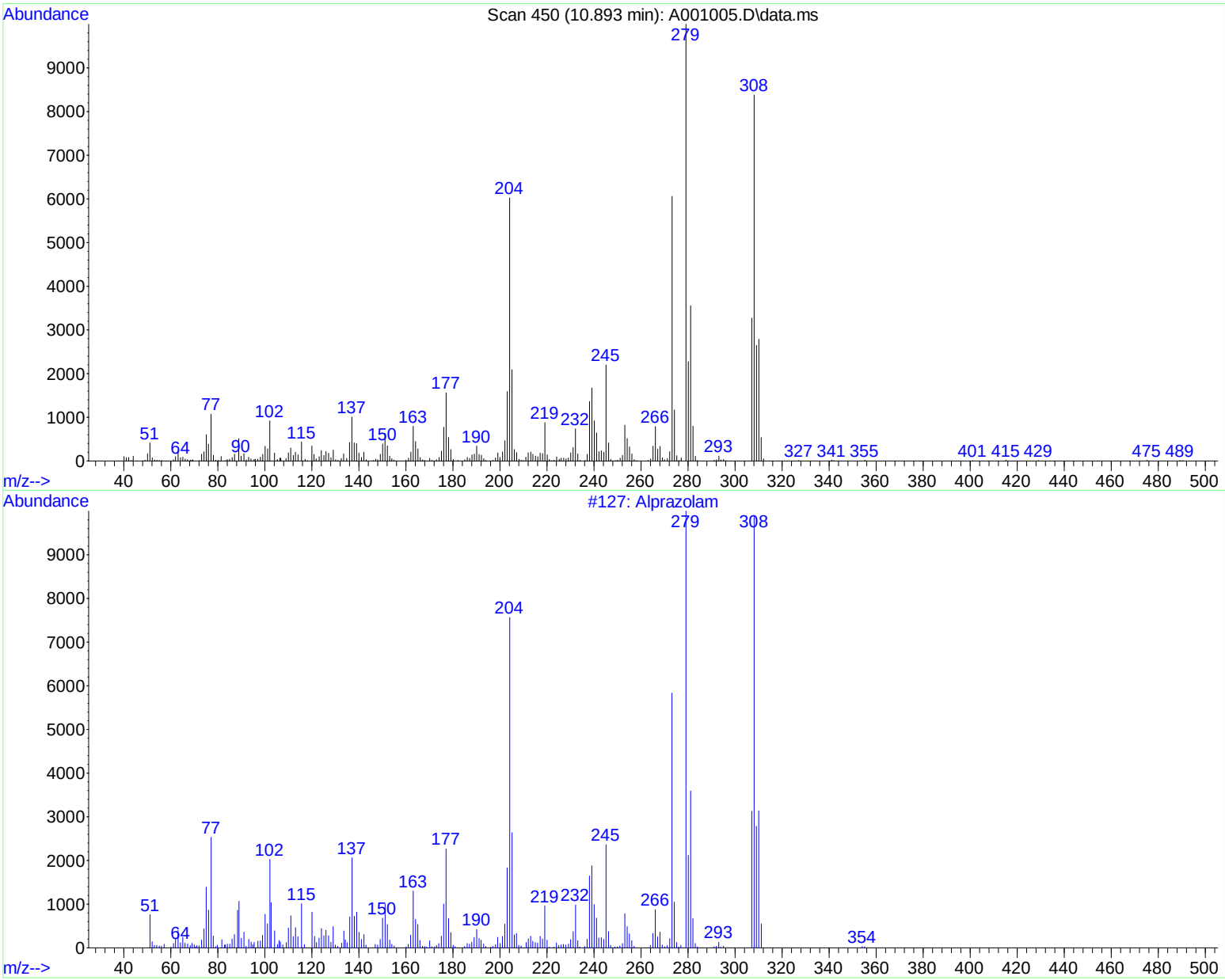
Library Searched : C:\Database\DRUG.L Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)
Quality : 99
ID : HEROIN



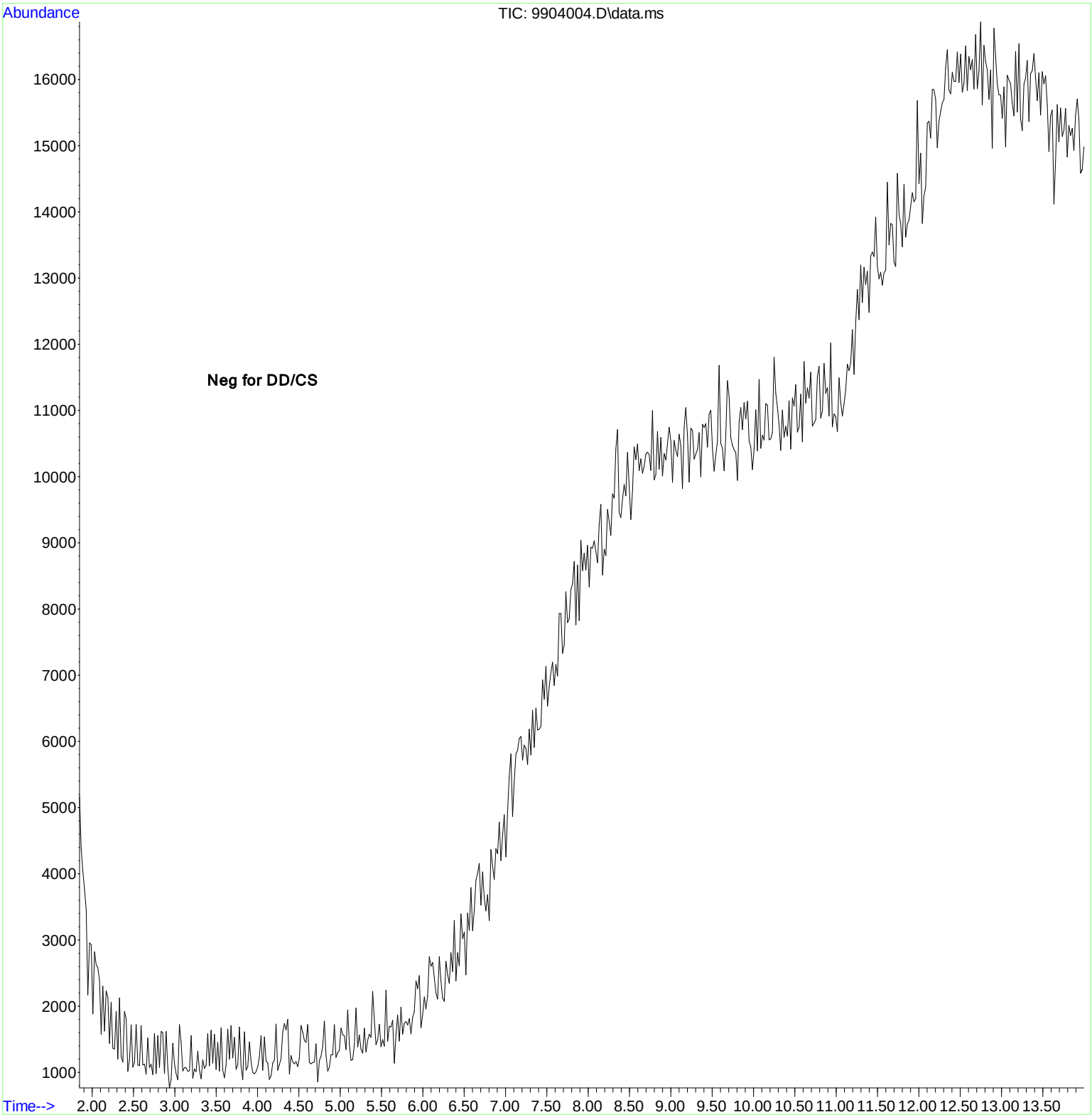
Library Searched : C:\Database\DRUG.L Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)
Quality : 90
ID : Fentanyl



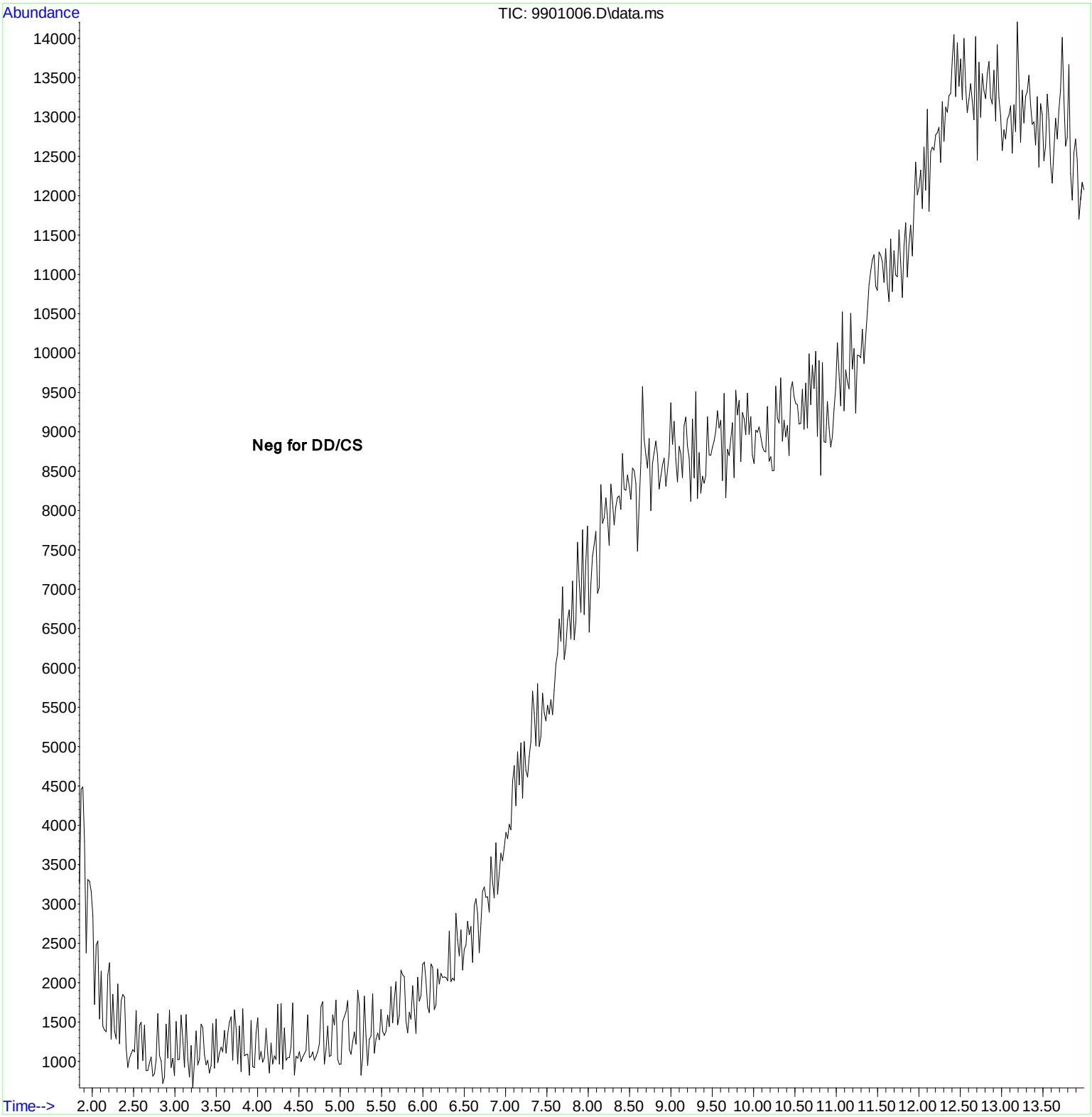
Library Searched : C:\Database\DRUG.L Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)
Quality : 99
ID : Alprazolam



File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\020625\9904004.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 6 Feb 2025 11:37 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK PRIOR TO CAYMAN GC/MS 000002664
Misc Info : ACN (C-19-0068)



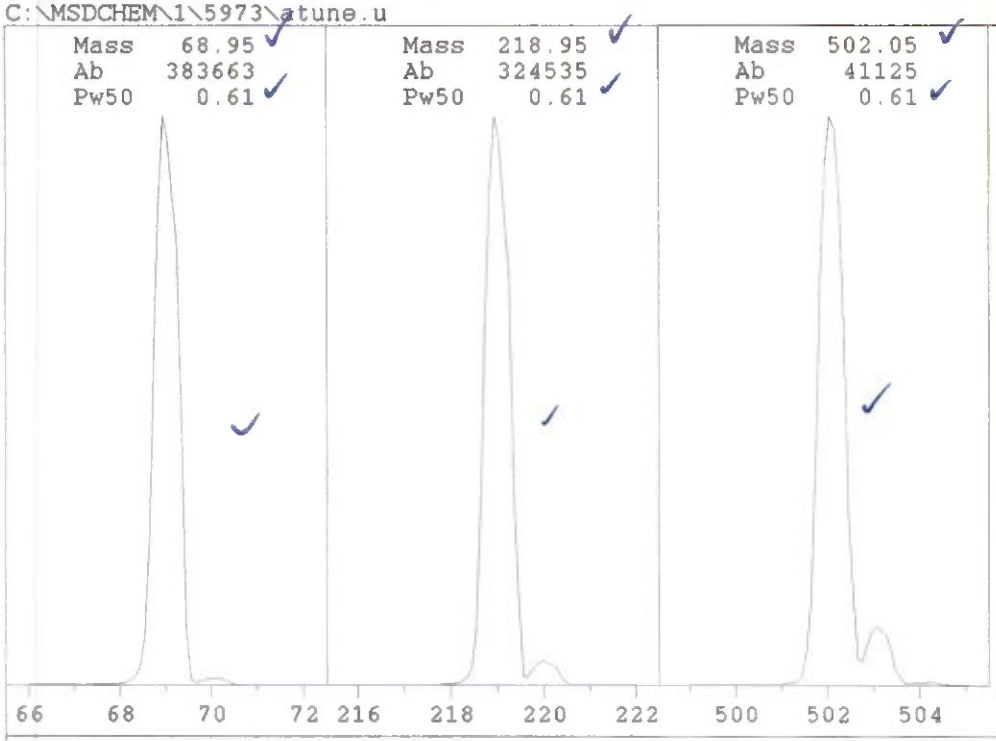
File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\020625\9901006.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 6 Feb 2025 12:12 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK - INSTRUMENT READY 000002664
Misc Info : ACN (C-19-0068)



5973 Autotune

Mon Feb 10 09:02:34 2025 Instrument: SD GCMS 1

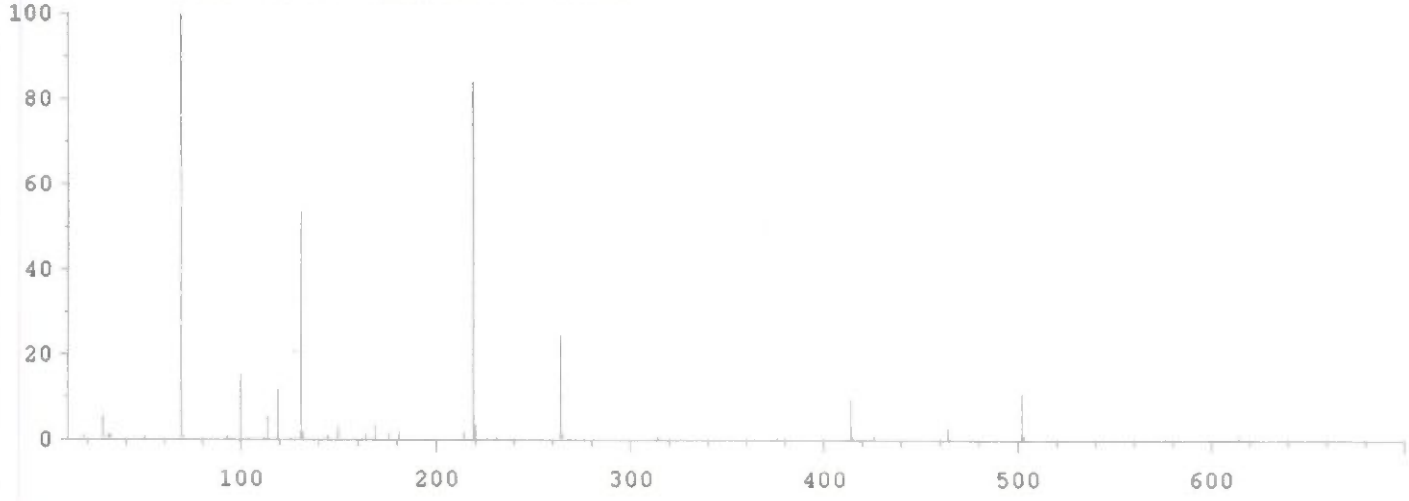
C:\MSDCHEM\1\5973\atune.u



Ion Pol	POS	MassGain	372
		MassOffs	-11
Emission	34.6	AmuGain	2443
EIEnrgy	69.9	AmuOffs	123
Filament	1	Wid219	-0.024
		DC Pol	POS
Repeller	29.79		
IonFcus	90.2	HEDEnab	ON
EntLens	14.5	EMVolts	1529
EntOffs	19.07		
		Samples	8
PFTBA	OPEN	Averages	3
		Stepsize	0.10
Zones:			
MS Source	230	TurboSpd	100
MS Quad	150		

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

122 peaks Base: 69.05 Abundance: 344704



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.05	344704	100.00	70.05	3659	1.06
219.05	289280	83.92	220.05	12256	4.24
502.05	37864	10.98	503.05	4178	11.03

Air/Water Check: H2O~1.09% N2~5.58% O2~1.20% CO2~0.06% N2/H2O~513.42%

Column Flow: Front: 0.798 Back: 0 ml/min. Interface Temp: 280

Ramp Criteria:

Ion Focus Maximum 90 volts using ion 502: EM Gain 96437

Repeller Maximum 35 volts using ion 219:

MassGain Values @Samples: 372@3 372@2 372@1 372@0 372@FS

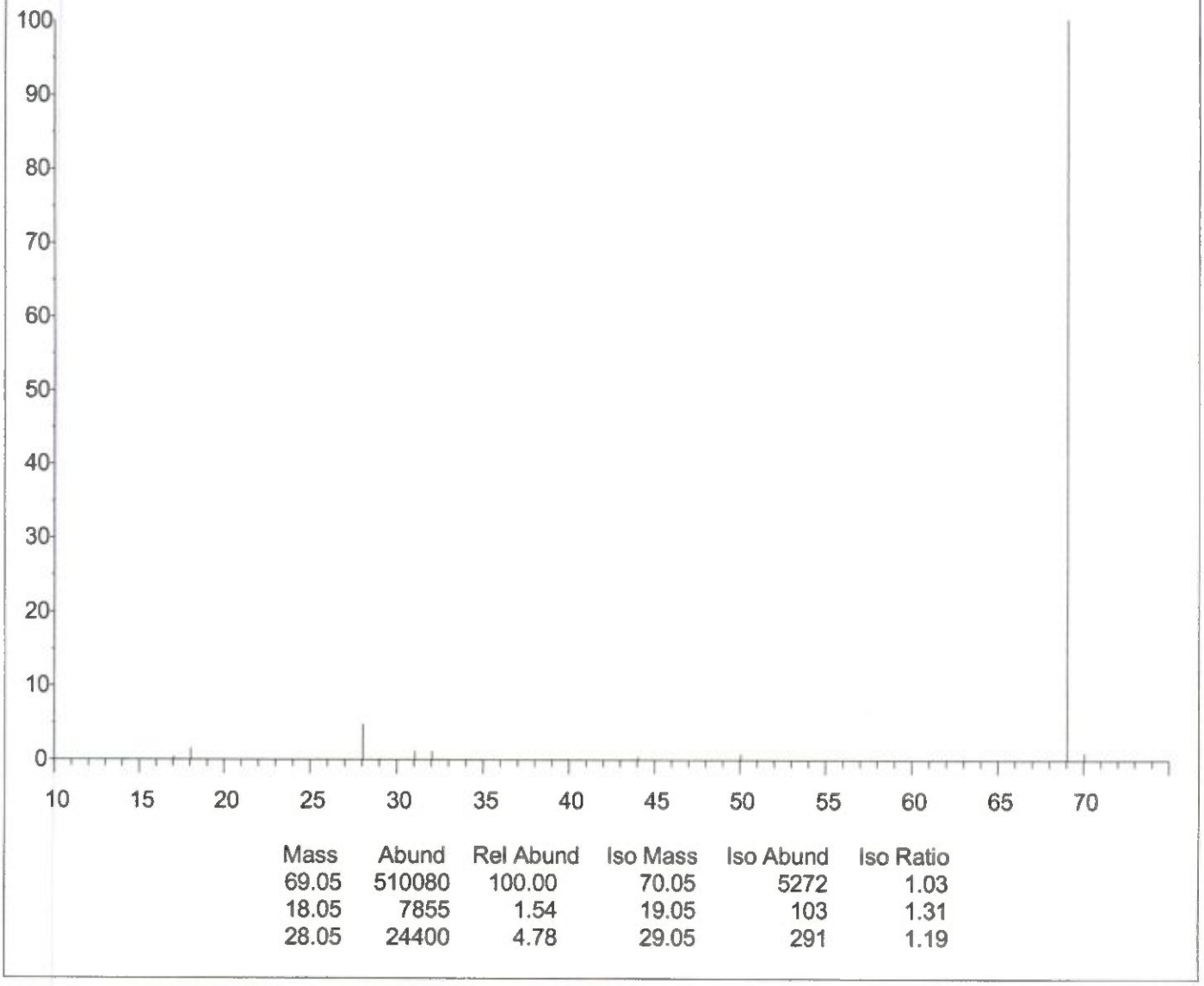
TARGET MASS:	50	69	131	219	414	502	800
Amu Offset:	123.0	123.0	123.0	123.0	123.0	123.0	123.0
Entrance Lens Offset:	19.1	19.1	19.1	19.1	19.1	19.1	19.1

DS
OK

597x Air and Water Check

Instrument: SD GCMS 1
Mon Feb 10 08:55:47 2025 C:\MSDCHEM\1\5973\

Scan: 10.00 - 75.00 Samples: 8 Thresh: 0 Step: 0.10
62 peaks Base: 69.05 Abundance: 510080



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.05	510080	100.00	70.05	5272	1.03
18.05	7855	1.54	19.05	103	1.31
28.05	24400	4.78	29.05	291	1.19

Current Params used: atune.u

Relative abundances:
18/69 = 1.54 ✓ Water%
28/69 = 4.78 ✓ Nitrogen%
32/69 = 1.17 ✓ Oxygen%
44/69 = 0.45 ✓ Carbon Dioxide%
28/18 = 310.63 Nitrogen/Water%

DS

System Verification - Tune (Detector Optimization) Portion

Instrument Name	: SD GCMS 1	
DC Polarity	: Positive	
Filament	: 1	
BasePeak should be 69 or 219		Ok
Position of mass 69	69.05	Ok
Position of mass 219	219.05	Ok
Position of mass 502	502.06	Ok
Position of isotope mass 70	70.03	Ok
Position of isotope mass 220	220.04	Ok
Position of isotope mass 503	503.09	Ok
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.10	Ok
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.32	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	84.71	Ok
Ratio of 502 to 69 should be > 2.4% and is	11.29	Ok
Mass 69 Precursor (<= 3%)	0.22	Ok
Mass 219 Precursor (<= 6%)	0.38	Ok
Mass 502 Precursor (<= 12%)	0.43	Ok
Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	1.09	Ok
Ratio of 28 to 69 (<10%)	6.19	Ok
Electron Multiplier Voltage	1529	Ok

Tune portion of System Verification passed.

