Instrument / Equipment Monitoring and Maintenance

Manufacturer Agilent
Model 6890 / 5973
S/N US00031579
Other US94230683

Date	Maintenance	Analyst
04/14/2024	helium tank change / syringe change	JB
04/29/2024	Liner and septum change	DS
05/03/24	PM servicing by Agilent Technologies	DS
	Reference Agilent PM check list dated	
	05/03/2024 and Performance Checklist	
	dated 05/07/2024 for further details	
	also helium tank change	
05/23/24	helium tank change	DS
05/28/2024	Liner and septum change	DS
06/24/2024	Liner and septum change	DS
07/02/2024	Liner, septum and helium tank change	DS
07/29/2024	helium tank change, Liner and septum	DS
08/19/2024	helium tank change	DS
08/20/24	LINER & SEPTUM CHANGE	DN/DS
09/03/24	helium tank change	DS
09/25/24	helium tank, liner/septum change	DS
10/23/24	hellium tank, Liner/Septum change	DN/DS
11/15/24	nellium tank change	DN/DS
11/25/24	LINER AND Septum change	DN/DS
12/02/24	helium tank change	DS
12/18/24	helium tank change	DS
12/30/24	Liner and septum change	DS
01/06/25	helium tank change	DS
01/14/25	switch to filament 1 due to filament 2 burnout	DS
01/20/25	helium tank change	DS

Brazoria County Sheriff's Office Crime Laboratory
GC/MS Tune Log

GC/MS TUNE LOG

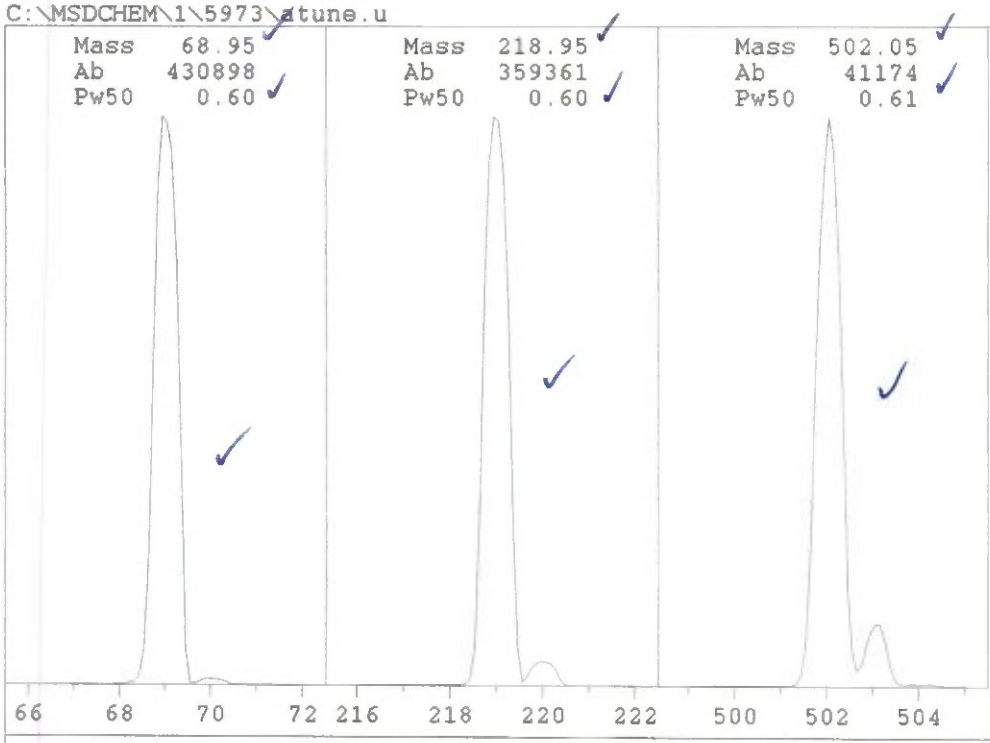
MSD 5973

Date	Passed (Y/N)	S-tune/ A-tune	Comments	Analyst
12/02/2024	Y	A-tune	helium tank change	DS
12/09/2024	Y	A-Tune		DS
12/16/2024	Y	A-Tune		DS
12/18/2024	Y	A TUNE	helium tank change	DN / DS
12/23/2024	Y	A-Tune		KB
12/30/2024	Y	A-Tune		DS
01/06/2025	Y	A-Tune	helium tank change	DS
01/13/2025	Y	A-Tune		DS
01/14/2025	Y	A-Tune	Switch to filament 1 due to filament 2 burnout	DS
01/24/2025	Y	A-Tune	helium tank change - 01/28/2025	DS
01/27/2025	Y	A-Tune		DS

5973 Autotune

Mon Jan 06 09:19:35 2025 Instrument: SD GCMS 1

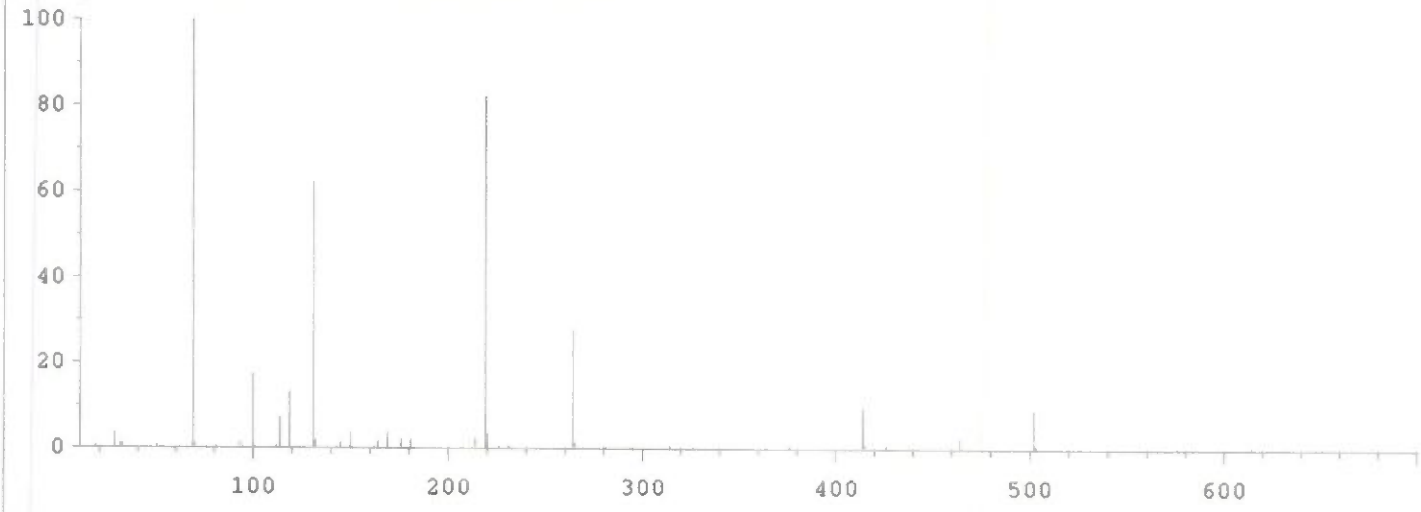
C:\MSDCHEM\1\5973\atune.u



Ion Pol	POS	MassGain	367
		MassOffs	-11
Emission	34.6	AmuGain	2437
EIEnrgy	69.9	AmuOffs	121
Filament	2	Wid219	-0.048
		DC Pol	POS
Repeller	20.57		
IonFcus	63.6	HEDEnab	ON
EntLens	9.5	EMVolts	1671
EntOffs	14.31		
		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

151 peaks Base: 69.05 Abundance: 403840



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.05	403840	100.00	70.05	4312	1.07
219.05	331968	82.20	220.05	14365	4.33
502.05	36568	9.06	503.05	3737	10.22

Air/Water Check: H2O~0.73% N2~3.66% O2~1.13% CO2~0.07% N2/H2O~501.25%

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

Ramp Criteria:

Ion Focus Maximum 90 volts using ion 502; EM Gain 211935

Repeller Maximum 35 volts using ion 219;

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

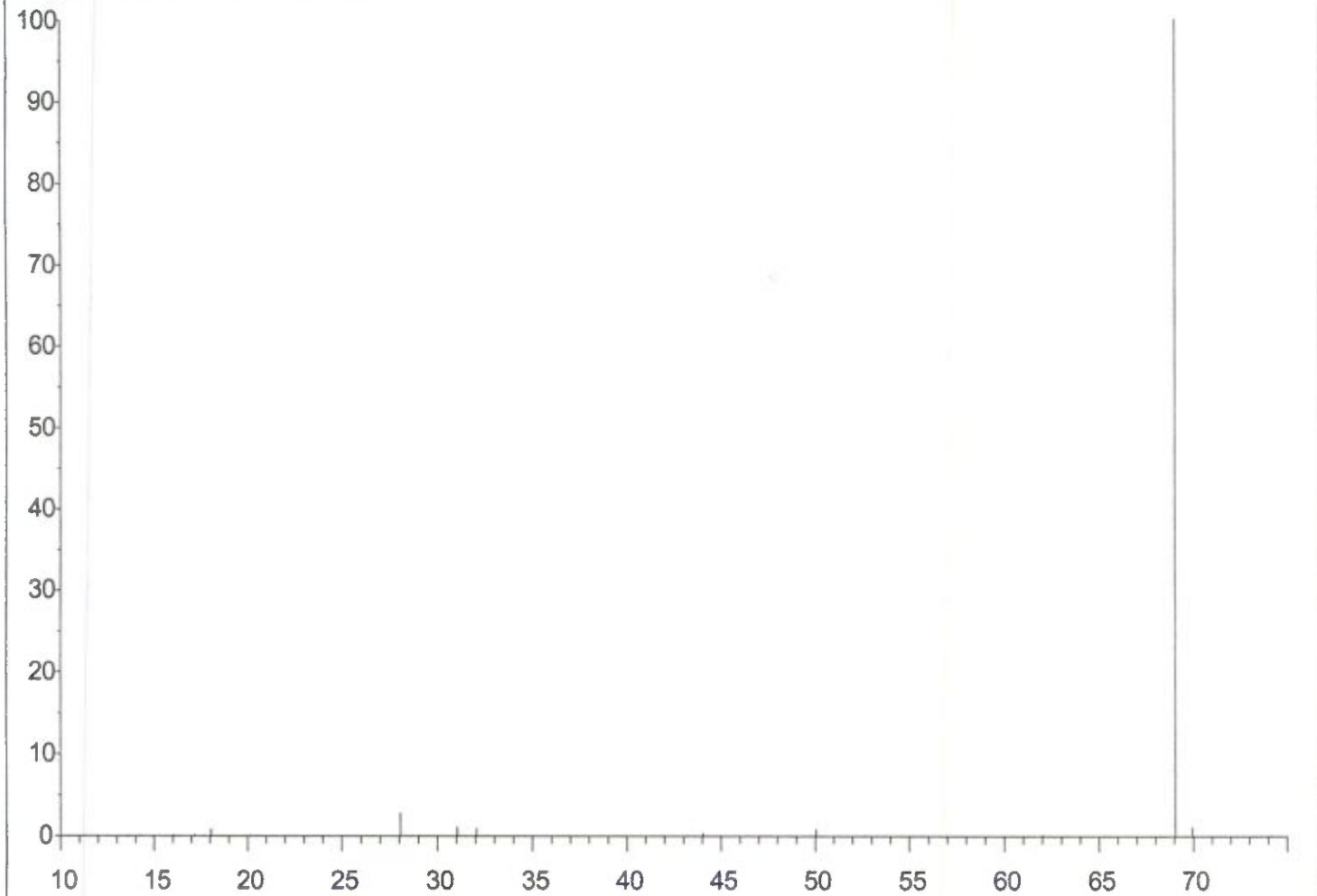
TARGET MASS:	50	69	131	219	414	502	800
Amu Offset:	121.0	121.0	121.0	121.0	121.0	121.0	121.0
Entrance Lens Offset:	14.3	14.3	14.3	14.3	14.3	14.3	14.3

597x Air and Water Check

JS
OK

Instrument: SD GCMS 1
Mon Jan 06 09:10:49 2025 C:\MSDCHEM\1\5973\

Scan: 10.00 - 75.00 Samples: 8 Thresh: 0 Step: 0.10
72 peaks Base: 69.05 Abundance: 571840



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.05	571840	100.00	69.95	6009	1.05
18.05	4449	0.78	19.05	96	2.16
28.05	15899	2.78	29.05	268	1.69

Current Params used: atune.u

Relative abundances:
- 18/69 = 0.78 Water% ✓
- 28/69 = 2.78 Nitrogen% ✓
- 32/69 = 0.95 Oxygen% ✓
- 44/69 = 0.35 Carbon Dioxide%
- 28/18 = 357.36 Nitrogen/Water%

System Verification - Tune (Detector Optimization) Portion

Instrument Name	: SD GCMS 1	
DC Polarity	: Positive	
Filament	: 2	
BasePeak should be 69 or 219		Ok
Position of mass 69	69.05	Ok
Position of mass 219	219.03	Ok
Position of mass 502	502.05	Ok
Position of isotope mass 70	70.02	Ok
Position of isotope mass 220	220.02	Ok
Position of isotope mass 503	503.04	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%)	9.59	Ok
Ratio of 219 to 69 should be > 40% and is	82.28	Ok
Ratio of 502 to 69 should be > 2.4% and is	9.27	Ok
Mass 69 Precursor (<= 3%)	0.07	Ok
Mass 219 Precursor (<= 6%)	0.09	Ok
Mass 502 Precursor (<= 12%)	0.19	Ok
Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	0.70	Ok
Ratio of 28 to 69 (<10%)	3.73	Ok
Electron Multiplier Voltage	1671	Ok

Tune portion of System Verification passed.

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

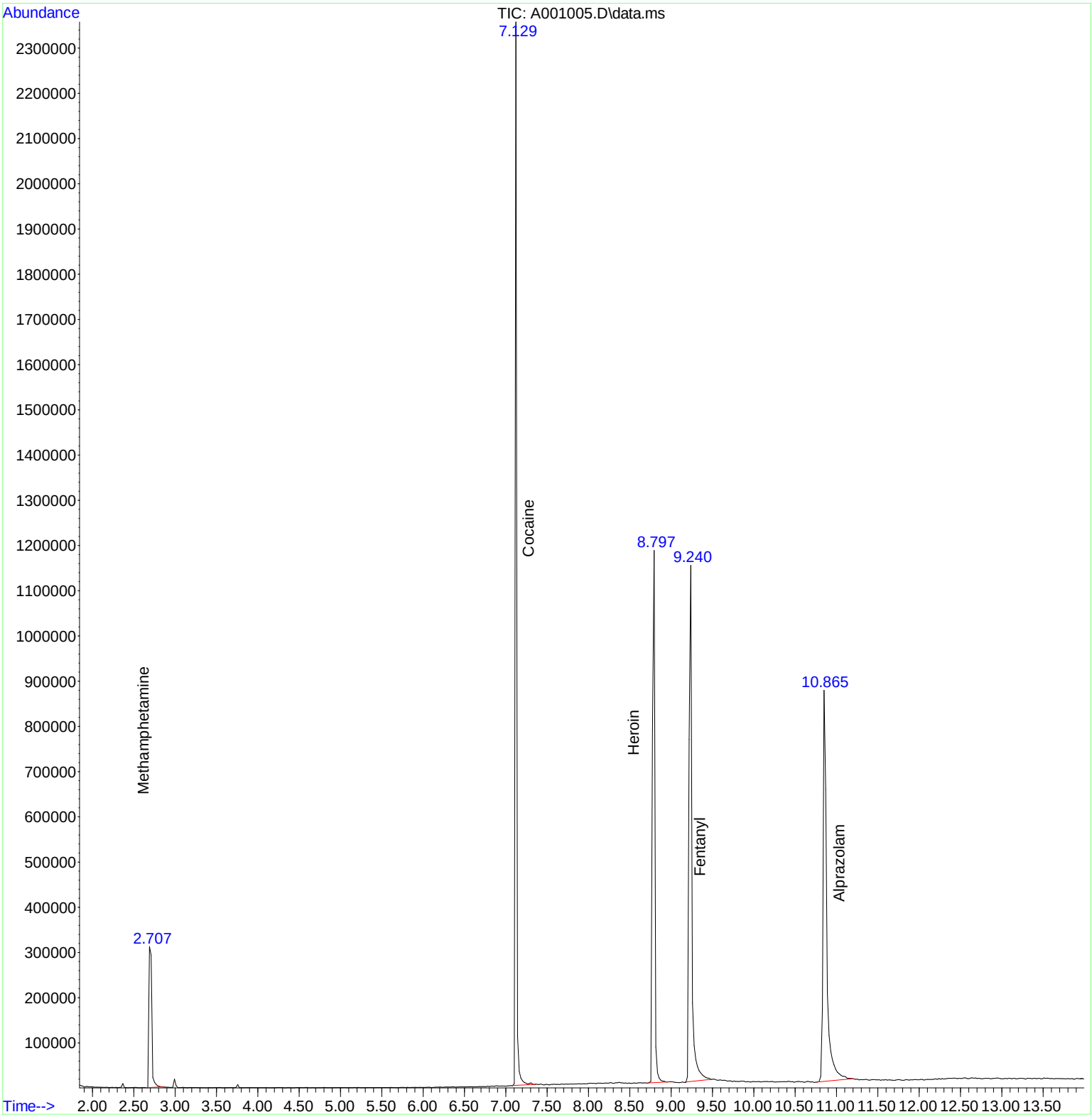
01/06/2024 - 01/12/2025

[x] **Tune: 01/6/2024 - Autotune DN/DS**

Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	BCCL GenDrug	2.707	2.679	2.734
Cocaine	R-24-060	BCCL GenDrug	7.129	7.057	7.200
Heroin	R-24-060	BCCL GenDrug	8.797	8.709	8.884
Fentanyl	R-24-060	BCCL GenDrug	9.240	9.147	9.332
Alprazolam	R-24-060	BCCL GenDrug	10.865	10.756	10.973

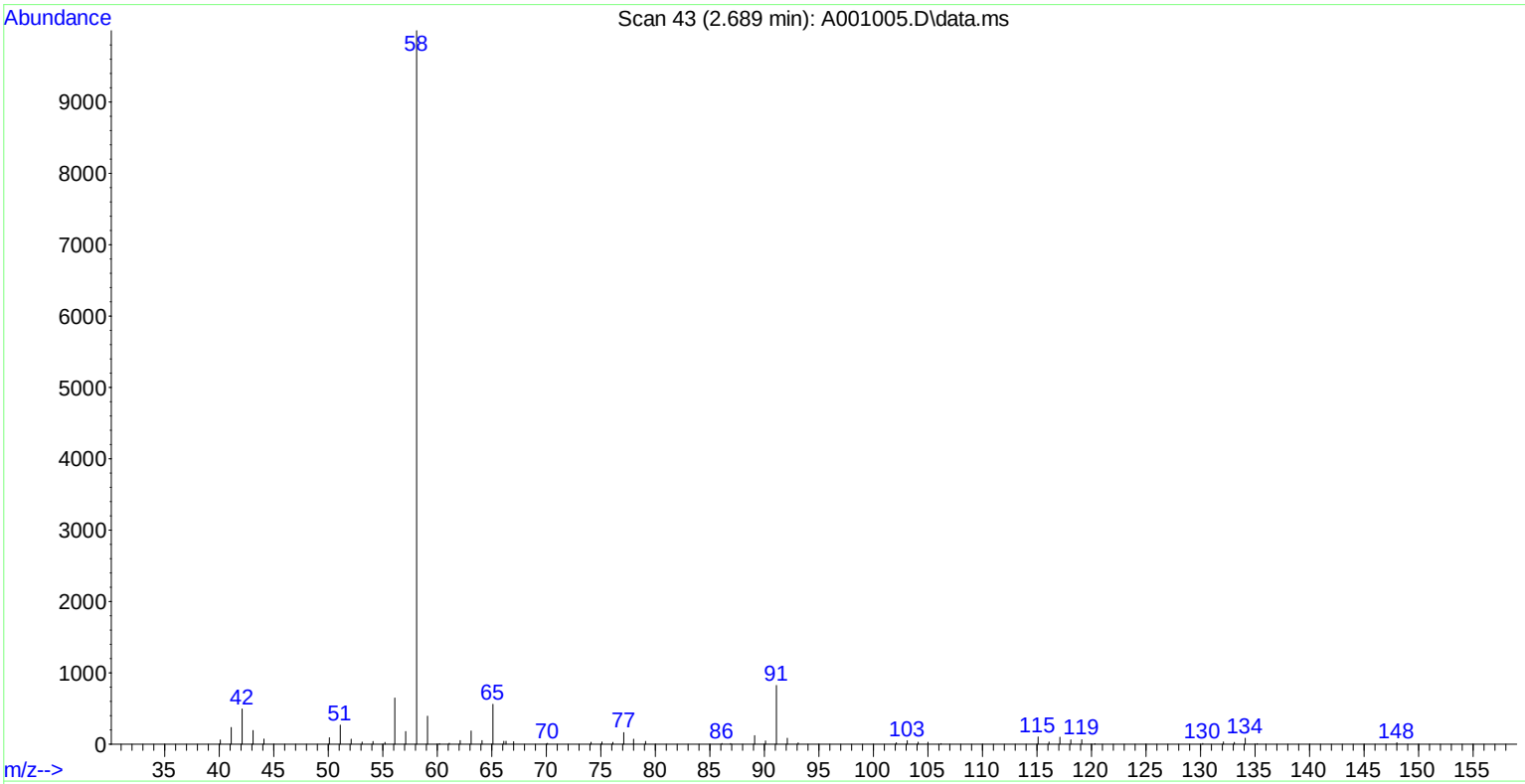
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... 2025\010625\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 6 Jan 2025 11:04 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN

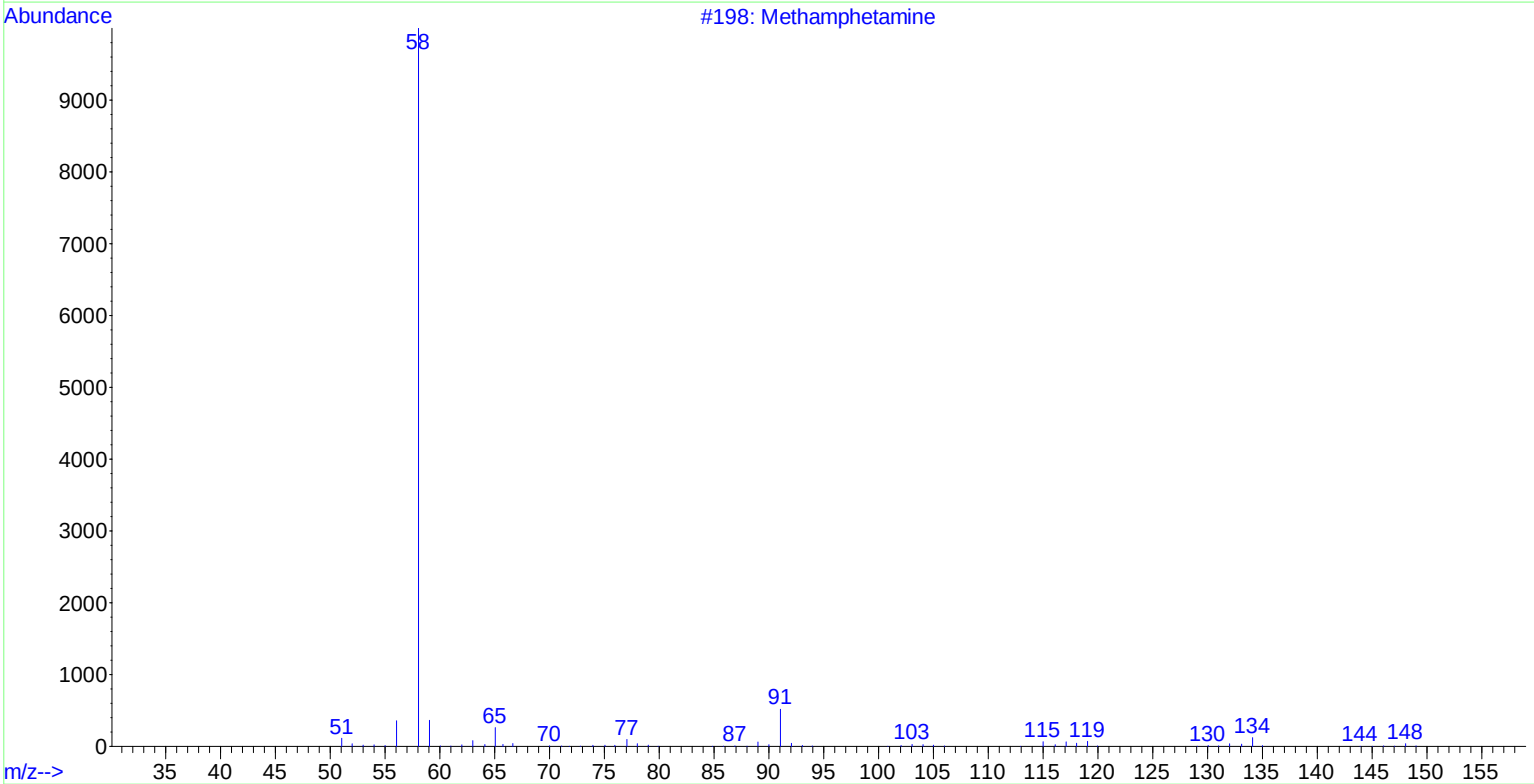
✓ DS 01/06/2025



File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 6 Jan 2025 11:04 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN