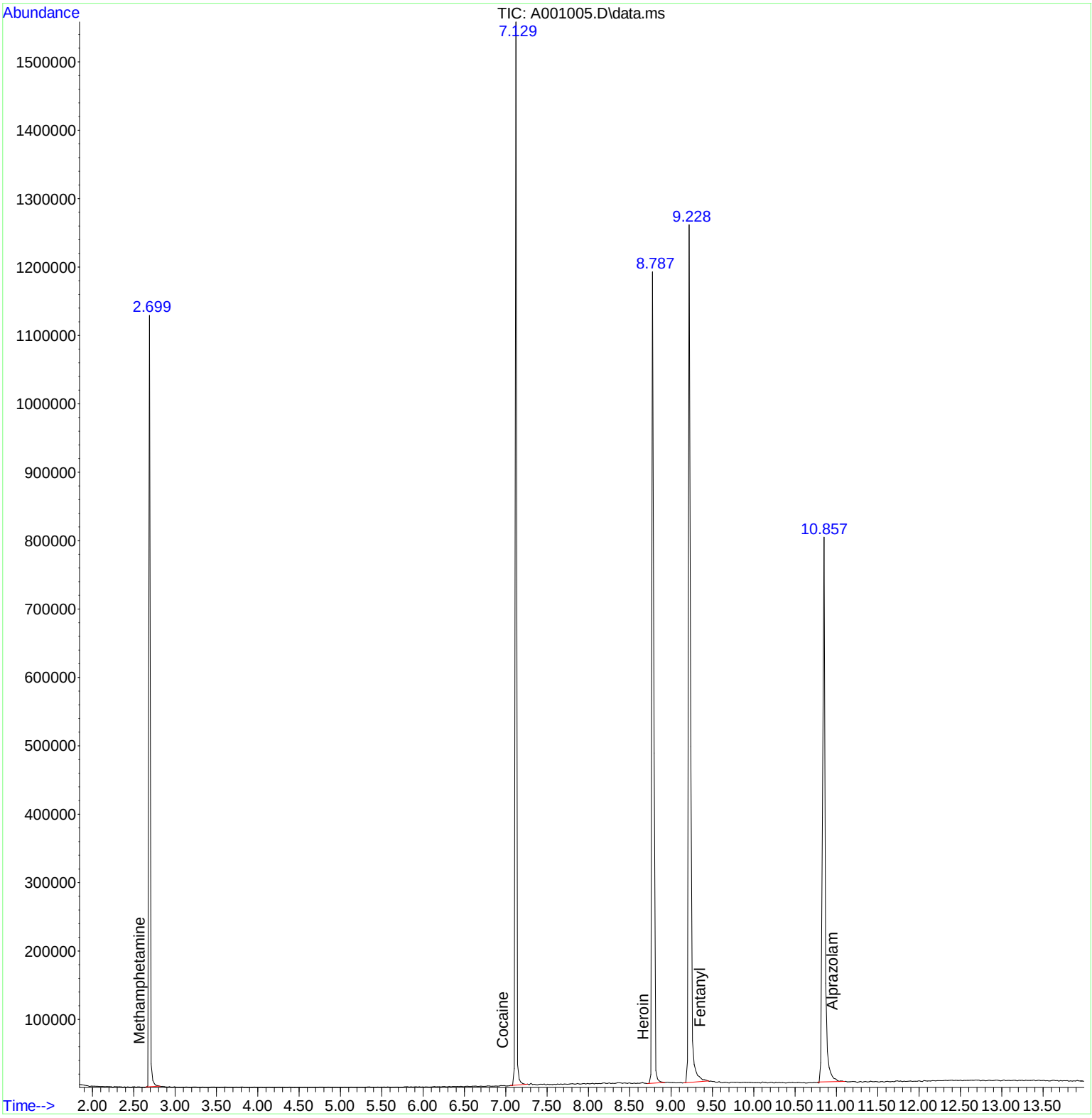
BCCL GC/MS #1
Retention Times for the Week of:

02/10/2025 - 02/16/2025

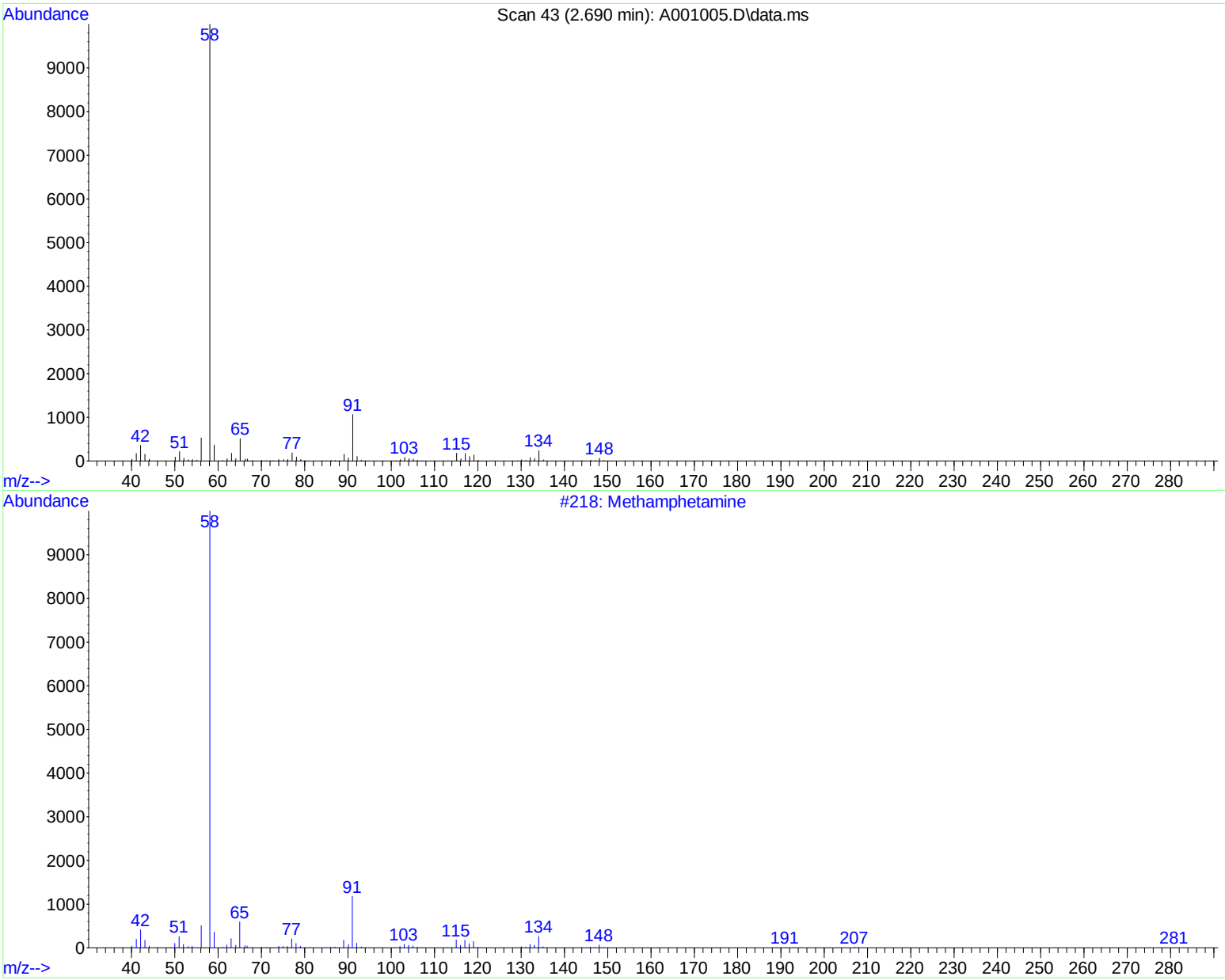
[x] **Tune: 02/10/2025 - Autotune DN/DS**

Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	BCCL GenDrug	2.699	2.672	2.725
Cocaine	R-24-060	BCCL GenDrug	7.129	7.057	7.200
Heroin	R-24-060	BCCL GenDrug	8.787	8.699	8.874
Fentanyl	R-24-060	BCCL GenDrug	9.228	9.135	9.320
Alprazolam	R-24-060	BCCL GenDrug	10.857	10.748	10.965

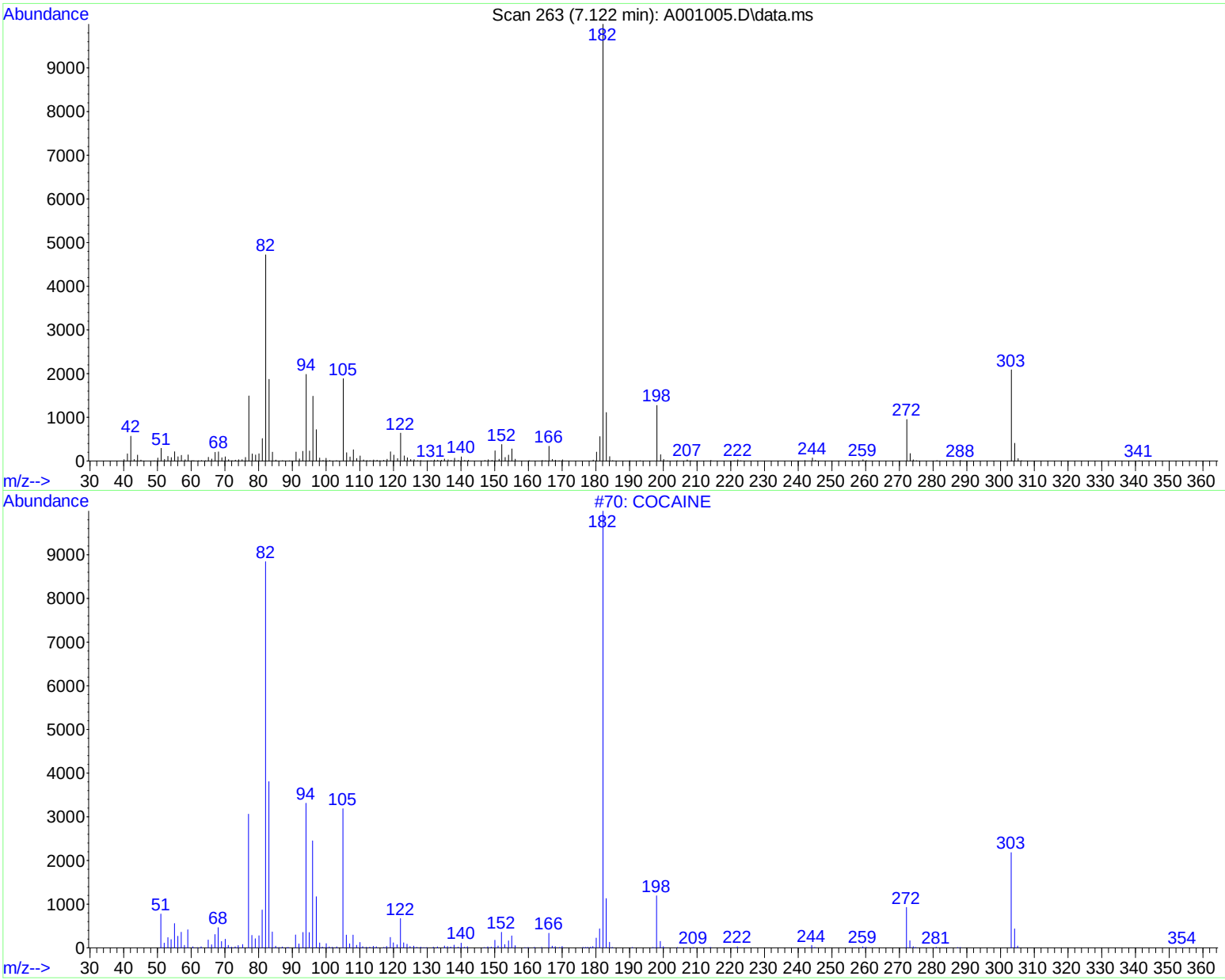
File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\021025\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 10 Feb 2025 10:14 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



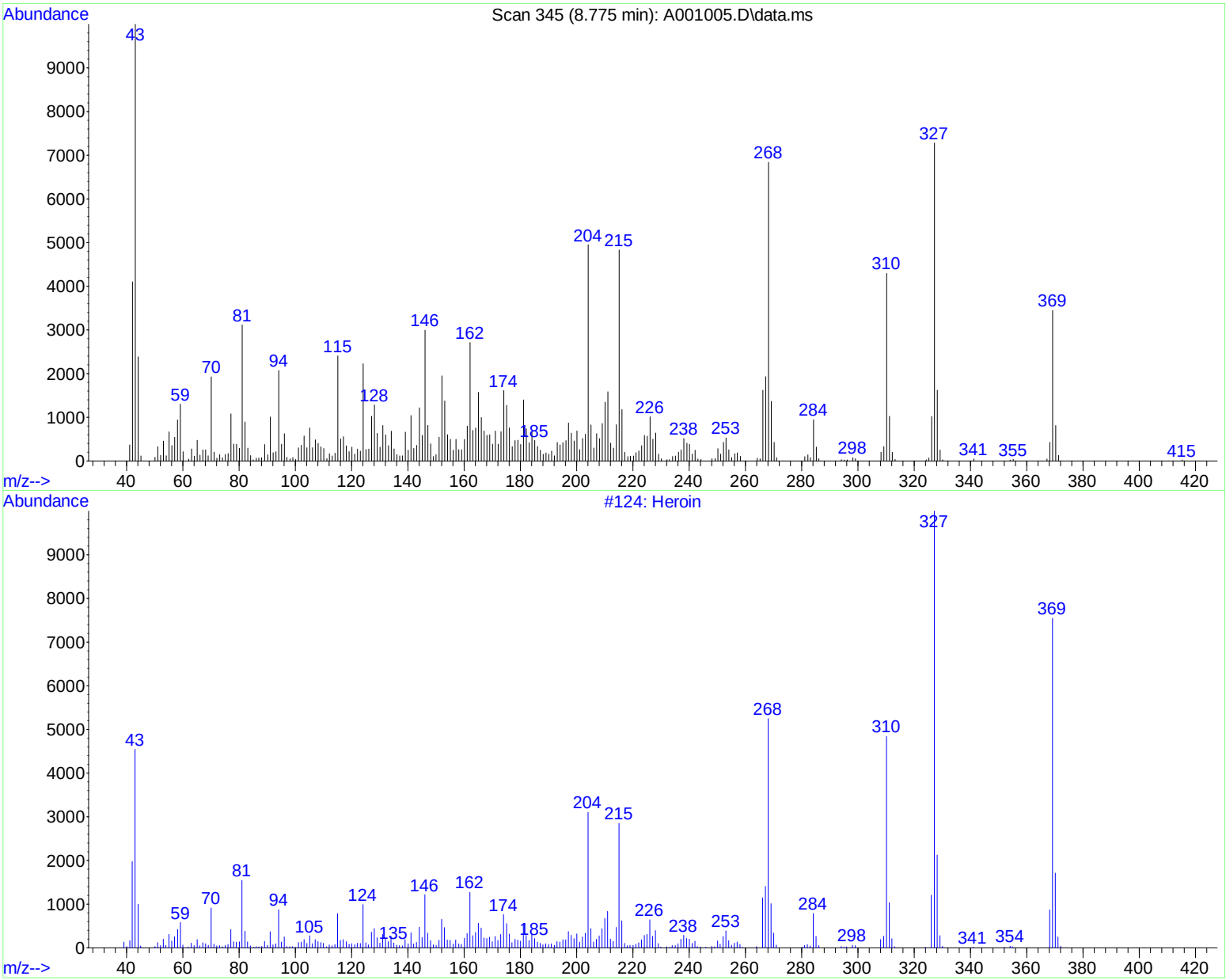
Library Searched : C:\Database\DRUG.L Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)
Quality : 90
ID : Methamphetamine



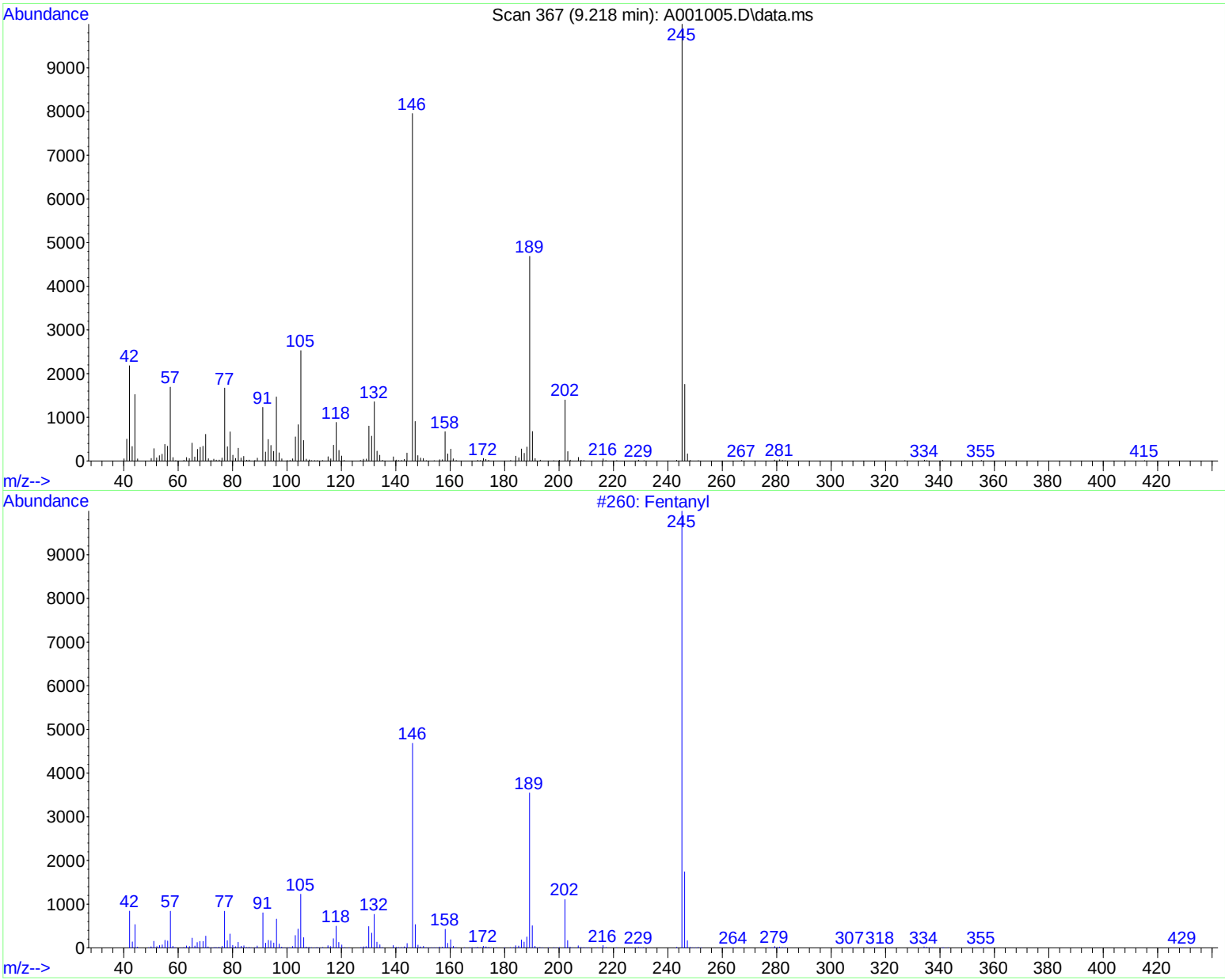
Library Searched : C:\Database\DRUG.L Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)
Quality : 99
ID : COCAINE



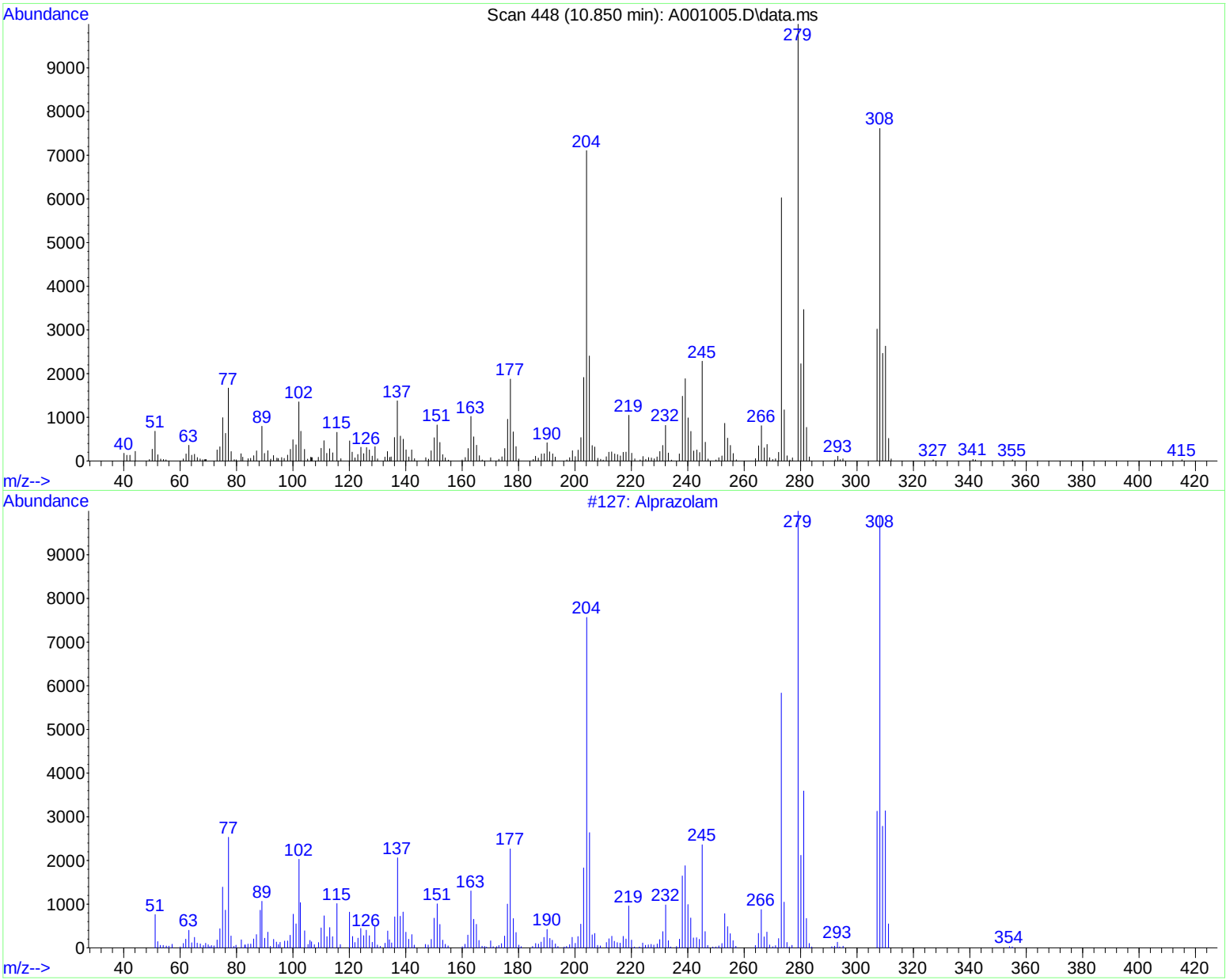
Library Searched : C:\Database\DRUG.L Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)
Quality : 99
ID : Heroin



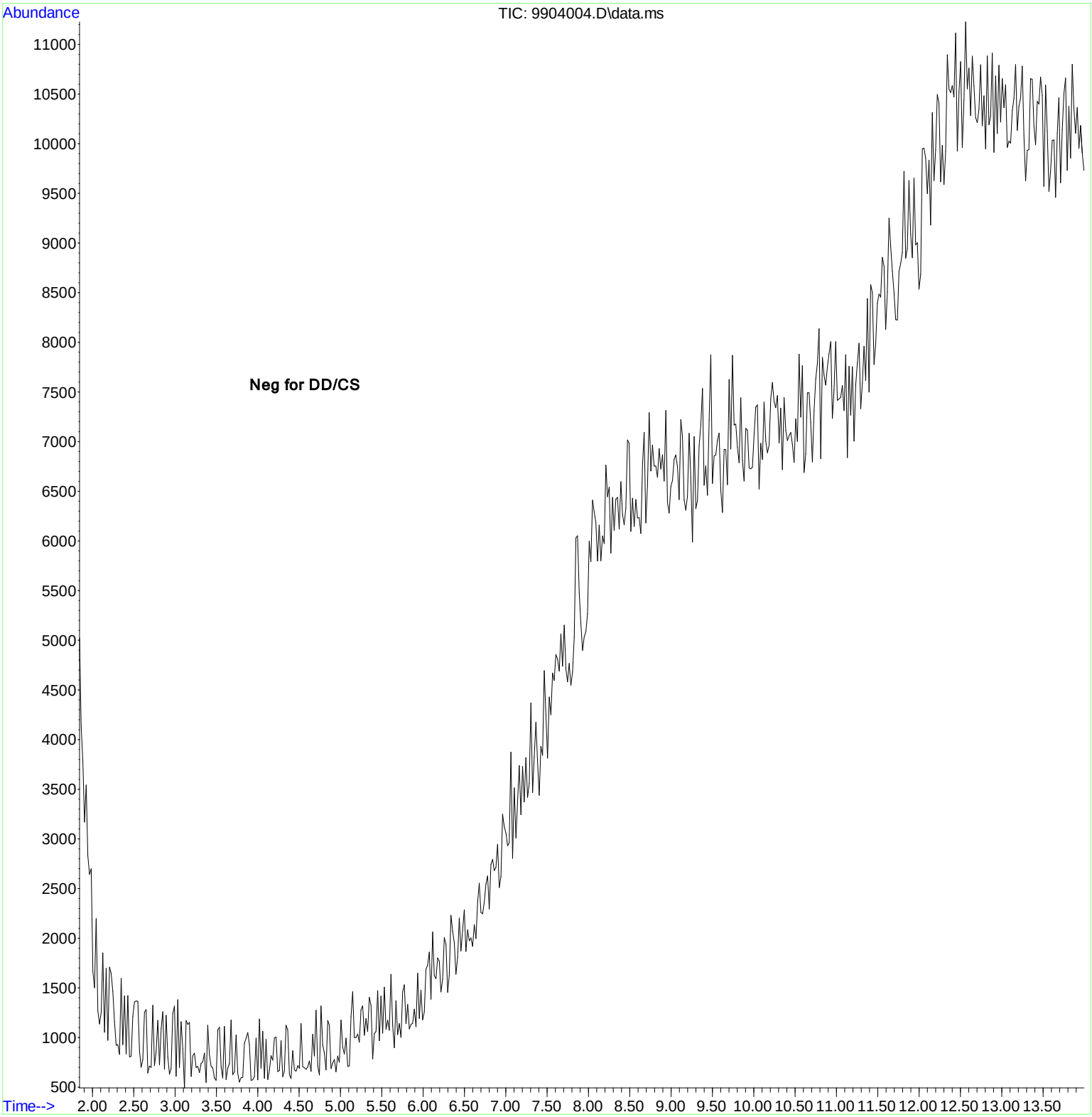
Library Searched : C:\Database\DRUG.L Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)
Quality : 90
ID : Fentanyl



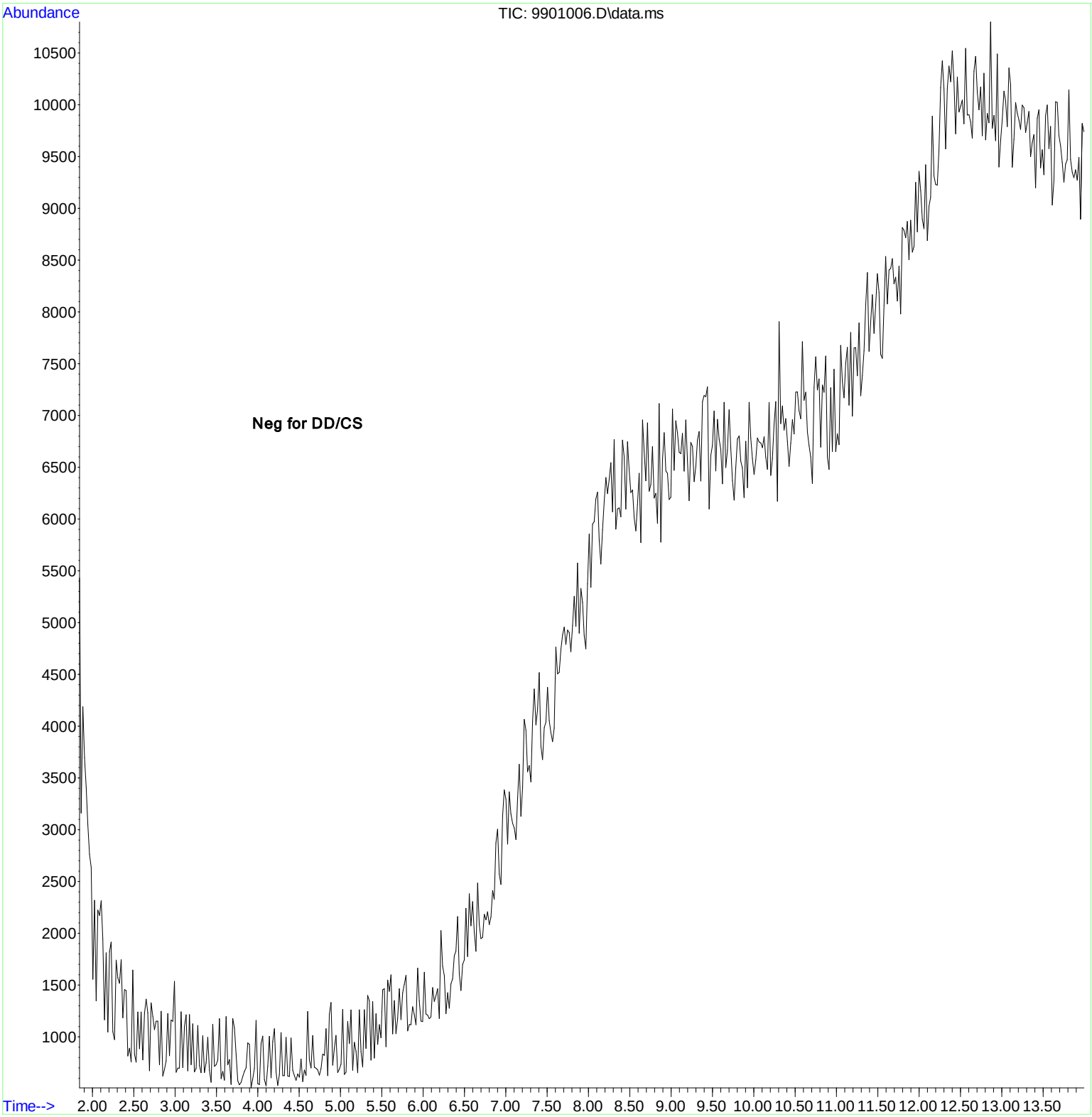
Library Searched : C:\Database\DRUG.L Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)
Quality : 99
ID : Alprazolam



File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\021025\9904004.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 10 Feb 2025 9:56 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK PRIOR TO CAYMAN GC/MS 000002664
Misc Info : ACN (C-19-0068)



File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\021025\9901006.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 10 Feb 2025 10:32 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK - INSTRUMENT READY 000002664
Misc Info : ACN (C-19-0068)



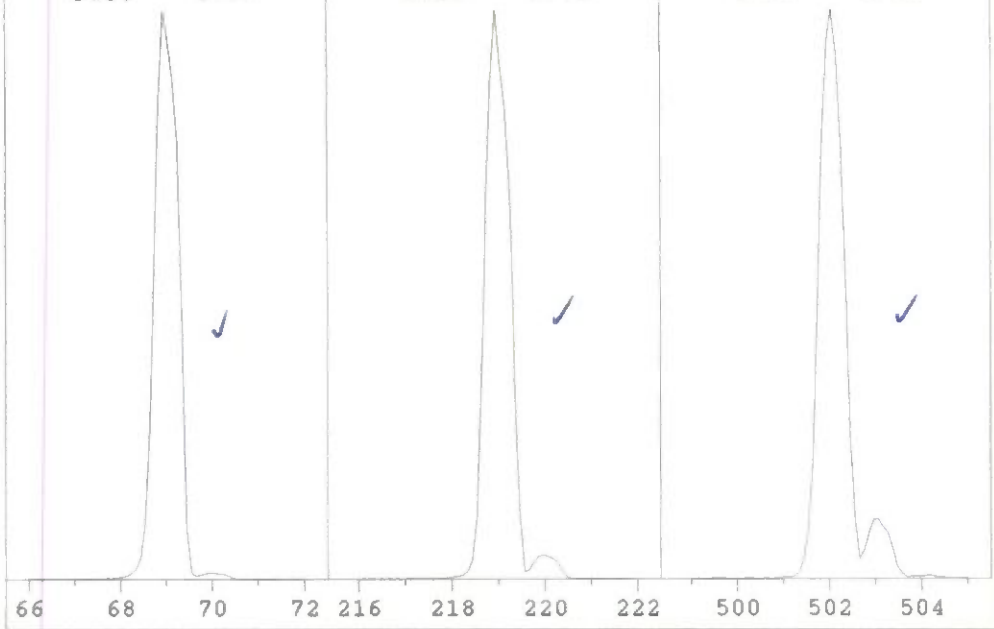
5973 Autotune

Mon Feb 17 10:27:20 2025
C:\MSDCHEM\1\5973\atune.u

Instrument: SD GCMS 1

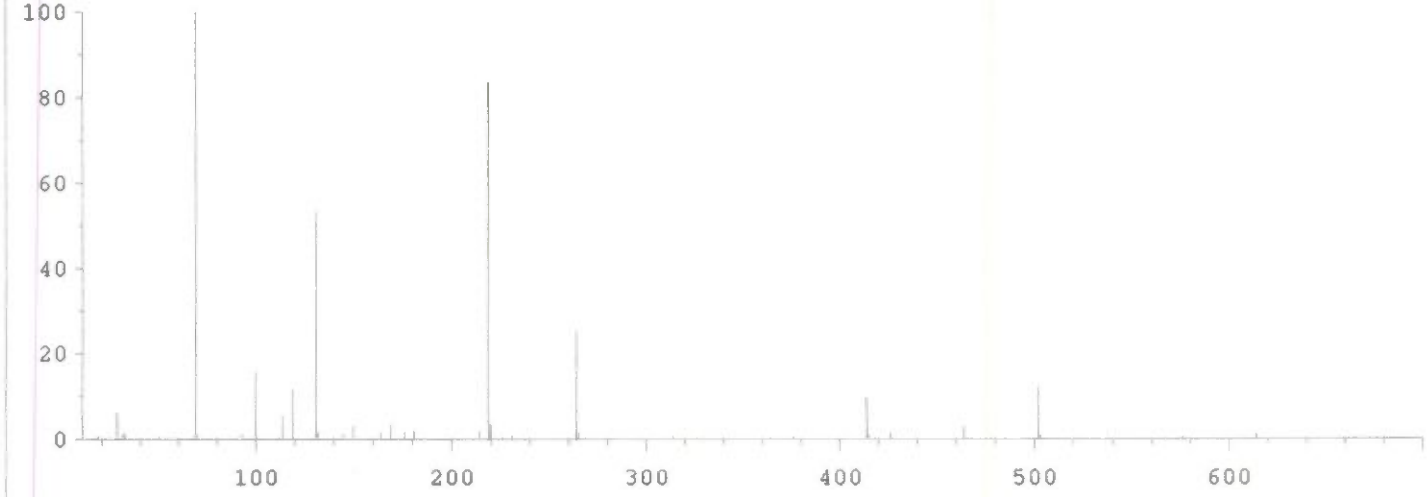
DS
DK

Mass	68.95	Mass	218.95	Mass	502.05
Ab	479199	Ab	416784	Ab	55965
Pw50	0.60	Pw50	0.61	Pw50	0.61



Ion Pol	POS	MassGain	367
		MassOffs	-11
Emission	34.6	AmuGain	2445
EIEnrgy	69.9	AmuOffs	122
Filament	1	Wid219	-0.024
		DC Pol	POS
Repeller	30.29		
IonFcus	90.2	HEDEnab	ON
EntLens	16.5	EMVolts	1624
EntOffs	19.07		
		Samples	8
PFTBA	OPEN	Averages	3
		Stepsize	0.10
Zones:			
MS Source	230	TurboSpd	100
MS Quad	150		

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100 Step: 0.10
147 peaks Base: 69.05 Abundance: 437056



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.05	437056	100.00	70.05	4792	1.10
218.95	365056	83.53	219.95	15349	4.20
502.05	52744	12.07	503.05	5081	9.63

Air/Water Check: H20~0.82% N2~6.28% O2~1.33% CO2~0.05% N2/H2O~768.01%

Column Flow: Front: 0.798 Back: 0 ml/min. Interface Temp: 280

Ramp Criteria:
Ion Focus Maximum 90 volts using ion 502: EM Gain 160162
Repeller Maximum 35 volts using ion 219:

MassGain Values @Samples: 367@3 367@2 367@1 367@0 367@FS

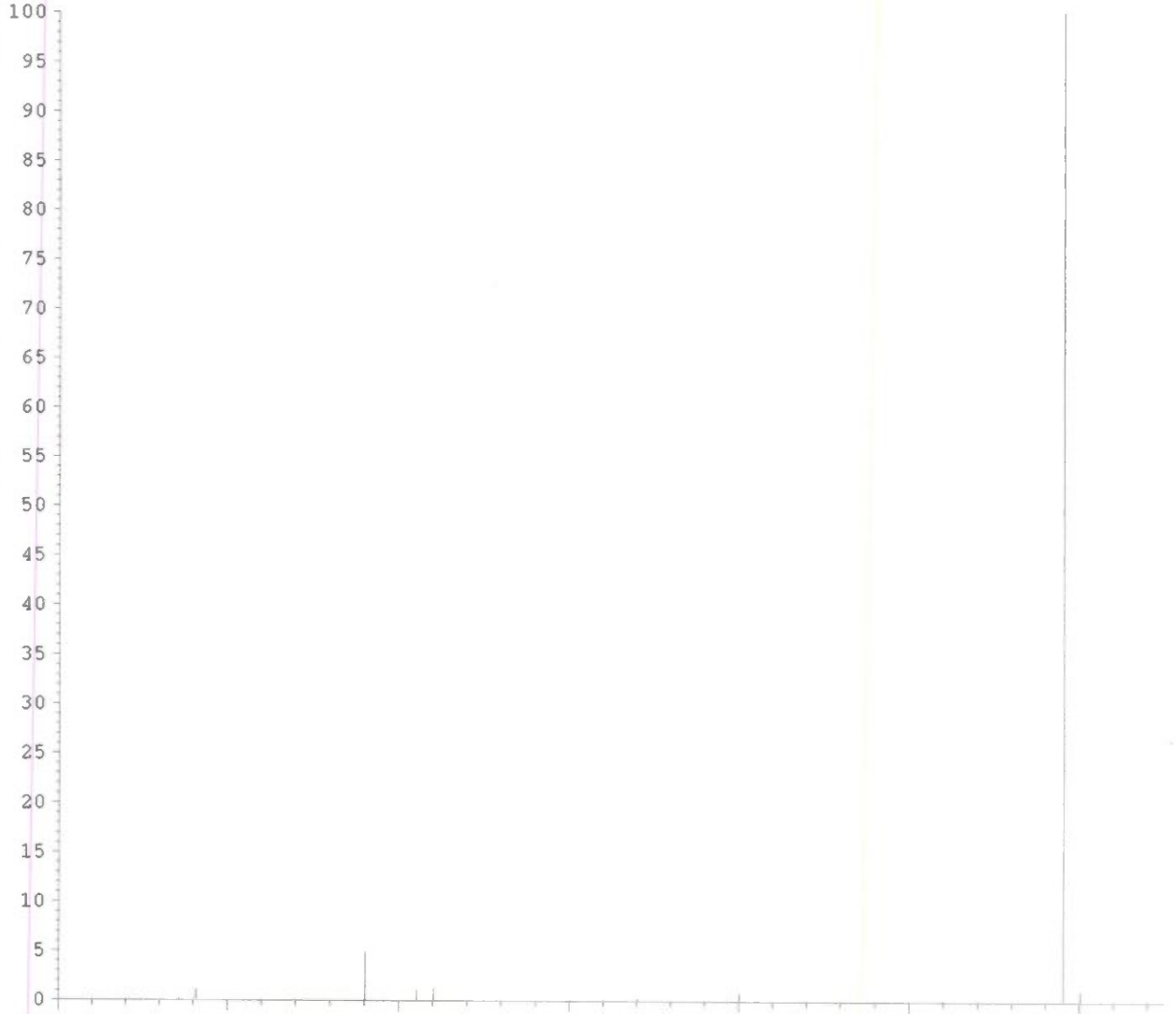
TARGET MASS:	50	69	131	219	414	502	800
Amu Offset:	122.0	122.0	122.0	122.0	122.0	122.0	122.0
Entrance Lens Offset:	19.1	19.1	19.1	19.1	19.1	19.1	19.1

DS
ok

597x Air and Water Check

Instrument: SD GCMS 1
Mon Feb 17 10:20:21 2025 C:\MSDCHEM\1\5973\

Scan: 10.00 - 75.00 Samples: 8 Thresh: 0 Step: 0.10
68 peaks Base: 69.05 Abundance: 379904



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.05	379904	100.00	70.05	4221	1.11
18.15	4355	1.15	19.05	28	0.64
28.05	18984	5.00	29.15	207	1.09

Current Params used: atune.u

Relative abundances: ✓

18/69 =	1.15 ✓	Water%
28/69 =	5.00 ✓	Nitrogen%
32/69 =	1.32 ✓	Oxygen%
44/69 =	0.33 ✓	Carbon Dioxide%
28/18 =	435.91	Nitrogen/Water%

System Verification - Tune (Detector Optimization) Portion

Instrument Name	: SD GCMS 1	
DC Polarity	: Positive	
Filament	: 1	
BasePeak should be 69 or 219		Ok
Position of mass 69	69.05	Ok
Position of mass 219	218.97	Ok
Position of mass 502	502.05	Ok
Position of isotope mass 70	70.03	Ok
Position of isotope mass 220	219.99	Ok
Position of isotope mass 503	503.05	Ok
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.09	Ok
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.42	Ok
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.21	Ok
Ratio of 219 to 69 should be > 40% and is	85.44	Ok
Ratio of 502 to 69 should be > 2.4% and is	12.26	Ok
Mass 69 Precursor (<= 3%)	0.23	Ok
Mass 219 Precursor (<= 6%)	0.42	Ok
Mass 502 Precursor (<= 12%)	0.56	Ok
Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	0.78	Ok
Ratio of 28 to 69 (<10%)	6.26	Ok
Electron Multiplier Voltage	1624	Ok

Tune portion of System Verification passed.