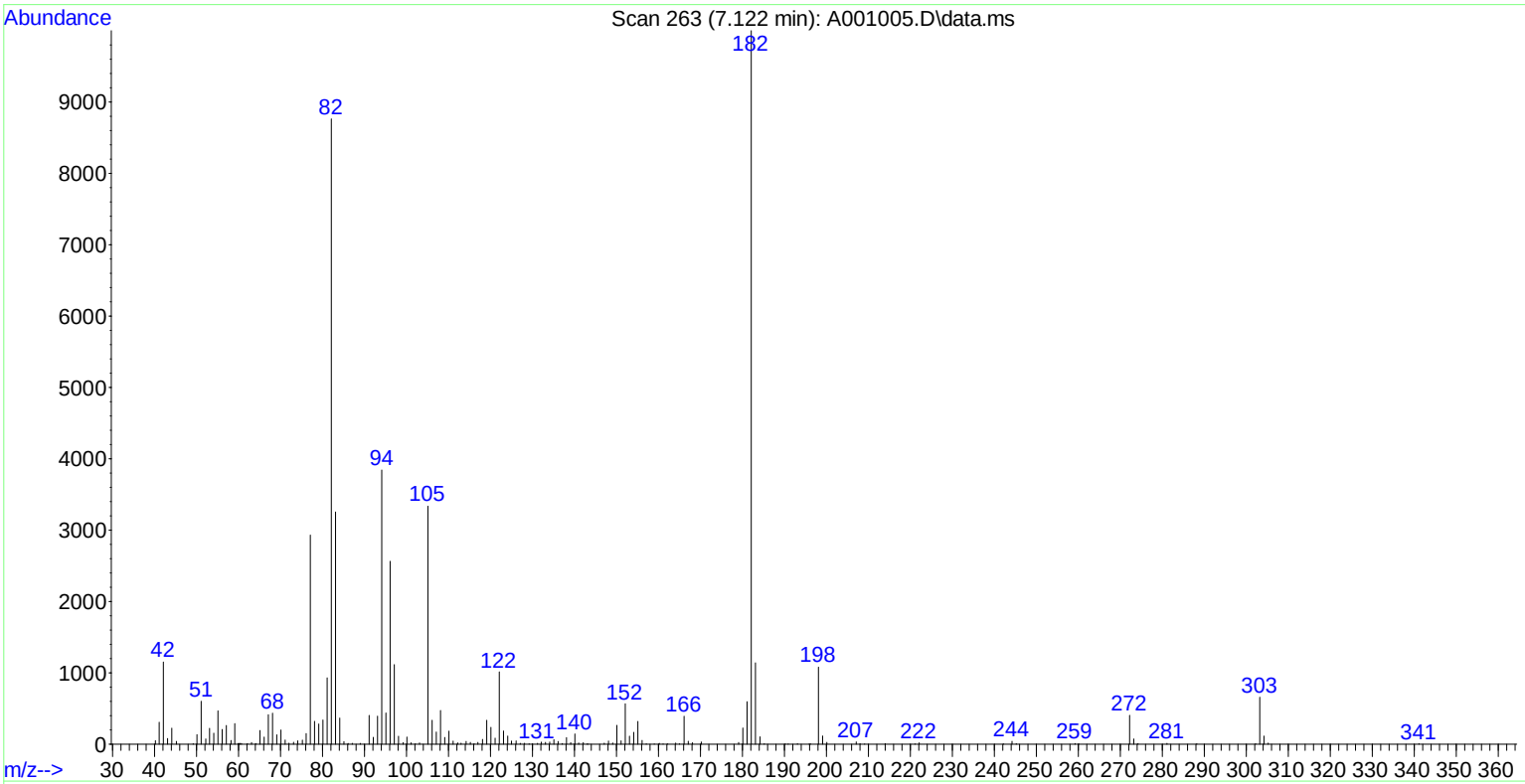
DS 01/06/2025

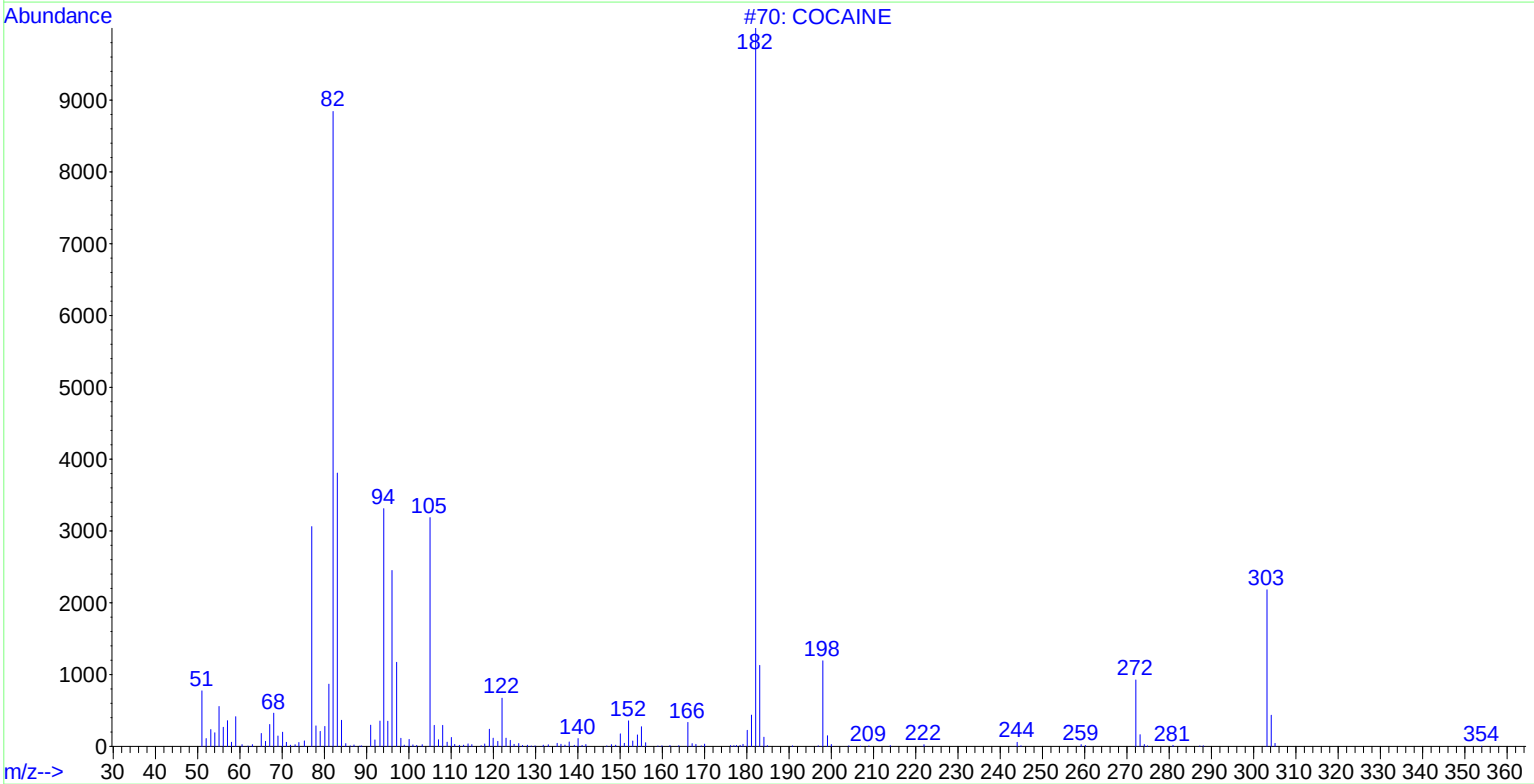




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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 6 Jan 2025 11:04 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN

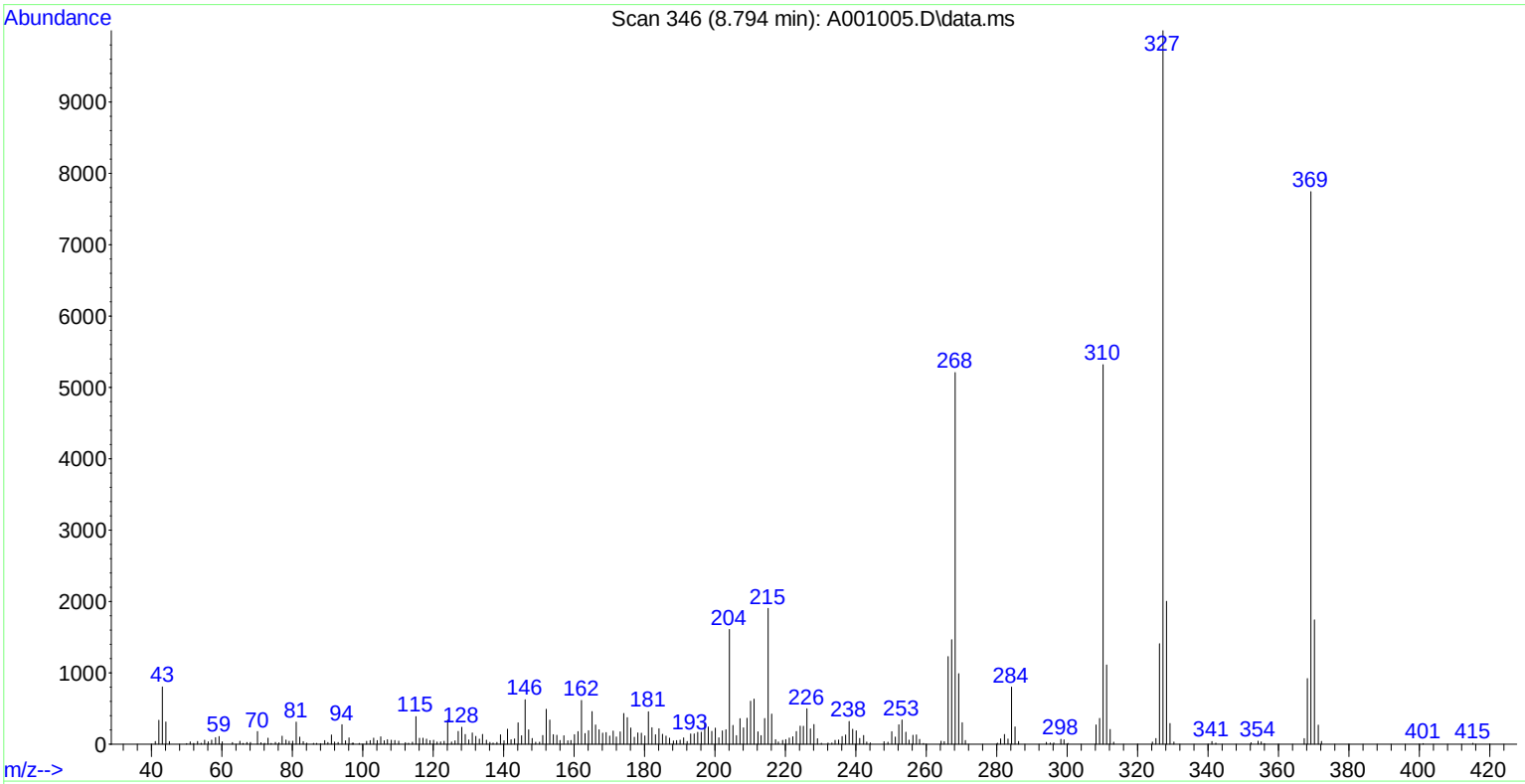
DS 01/06/2025

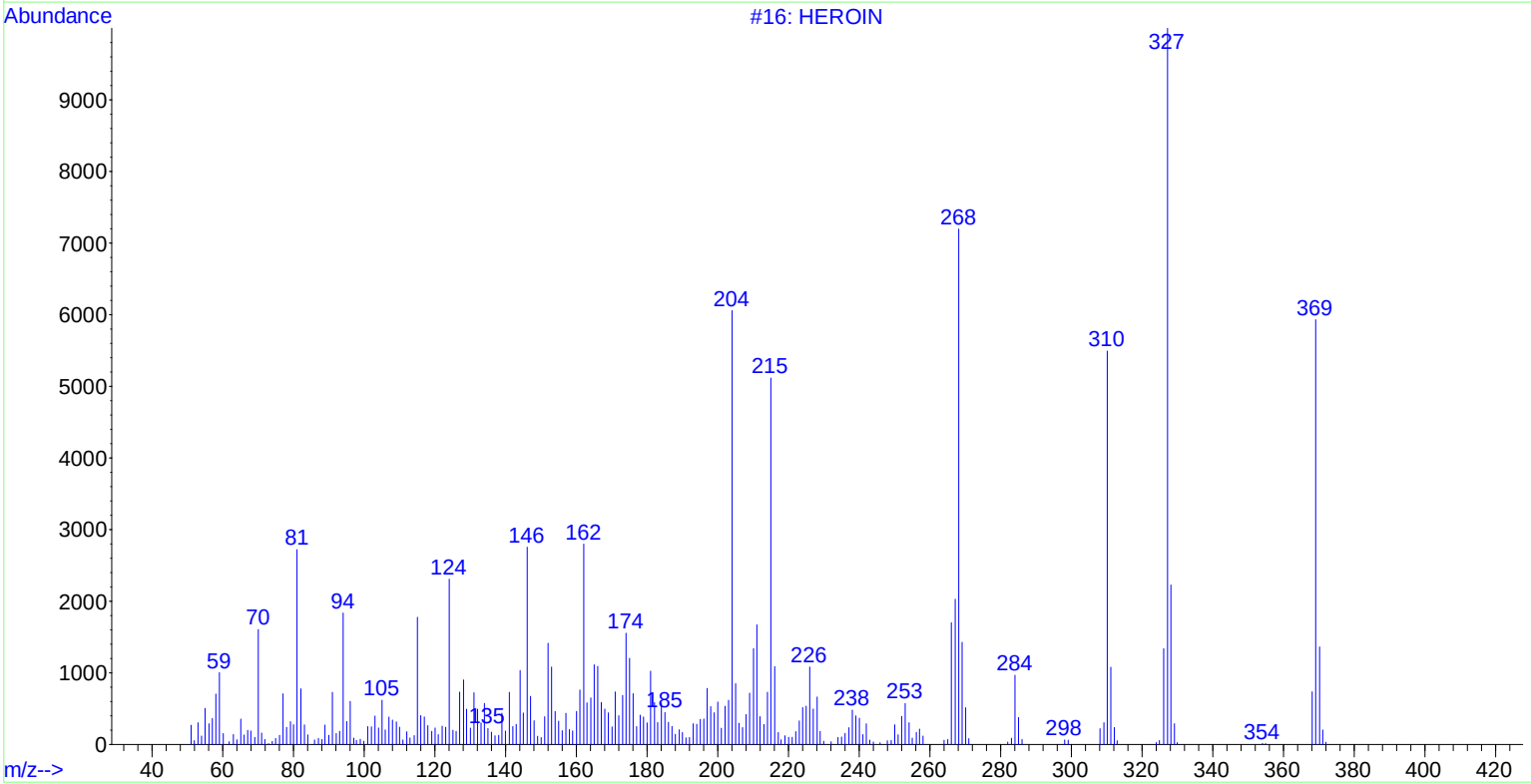




File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 6 Jan 2025 11:04 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN

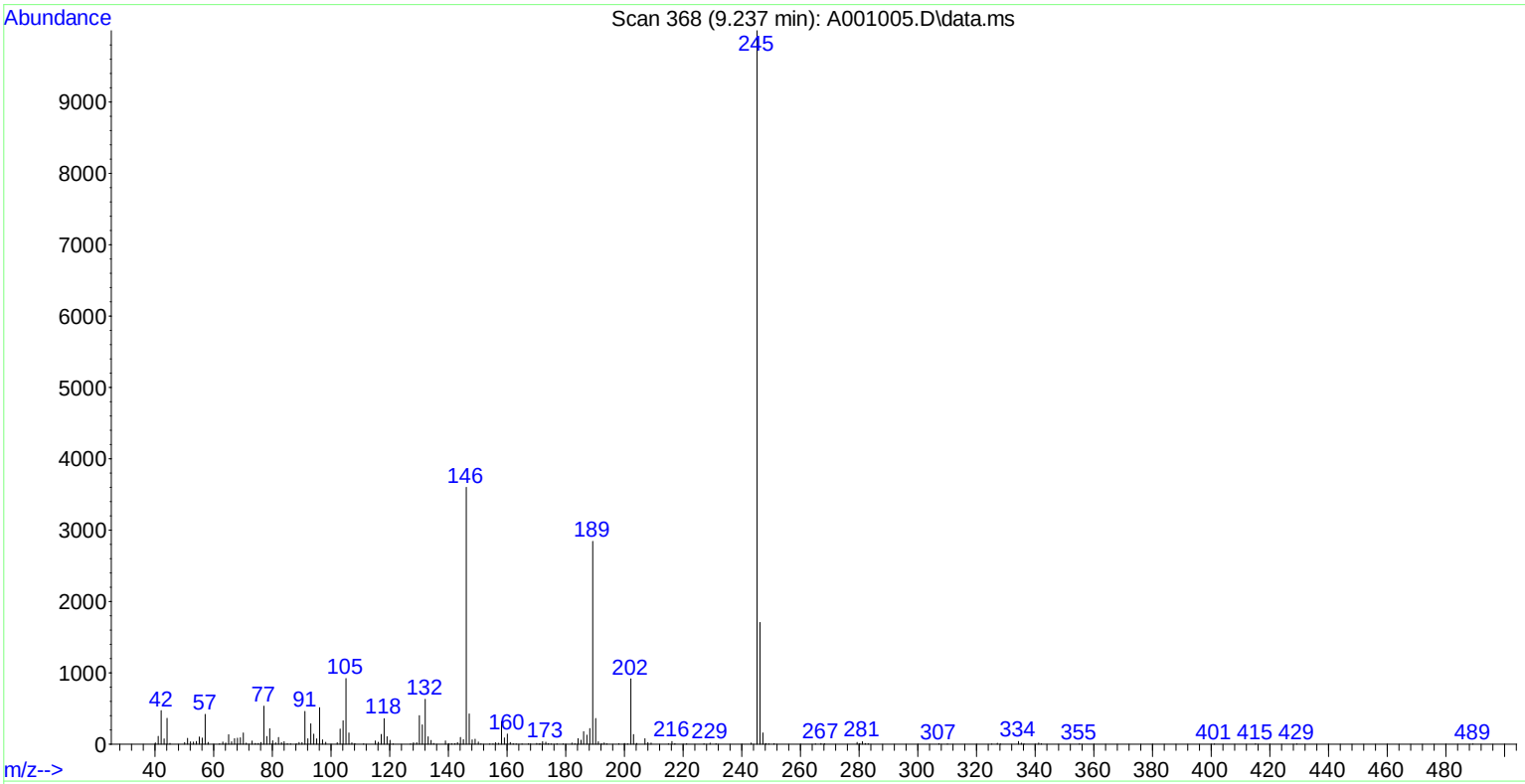
DS 01/06/2025

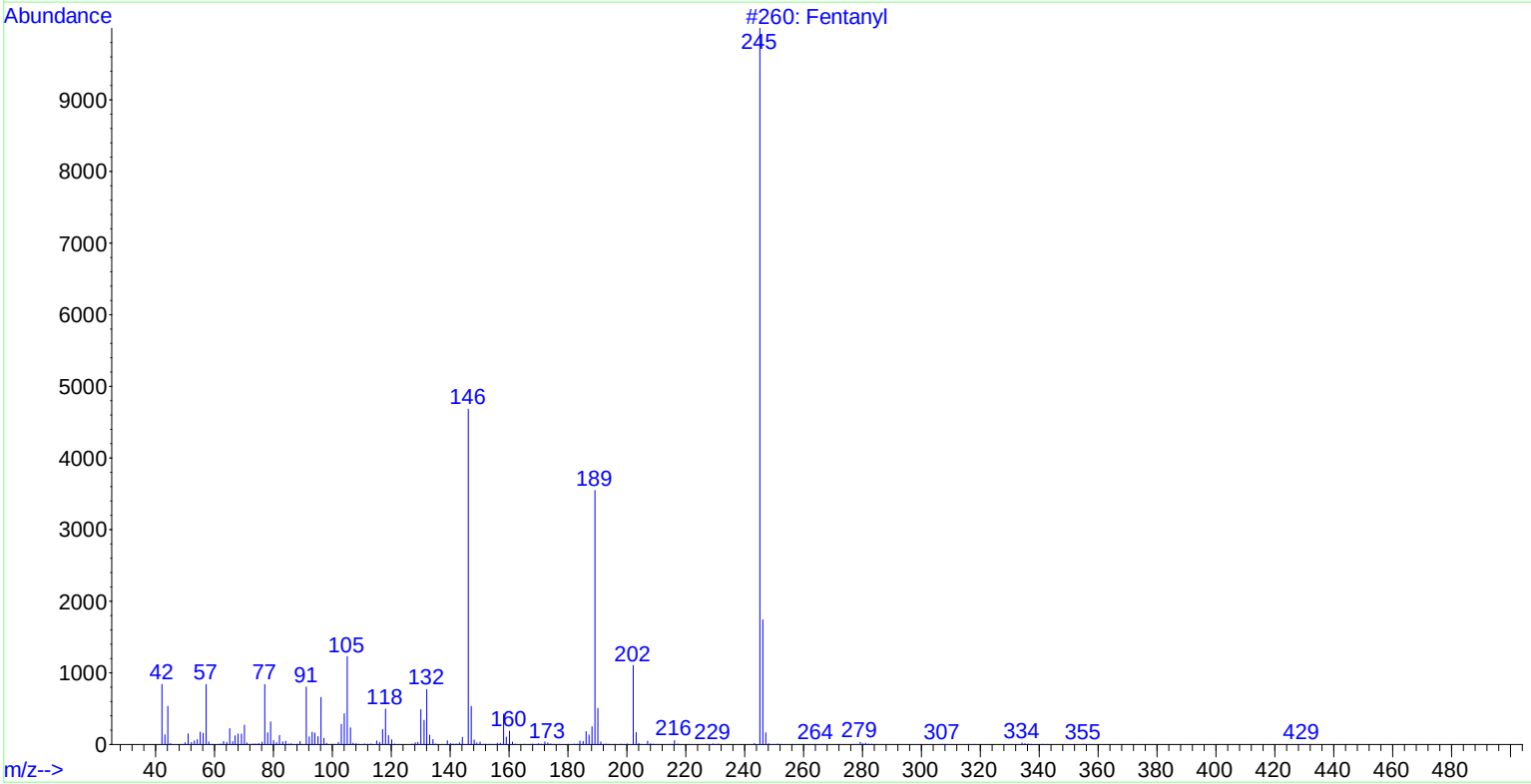




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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 6 Jan 2025 11:04 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN

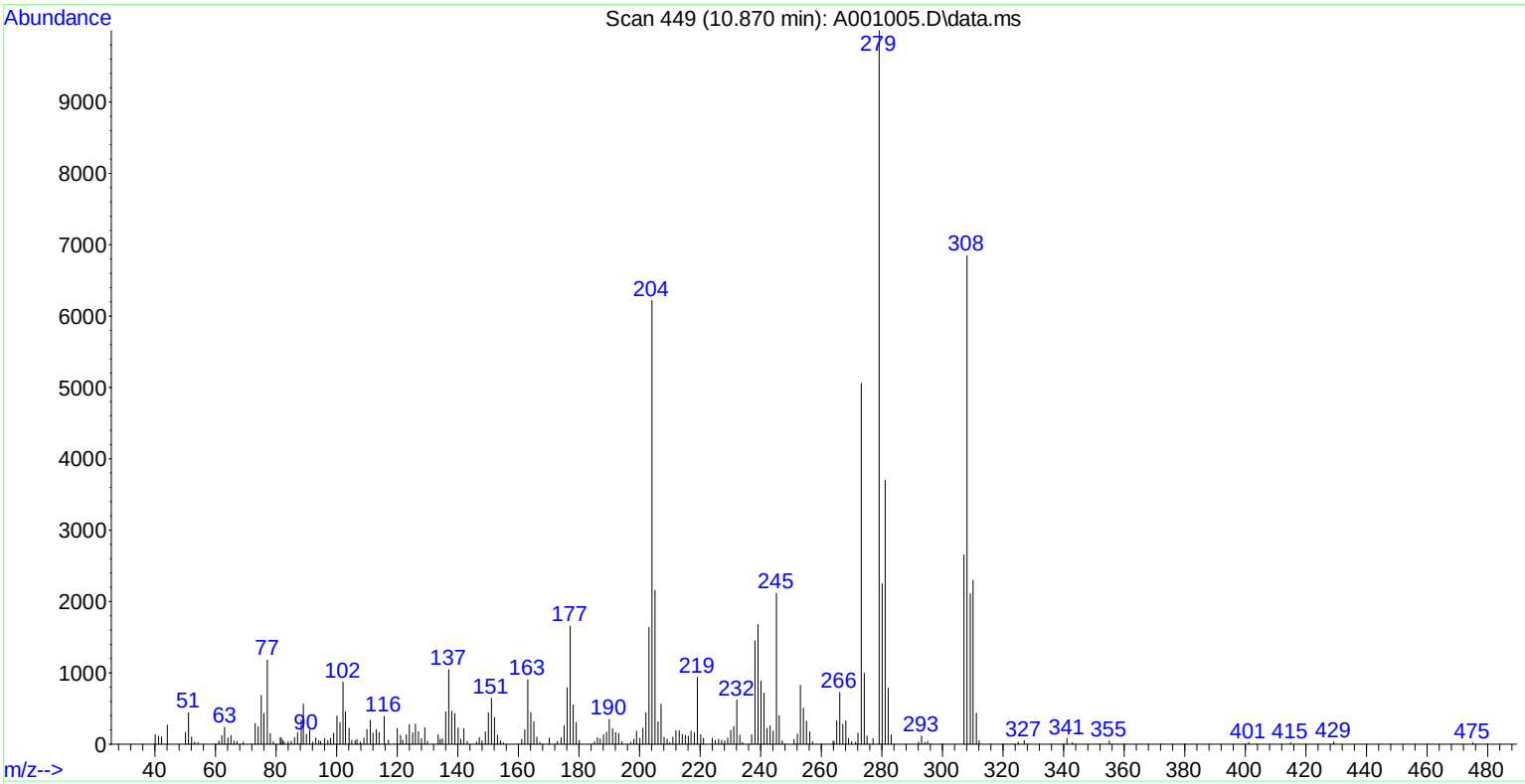
✓ DS 01/06/2025

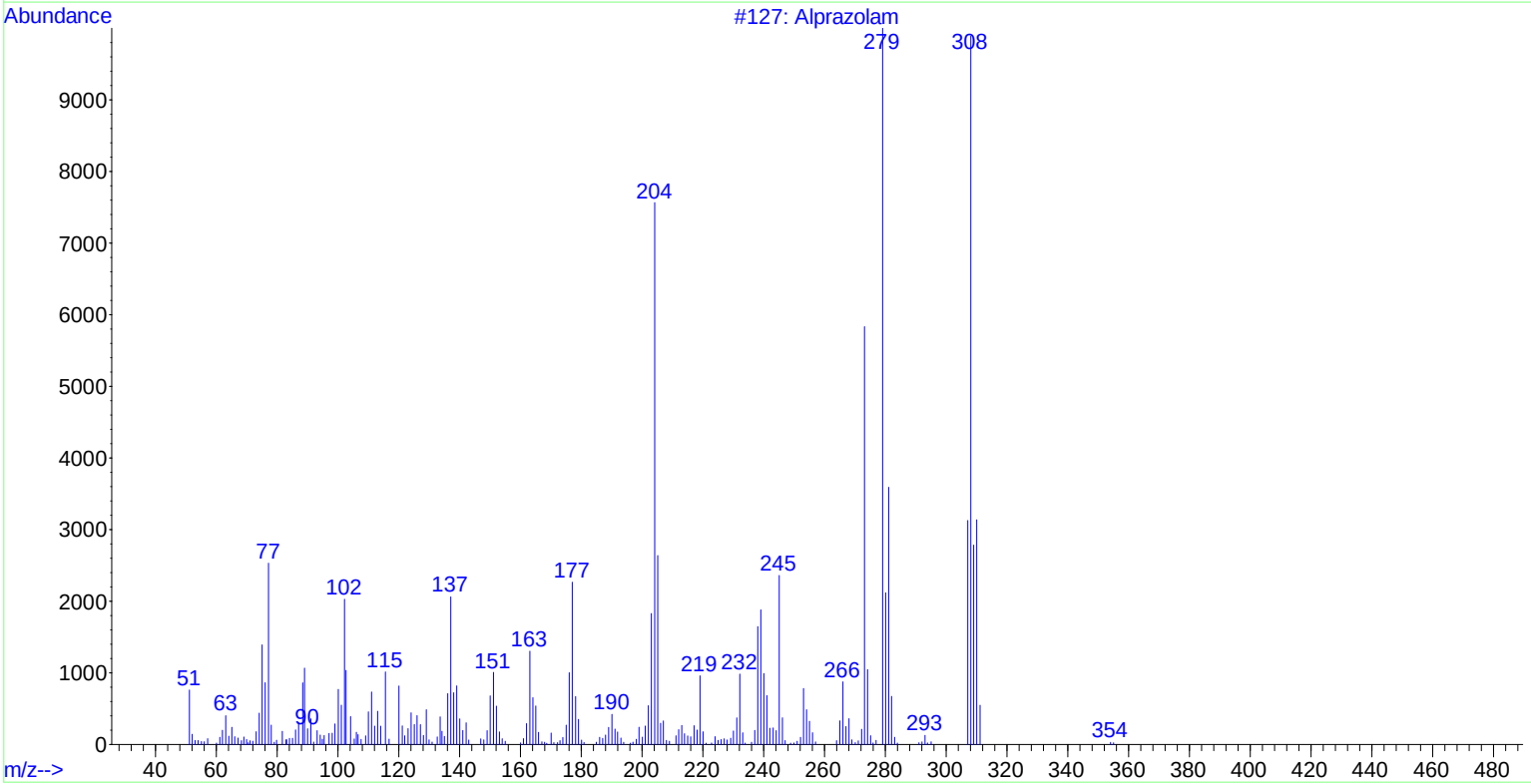




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... 2025\010625\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 6 Jan 2025 11:04 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN