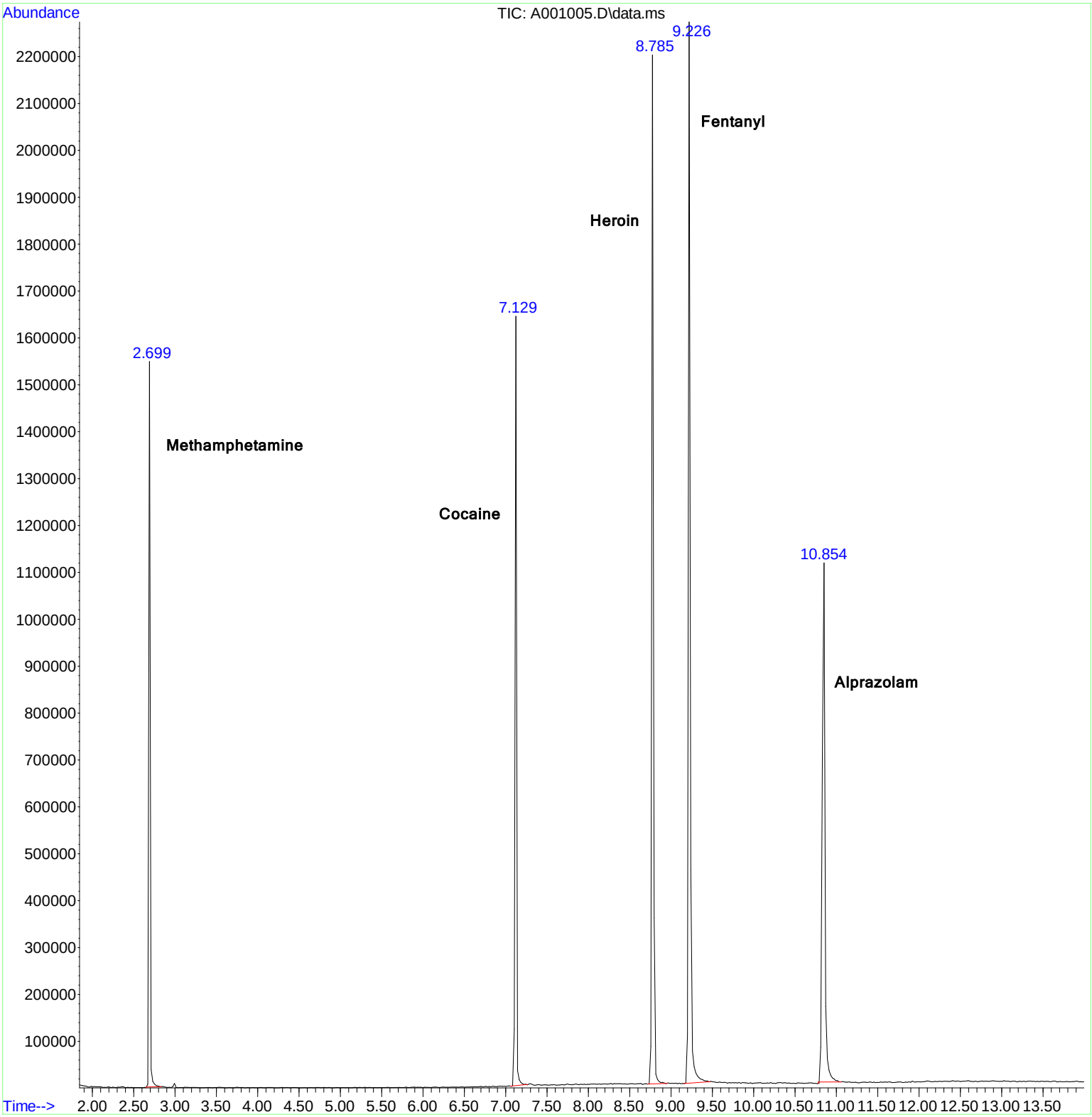
BCCL GC/MS #1
Retention Times for the Week of:

02/17/2025 - 02/23/2025

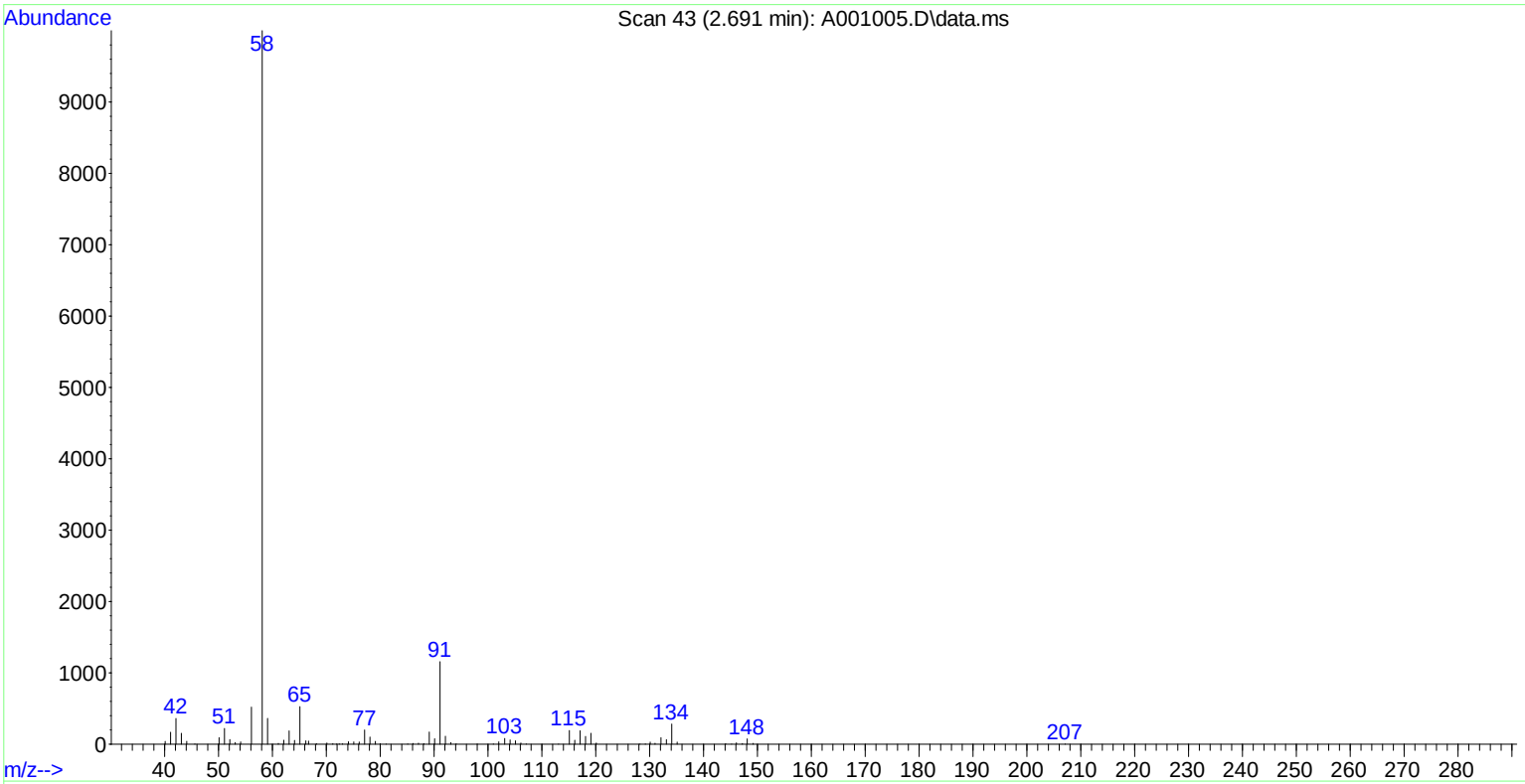
[x] **Tune: 02/17/2025 - Autotune DS**

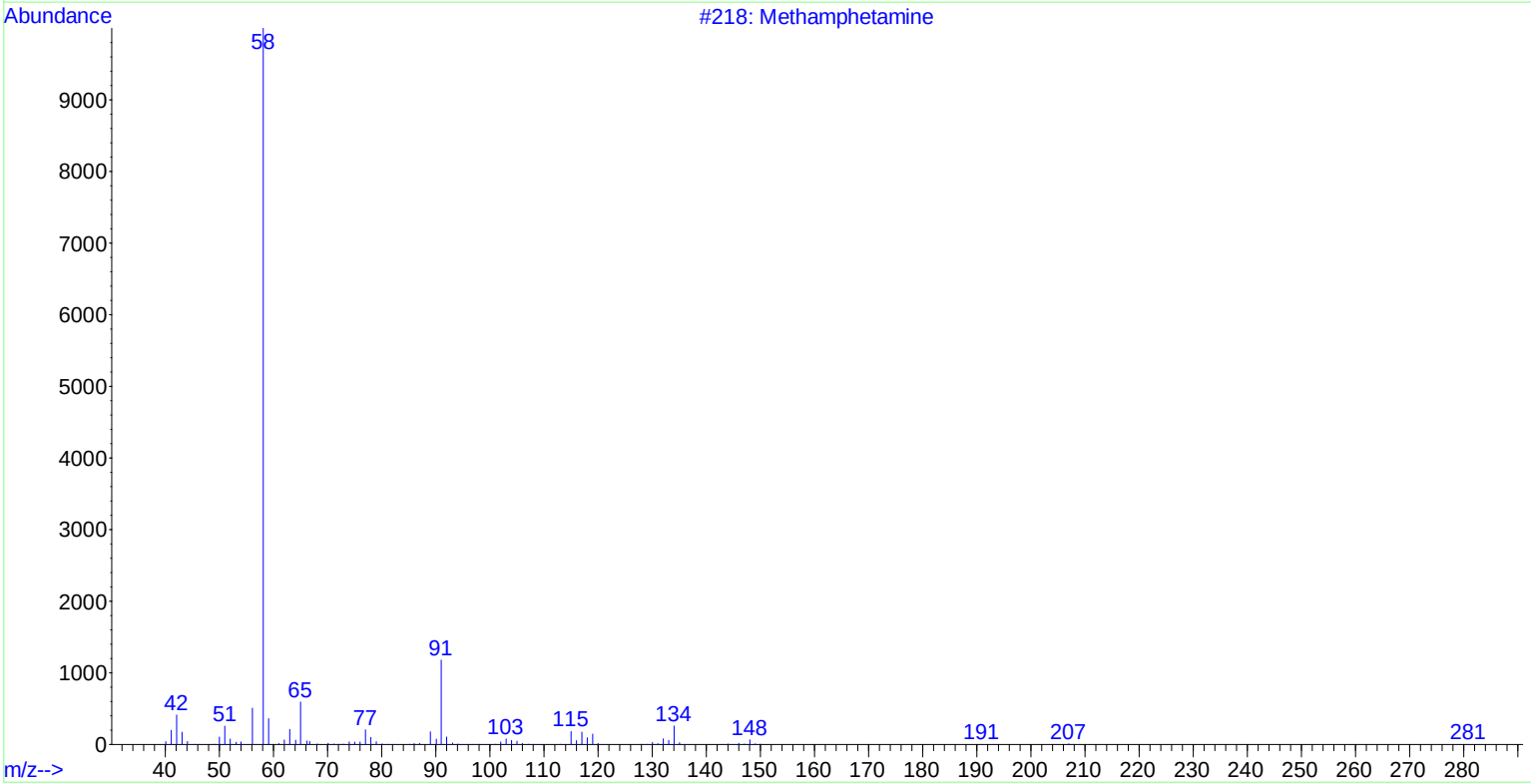
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	BCCL GenDrug	2.699	2.672	2.725
Cocaine	R-24-060	BCCL GenDrug	7.129	7.057	7.200
Heroin	R-24-060	BCCL GenDrug	83.785	82.947	84.622
Fentanyl	R-24-060	BCCL GenDrug	9.226	9.133	9.318
Alprazolam	R-24-060	BCCL GenDrug	10.854	10.745	10.962

File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\021725\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 17 Feb 2025 11:31 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN

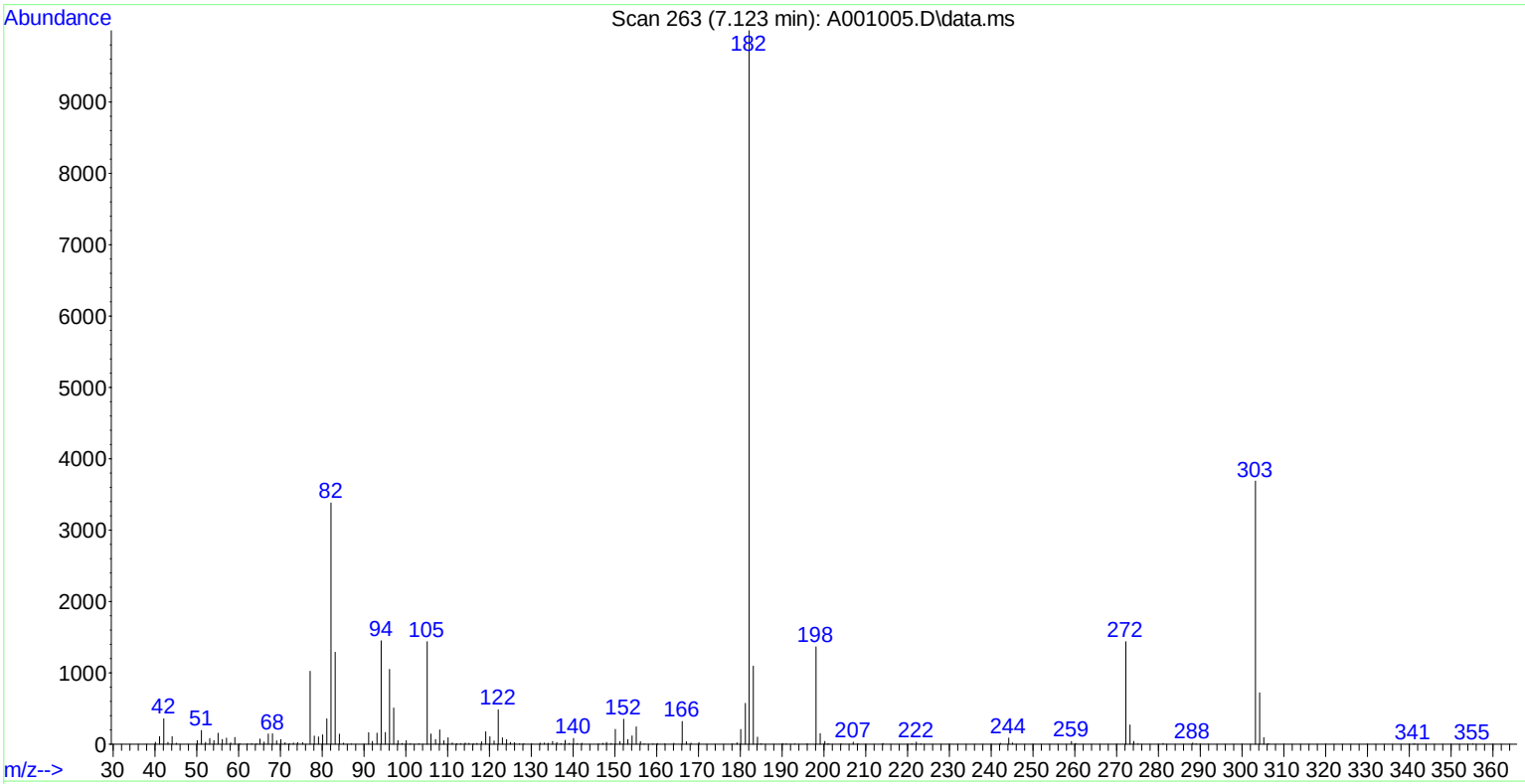


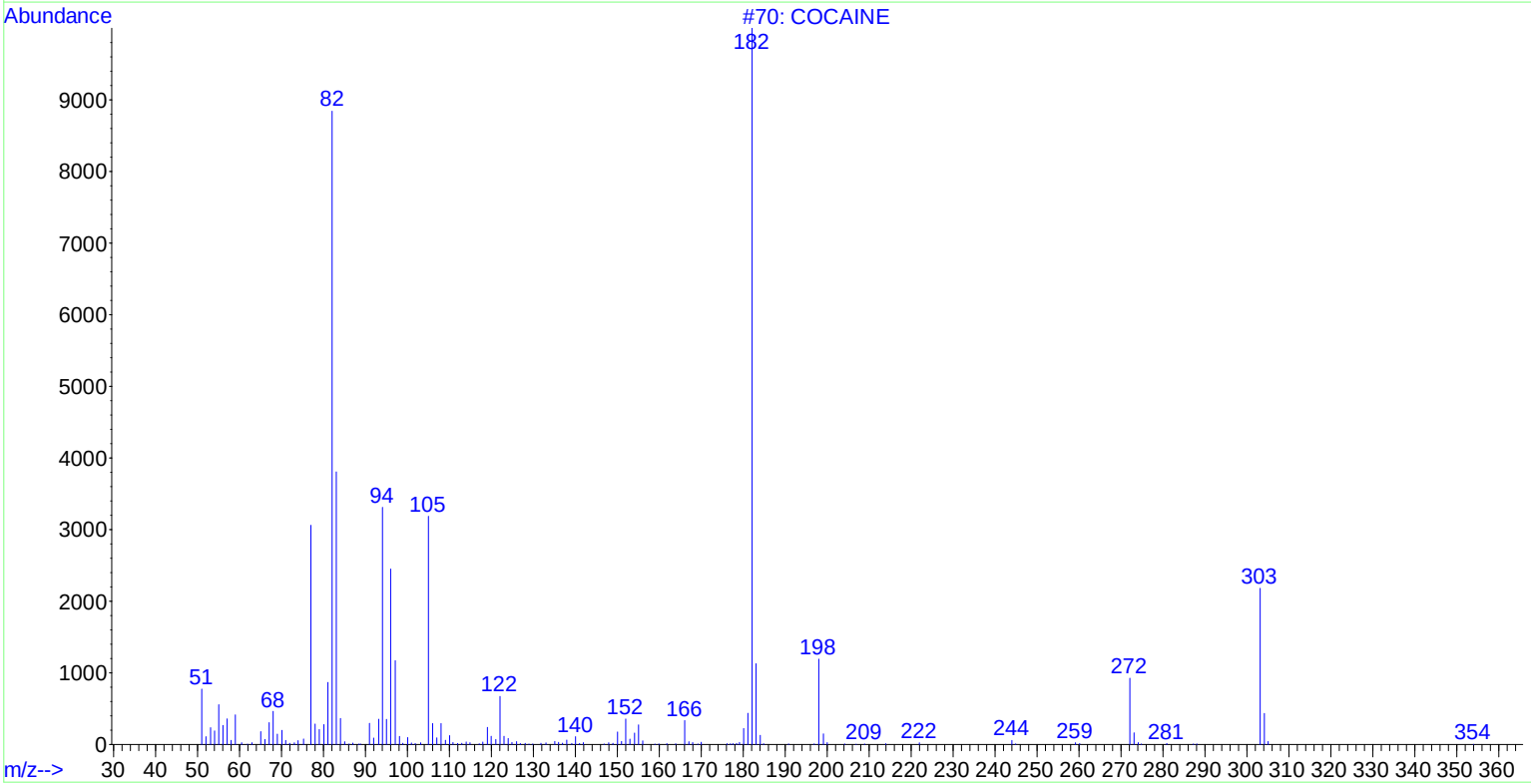
File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\021725\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 17 Feb 2025 11:31 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



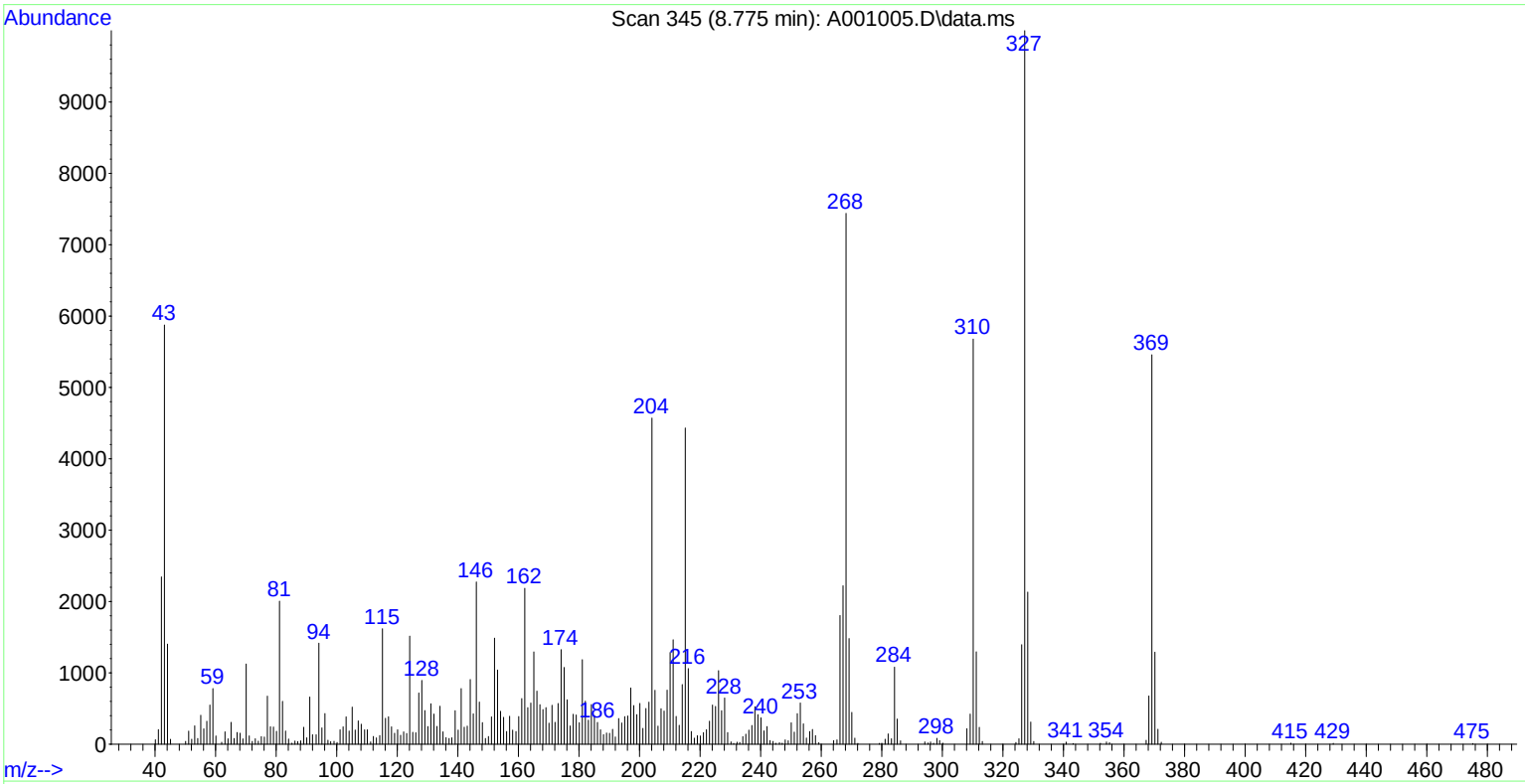


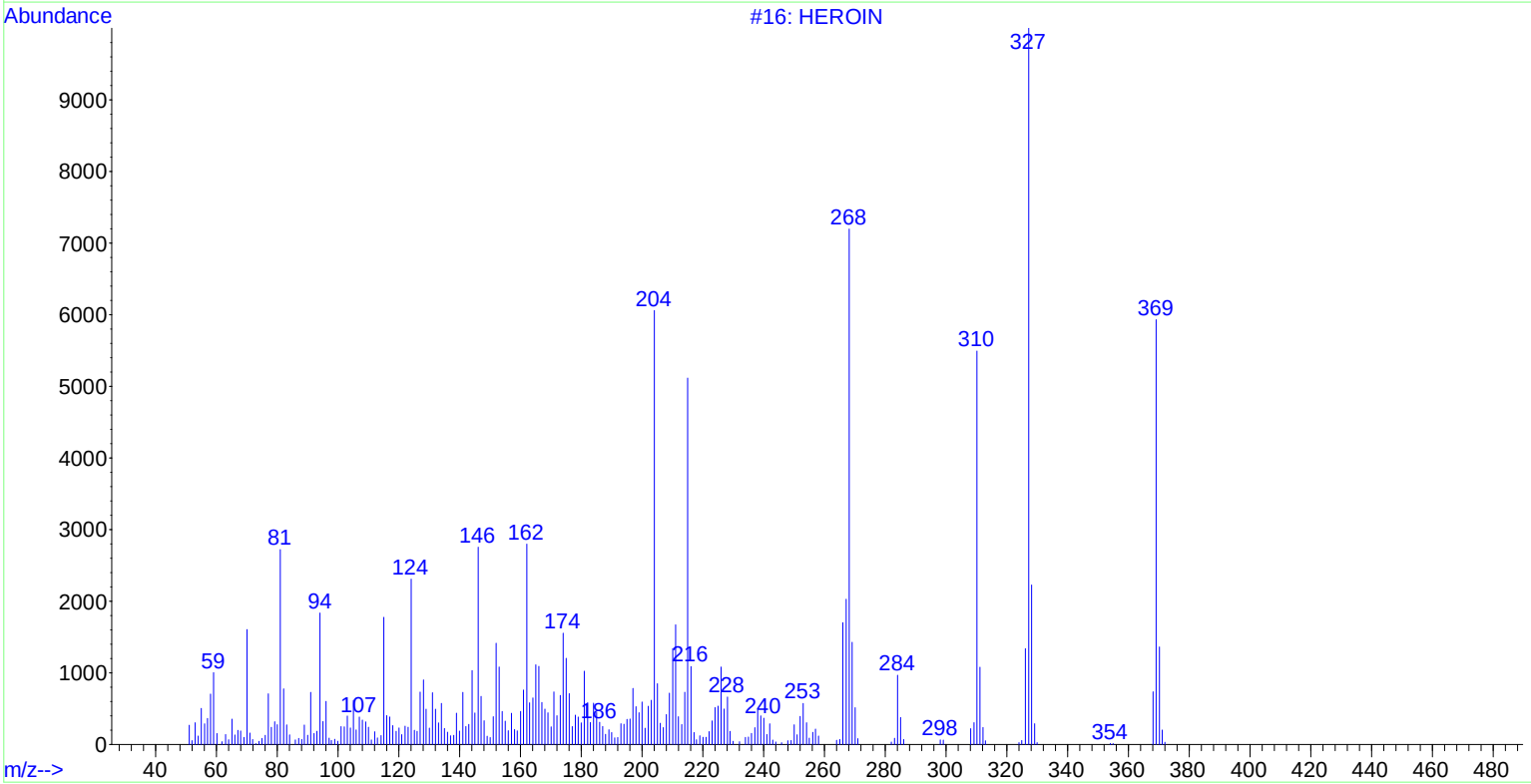
File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\021725\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 17 Feb 2025 11:31 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



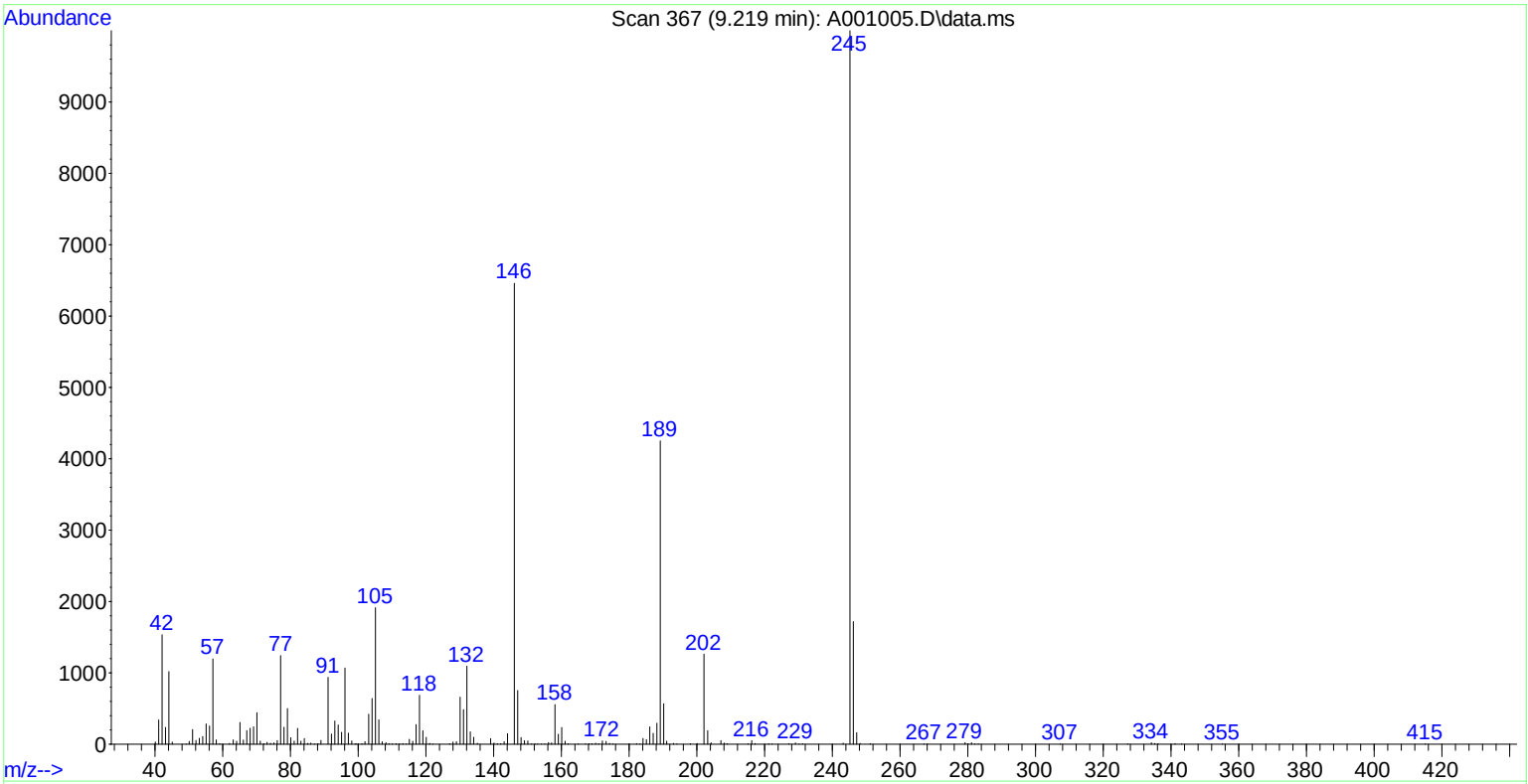


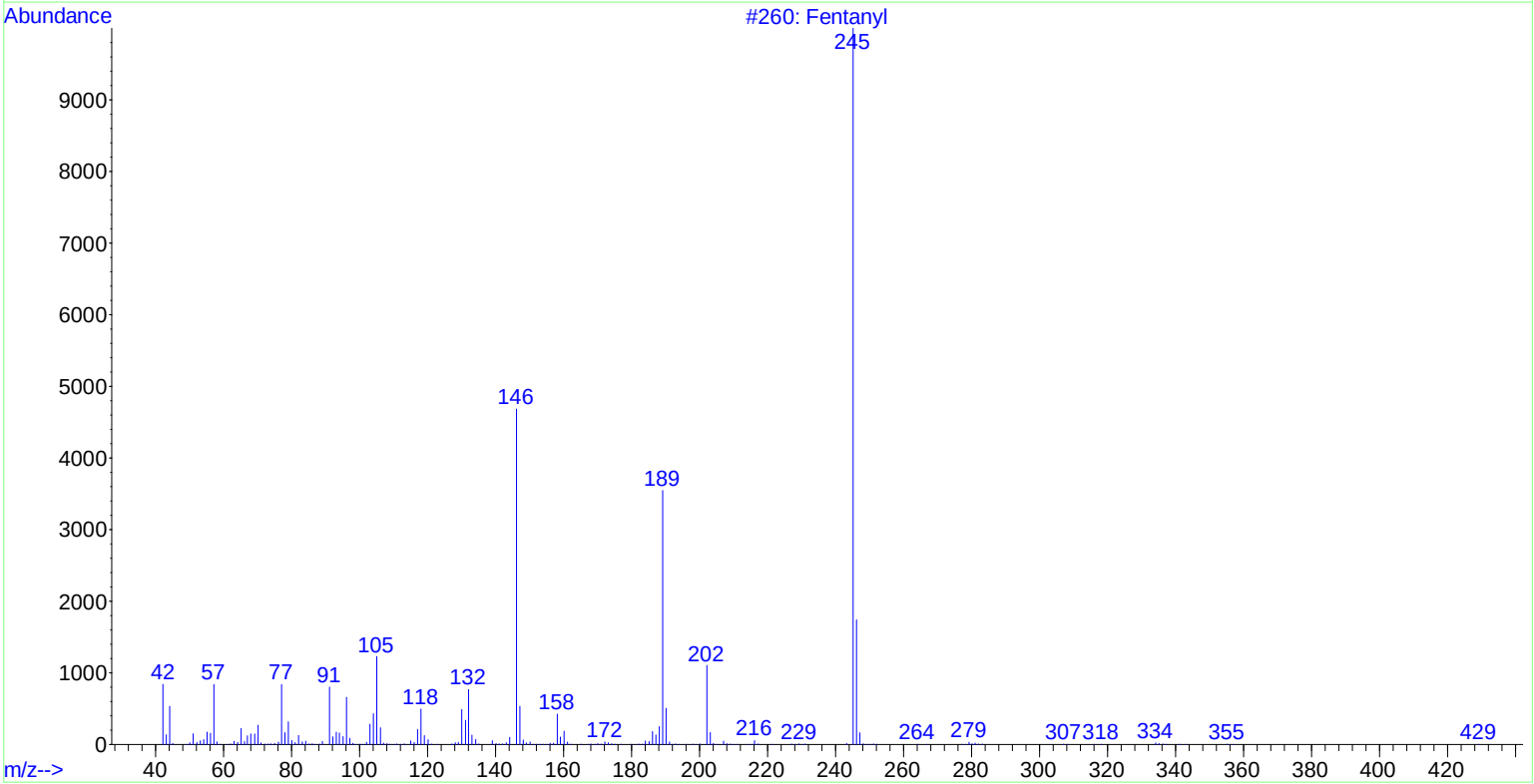
File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\021725\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 17 Feb 2025 11:31 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



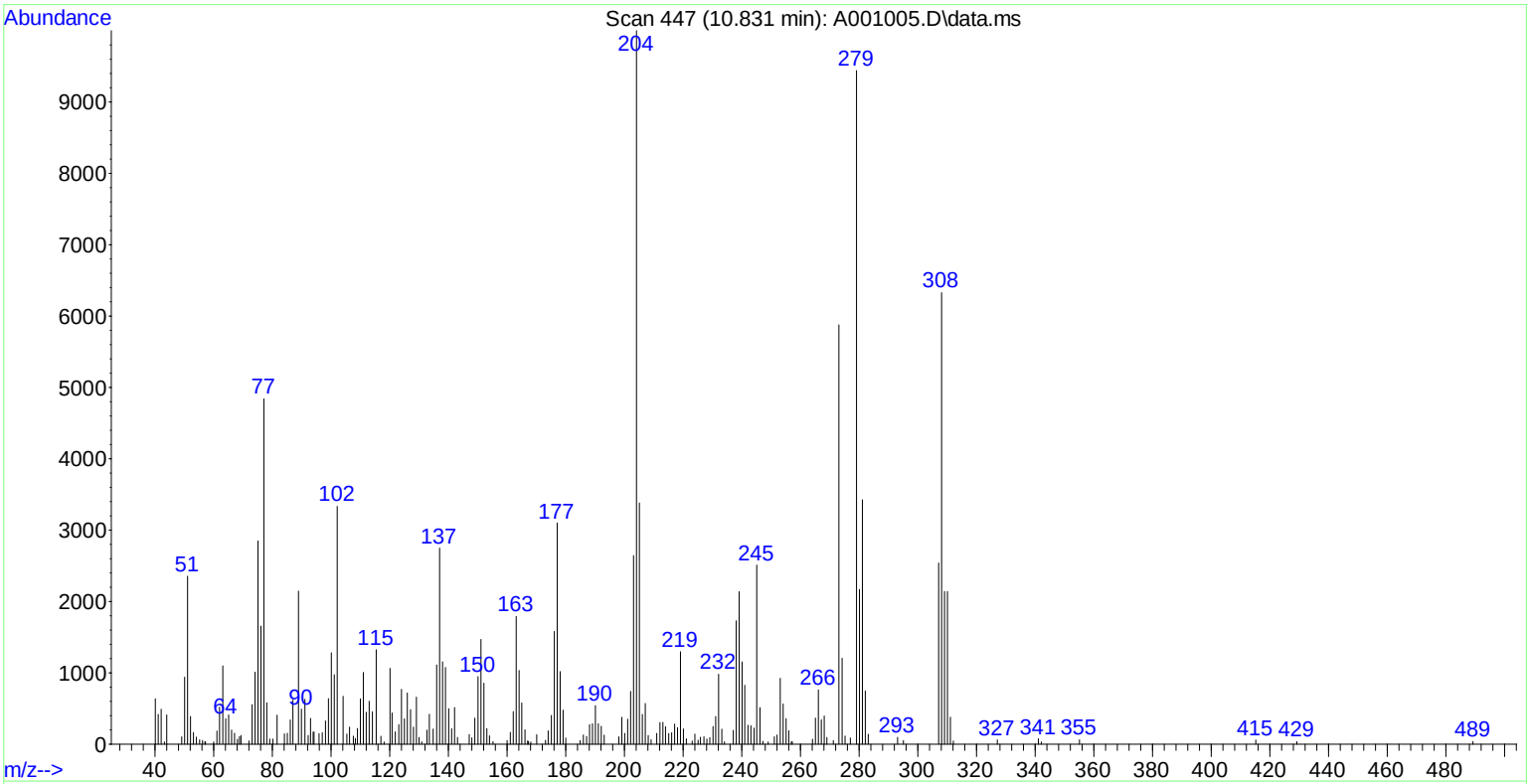


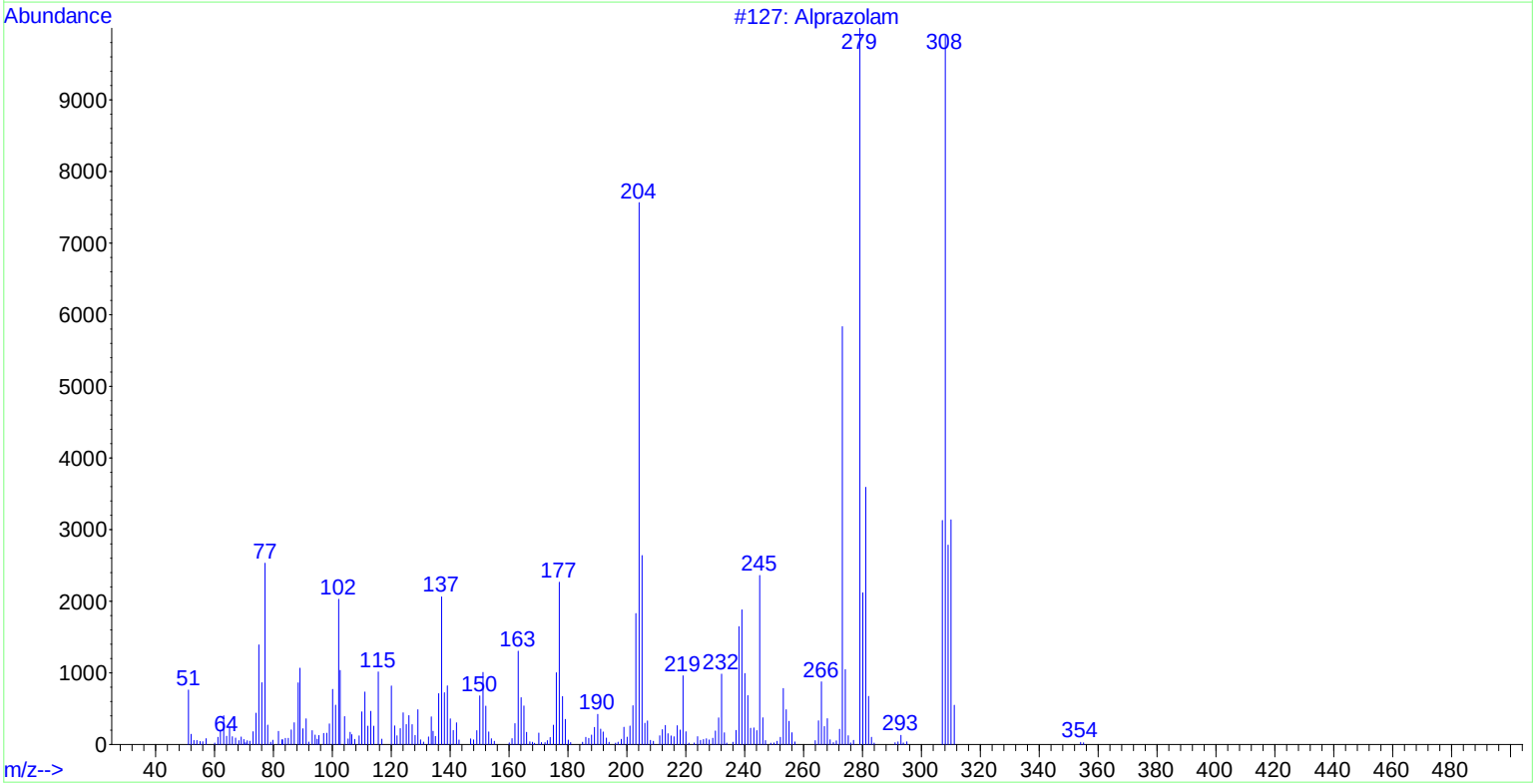
File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\021725\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 17 Feb 2025 11:31 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