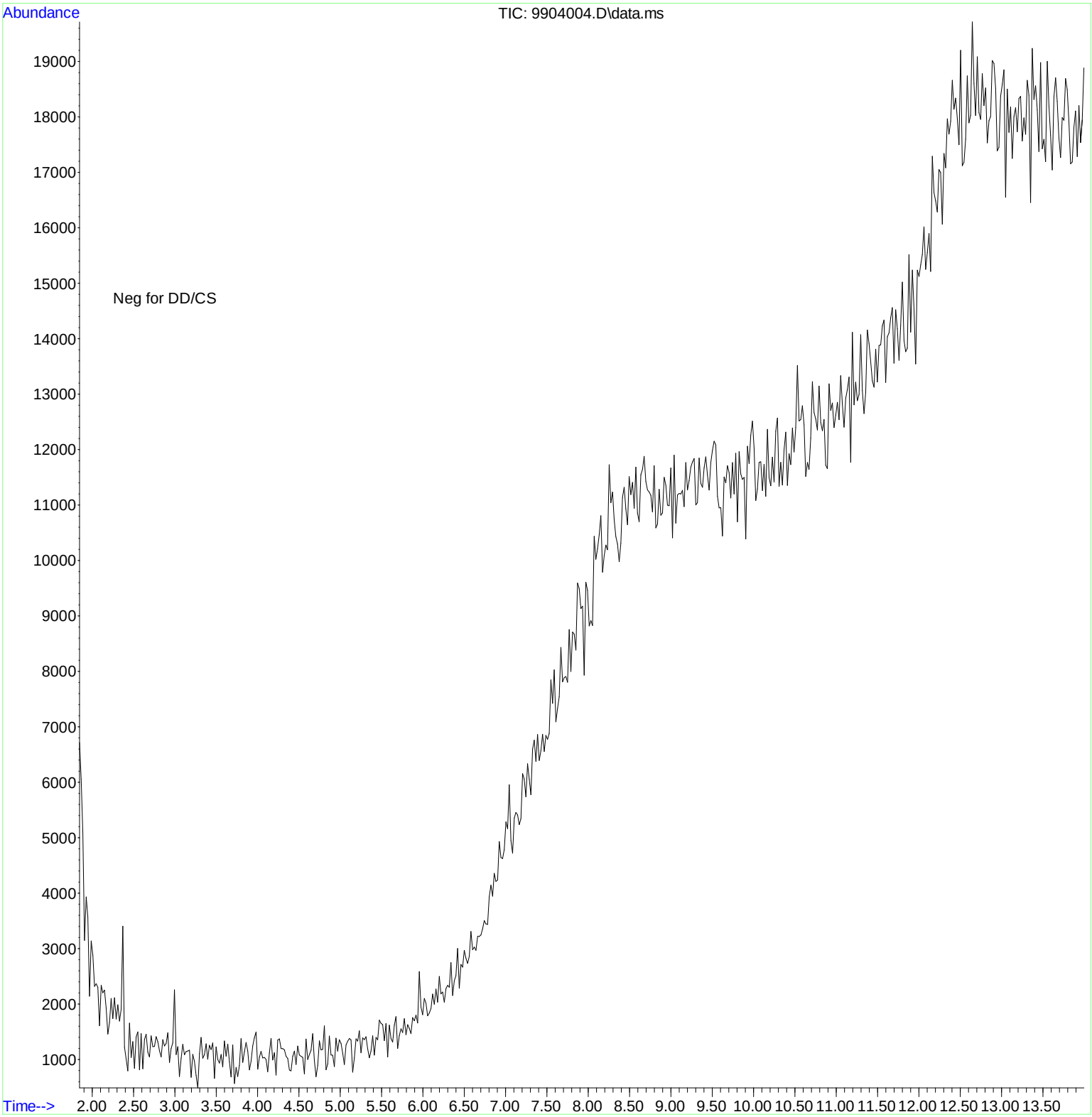
DS 01/06/2025





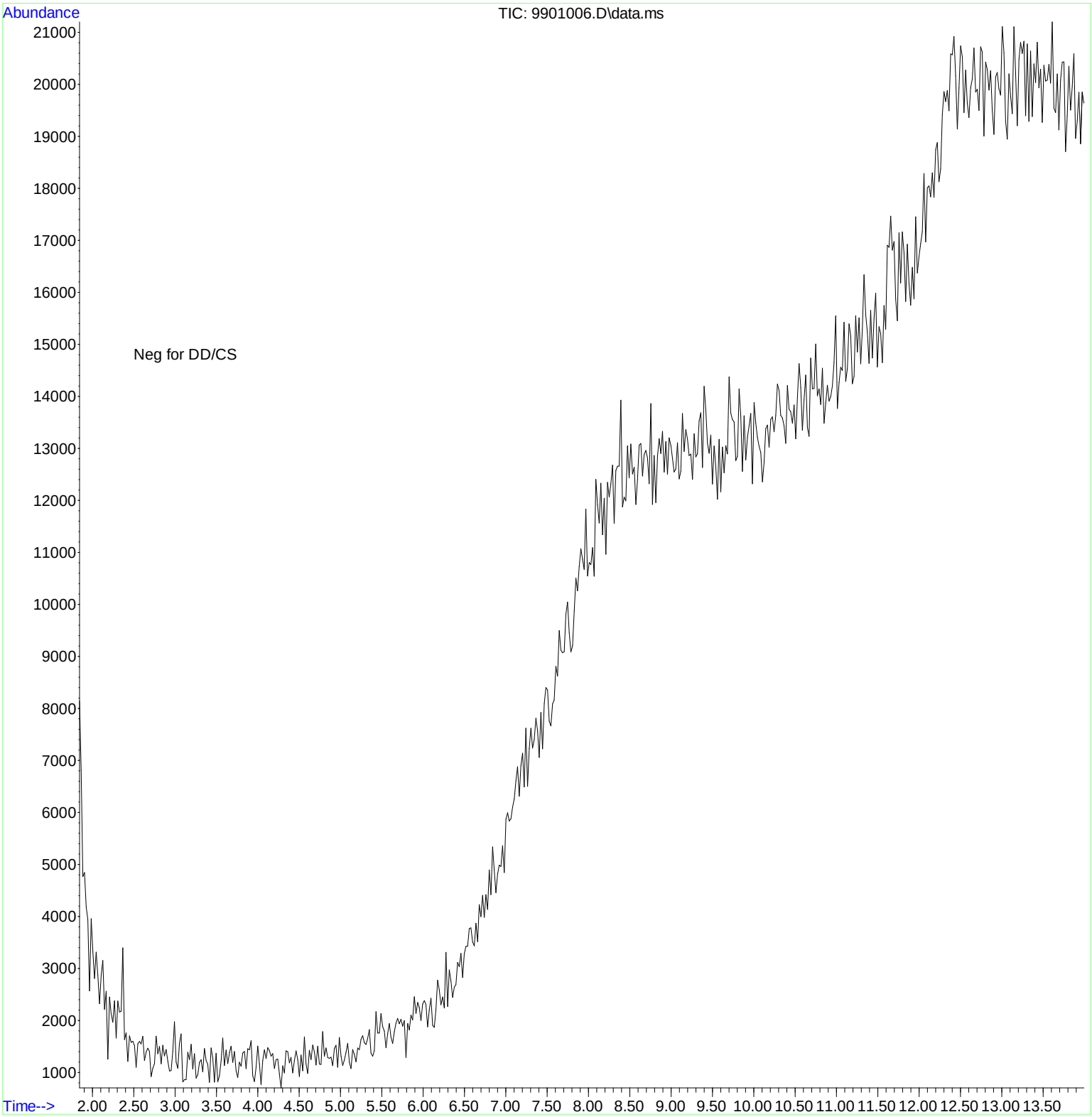
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... 2025\010625\9904004.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 6 Jan 2025 10:46 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK PRIOR TO CAYMAN GC/MS 000002664
Misc Info : ACN (C-19-0068)

DS 01/06/2025



File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\010625\9901006.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 6 Jan 2025 11:21 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK - INSTRUMENT READY 000002664
Misc Info : ACN (C-19-0068)

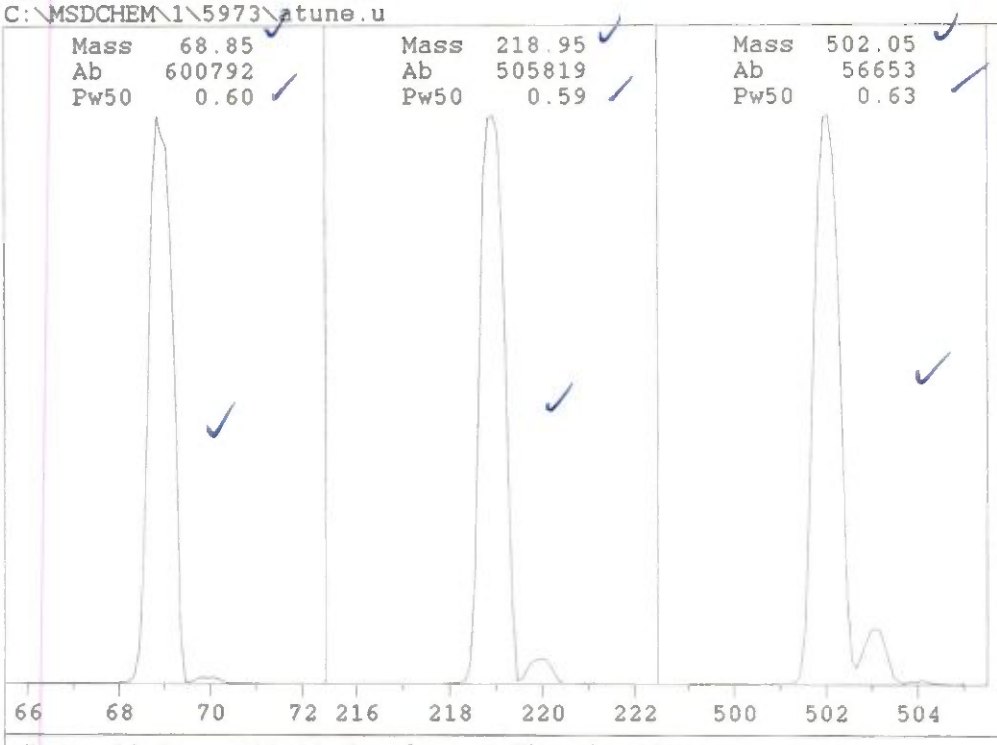
✓ DS 01/06/2025



DS

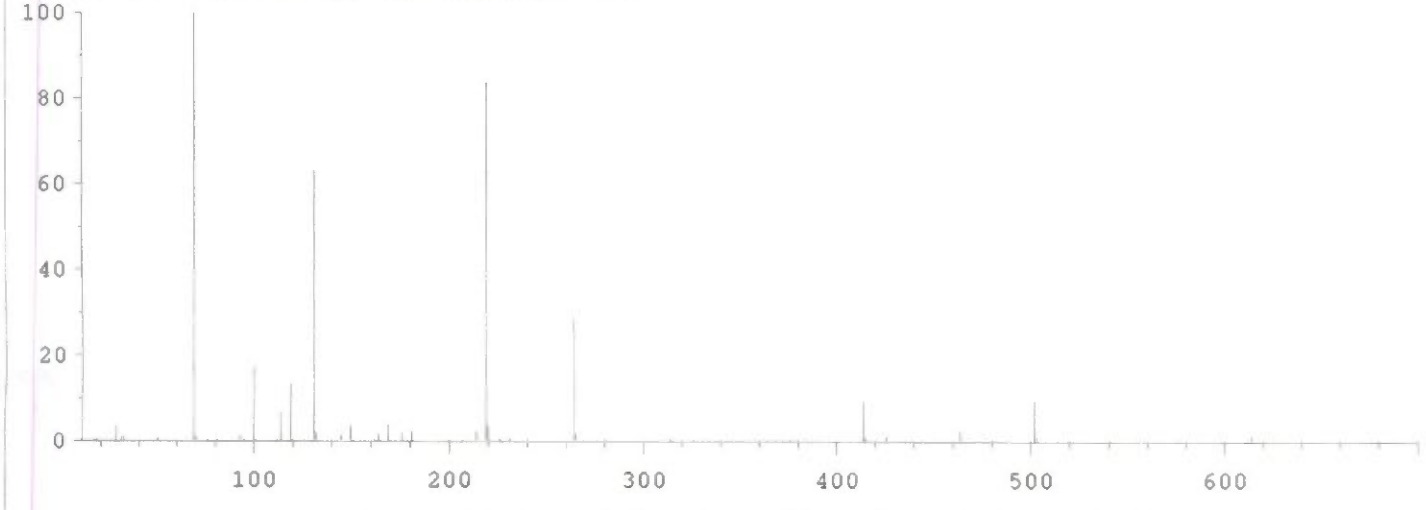
5973 Autotune

Mon Jan 13 08:36:15 2025 Instrument: SD GCMS 1
C:\MSDCHEM\1\5973\atune.u



Ion Pol	POS	MassGain	377
		MassOffs	-13
Emission	34.6	AmuGain	2439
EIEnrgy	69.9	AmuOffs	121
Filament	2	Wid219	-0.045
		DC Pol	POS
Repeller	19.40		
IonFcus	66.4	HEDEnab	ON
EntLens	12.0	EMVolts	1718
EntOffs	15.31		
		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
168 peaks Base: 68.95 Abundance: 542592



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
68.95	542592	100.00	69.95	6082	1.12
218.95	456256	84.09	219.85	19680	4.31
501.95	53024	9.77	503.05	5637	10.63

Air/Water Check: H20~0.53% N2~3.29% O2~0.98% CO2~0.05% N2/H2O~621.45%

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

Ramp Criteria:
Ion Focus Maximum 90 volts using ion 502; EM Gain 270262
Repeller Maximum 35 volts using ion 219;

MassGain Values @Samples: 368@3 383@2 383@1 383@0 377@FS

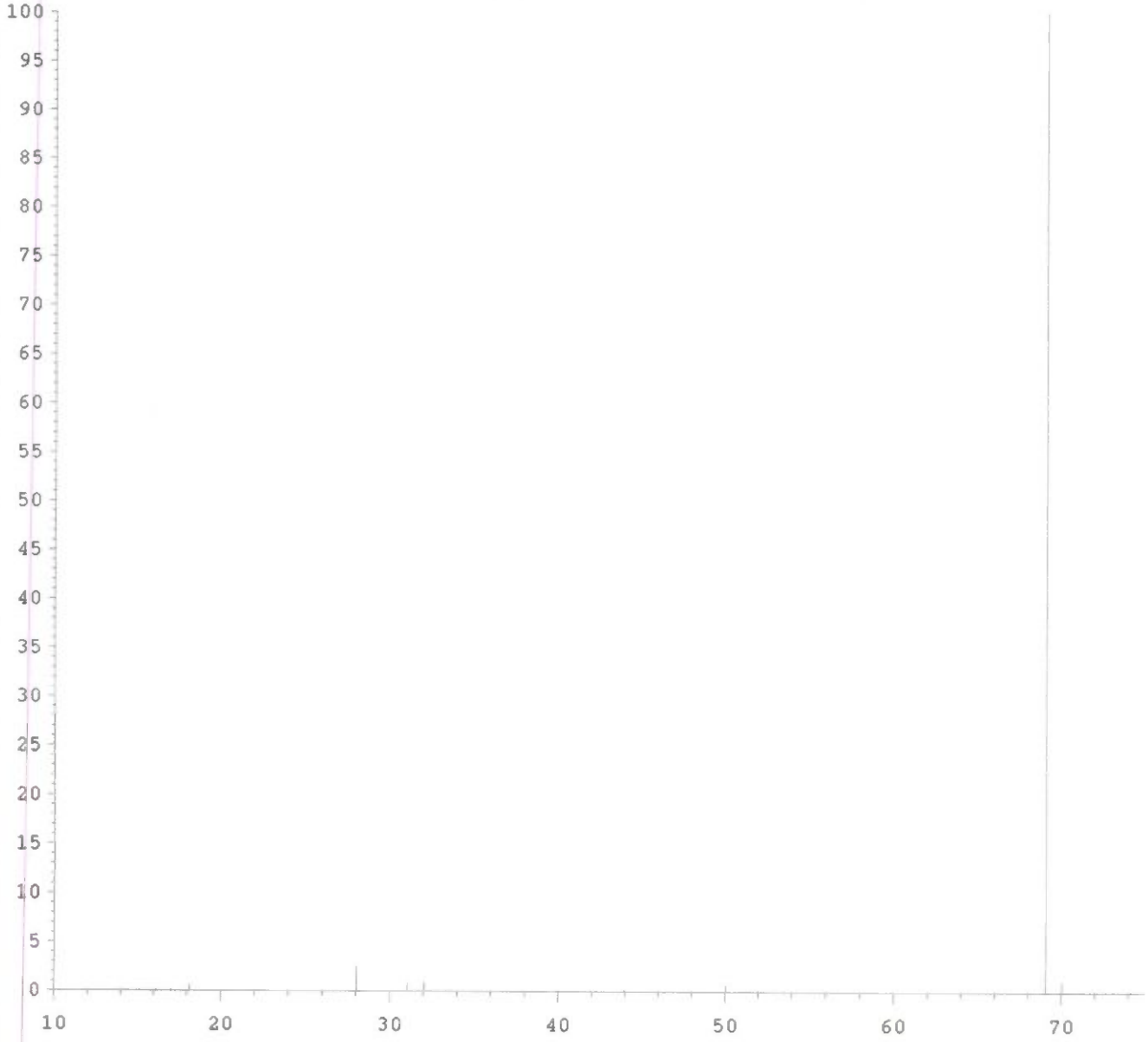
TARGET MASS:	50	69	131	219	414	502	800
Amu Offset:	121.0	121.0	121.0	121.0	121.0	121.0	121.0
Entrance Lens Offset:	15.3	15.3	15.3	15.3	15.3	15.3	15.3

JS
OK

597x Air and Water Check

Instrument: SD GCMS 1
Mon Jan 13 08:29:21 2025 C:\MSDCHEM\1\5973\

Scan: 10.00 - 75.00 Samples: 8 Thresh: 0 Step: 0.10
74 peaks Base: 69.05 Abundance: 656576



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.05	656576	100.00	70.05	7102	1.08
18.15	4445	0.68	19.25	37	0.83
28.05	17344	2.64	29.15	278	1.60

Current Params used: atune.u

Relative abundances: ✓

18/69 =	0.68	Water%
28/69 =	2.64 ✓	Nitrogen%
32/69 =	0.96 ✓	Oxygen%
44/69 =	0.22 ✓	Carbon Dioxide%
28/18 =	390.19	Nitrogen/Water%

DS

System Verification - Tune (Detector Optimization) Portion

Instrument Name	: SD GCMS 1	
DC Polarity	: Positive	
Filament	: 2	
BasePeak should be 69 or 219		Ok
Position of mass 69	68.95	Ok
Position of mass 219	218.91	Ok
Position of mass 502	501.95	Ok
Position of isotope mass 70	69.94	Ok
Position of isotope mass 220	219.92	Ok
Position of isotope mass 503	502.95	Ok
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.08	Ok
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.31	Ok
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.05	Ok
Ratio of 219 to 69 should be > 40% and is	86.18	Ok
Ratio of 502 to 69 should be > 2.4% and is	9.74	Ok
Mass 69 Precursor (<= 3%)	0.06	Ok
Mass 219 Precursor (<= 6%)	0.11	Ok
Mass 502 Precursor (<= 12%)	0.20	Ok
Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	0.41	Ok
Ratio of 28 to 69 (<10%)	2.80	Ok
Electron Multiplier Voltage	1718	Ok

Tune portion of System Verification passed.

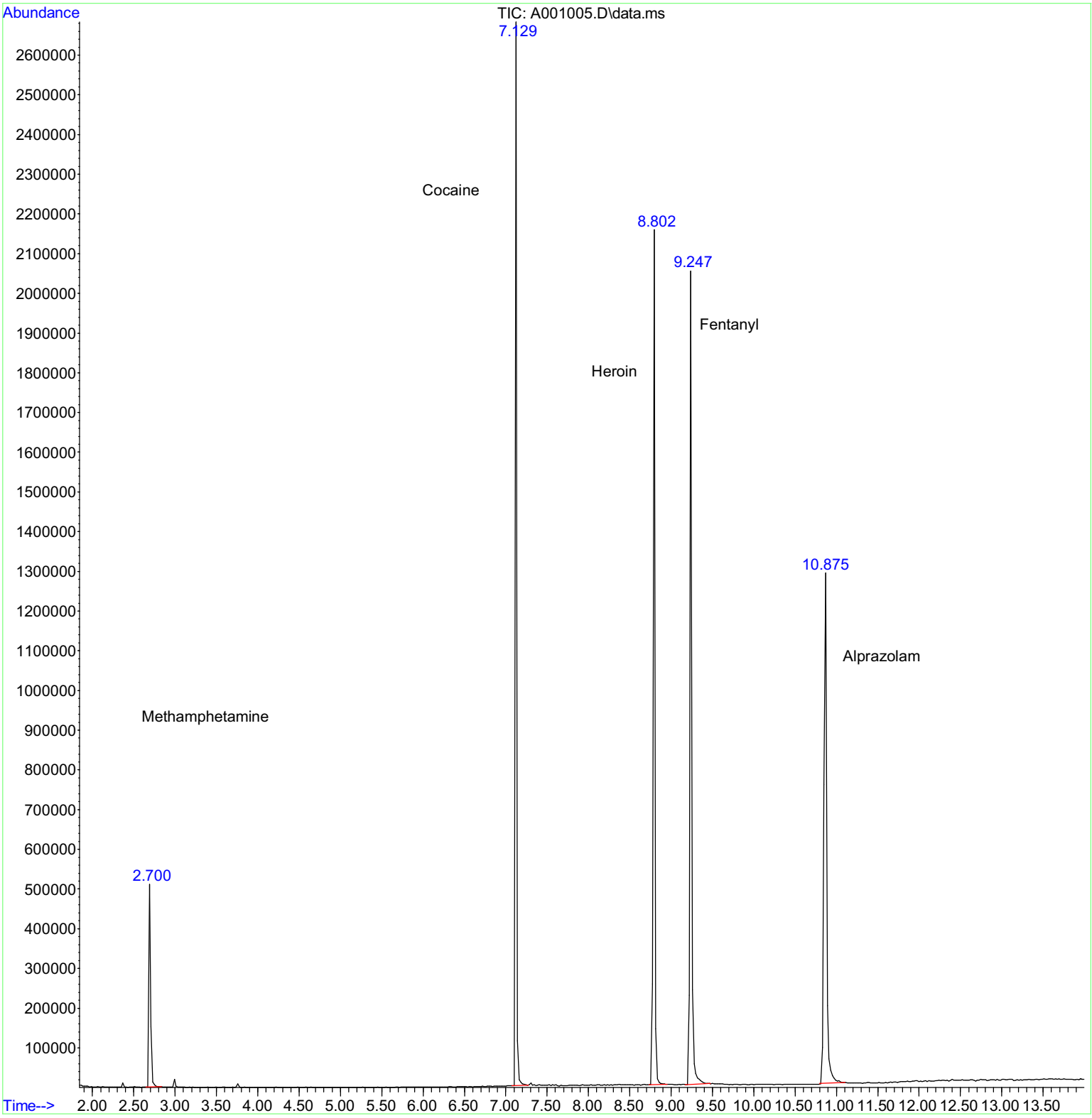
BCCL GC/MS #1
Retention Times for the Week of:

01/13/2024 - 01/14/2025

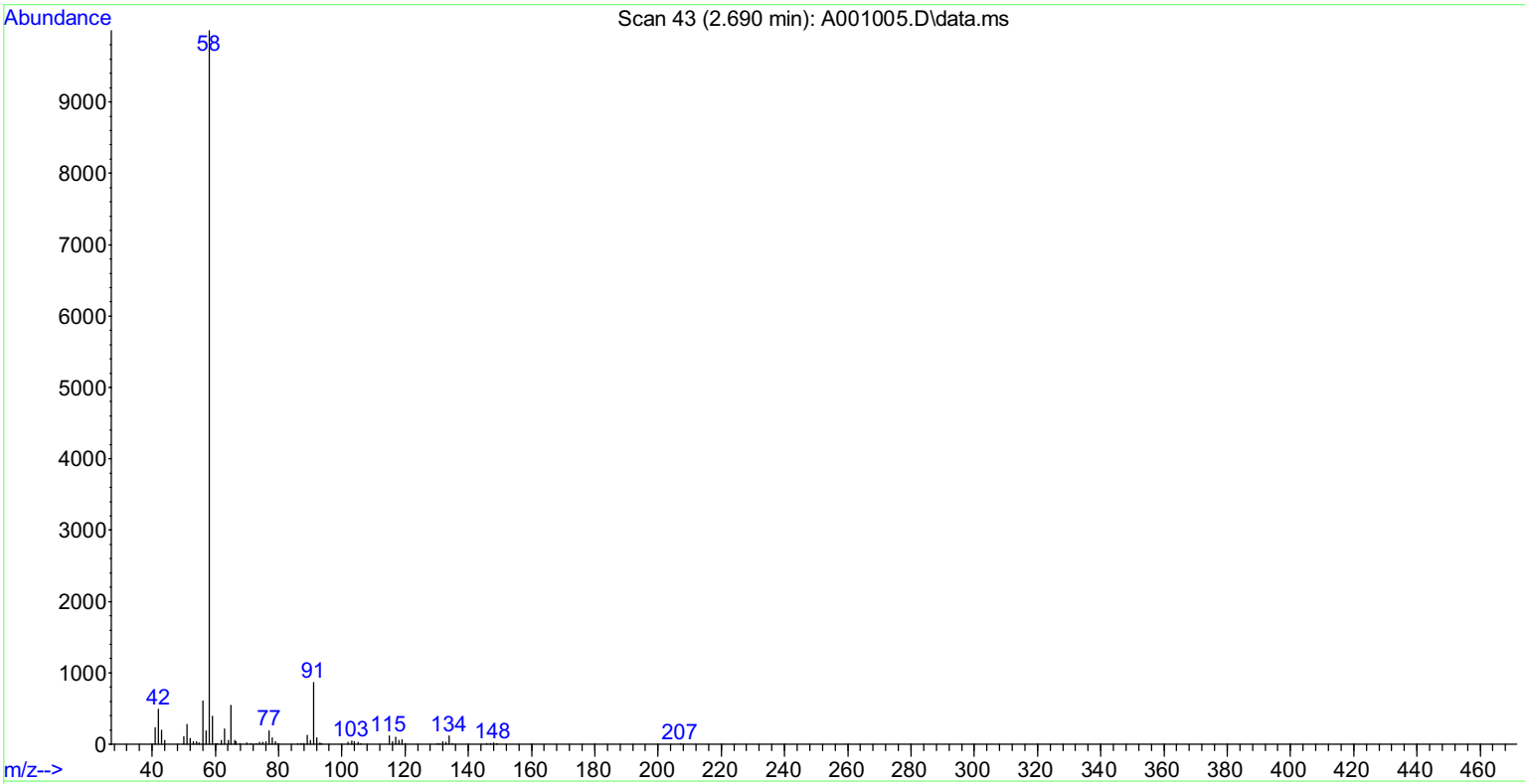
[x] **Tune: 01/13/2024 - Autotune DS**

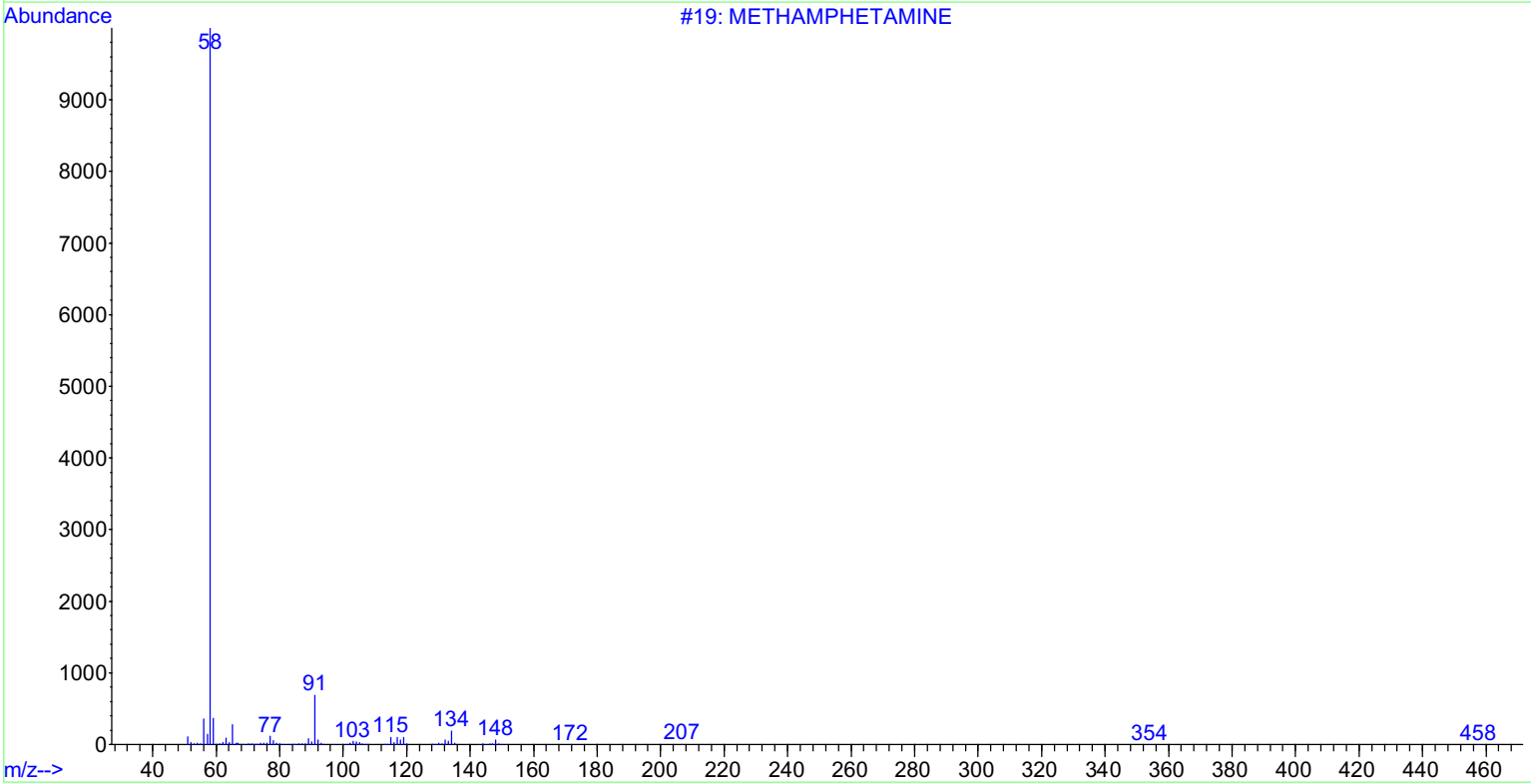
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	BCCL GenDrug	2.700	2.673	2.727
Cocaine	R-24-060	BCCL GenDrug	7.129	7.057	7.200
Heroin	R-24-060	BCCL GenDrug	8.802	8.713	8.890
Fentanyl	R-24-060	BCCL GenDrug	9.247	9.154	9.339
Alprazolam	R-24-060	BCCL GenDrug	10.875	10.766	10.983