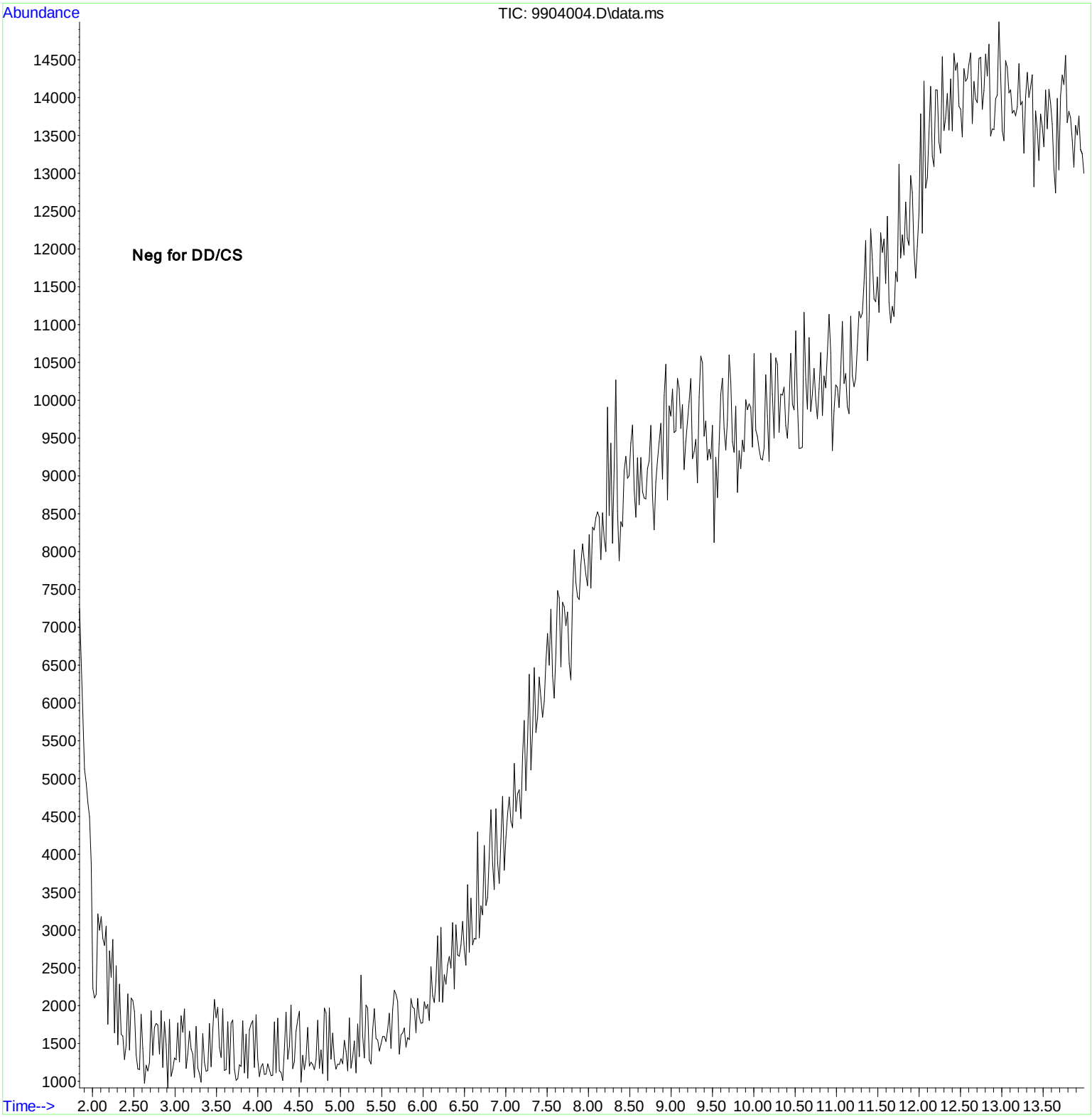


File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\021725\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 17 Feb 2025 11:31 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN

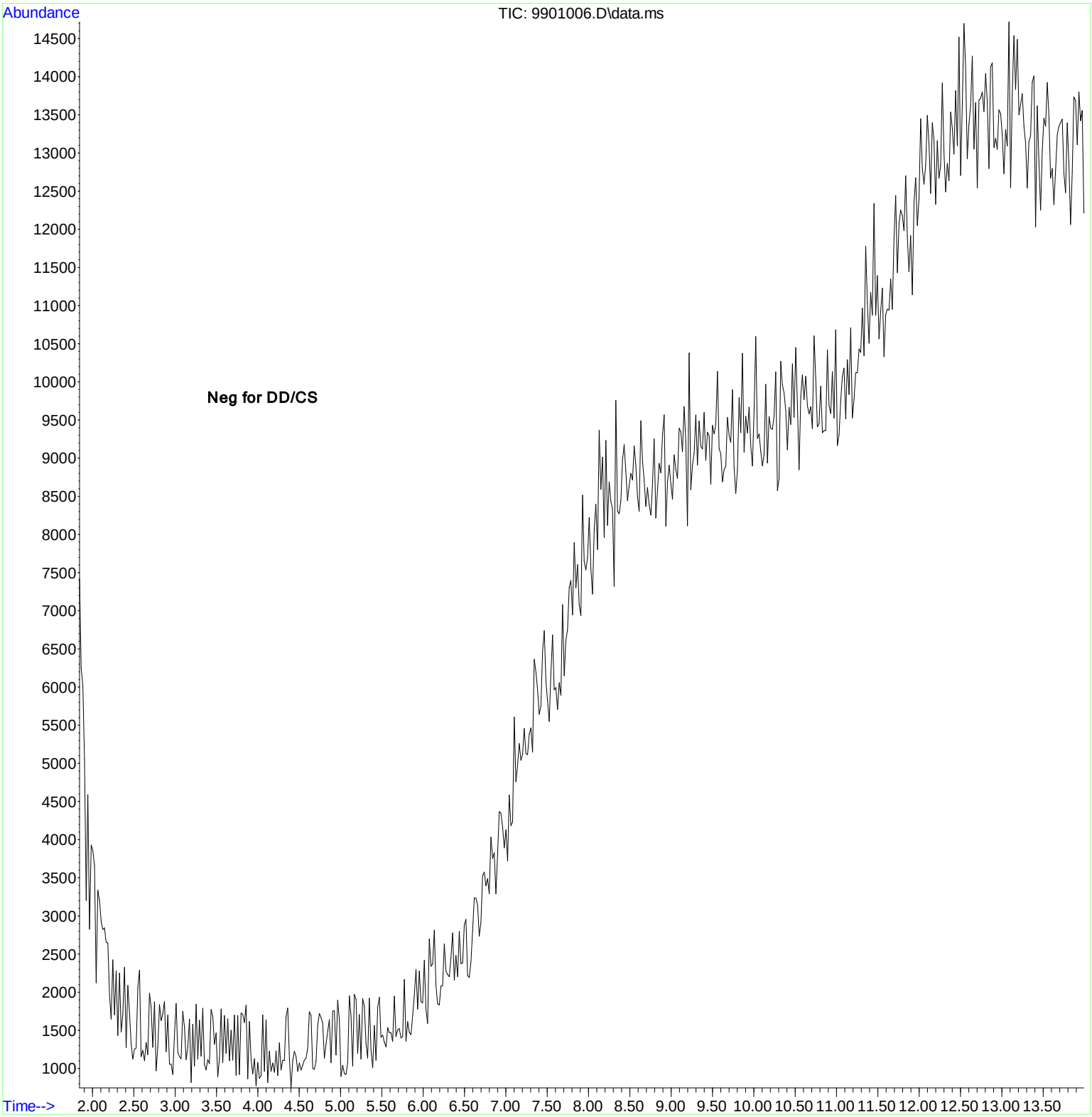




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... 2025\021725\9904004.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 17 Feb 2025 11:13 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK PRIOR TO CAYMAN GC/MS 000002664
Misc Info : ACN (C-19-0068)



File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\021725\9901006.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 17 Feb 2025 11:49 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK - INSTRUMENT READY 000002664
Misc Info : ACN (C-19-0068)

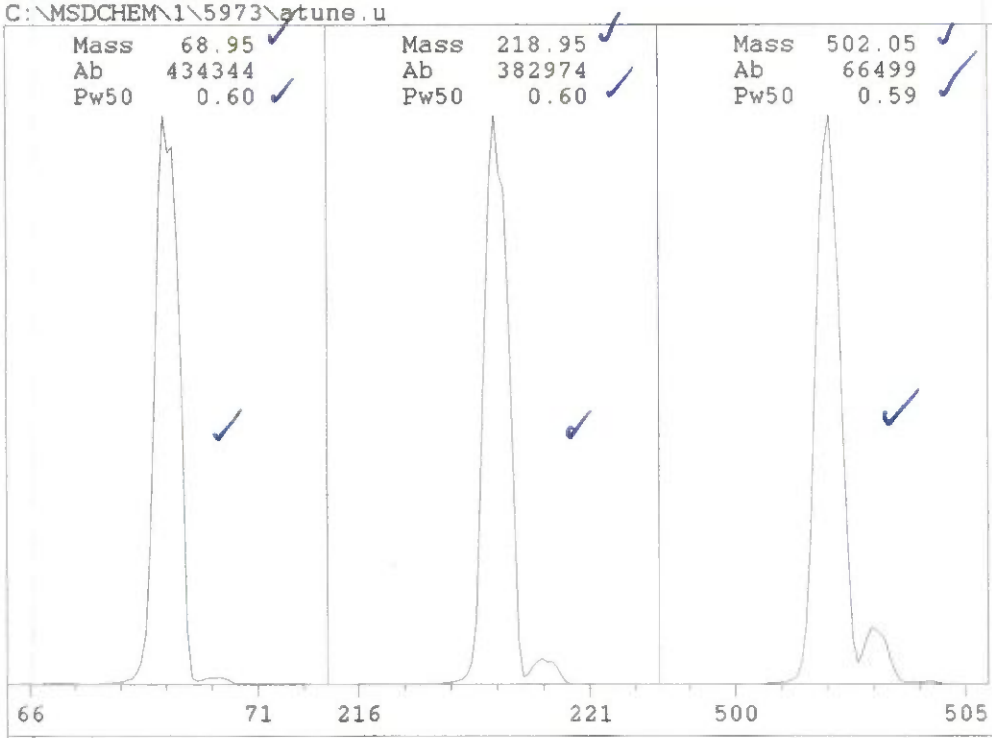


5973 Autotune

Mon Feb 24 09:57:07 2025 Instrument: SD GCMS 1

C:\MSDCHEM\1\5973\atune.u

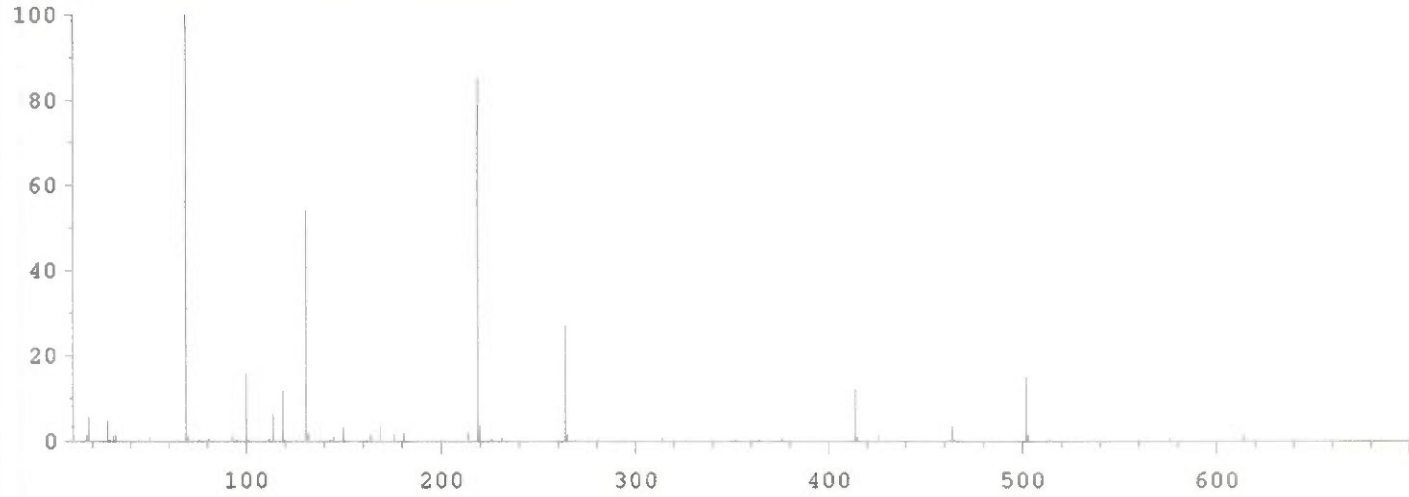
DS OK



Ion Pol	POS	MassGain	366
		MassOffs	-11
Emission	34.6	AmuGain	2442
EIEnrgy	69.9	AmuOffs	123
Filament	1	Wid219	-0.029
		DC Pol	POS
Repeller	31.97		
IonFcus	90.2	HEDEnab	ON
EntLens	14.5	EMVolts	1671
EntOffs	18.07		
		Samples	8
PFTBA	OPEN	Averages	3
		Stepsize	0.10
Zones:			
MS Source	230	TurboSpd	100
MS Quad	150		

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

155 peaks Base: 69.05 Abundance: 402176



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.05	402176	100.00	70.05	4932	1.23
218.95	343360	85.38	219.95	15065	4.39
502.05	61744	15.35	502.95	6217	10.07

Air/Water Check: H20~5.80% N2~4.77% O2~1.41% CO2~0.38% N2/H2O~82.22%

Column Flow: Front: 0.798 Back: 0 ml/min. Interface Temp: 280

Ramp Criteria:

Ion Focus Maximum 90 volts using ion 502; EM Gain 192239

Repeller Maximum 35 volts using ion 219;

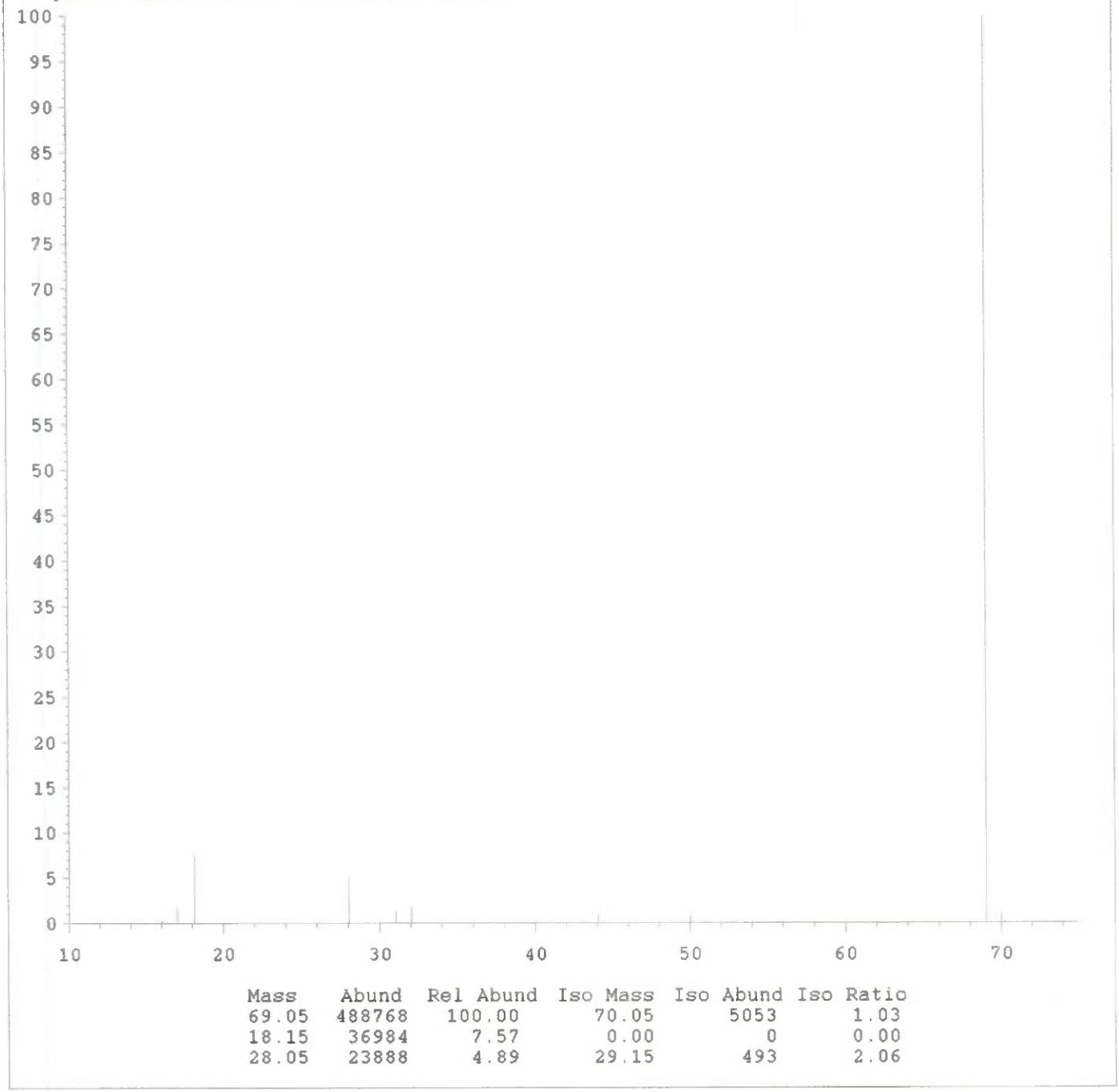
MassGain Values @Samples: 364@3 369@2 368@1 367@0 366@FS

TARGET MASS:	50	69	131	219	414	502	800
Amu Offset:	123.0	123.0	123.0	123.0	123.0	123.0	123.0
Entrance Lens Offset:	18.1	18.1	18.1	18.1	18.1	18.1	18.1

597x Air and Water Check

Instrument: SD GCMS 1
Mon Feb 24 09:48:31 2025 C:\MSDCHEM\1\5973\

Scan: 10.00 - 75.00 Samples: 8 Thresh: 0 Step: 0.10
68 peaks Base: 69.05 Abundance: 488768



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.05	488768	100.00	70.05	5053	1.03
18.15	36984	7.57	0.00	0	0.00
28.05	23888	4.89	29.15	493	2.06

Current Params used: atune.u

Relative abundances:

18/69 =	7.57	Water%
28/69 =	4.89	Nitrogen%
32/69 =	1.76	Oxygen%
44/69 =	0.94	Carbon Dioxide%
28/18 =	64.59	Nitrogen/Water%

System Verification - Tune (Detector Optimization) Portion

Instrument Name	: SD GCMS 1	
DC Polarity	: Positive	
Filament	: 1	
BasePeak should be 69 or 219		Ok
Position of mass 69	69.05	Ok
Position of mass 219	218.97	Ok
Position of mass 502	502.05	Ok
Position of isotope mass 70	70.04	Ok
Position of isotope mass 220	220.01	Ok
Position of isotope mass 503	503.05	Ok
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.09	Ok
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.37	Ok
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.39	Ok
Ratio of 219 to 69 should be > 40% and is	85.11	Ok
Ratio of 502 to 69 should be > 2.4% and is	13.97	Ok
Mass 69 Precursor (<= 3%)	0.26	Ok
Mass 219 Precursor (<= 6%)	0.48	Ok
Mass 502 Precursor (<= 12%)	0.59	Ok
Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	2.96	Ok
Ratio of 28 to 69 (<10%)	4.52	Ok
Electron Multiplier Voltage	1671	Ok

Tune portion of System Verification passed.