File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\011325\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 13 Jan 2025 9:40 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN

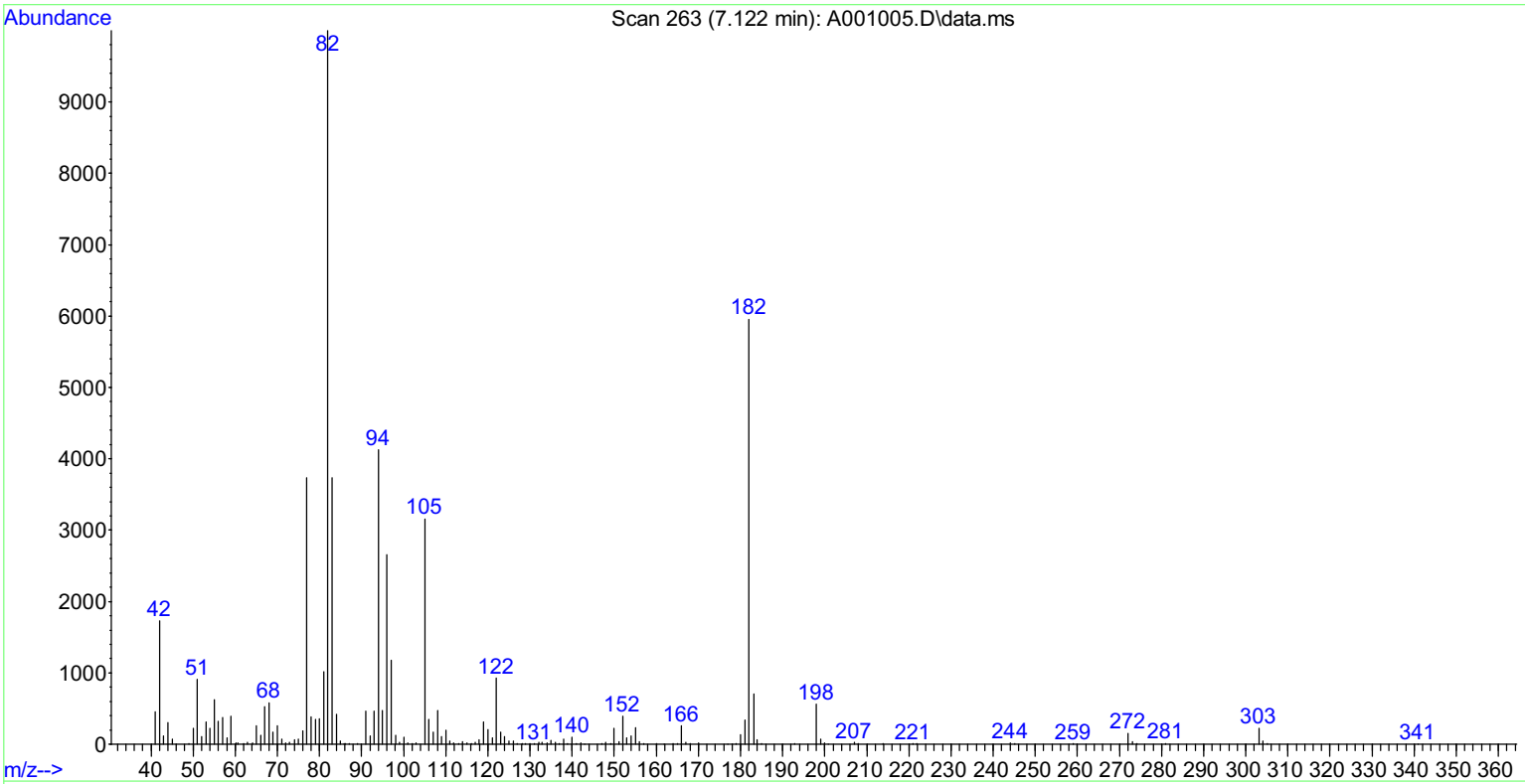


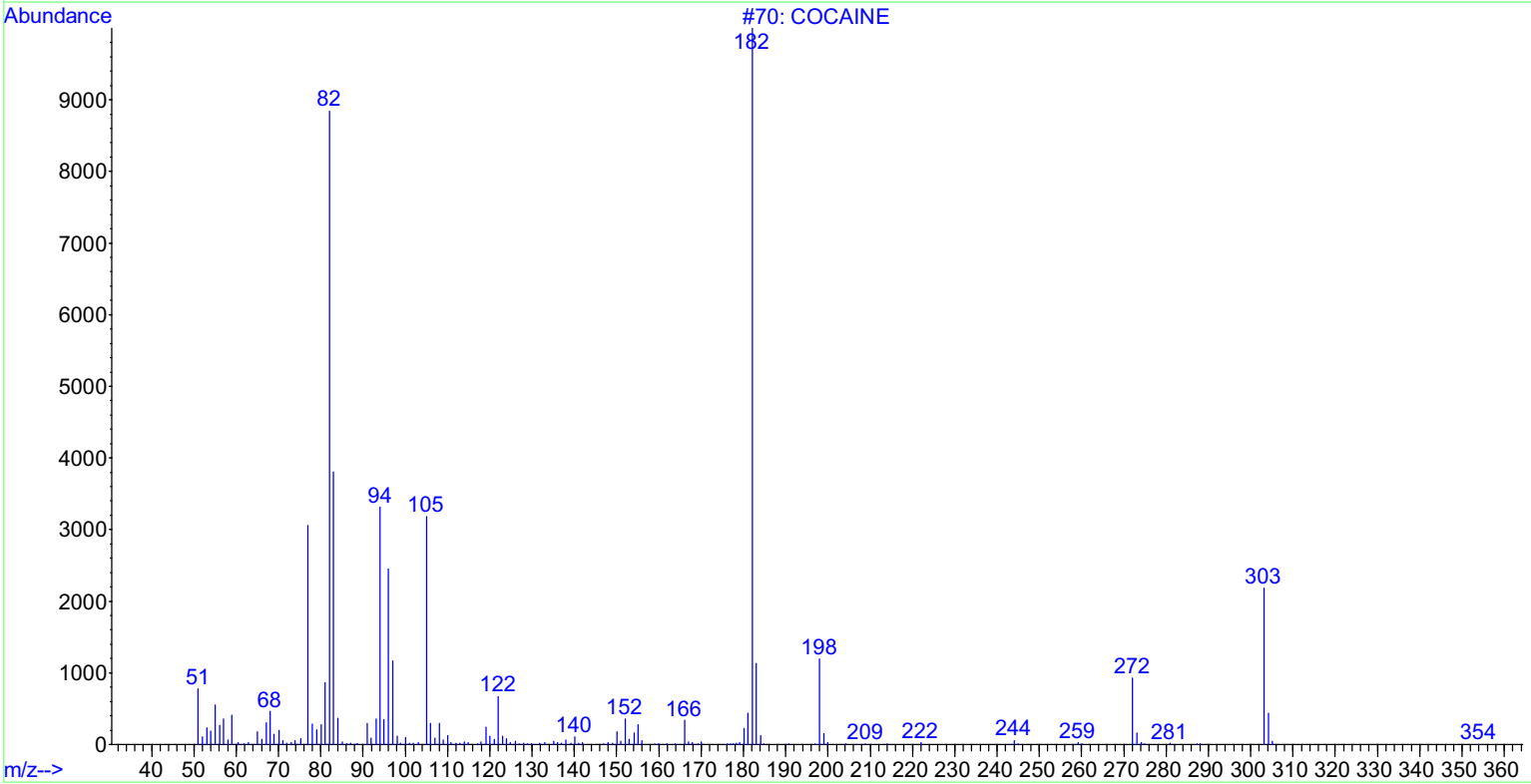
File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\011325\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 13 Jan 2025 9:40 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



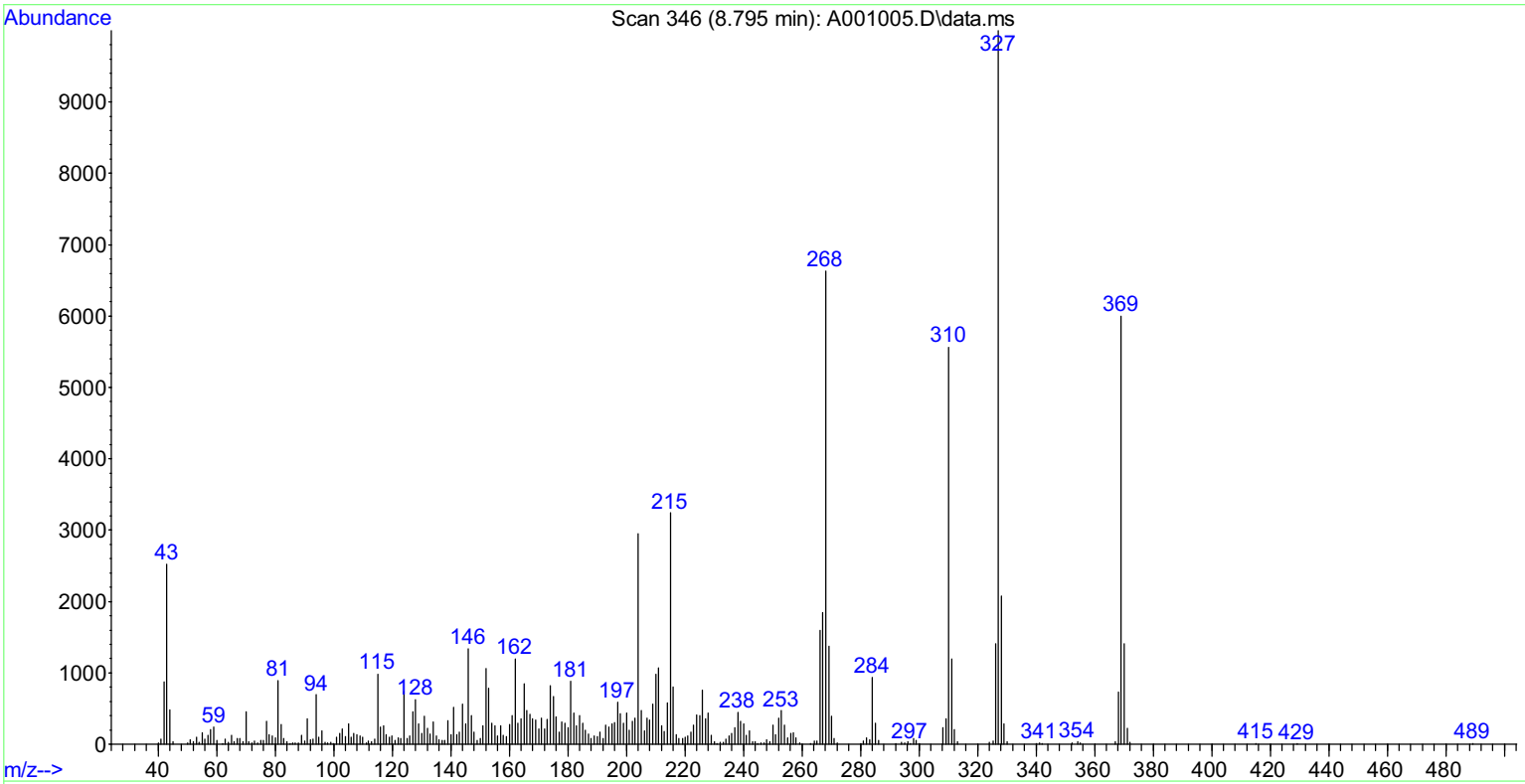


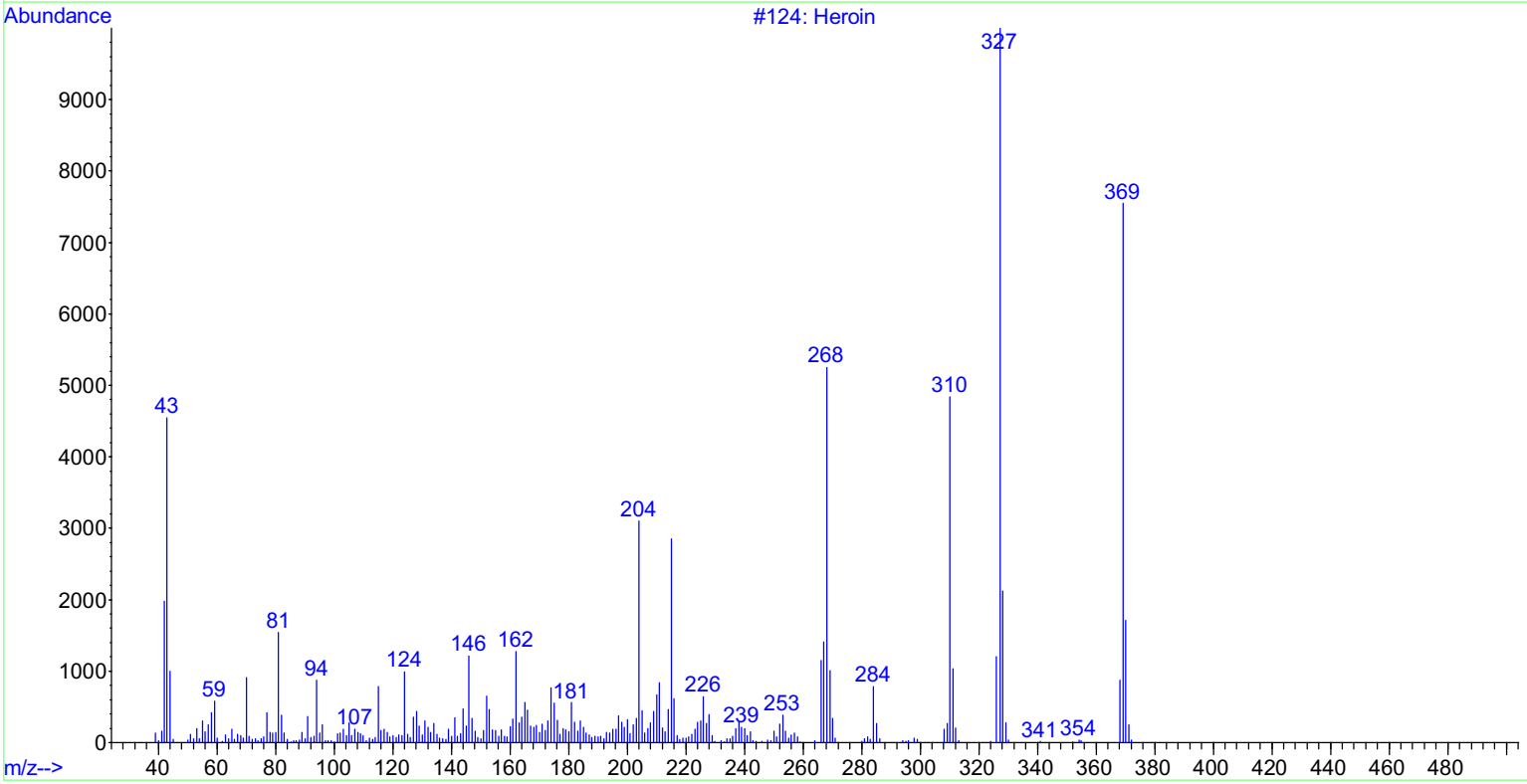
File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\011325\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 13 Jan 2025 9:40 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



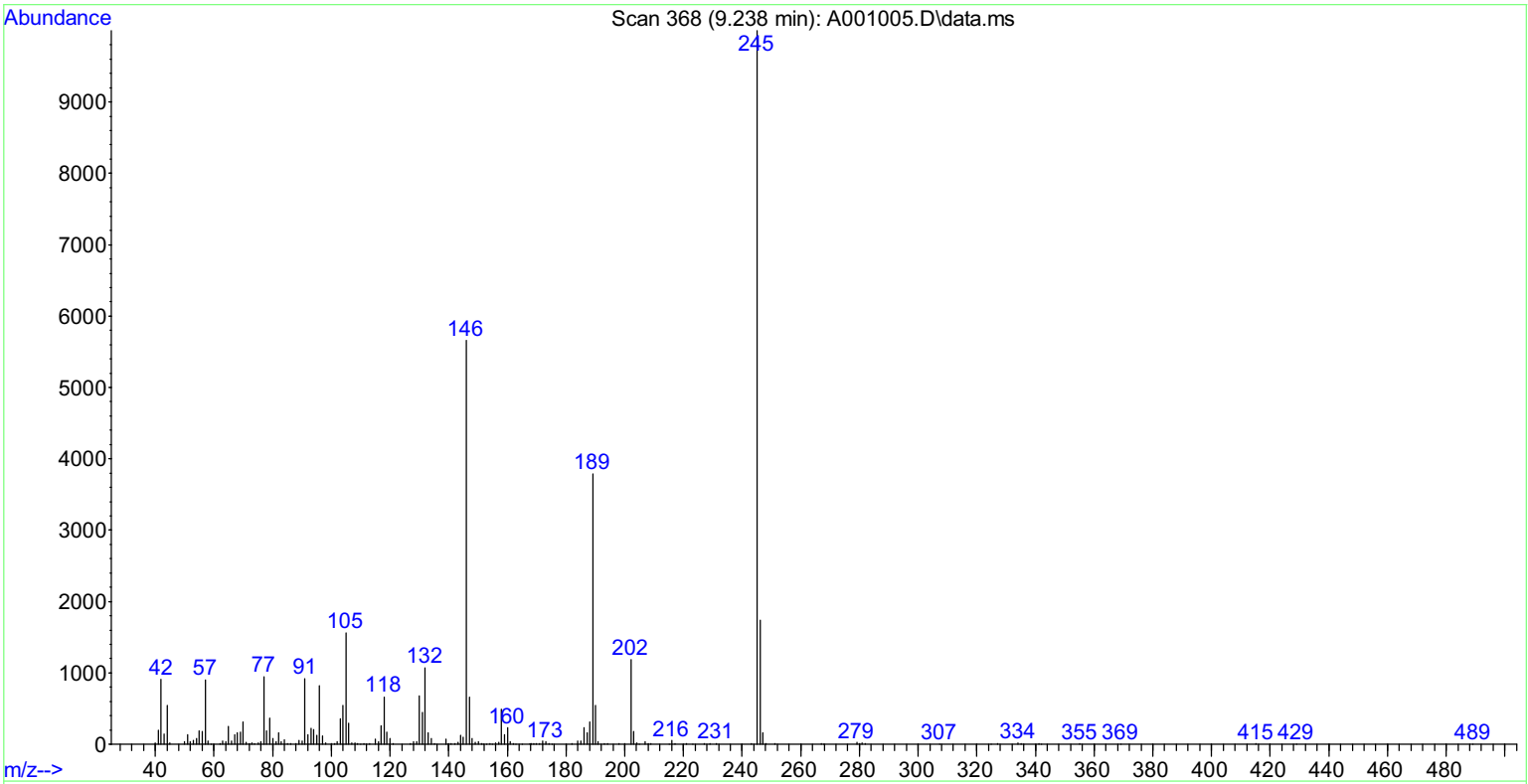


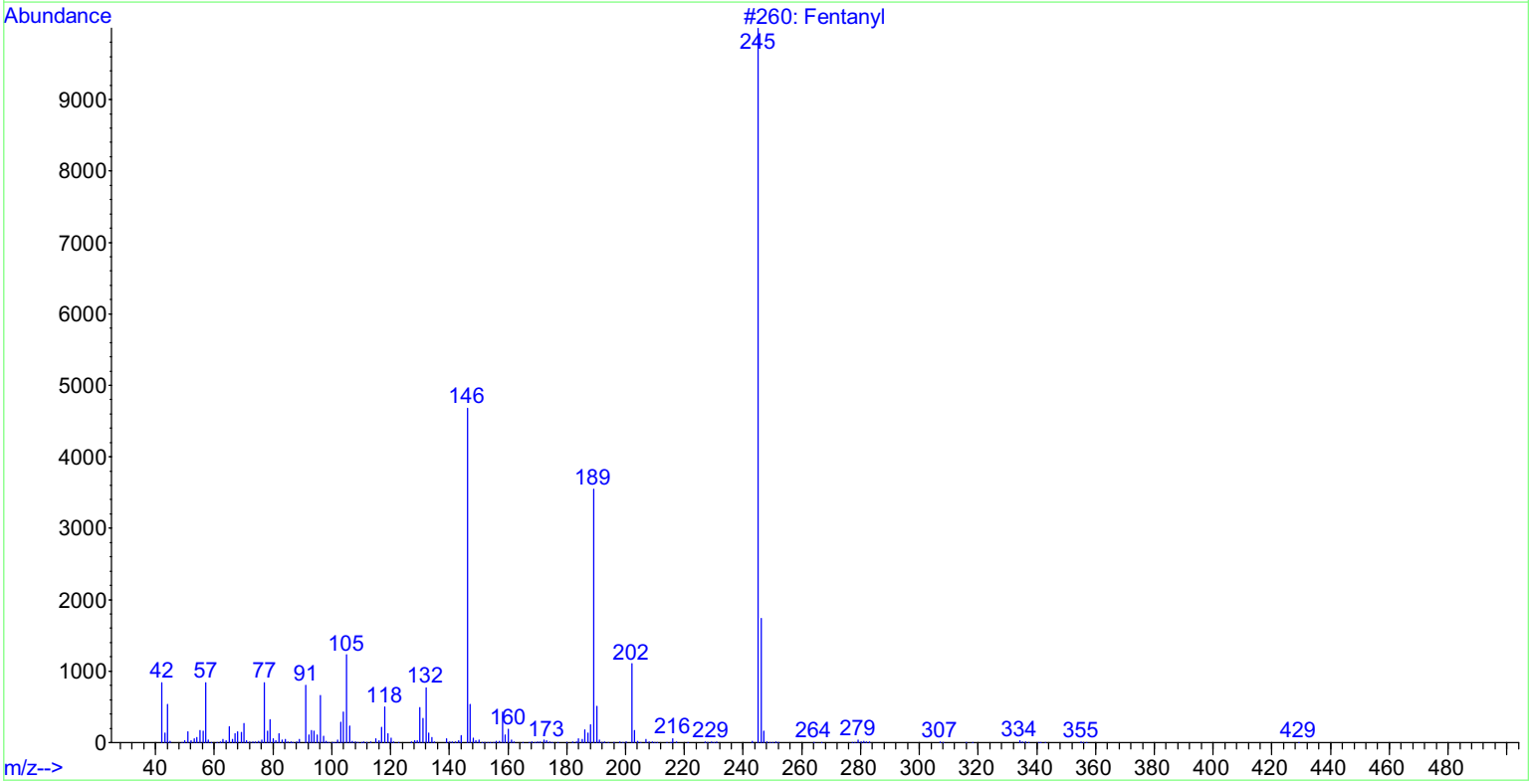
File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\011325\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 13 Jan 2025 9:40 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



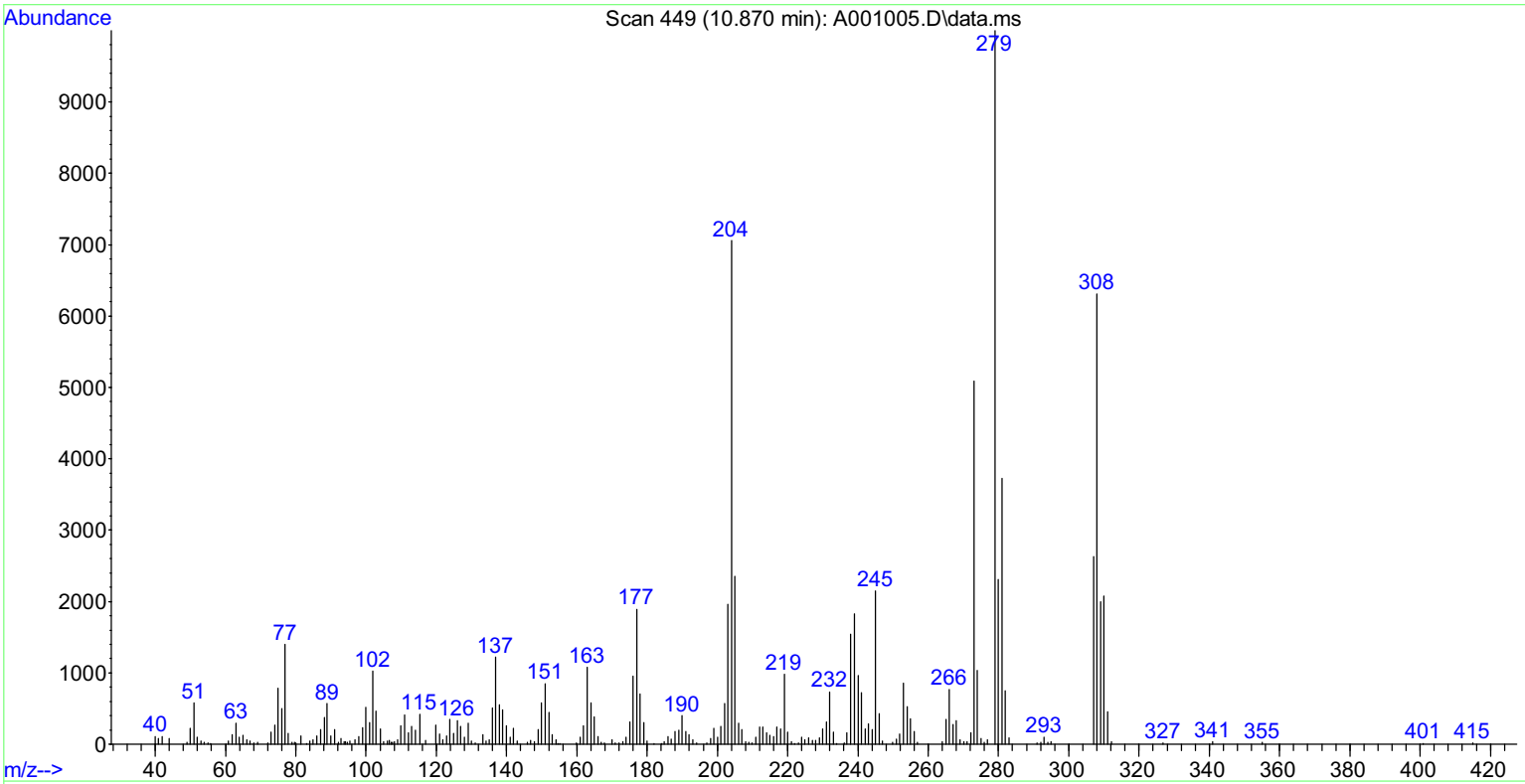


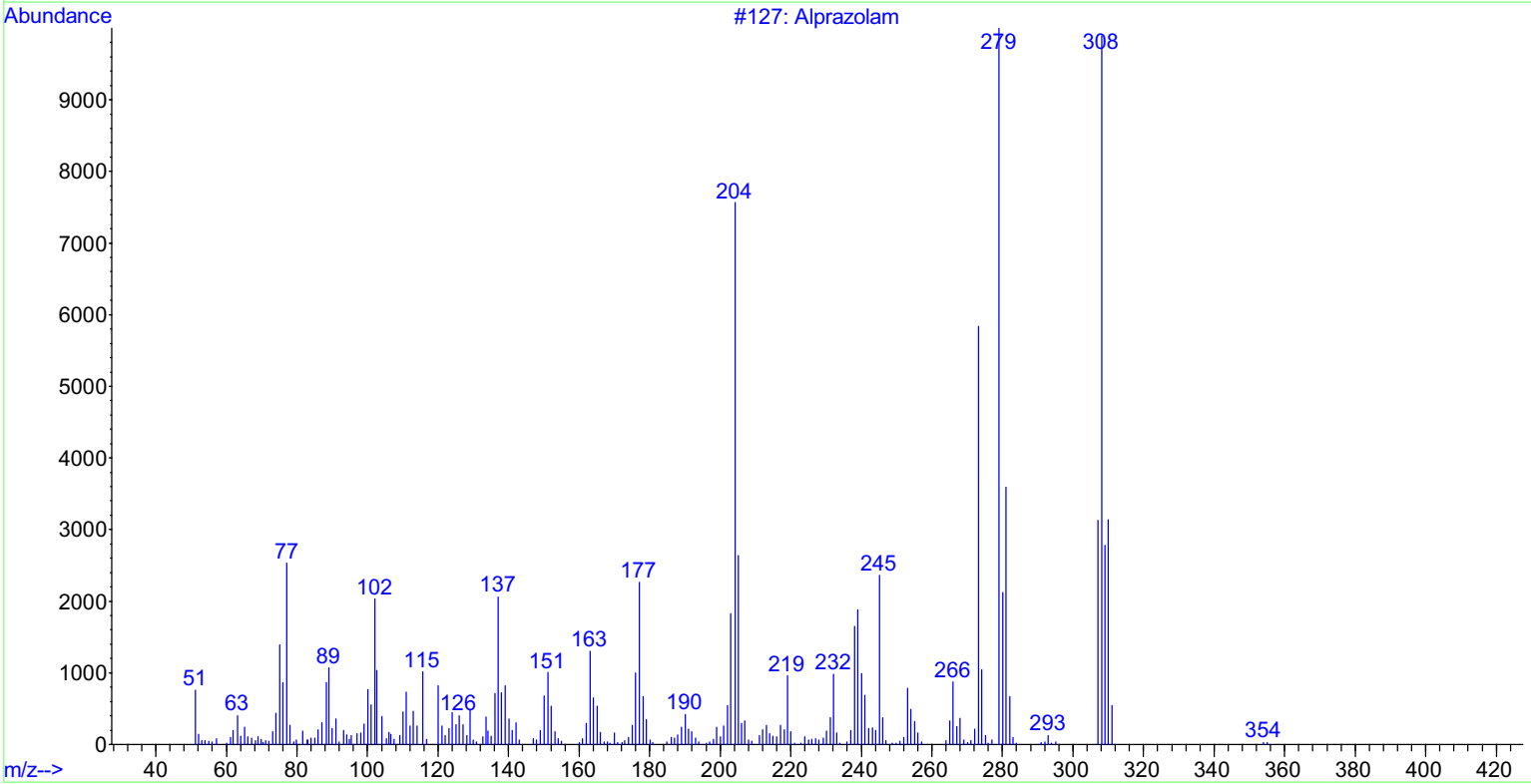
File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\011325\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 13 Jan 2025 9:40 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