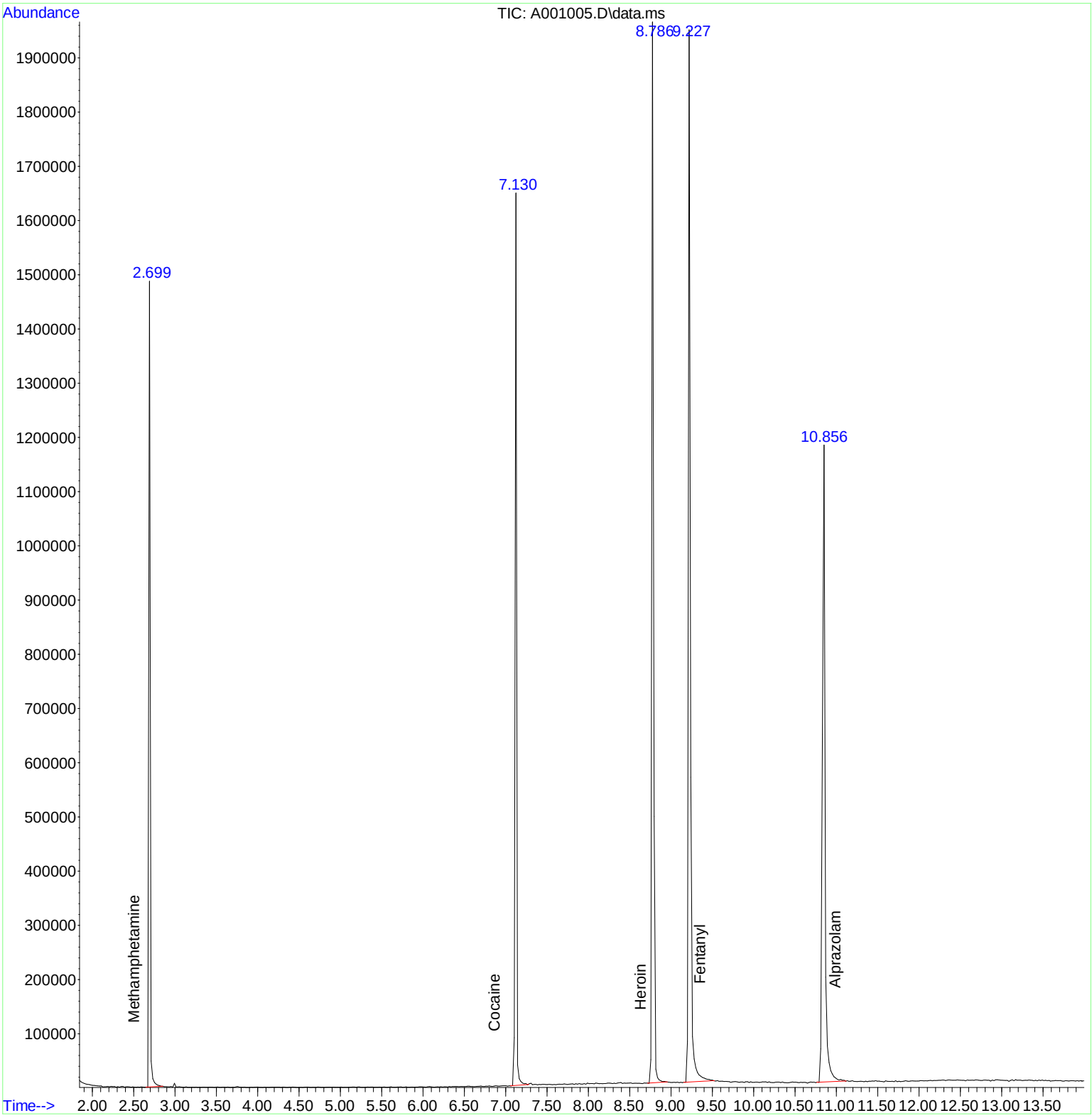
BCCL GC/MS #1
Retention Times for the Week of:

02/24/2025 - 03/02/2025

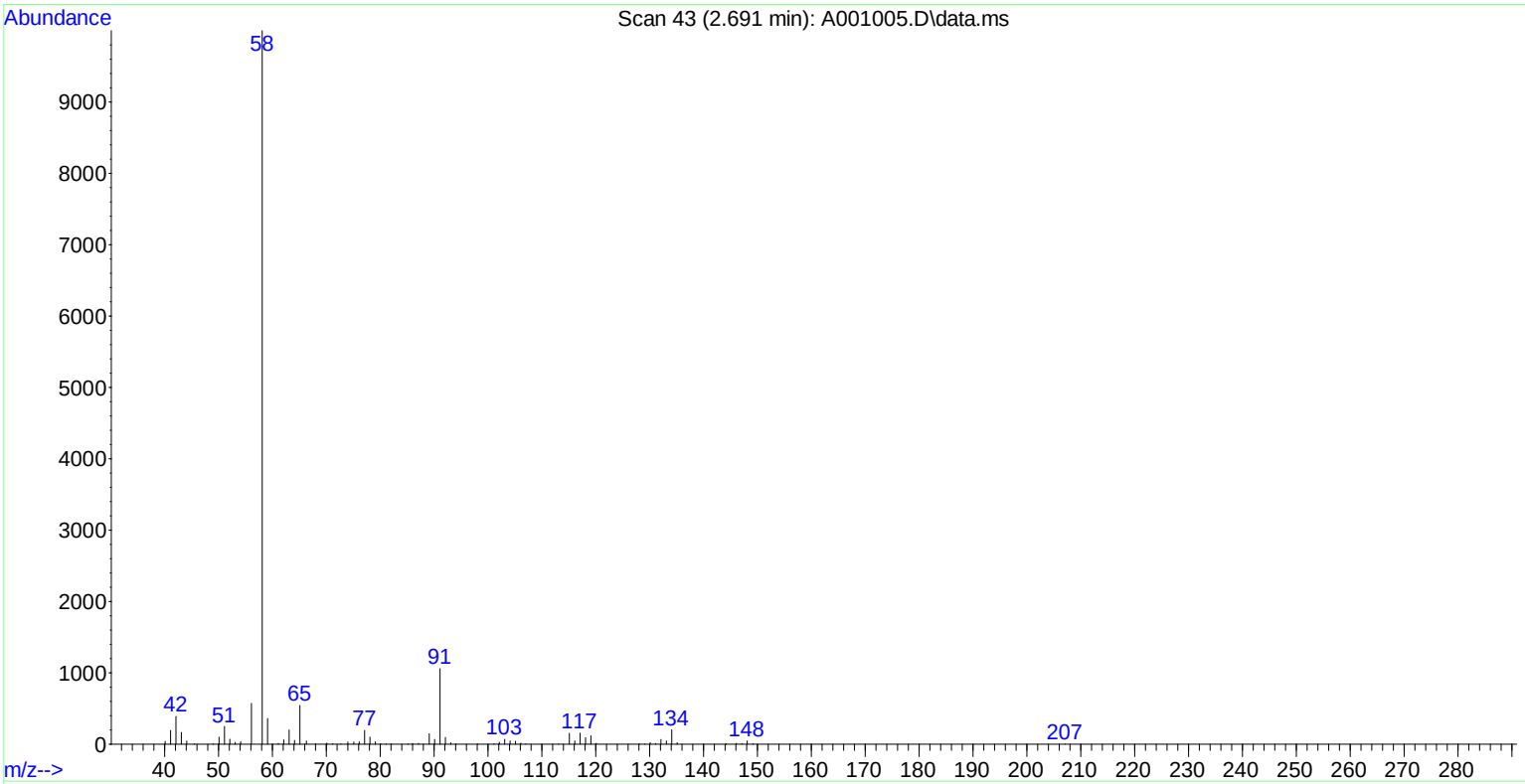
[x] **Tune: 02/24/2025 - Autotune DN/DS**

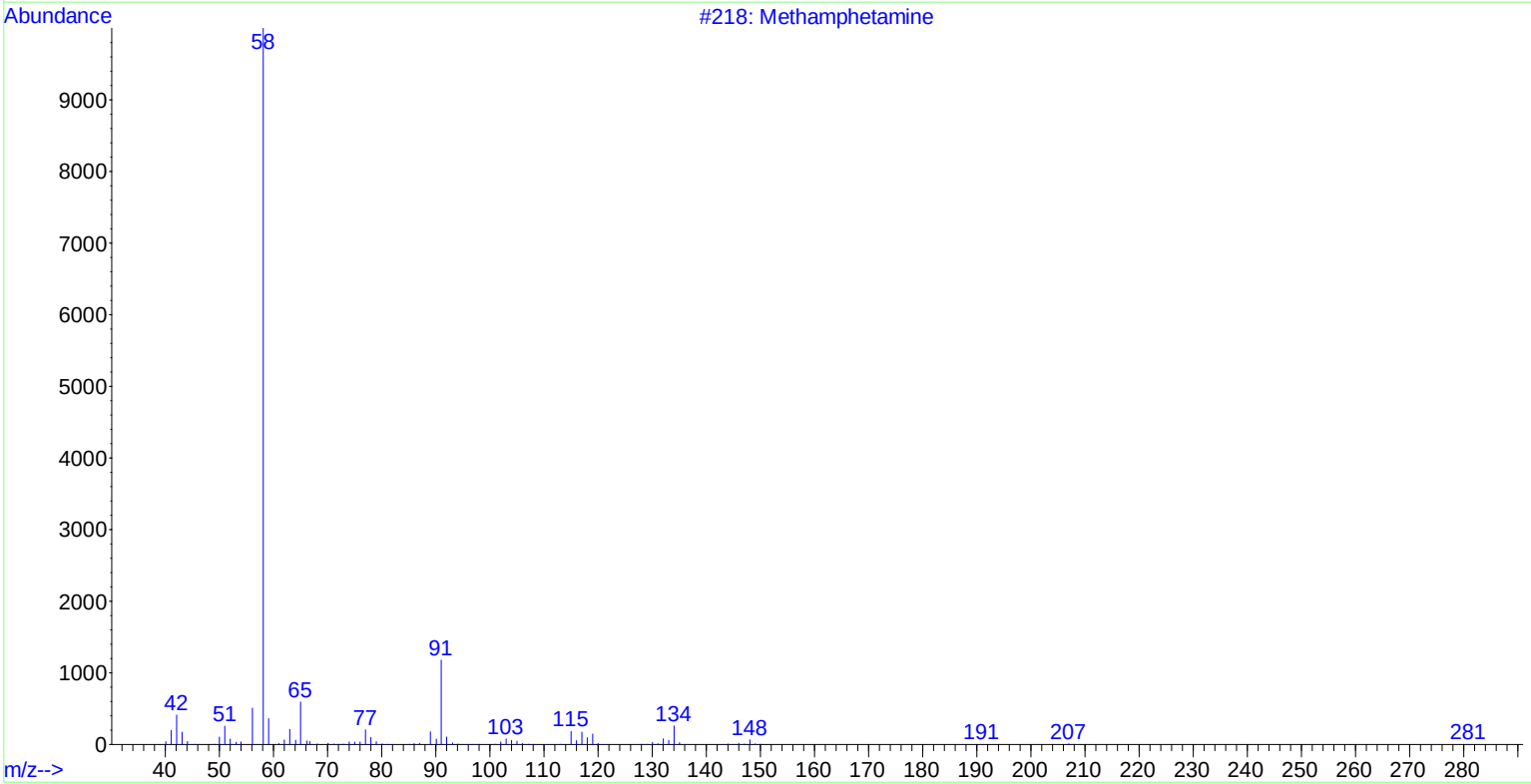
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	BCCL GenDrug	2.699	2.672	2.725
Cocaine	R-24-060	BCCL GenDrug	7.130	7.058	7.201
Heroin	R-24-060	BCCL GenDrug	8.786	8.698	8.873
Fentanyl	R-24-060	BCCL GenDrug	9.227	9.134	9.319
Alprazolam	R-24-060	BCCL GenDrug	10.856	10.747	10.964

File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\022425\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 24 Feb 2025 12:04 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN

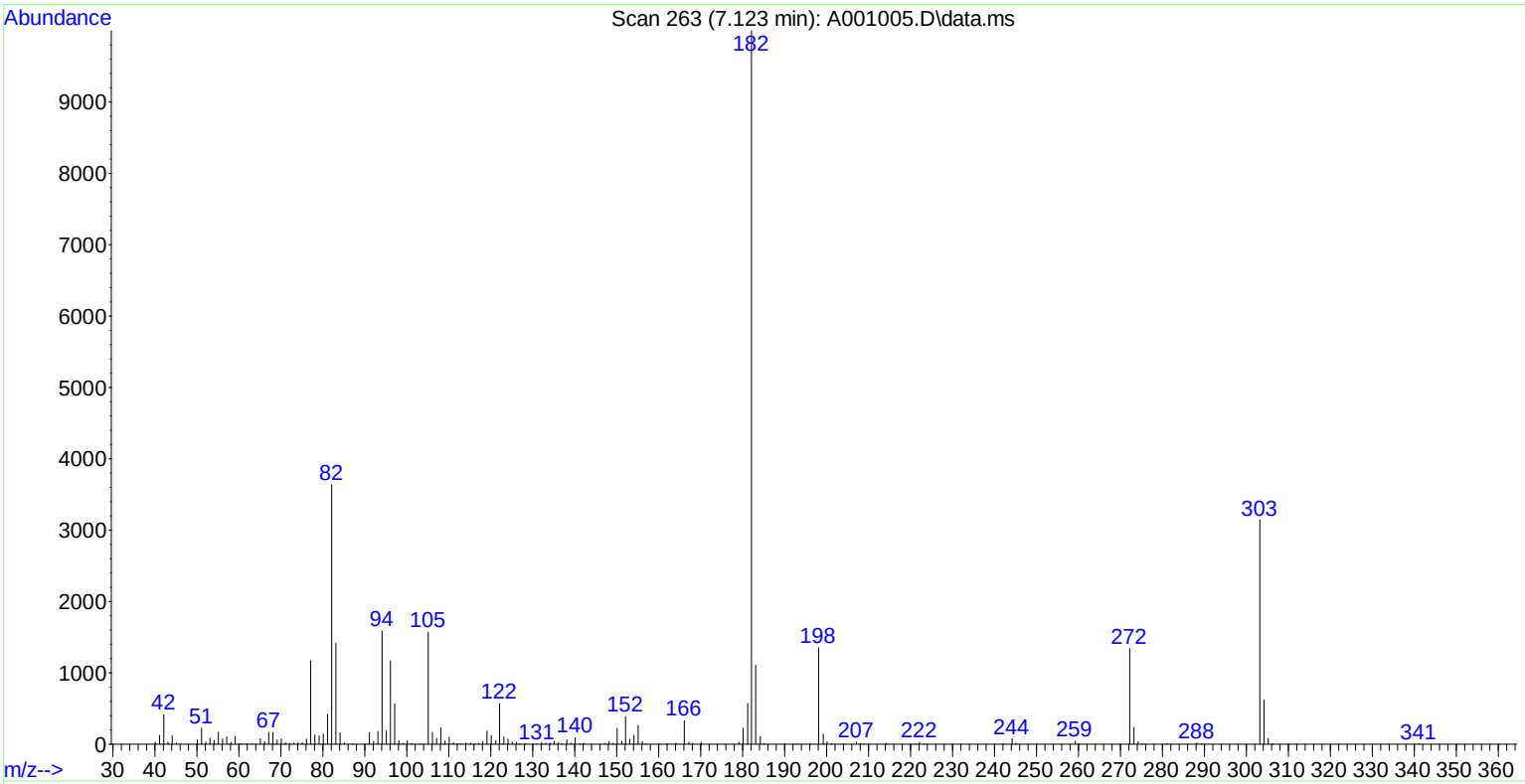


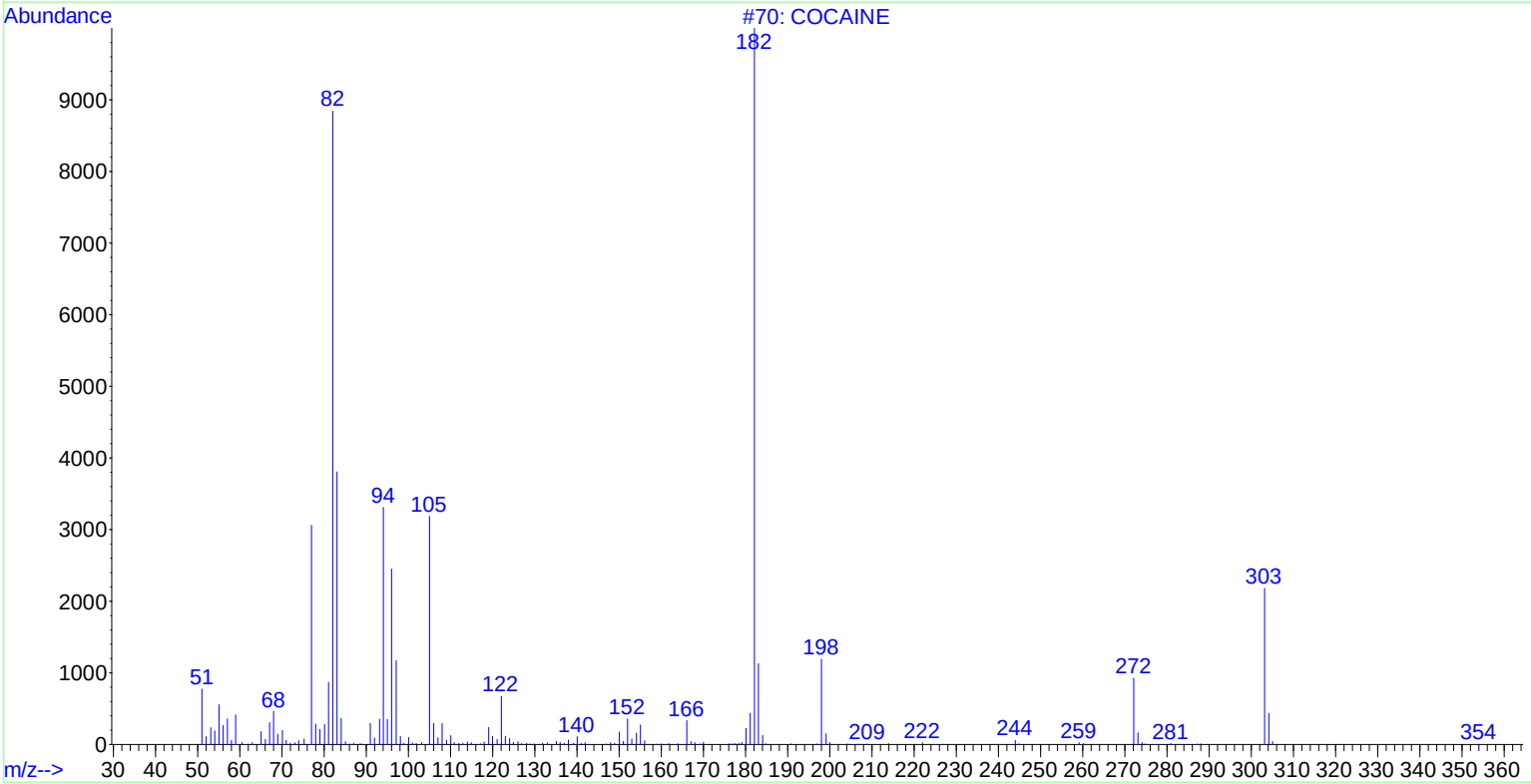
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 24 Feb 2025 12:04 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



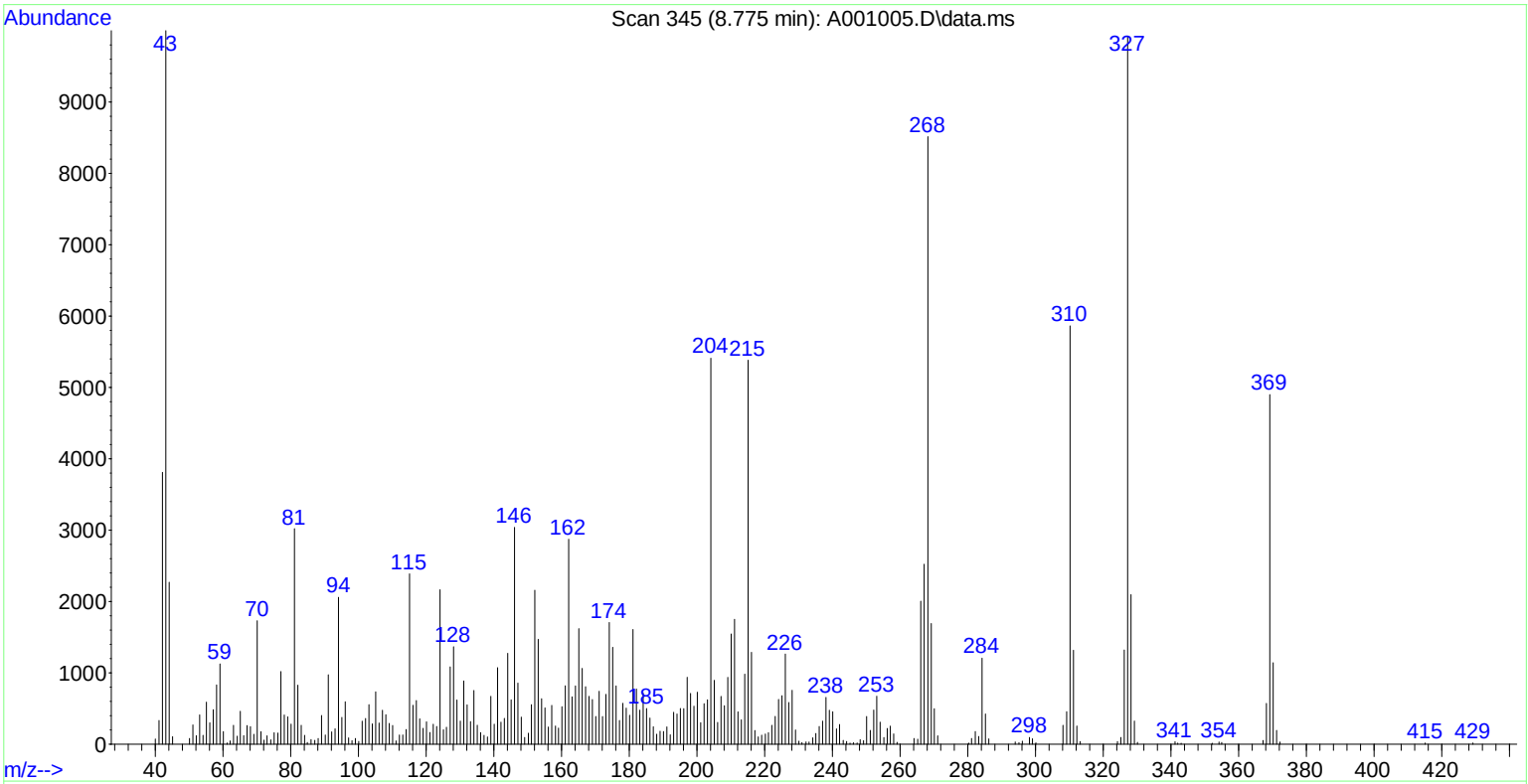


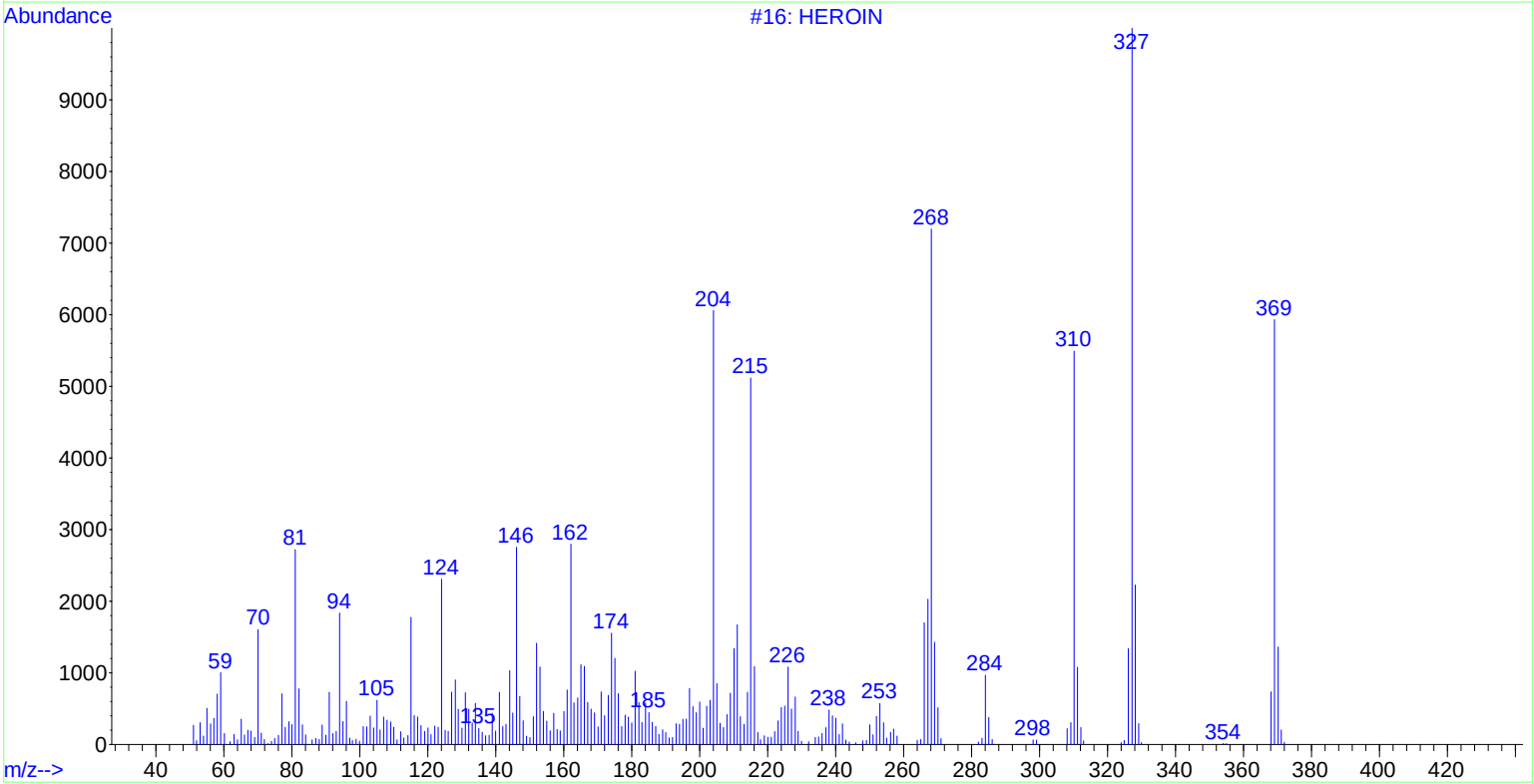
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 24 Feb 2025 12:04 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