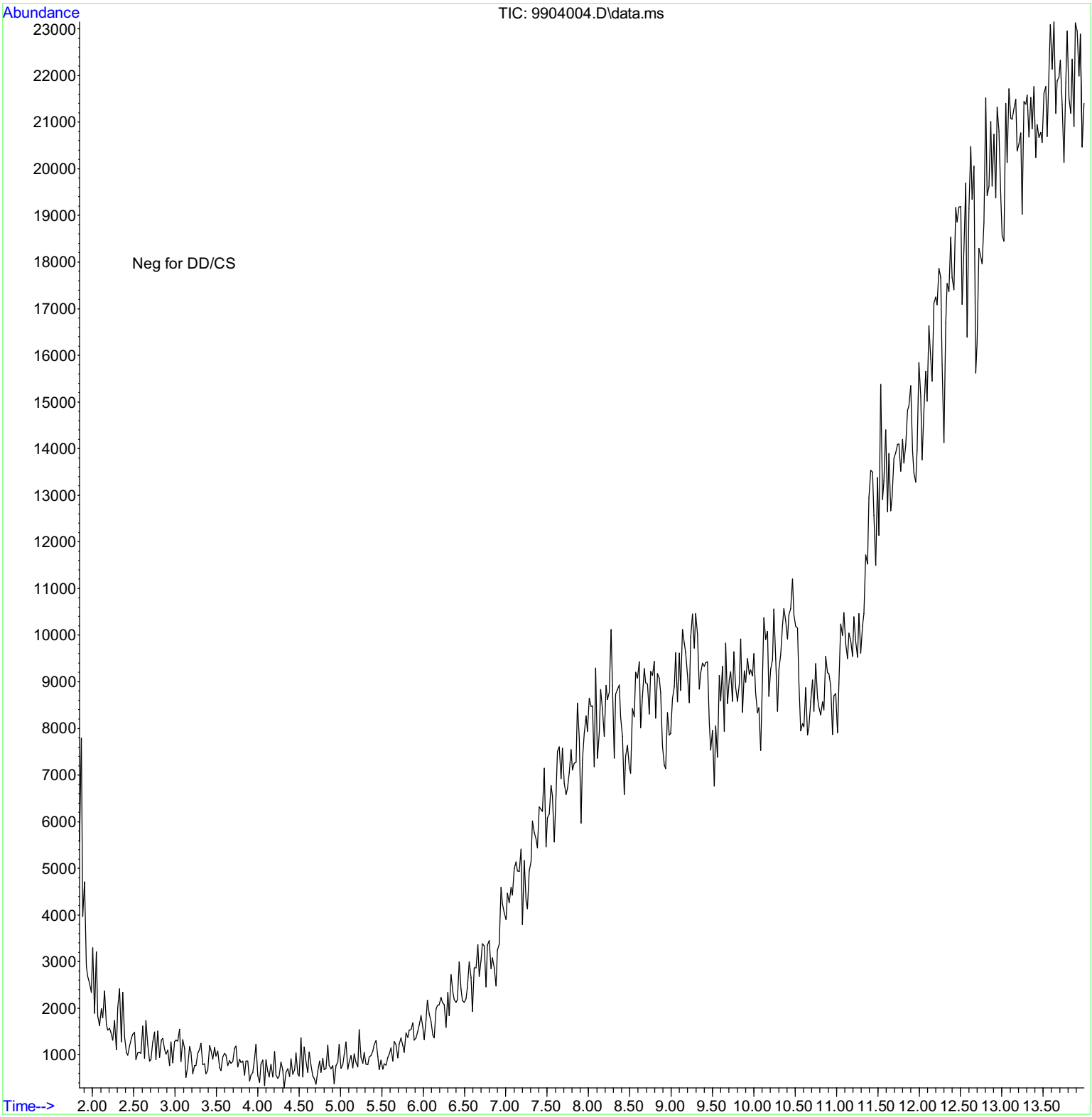


File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\011325\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 13 Jan 2025 9:40 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN

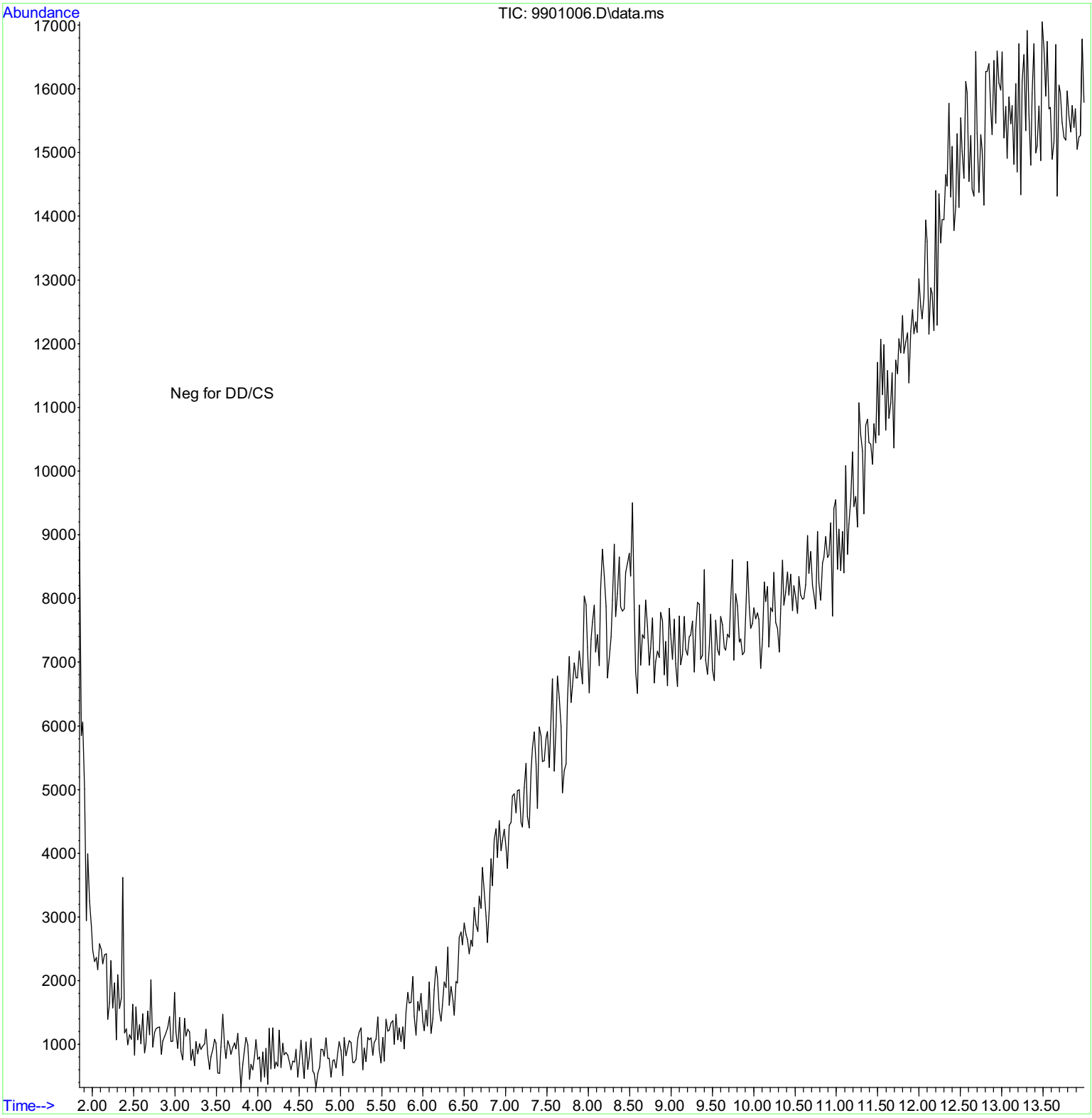




File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\011325\9904004.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 13 Jan 2025 9:22 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK PRIOR TO CAYMAN GC/MS 000002664
Misc Info : ACN (C-19-0068)



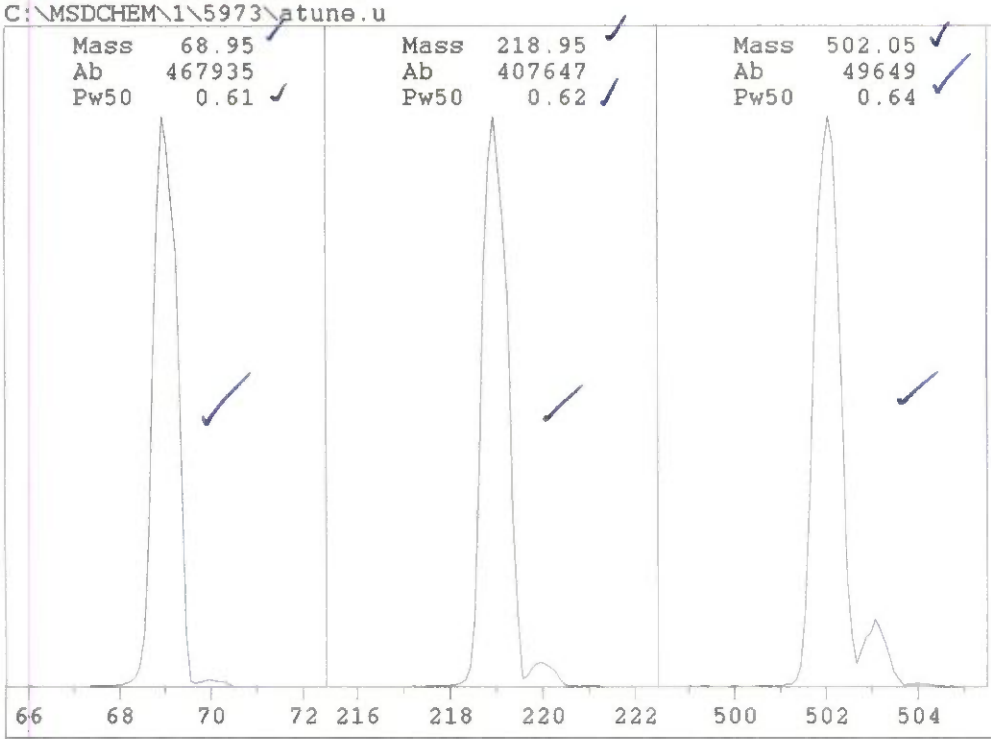
File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\011325\9901006.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 13 Jan 2025 9:58 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK - INSTRUMENT READY 000002664
Misc Info : ACN (C-19-0068)



5973 Autotune

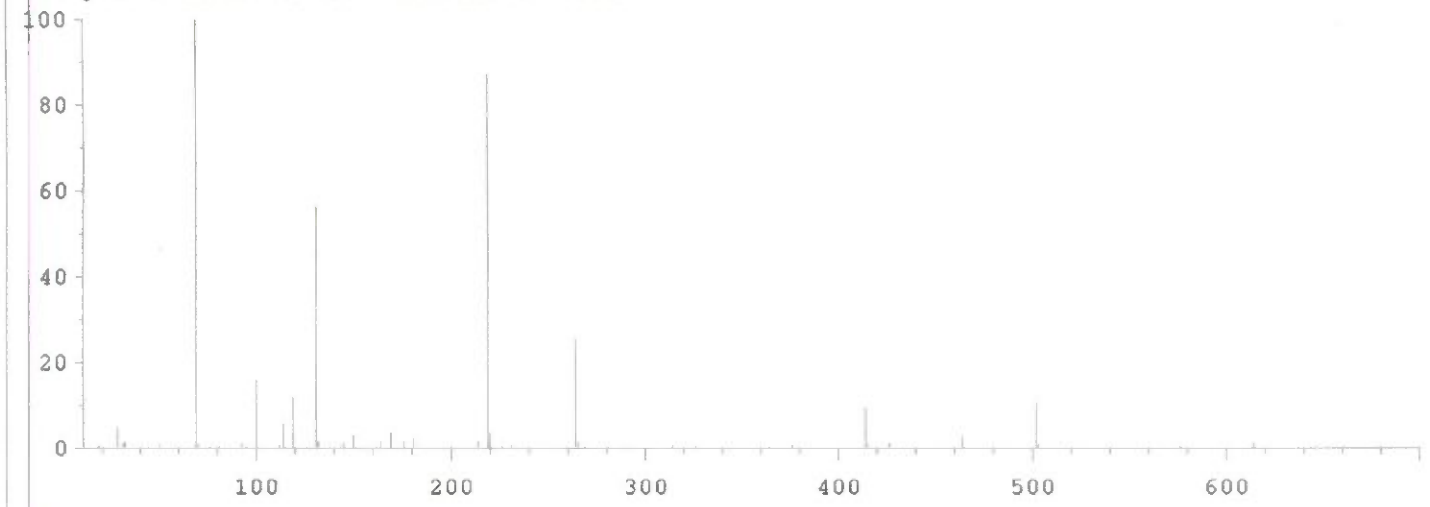
Tue Jan 14 14:29:29 2025 Instrument: SD GCMS 1

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



Ion Pol	POS	MassGain	364
		MassOffs	-11
Emission	34.6	AmuGain	2441
EIEnrgy	69.9	AmuOffs	122
Filament	1	Wid219	-0.028
		DC Pol	POS
Repeller	28.95		
IonFcus	89.2	HEDEnab	ON
EntLens	14.5	EMVolts	1624
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
144 peaks Base: 69.05 Abundance: 415296



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.05	415296	100.00	69.95	4200	1.01
218.95	362688	87.33	219.95	15249	4.20
502.05	45976	11.07	503.05	4739	10.31

Air/Water Check: H20~0.67% N2~4.83% O2~1.54% CO2~0.09% N2/H2O~717.82%

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

Ramp Criteria:
Ion Focus Maximum 90 volts using ion 502; EM Gain 167197
Repeller Maximum 35 volts using ion 219;

MassGain Values @Samples: 363@3 363@2 363@1 363@0 364@FS

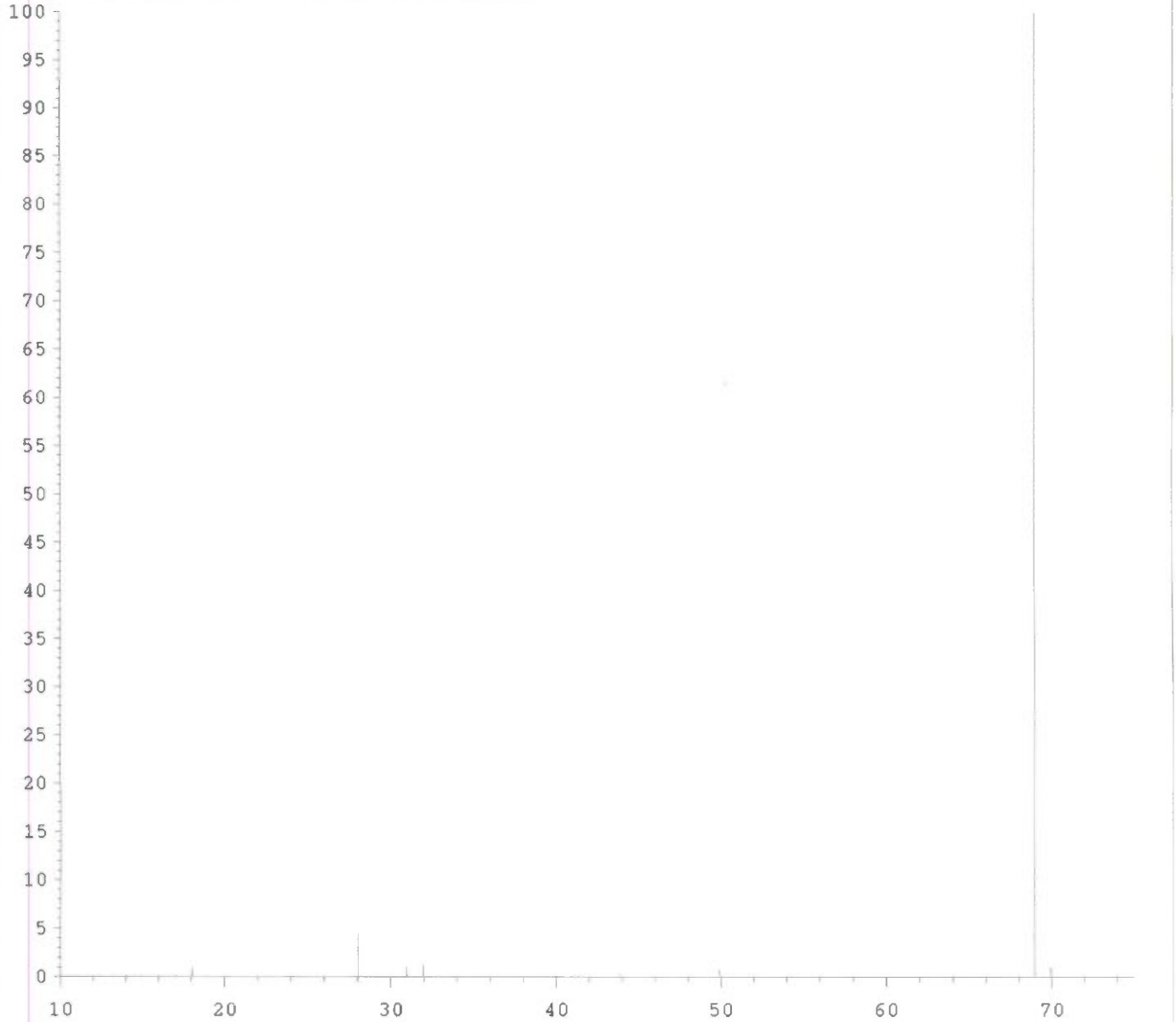
TARGET MASS:	50	69	131	219	414	502	800
Amu Offset:	122.0	122.0	122.0	122.0	122.0	122.0	122.0
Entrance Lens Offset:	18.1	18.1	18.1	18.1	18.1	18.1	18.1

JS
OK

597x Air and Water Check

Instrument: SD GCMS 1
Tue Jan 14 14:01:59 2025 C:\msdchem\1\5973\

Scan: 10.00 - 75.00 Samples: 8 Thresh: 0 Step: 0.10
74 peaks Base: 68.95 Abundance: 632640



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
68.95	632640	100.00	69.95	6485	1.03
18.05	5428	0.86	19.05	171	3.15
28.05	28304	4.47	29.05	342	1.21

Current Params used: atune.u

Relative abundances:

18/69 =	0.86	Water%
28/69 =	4.47	Nitrogen%
32/69 =	1.29	Oxygen%
44/69 =	0.29	Carbon Dioxide%
28/18 =	521.44	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	218.95	Ok
Position of mass 502	502.04	Ok
Position of isotope mass 70	70.04	Ok
Position of isotope mass 220	219.96	Ok
Position of isotope mass 503	503.01	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%)	4.28	Ok
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.03	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	10.92	Ok
Mass 69 Precursor (<= 3%)	0.21	Ok
Mass 219 Precursor (<= 6%)	0.34	Ok
Mass 502 Precursor (<= 12%)	0.48	Ok
Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	0.64	Ok
Ratio of 28 to 69 (<10%)	4.64	Ok
Electron Multiplier Voltage	1624	Ok

Tune portion of System Verification passed.

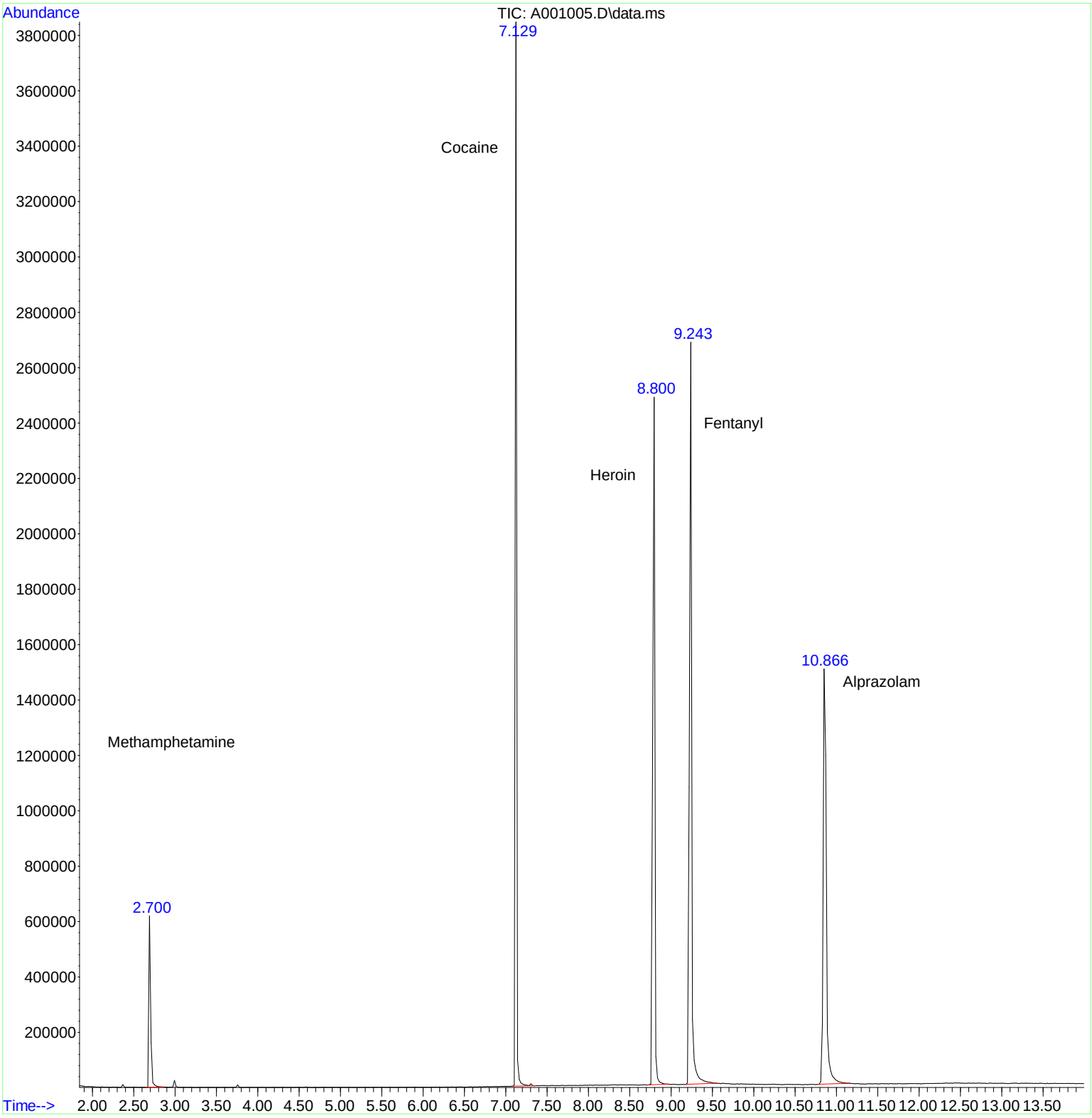
BCCL GC/MS #1
Retention Times for the Week of:

01/14/2024 - 01/19/2025

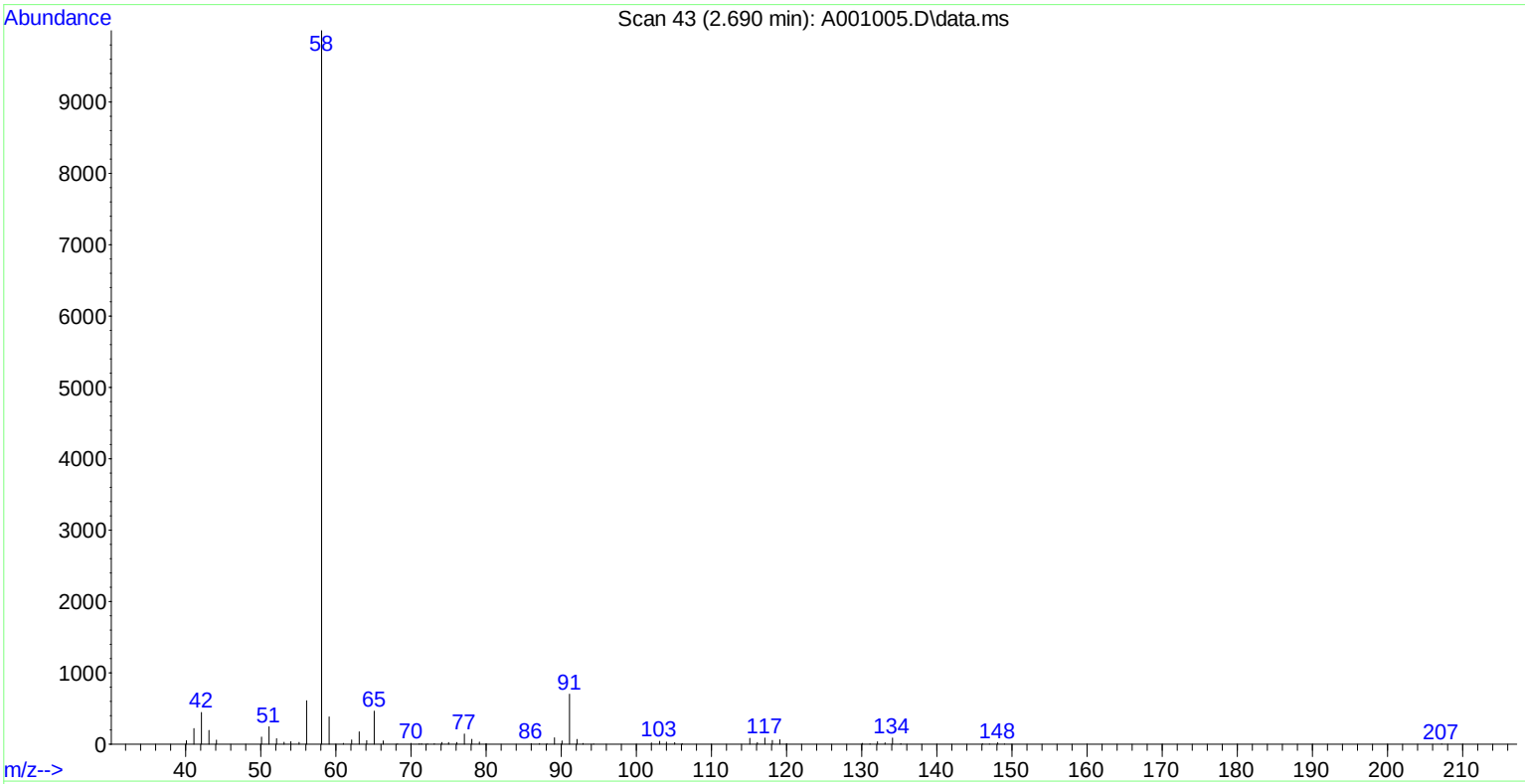
[x] **Tune: 01/14/2024 - Autotune DS**

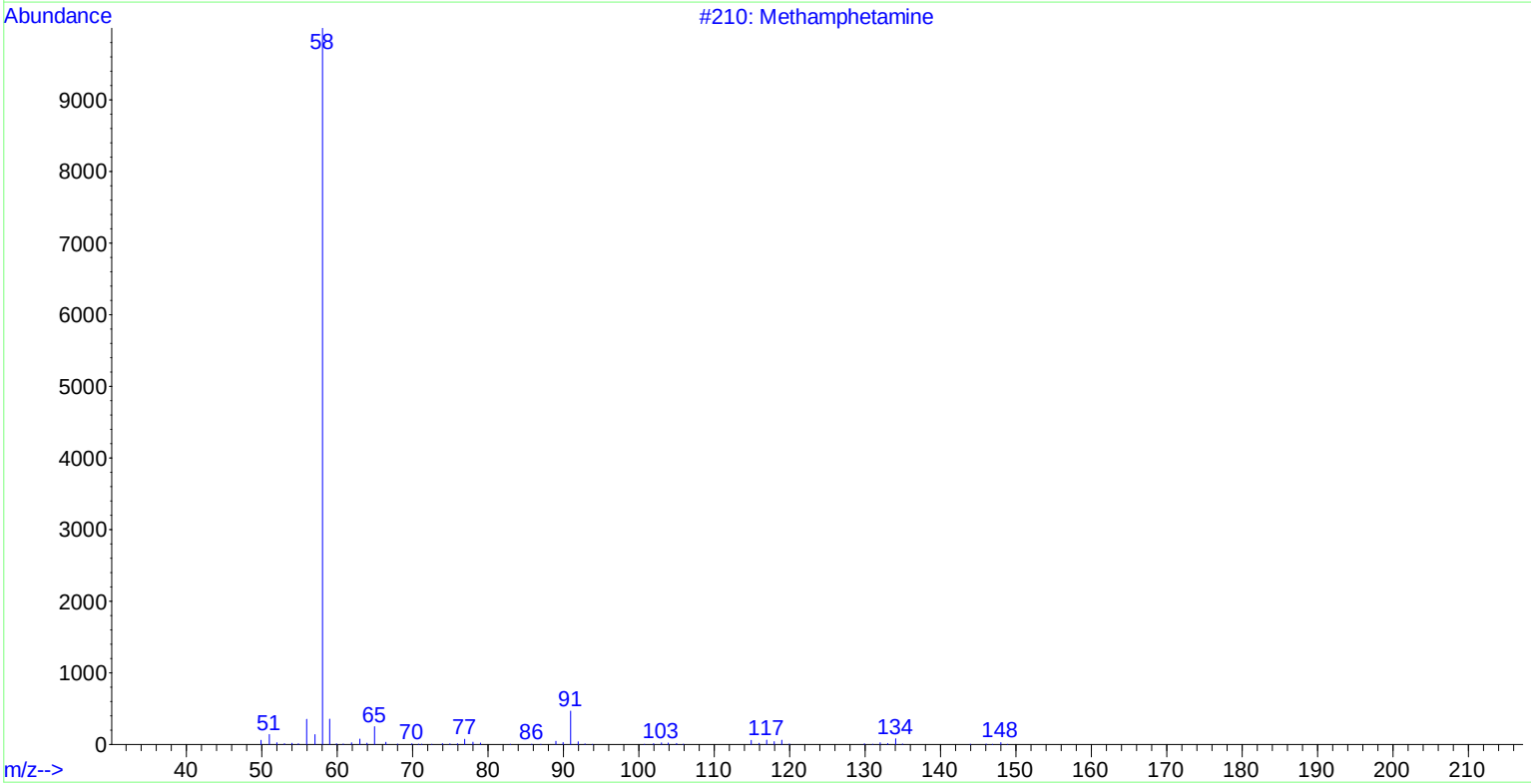
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	BCCL GenDrug	2.700	2.673	2.727
Cocaine	R-24-060	BCCL GenDrug	7.129	7.057	7.200
Heroin	R-24-060	BCCL GenDrug	8.800	8.712	8.888
Fentanyl	R-24-060	BCCL GenDrug	9.243	9.150	9.335
Alprazolam	R-24-060	BCCL GenDrug	10.866	10.757	10.974
Switch to filament 1 due to filament 2 burnout					

File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\011425\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 14 Jan 2025 15:30 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN

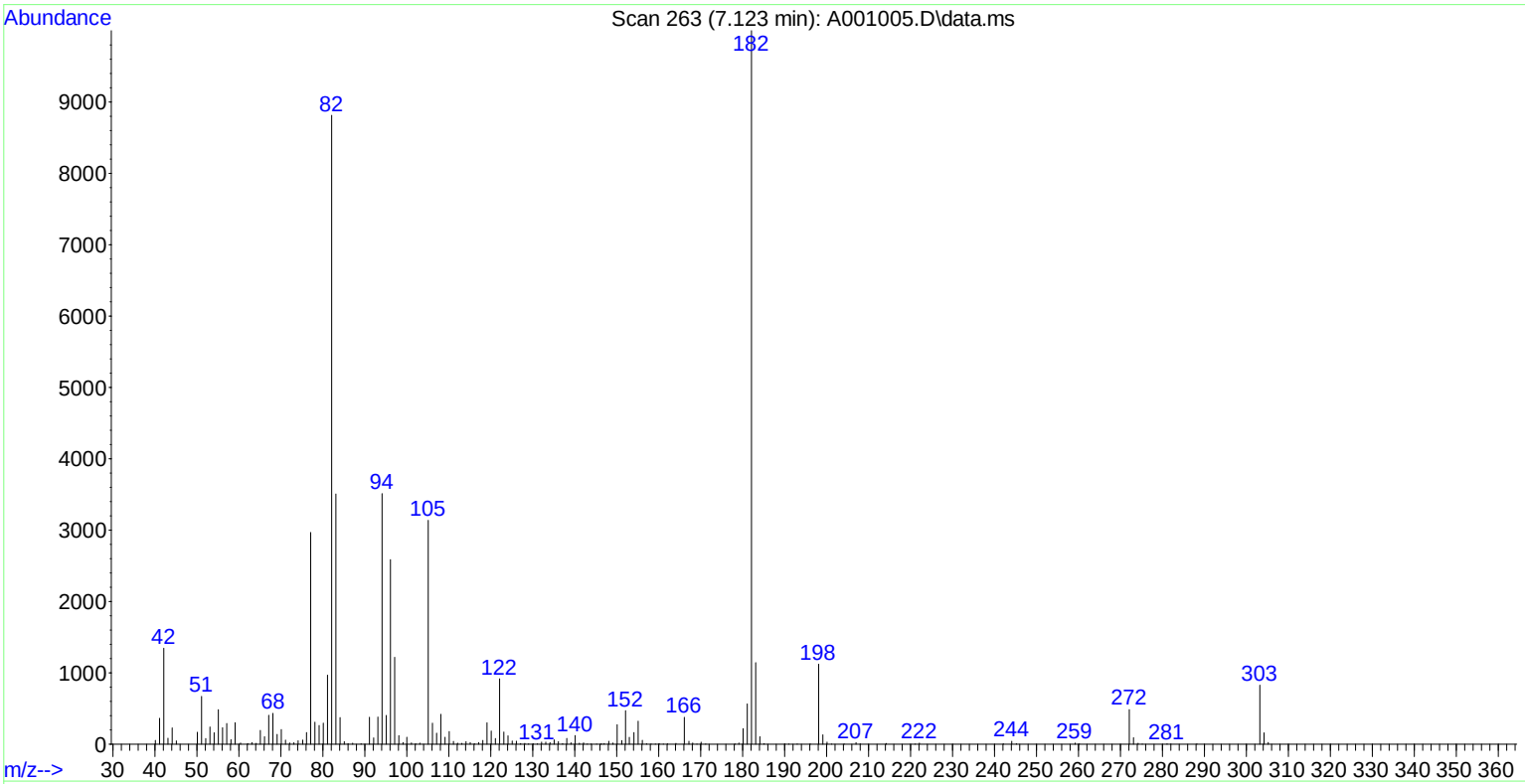


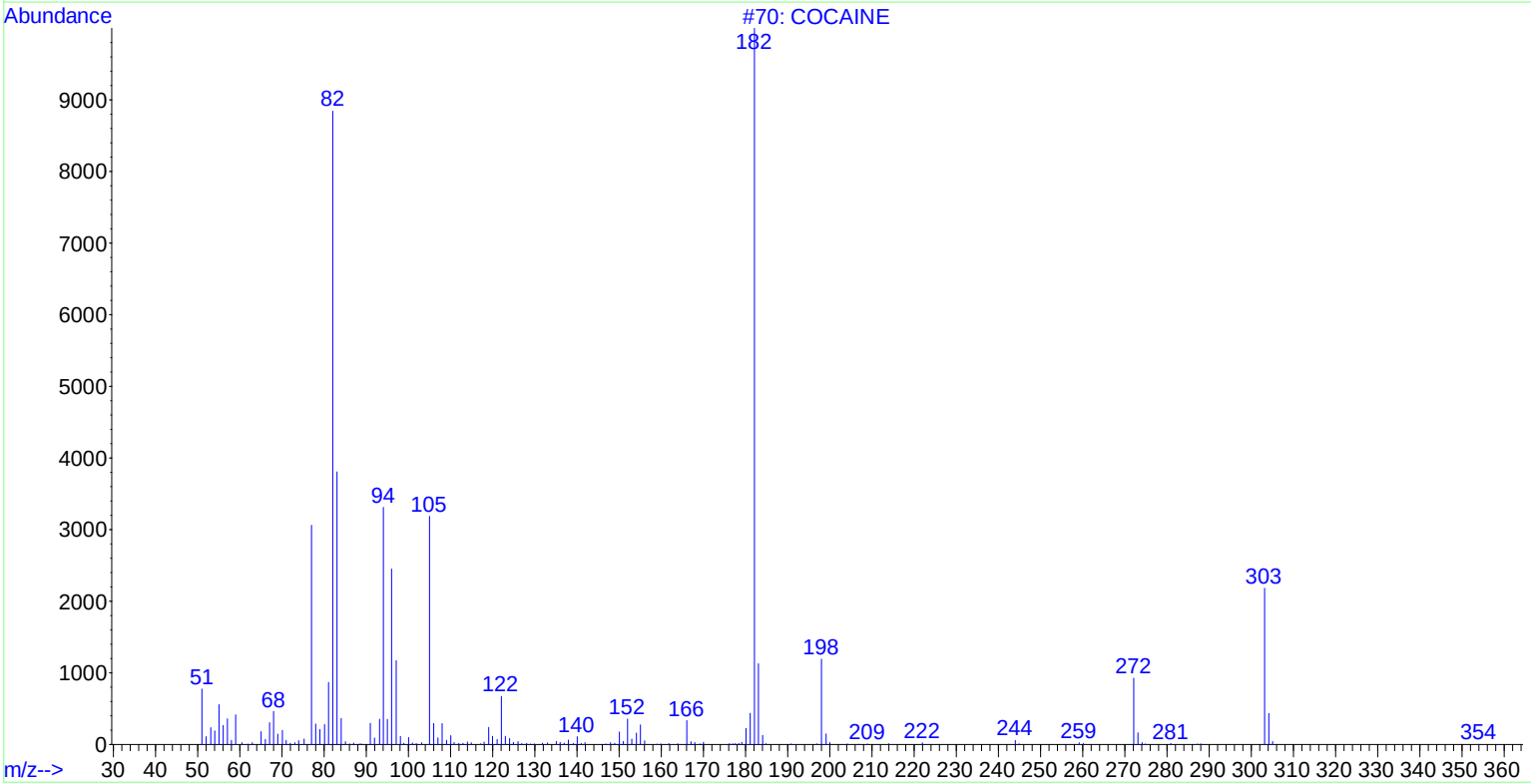
File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\011425\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 14 Jan 2025 15:30 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



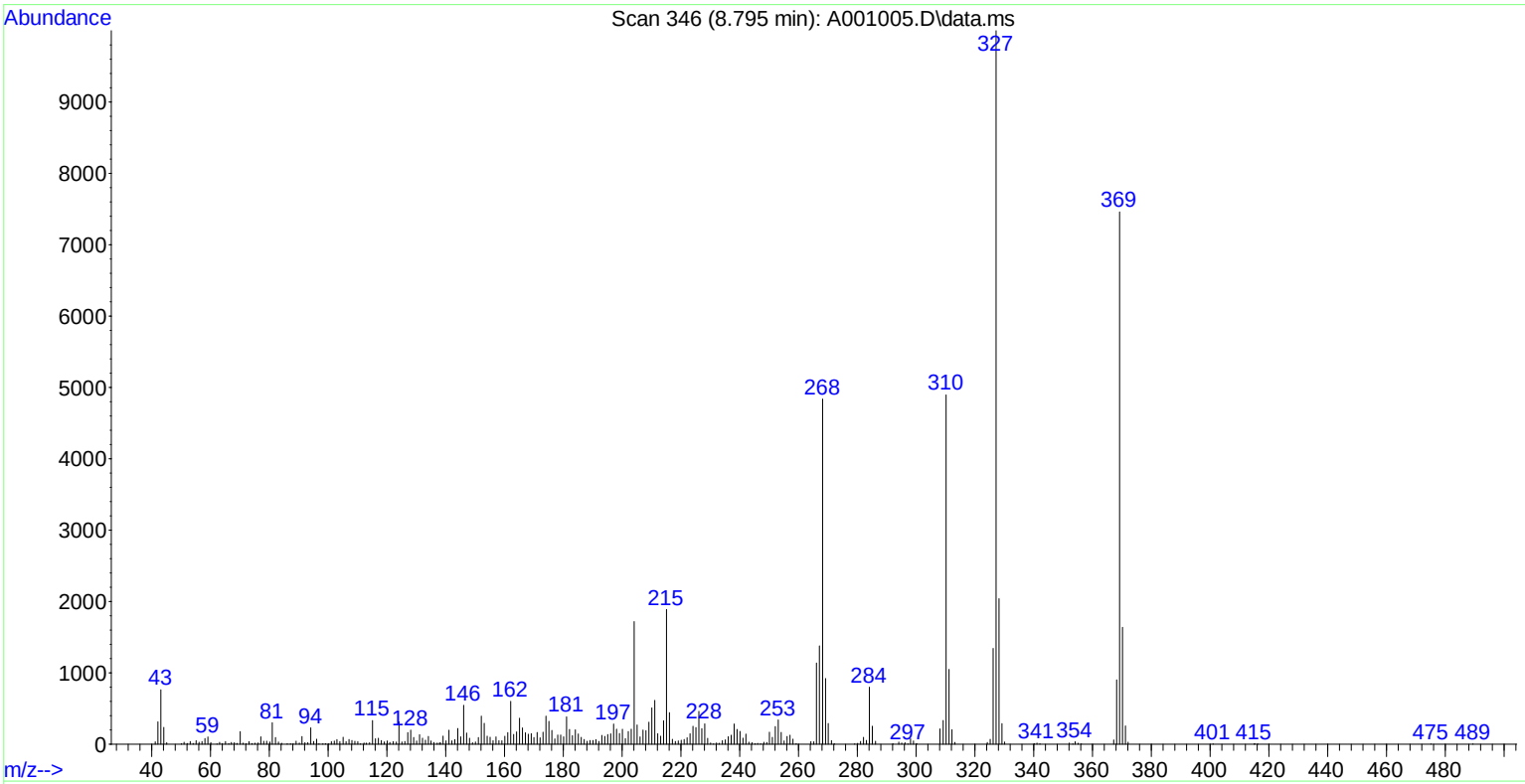


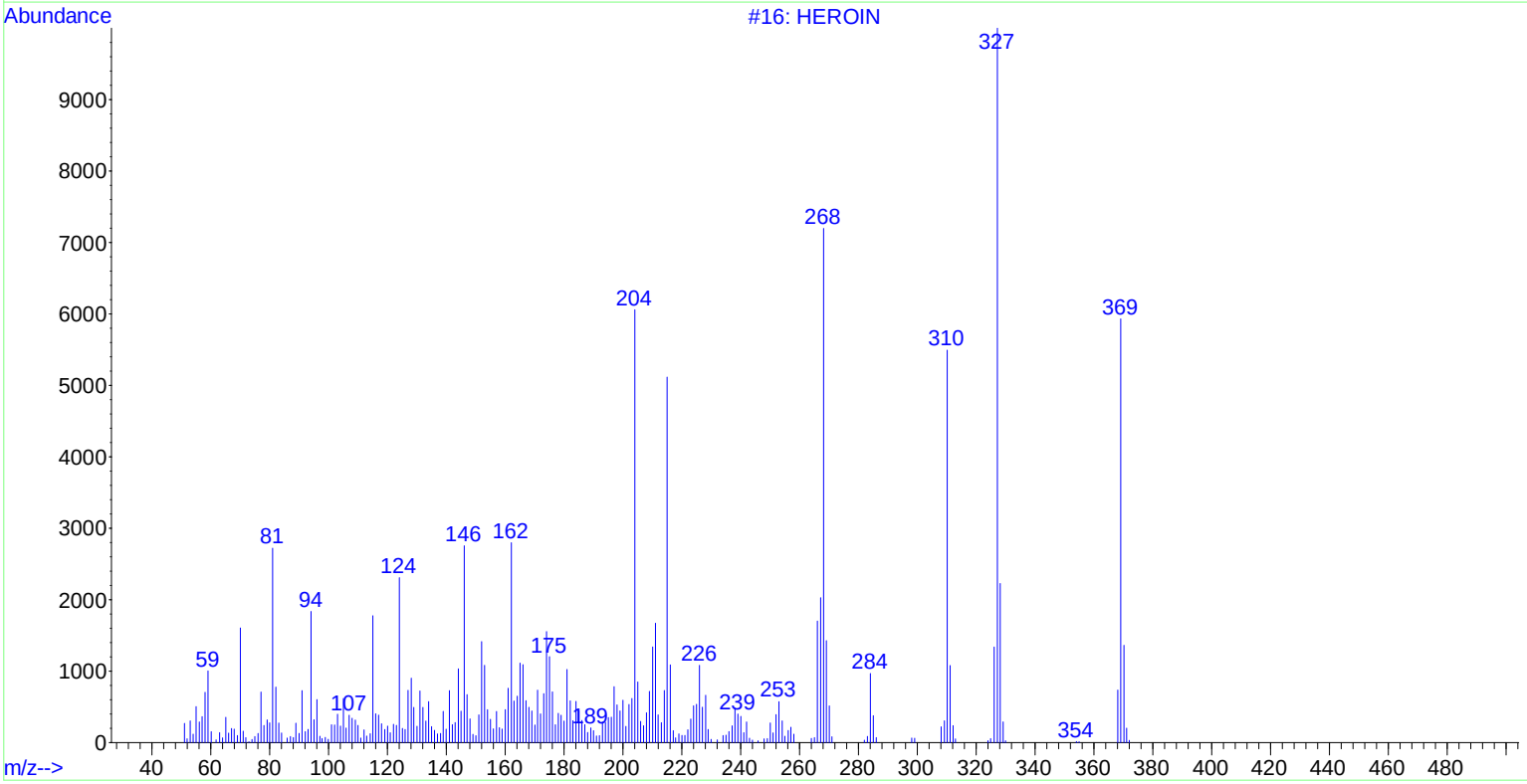
File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\011425\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 14 Jan 2025 15:30 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



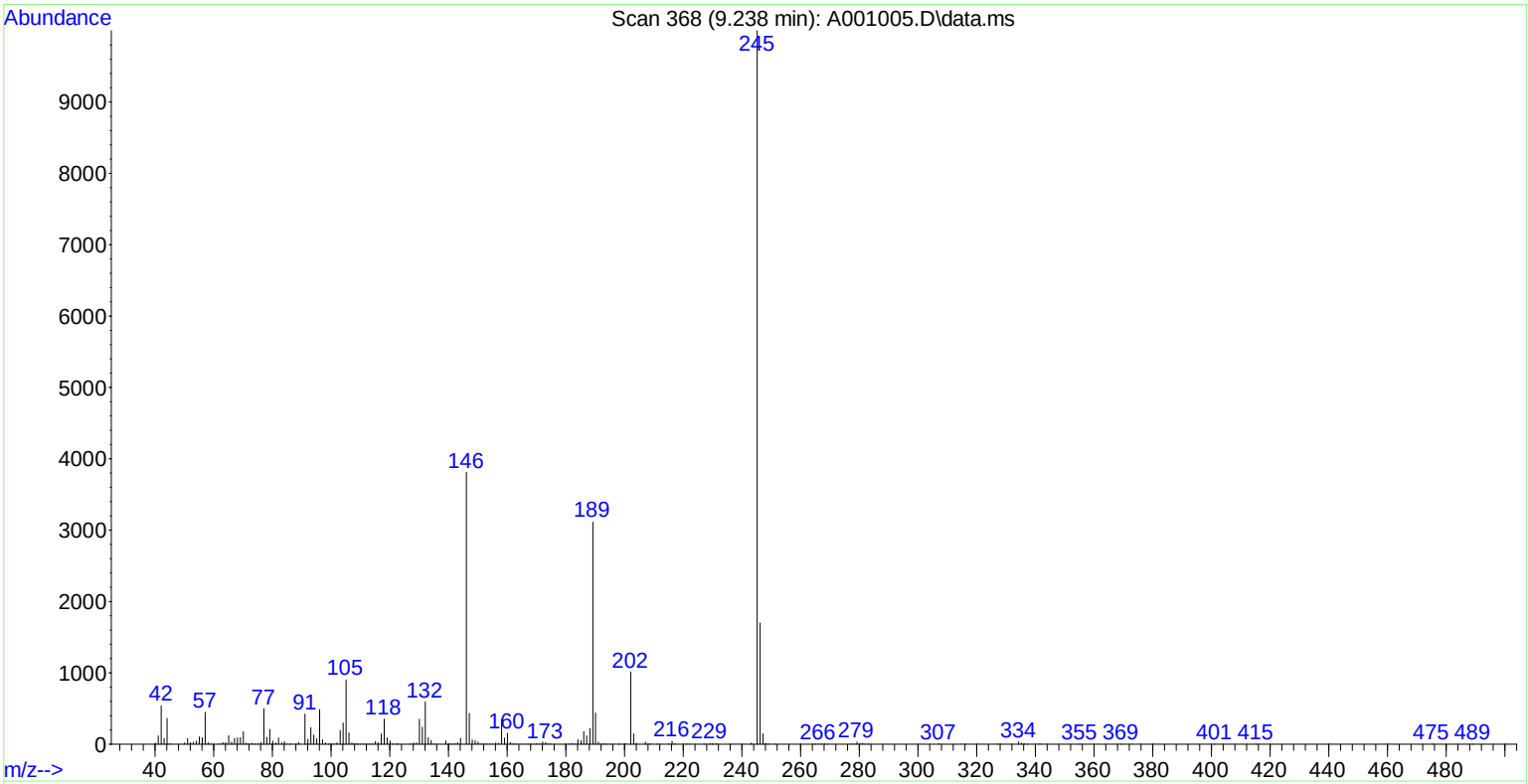


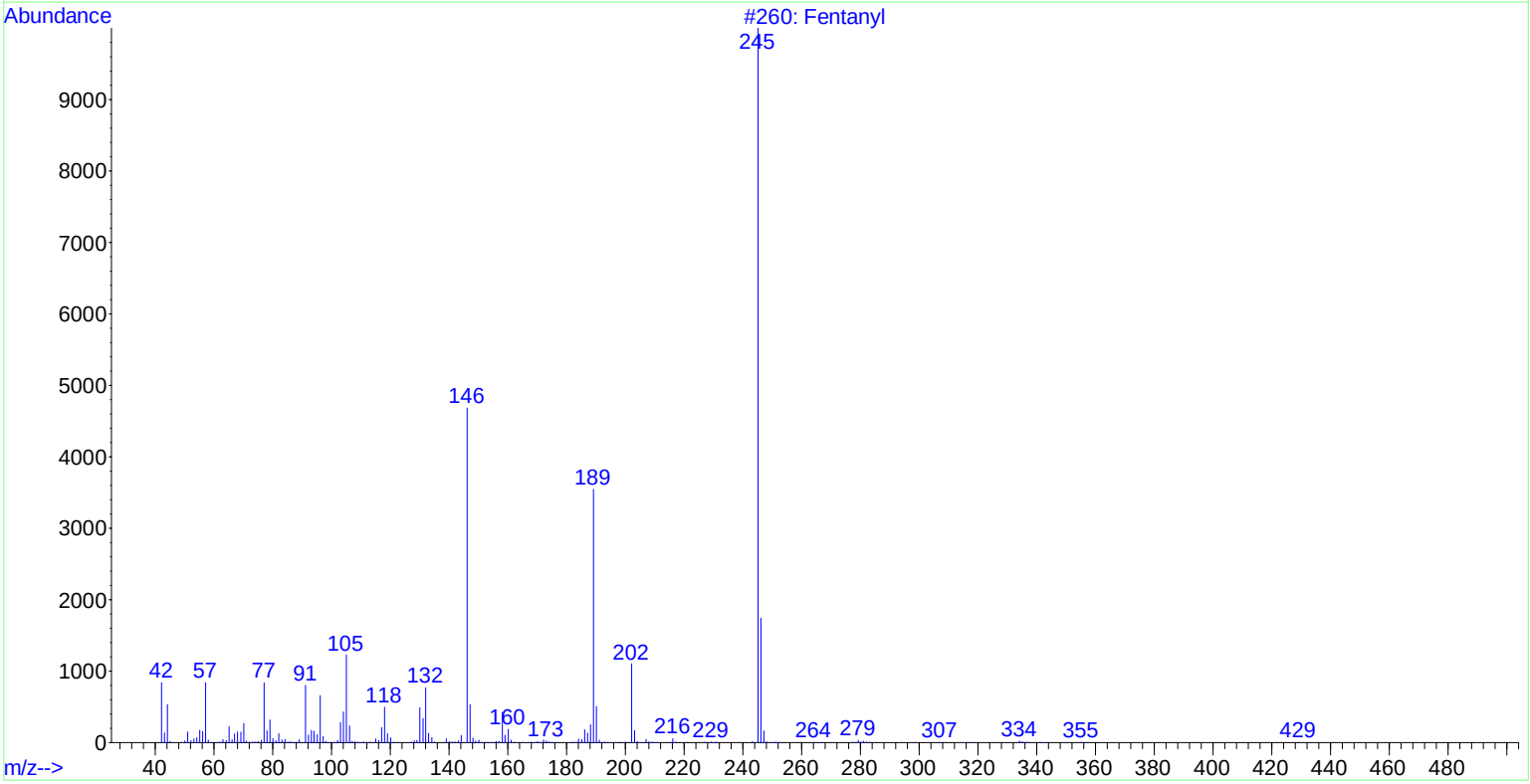
File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\011425\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 14 Jan 2025 15:30 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