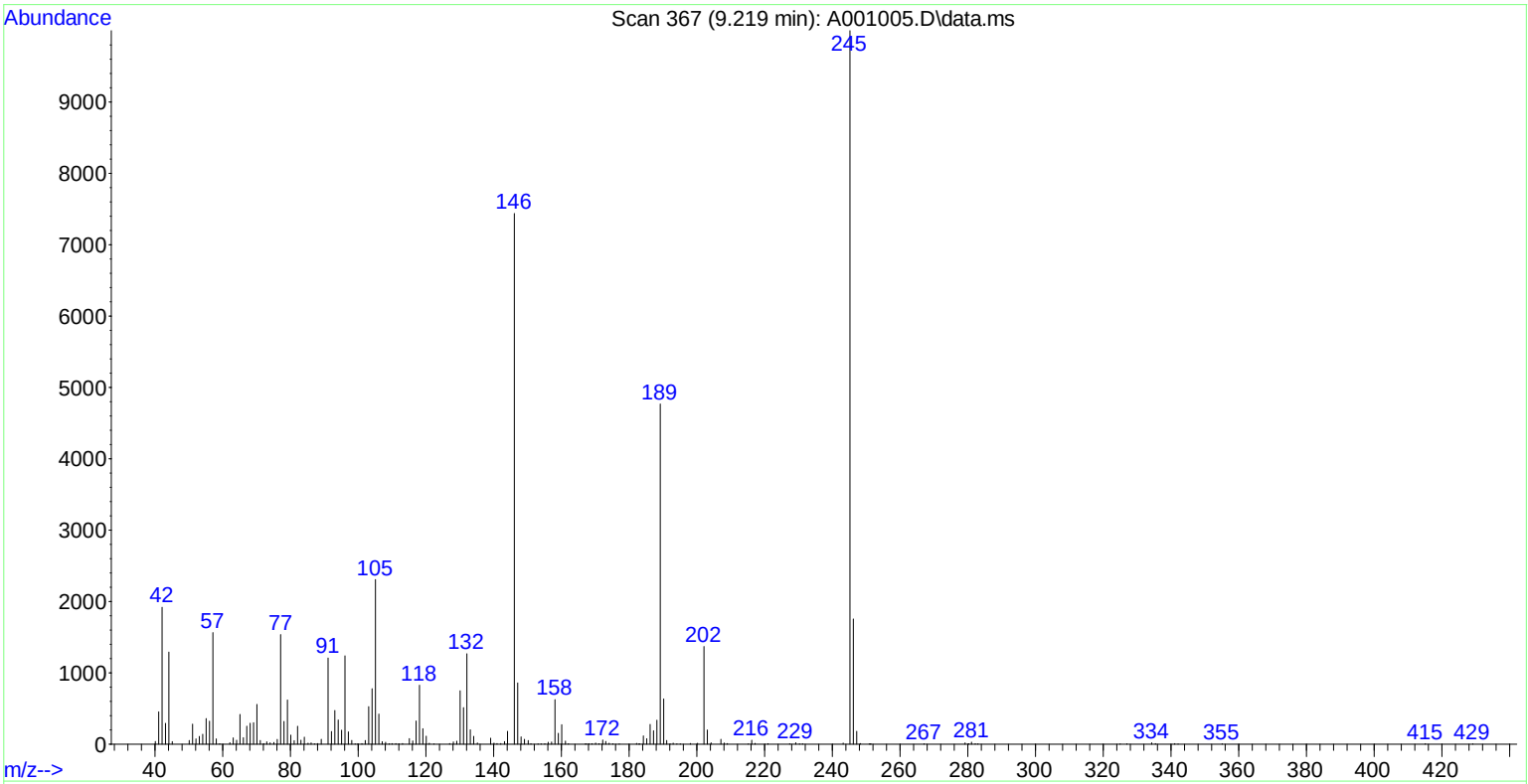


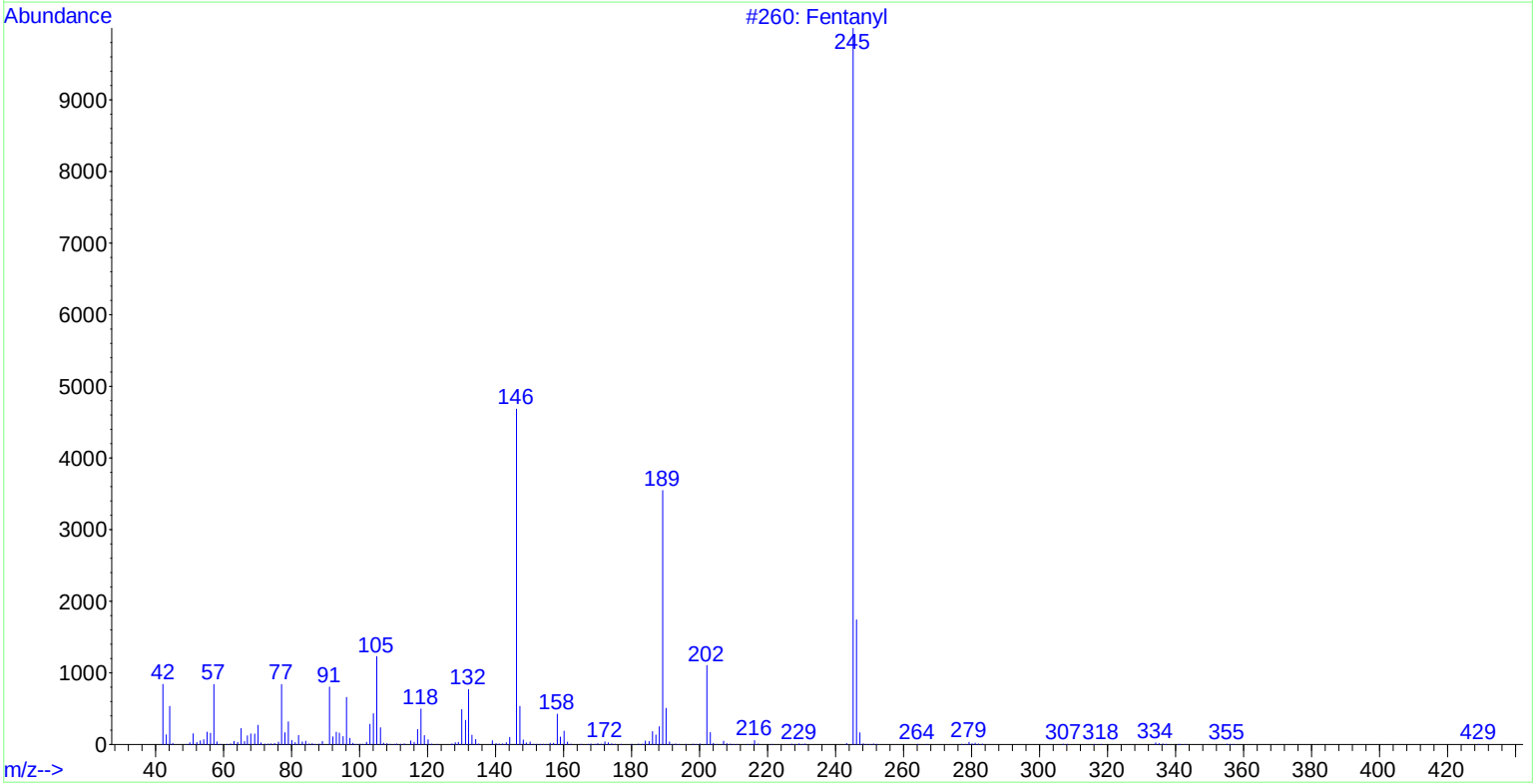
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 24 Feb 2025 12:04 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



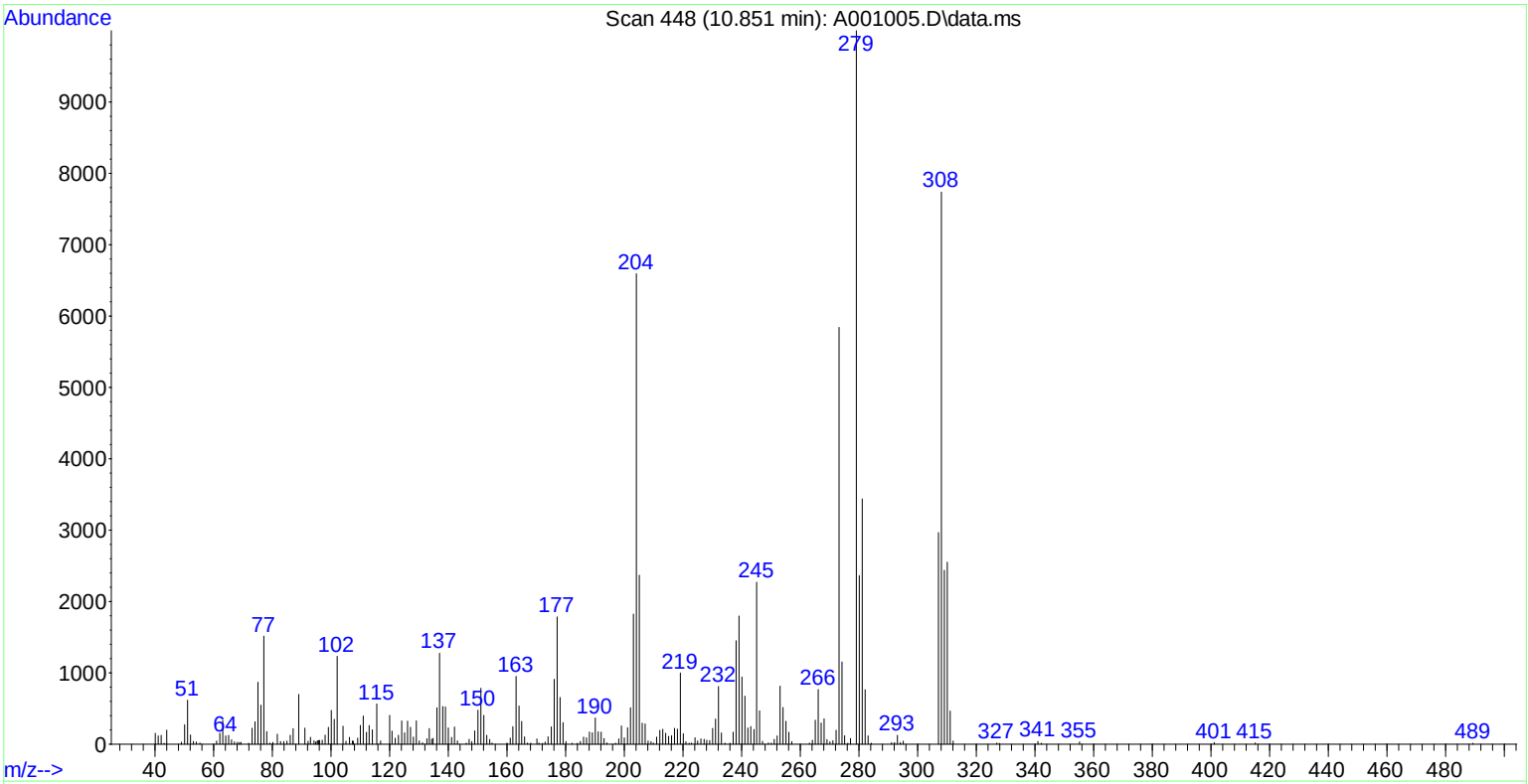


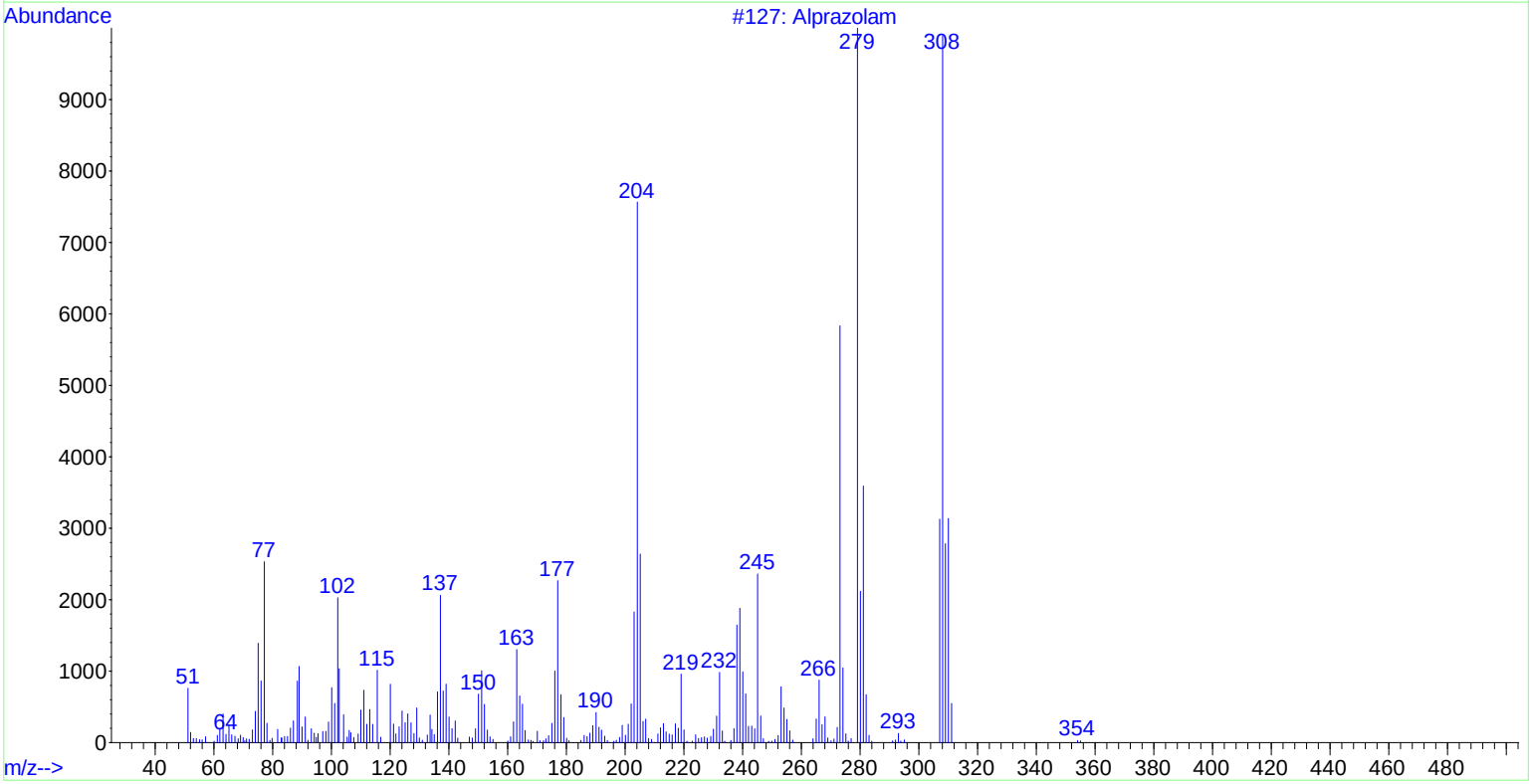
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 24 Feb 2025 12:04 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



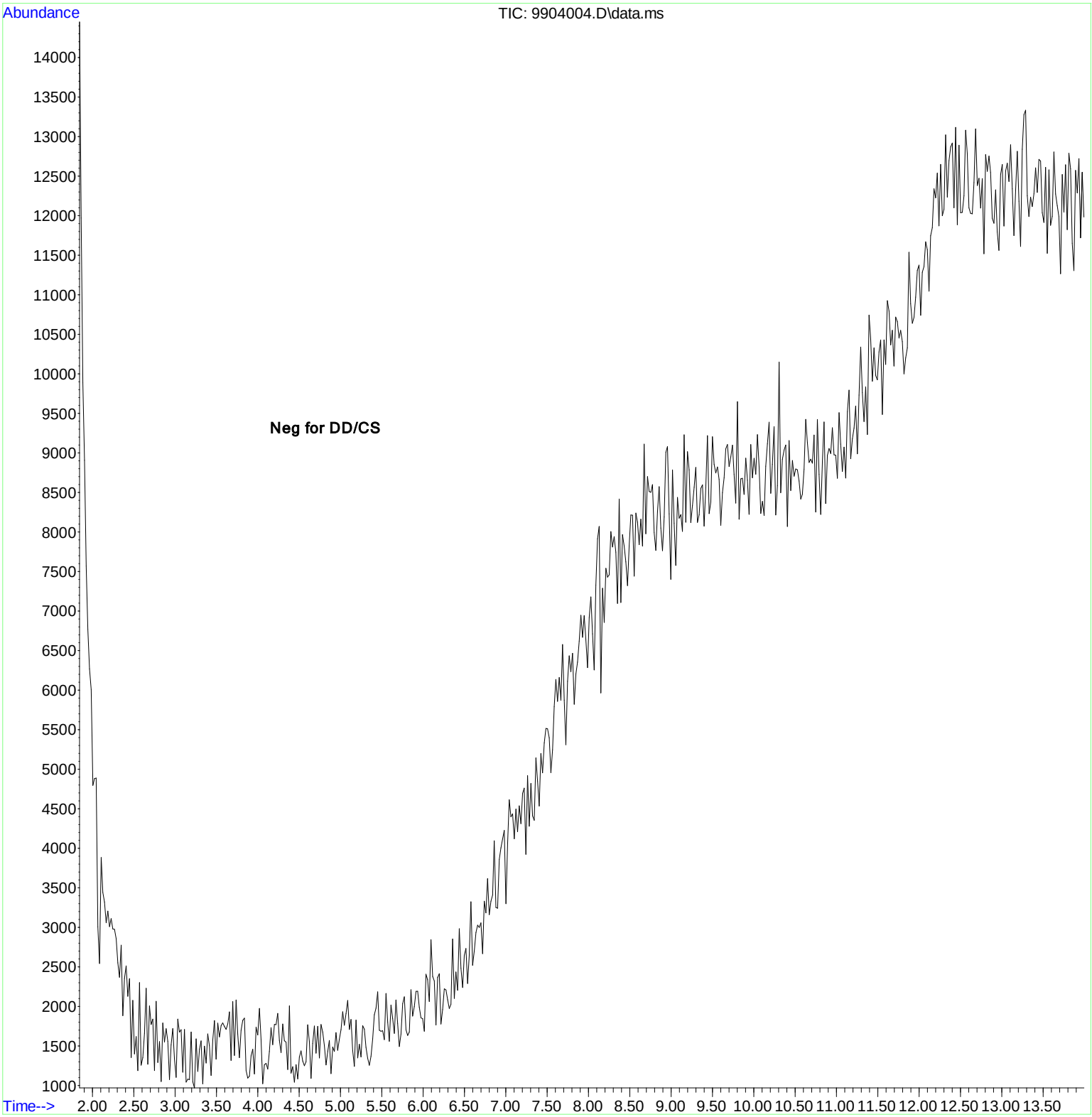


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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 24 Feb 2025 12:04 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN





File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\022425\9904004.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 24 Feb 2025 11:47 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK PRIOR TO CAYMAN GC/MS 000002664
Misc Info : ACN (C-19-0068)



File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\022425\9901006.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 24 Feb 2025 12:22 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK - INSTRUMENT READY 000002664
Misc Info : ACN (C-19-0068)