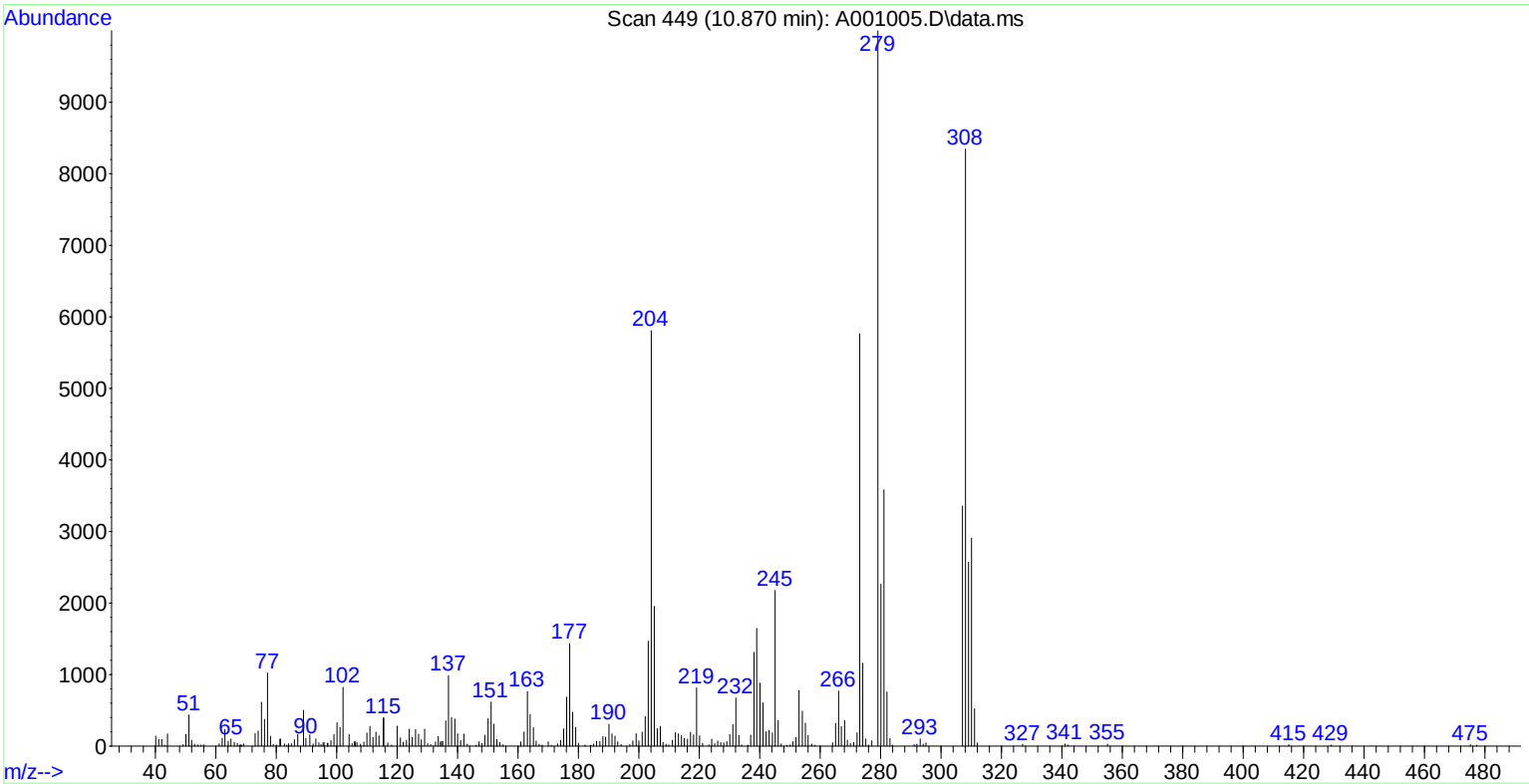


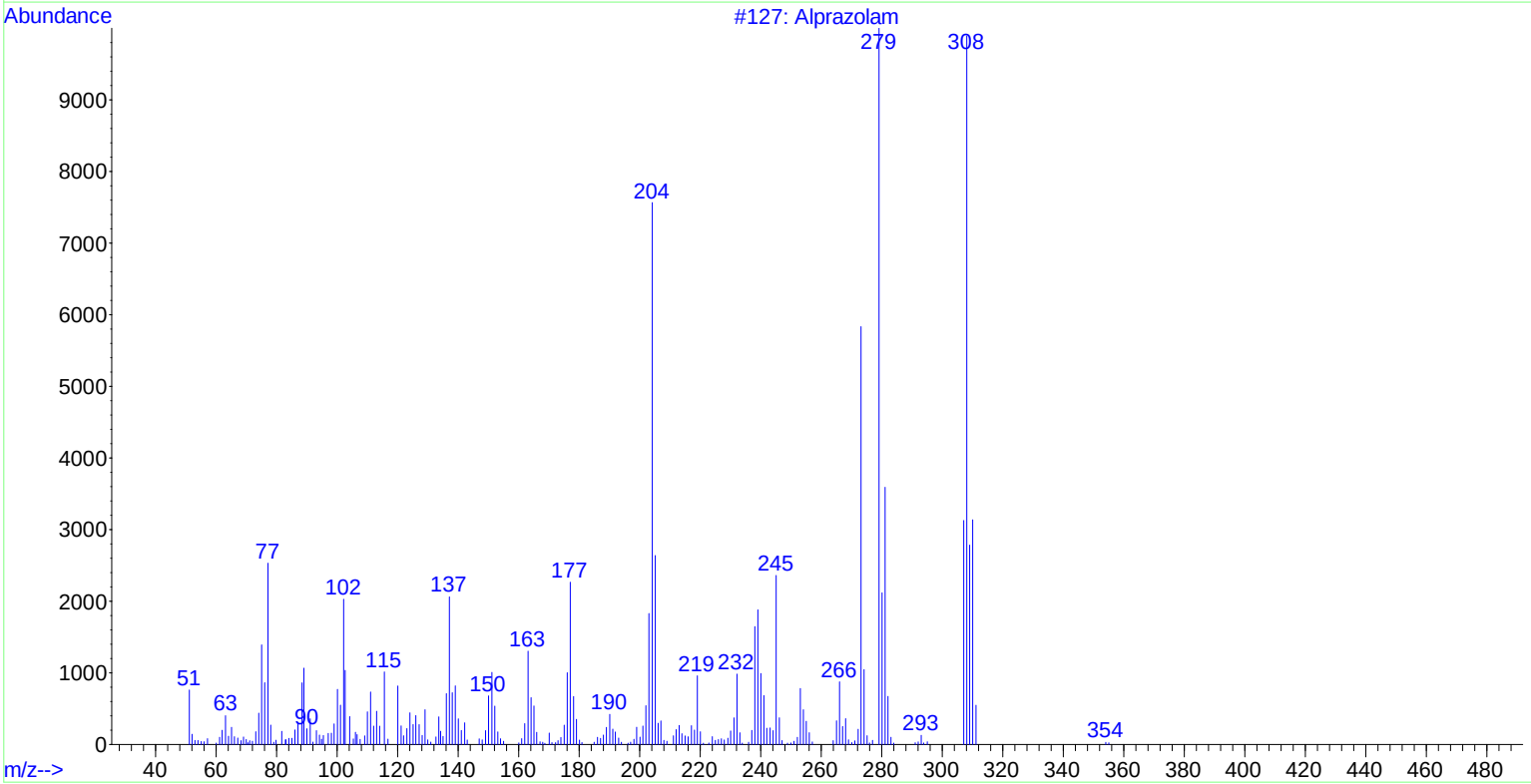
File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\011425\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 14 Jan 2025 15:30 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



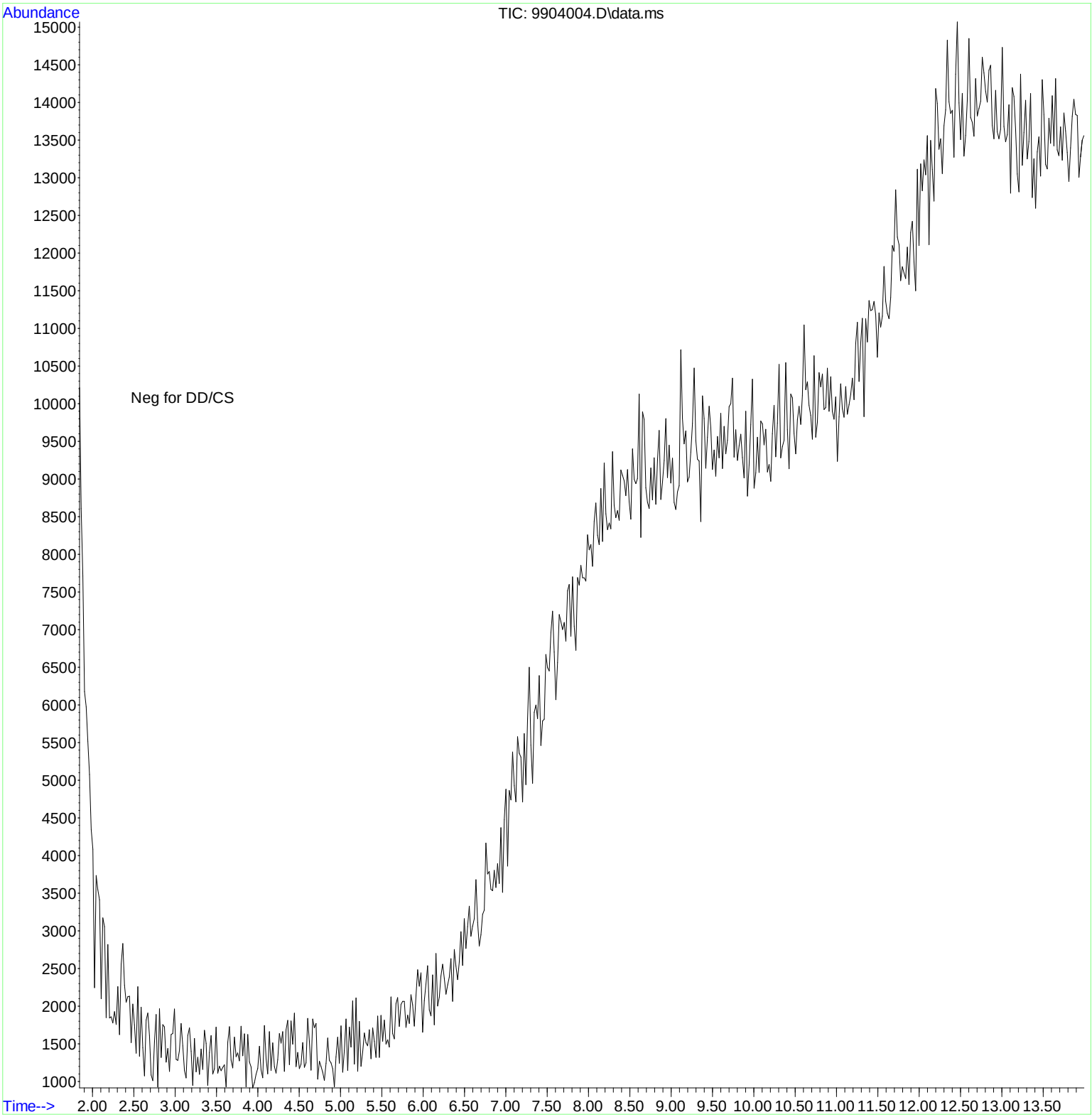


File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\011425\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 14 Jan 2025 15:30 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN

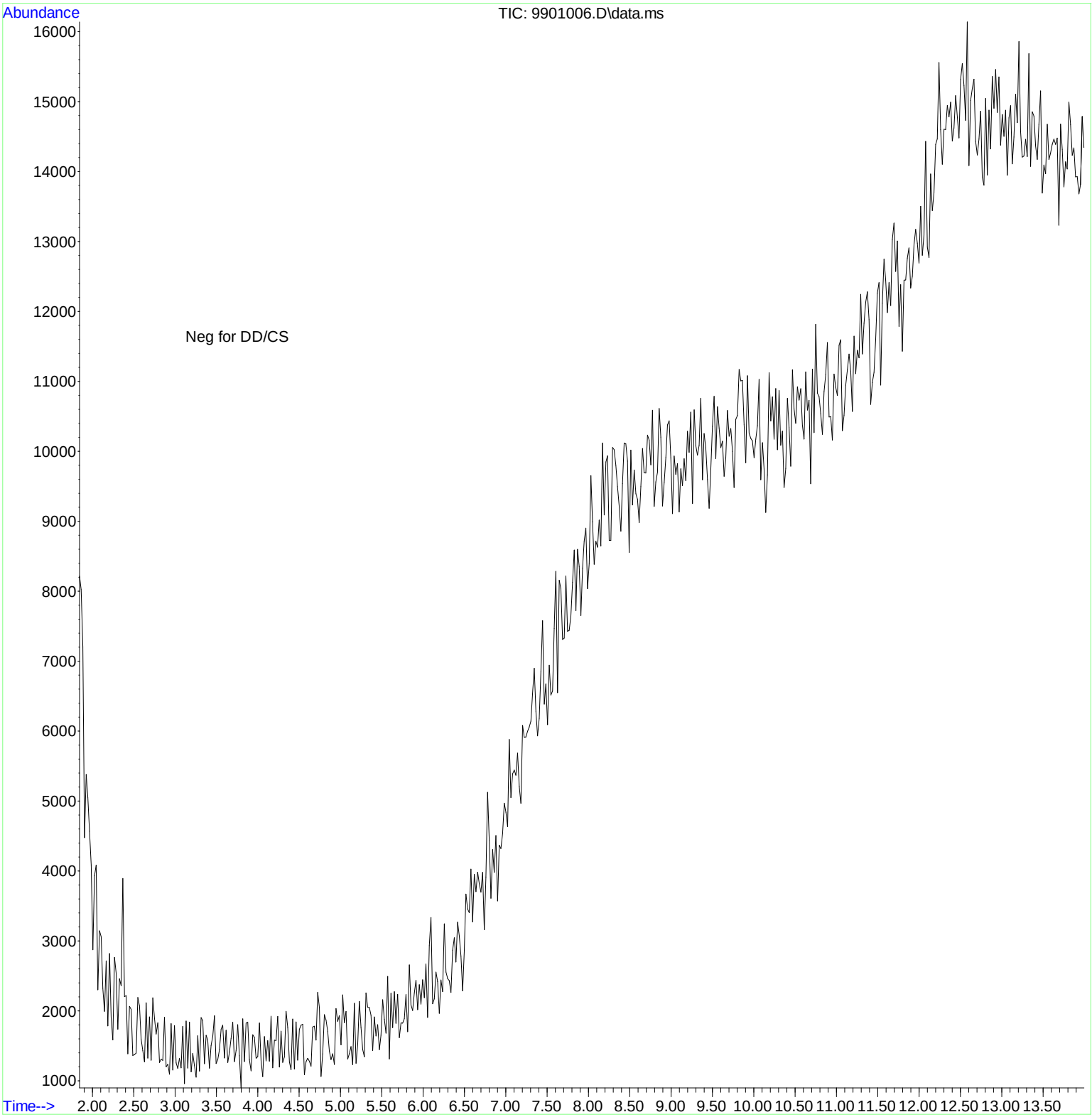




File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\011425\9904004.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 14 Jan 2025 15:13 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK PRIOR TO CAYMAN GC/MS 000002664
Misc Info : ACN (C-19-0068)



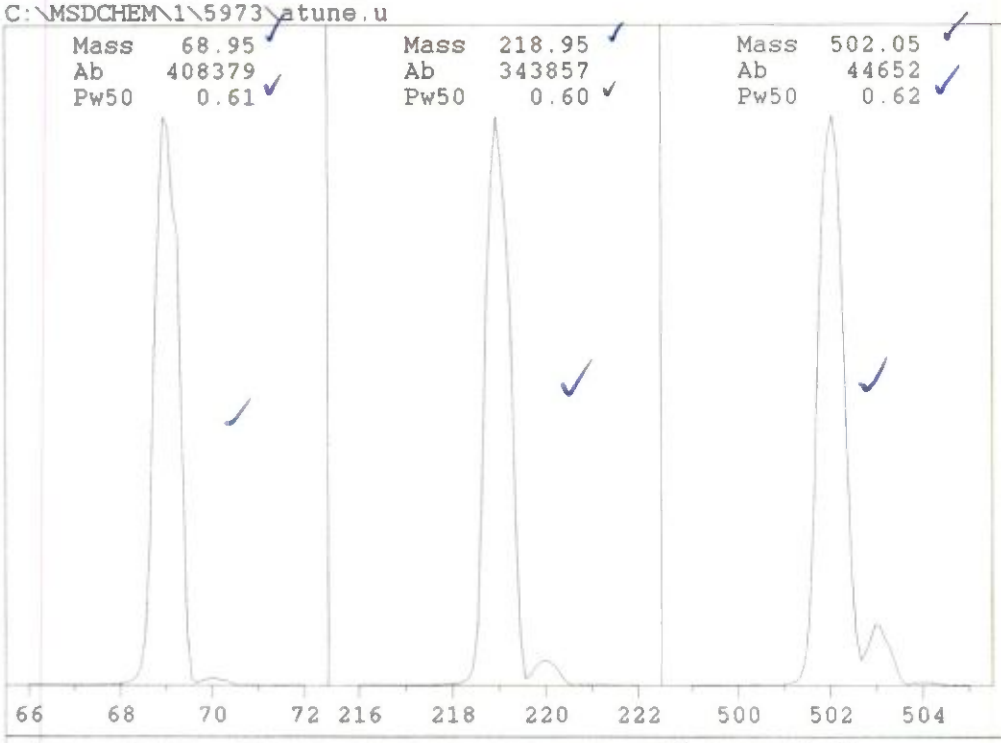
File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\011425\9901006.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 14 Jan 2025 15:48 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK - INSTRUMENT READY 000002664
Misc Info : ACN (C-19-0068)



5973 Autotune

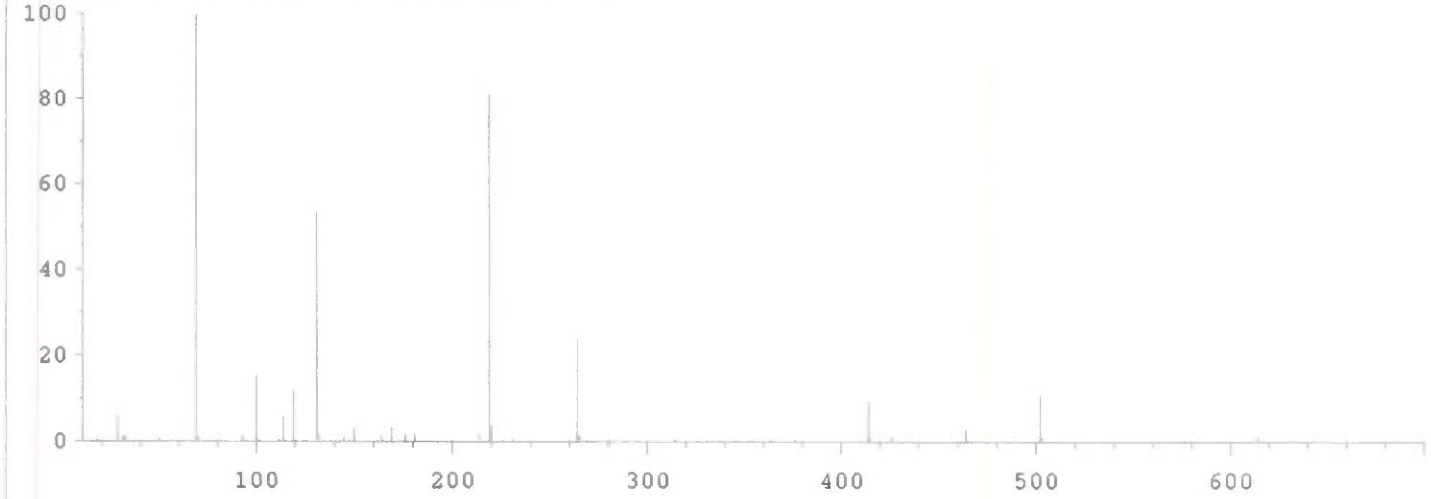
Fri Jan 24 09:17:49 2025
C:\MSDCHEM\1\5973\atune.u

Instrument: SD GCMS 1



Ion Pol	POS	MassGain	364
		MassOffs	-11
Emission	34.6	AmuGain	2441
EIEnrgy	69.9	AmuOffs	122
Filament	1	Wid219	-0.031
		DC Pol	POS
Repeller	28.95		
IonFcus	90.2	HEDEnab	ON
EntLens	16.5	EMVolts	1576
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
139 peaks Base: 69.05 Abundance: 374272



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.05	374272	100.00	70.05	3908	1.04
218.95	303936	81.21	219.95	13688	4.50
502.05	40304	10.77	503.05	4164	10.33

Air/Water Check: H2O~0.59% N2~5.97% O2~1.34% CO2~0.06% N2/H2O~1018.41%

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

Ramp Criteria:
Ion Focus Maximum 90 volts using ion 502: EM Gain 128658
Repeller Maximum 35 volts using ion 219:

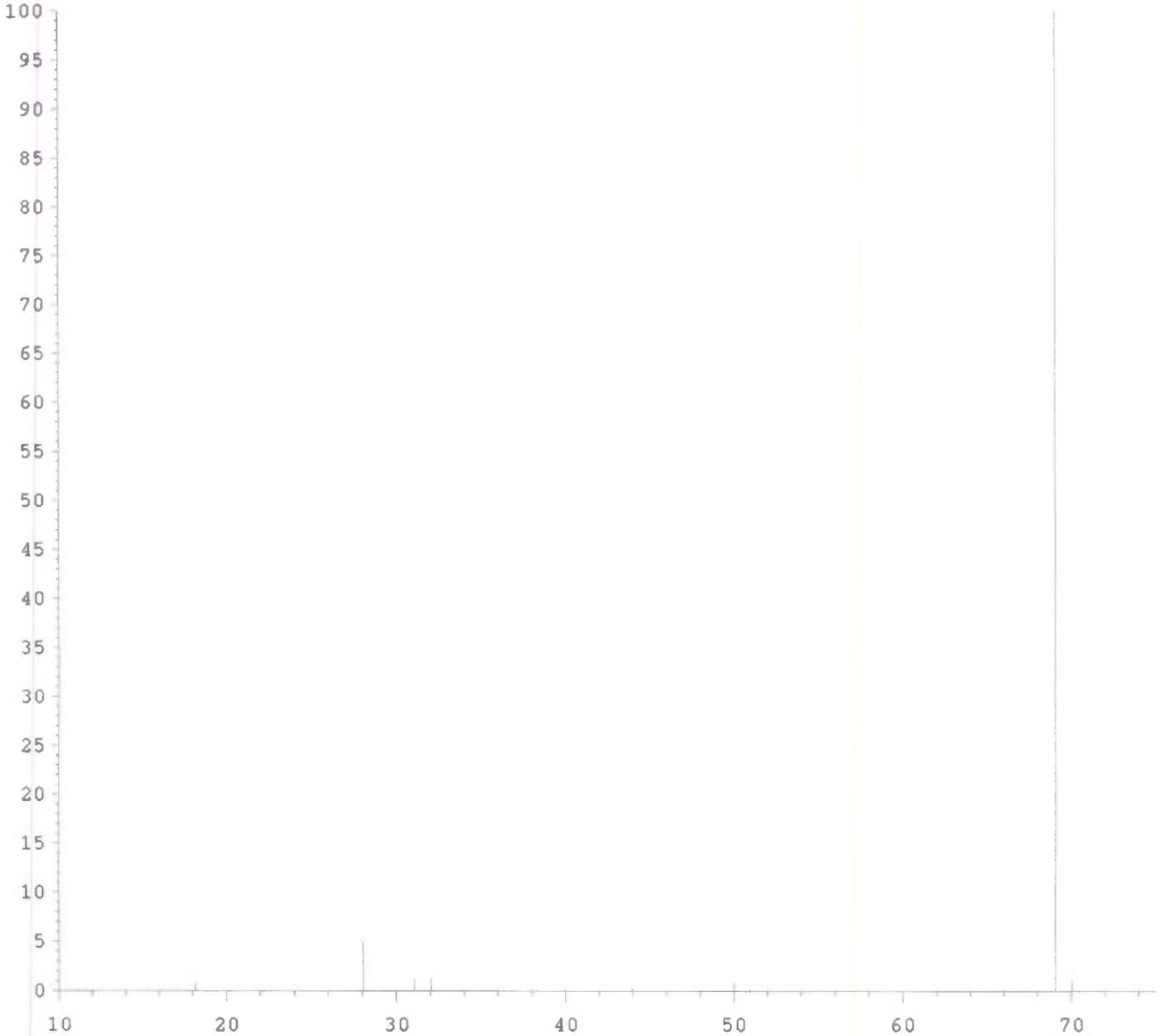
MassGain Values @Samples: 364@3 364@2 364@1 364@0 364@FS

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

597x Air and Water Check

Instrument: SD GCMS 1
Fri Jan 24 09:09:02 2025 C:\MSDCHEM\1\5973\

Scan: 10.00 - 75.00 Samples: 8 Thresh: 0 Step: 0.10
75 peaks Base: 69.05 Abundance: 669632



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.05	669632	100.00	70.05	7588	1.13
18.15	5833	0.87	19.25	45	0.77
28.05	33936	5.07	29.05	503	1.48

Current Params used: atune.u

Relative abundances:
18/69 = 0.87 Water%
28/69 = 5.07 Nitrogen%
32/69 = 1.36 Oxygen%
44/69 = 0.41 Carbon Dioxide%
28/18 = 581.79 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	218.95	Ok
Position of mass 502	502.05	Ok
Position of isotope mass 70	70.02	Ok
Position of isotope mass 220	219.97	Ok
Position of isotope mass 503	503.04	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%)	4.38	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	83.36	Ok
Ratio of 502 to 69 should be > 2.4% and is	11.49	Ok
Mass 69 Precursor (<= 3%)	0.20	Ok
Mass 219 Precursor (<= 6%)	0.37	Ok
Mass 502 Precursor (<= 12%)	0.53	Ok
Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	0.60	Ok
Ratio of 28 to 69 (<10%)	6.27	Ok
Electron Multiplier Voltage	1576	Ok

Tune portion of System Verification passed.

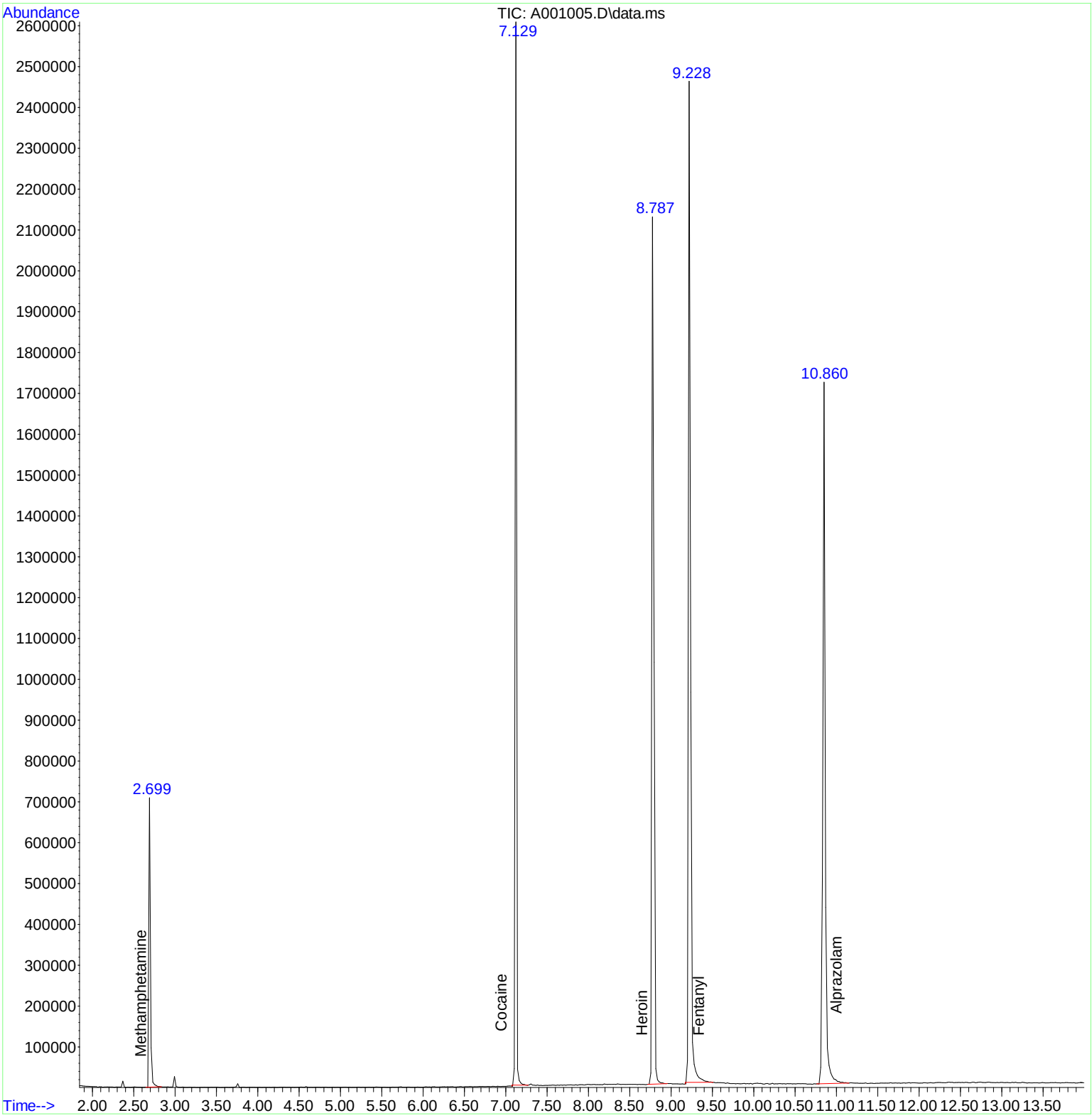
BCCL GC/MS #1
Retention Times for the Week of:

01/20/2024 - 01/26/2025

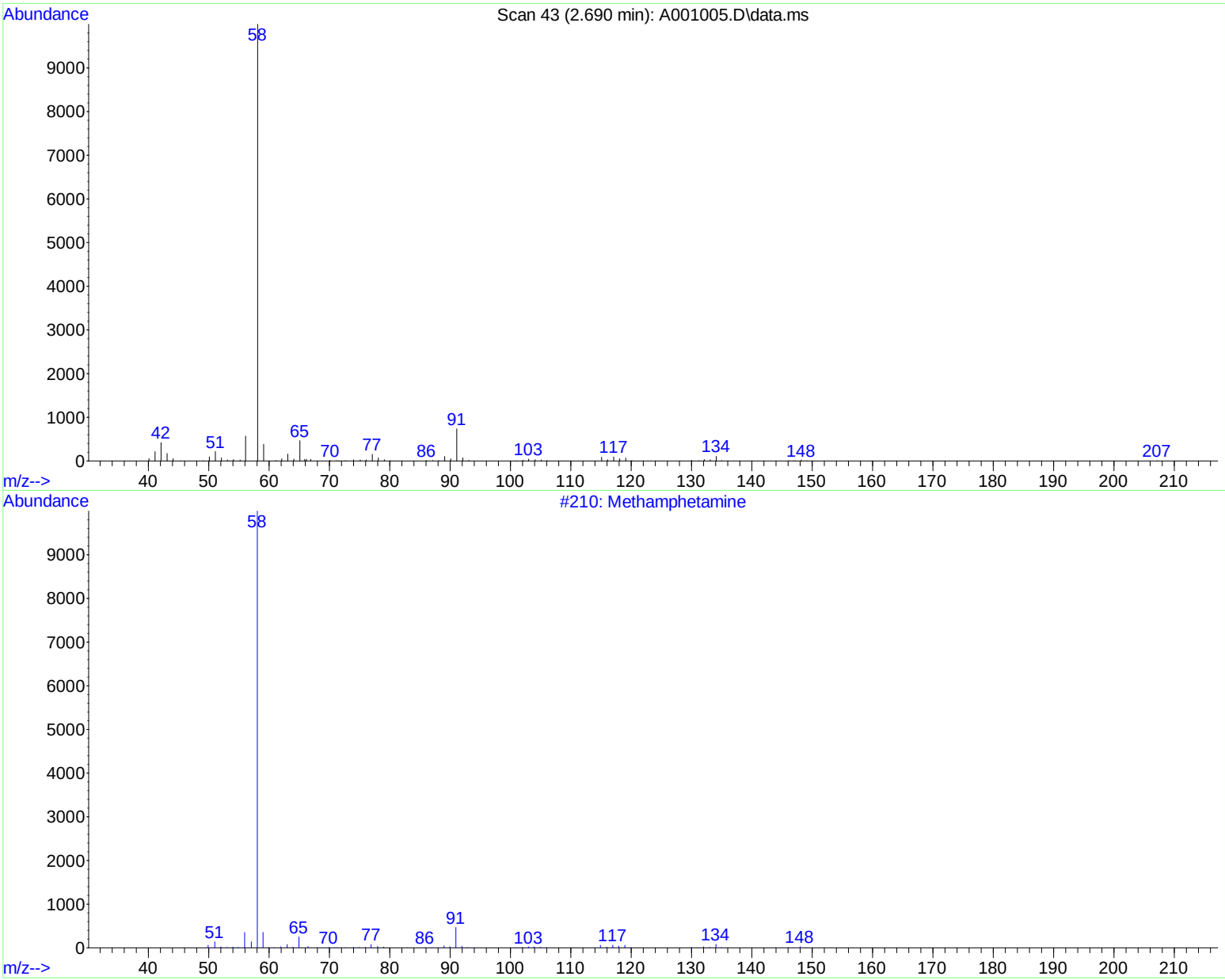
[x] **Tune: 01/24/2024 - Autotune DN/DS**

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	10.860	10.751	10.968
Ketamine	S-21-027	BCCL GenDrug	5.917	5.857	5.976

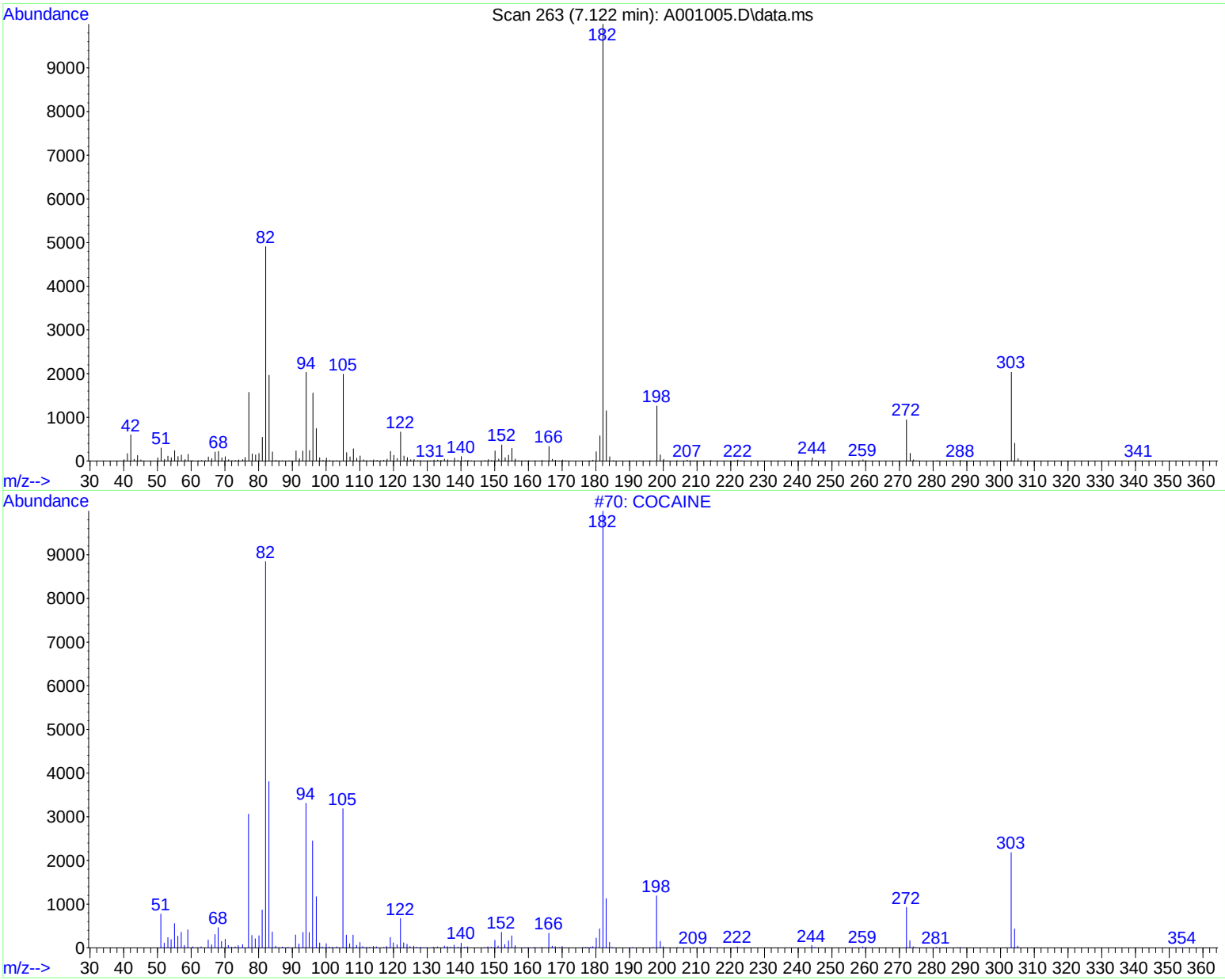
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 24 Jan 2025 10:18 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



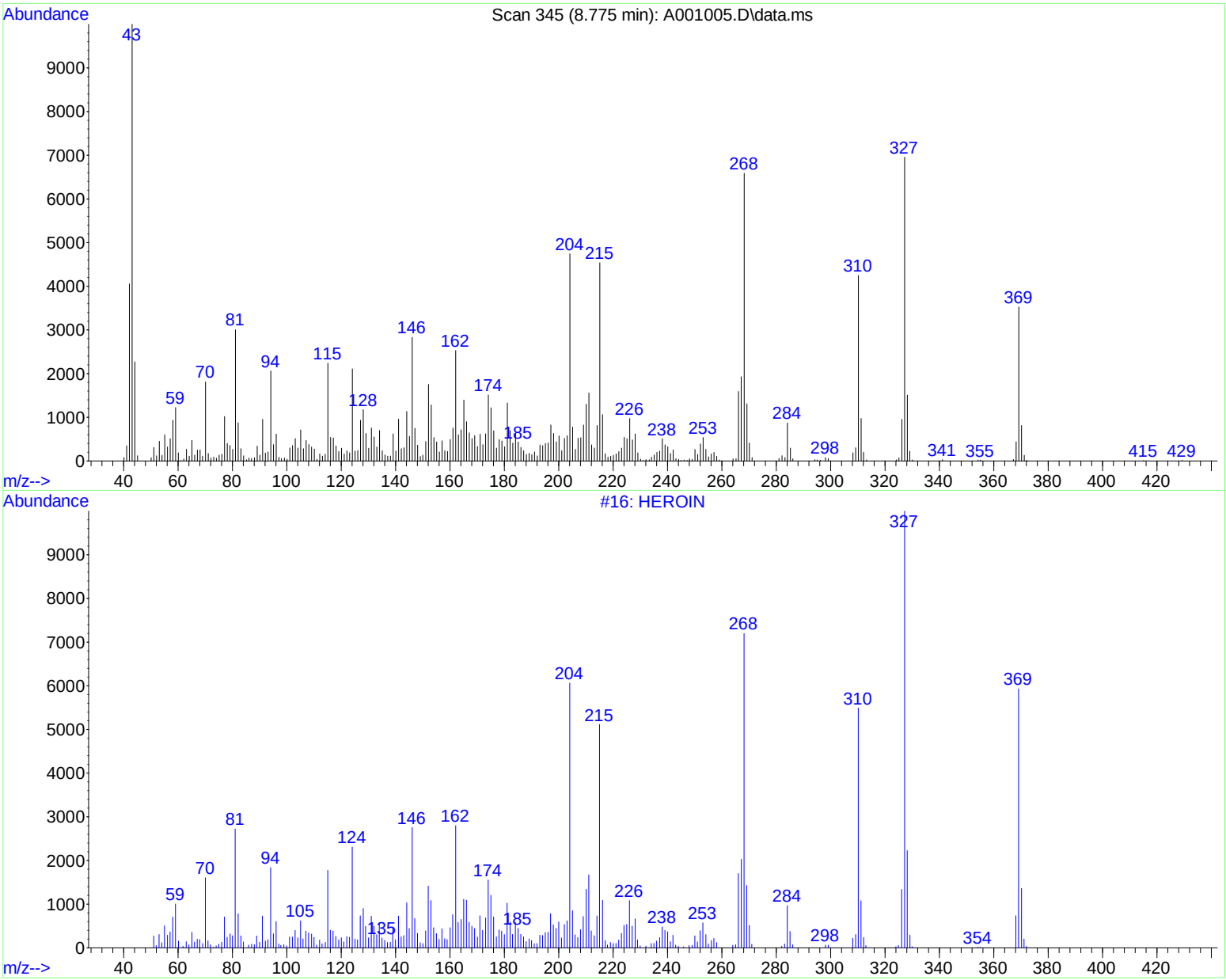
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Quality : 83
ID : Methamphetamine



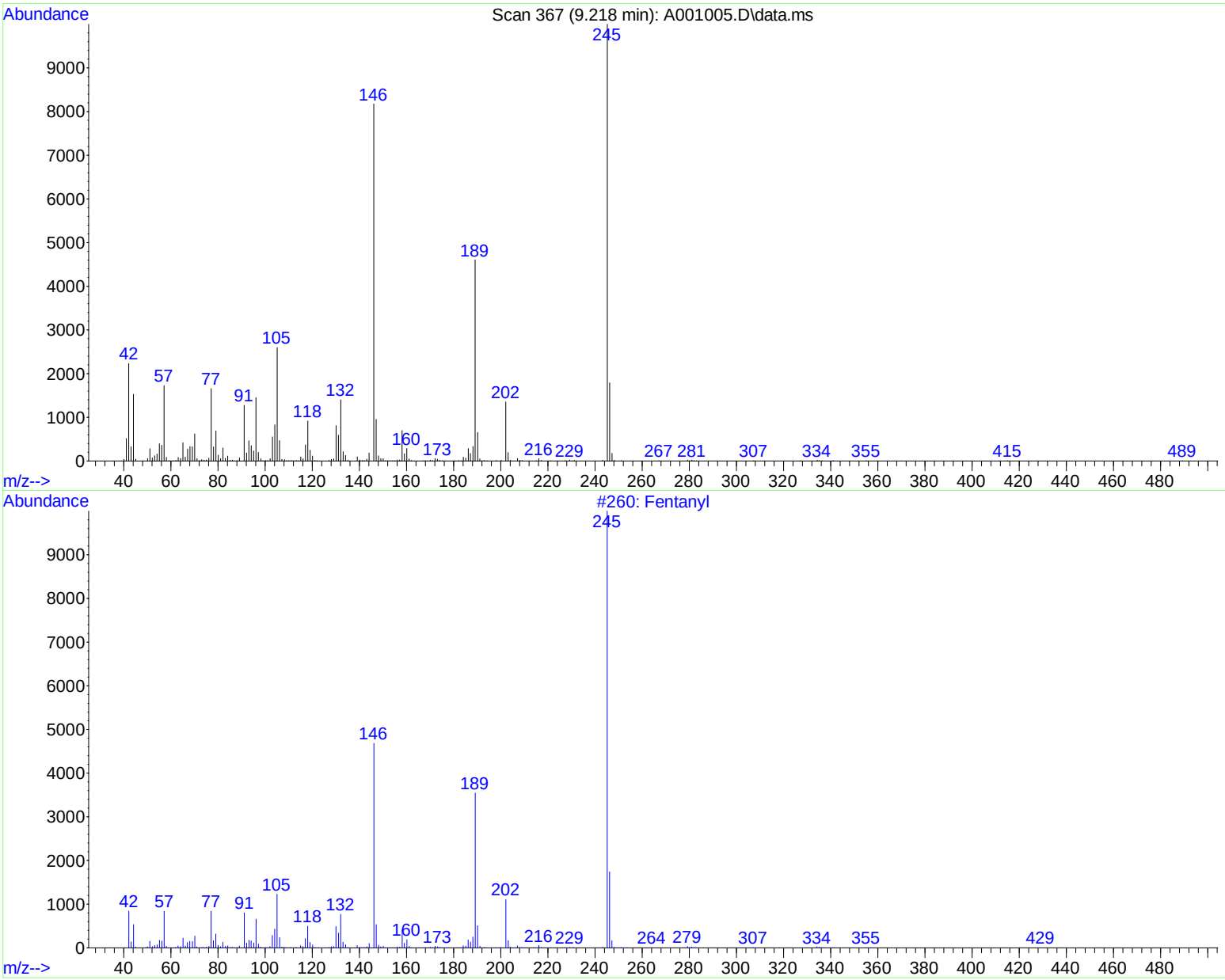
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Quality : 99
ID : COCAINE



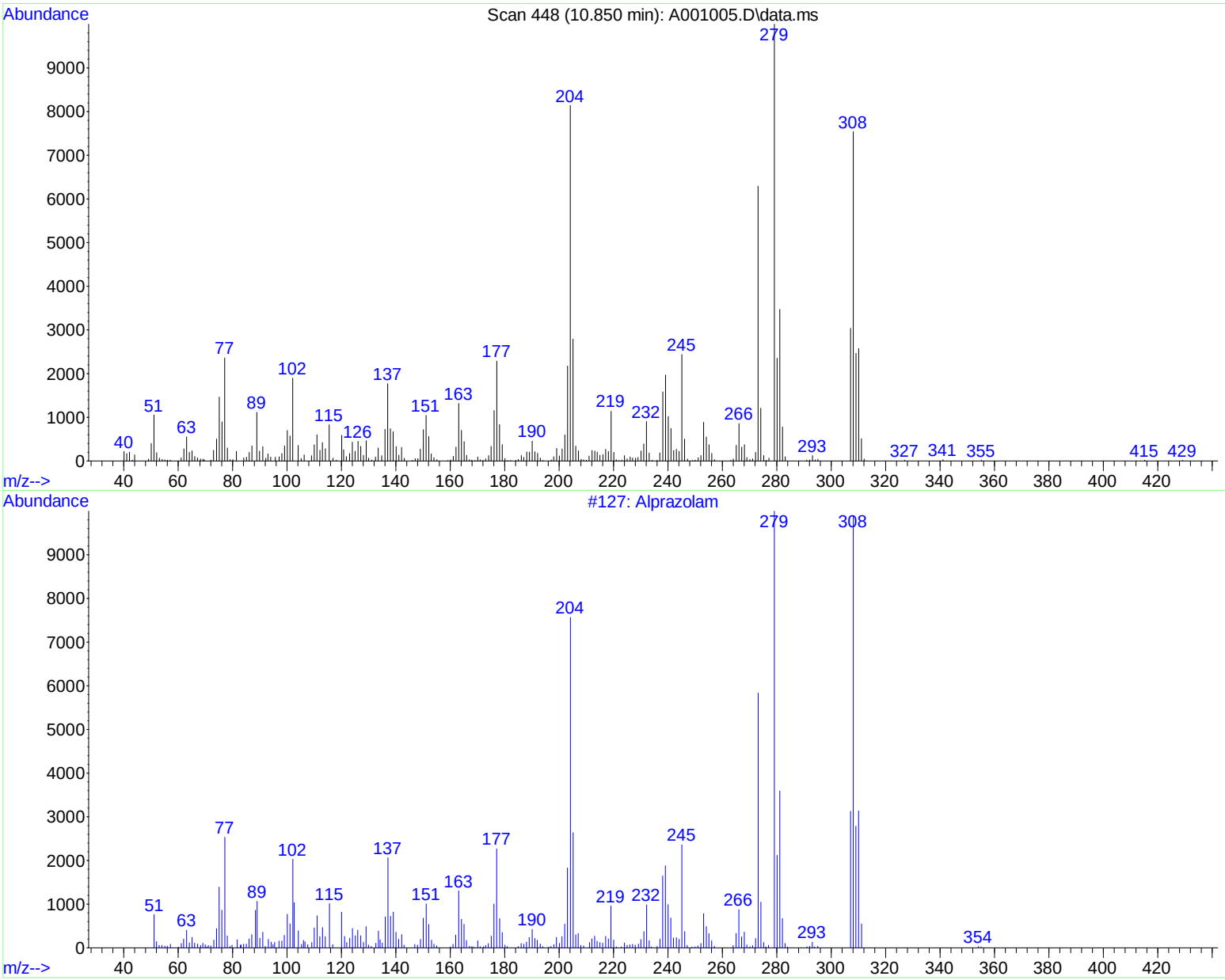
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Quality : 99
ID : HEROIN



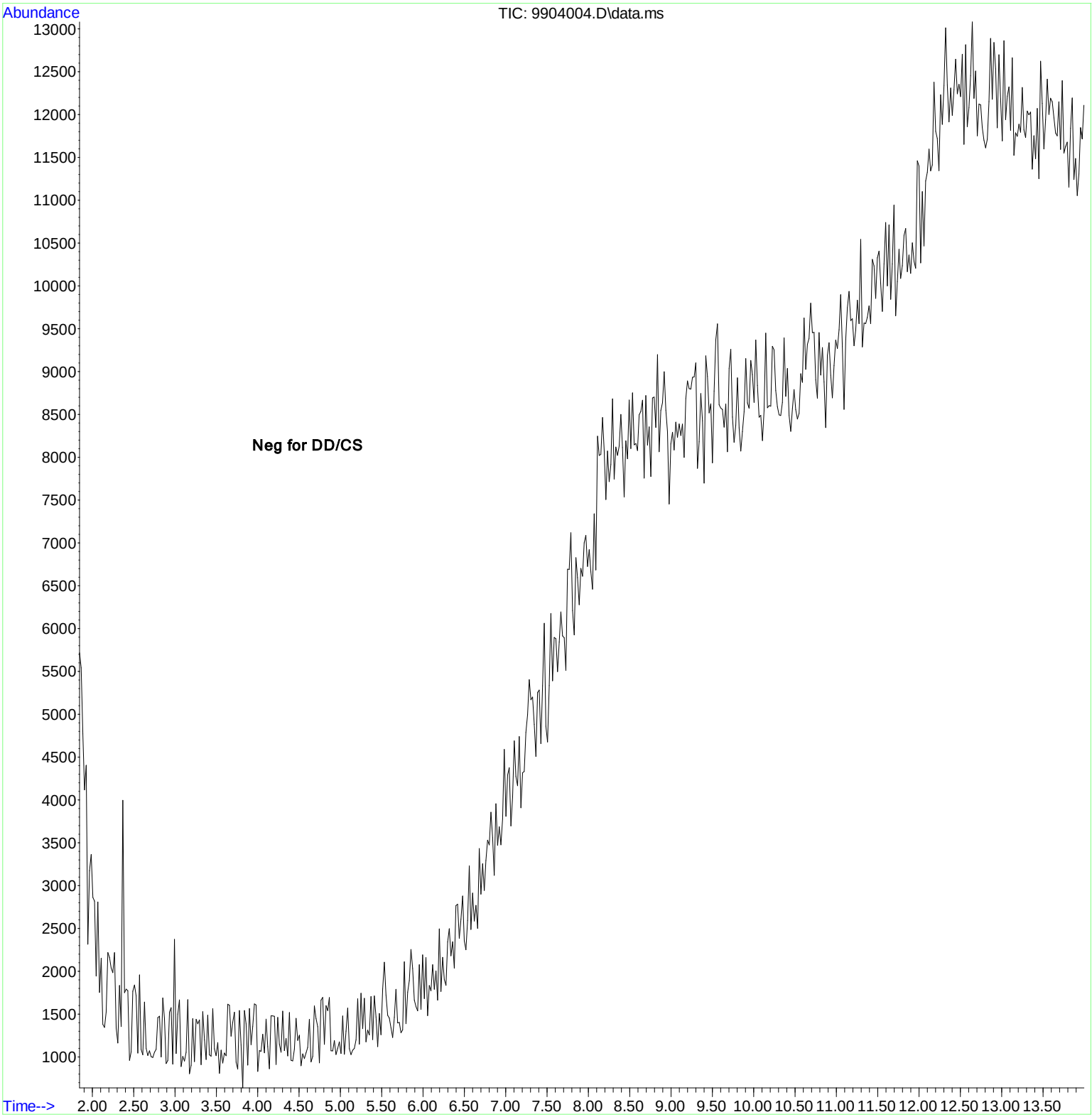
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Quality : 99
ID : Fentanyl



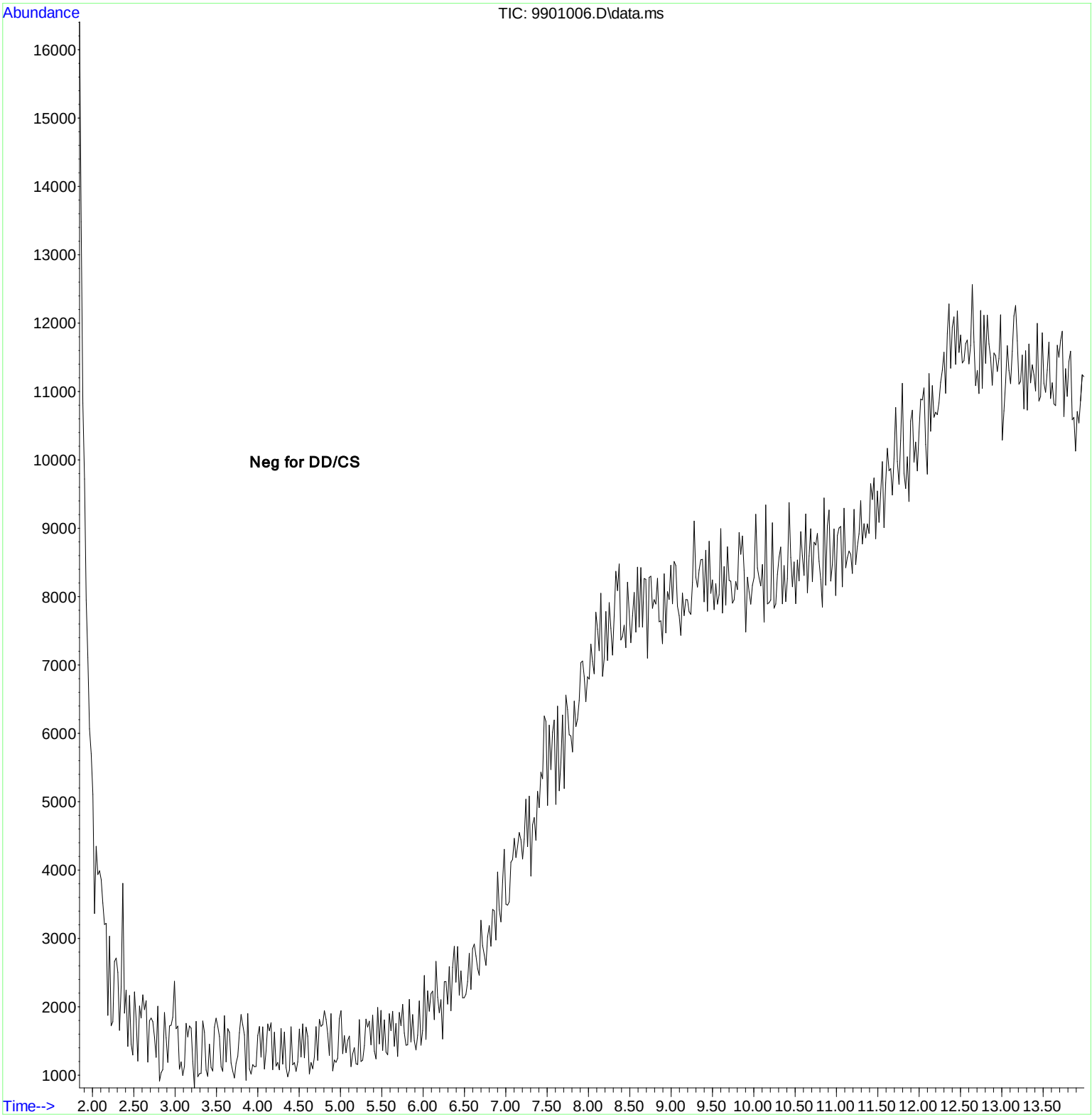
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Quality : 99
ID : Alprazolam



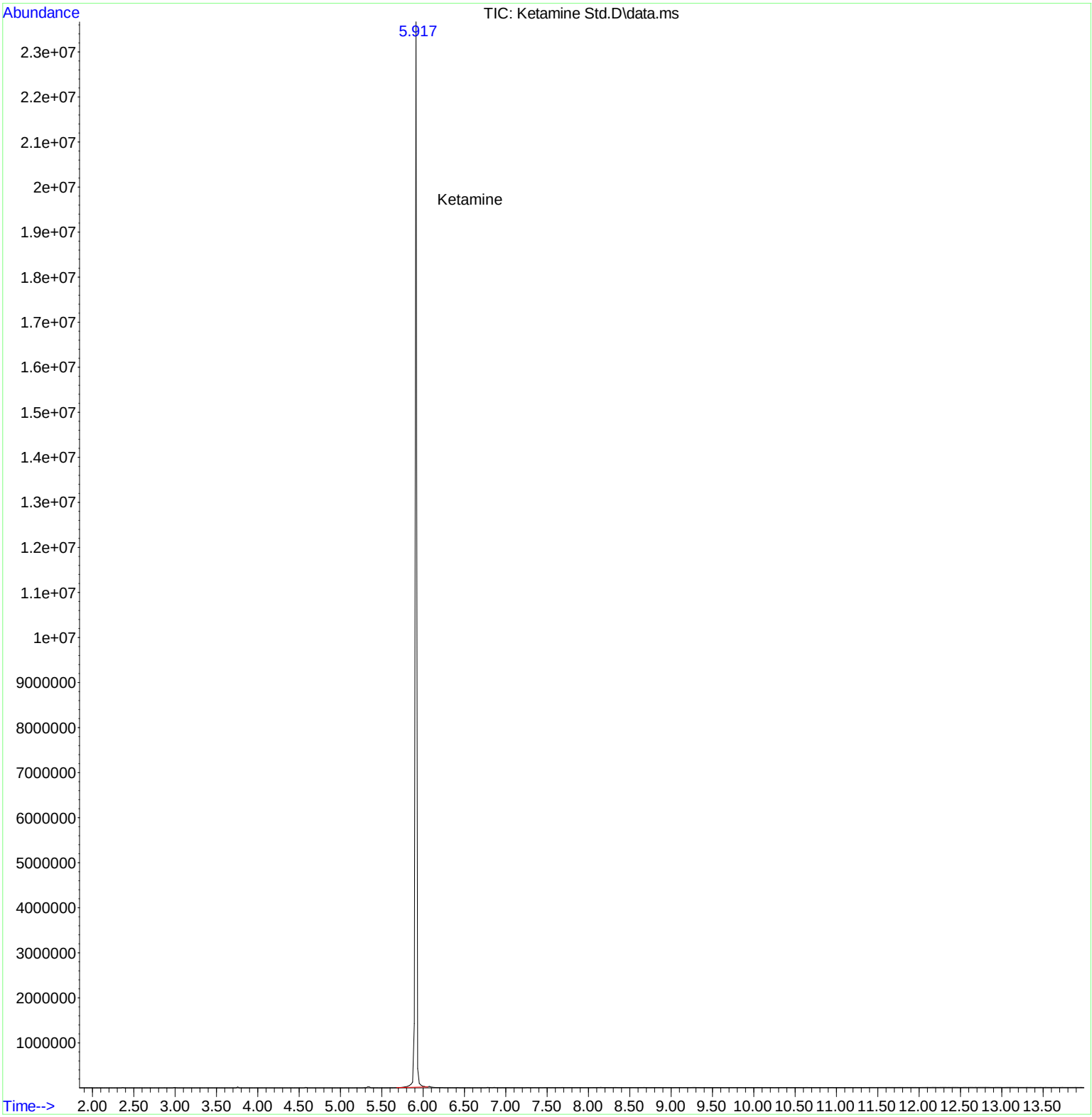
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 24 Jan 2025 10:01 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK PRIOR TO CAYMAN GC/MS 000002664
Misc Info : ACN (C-19-0068)



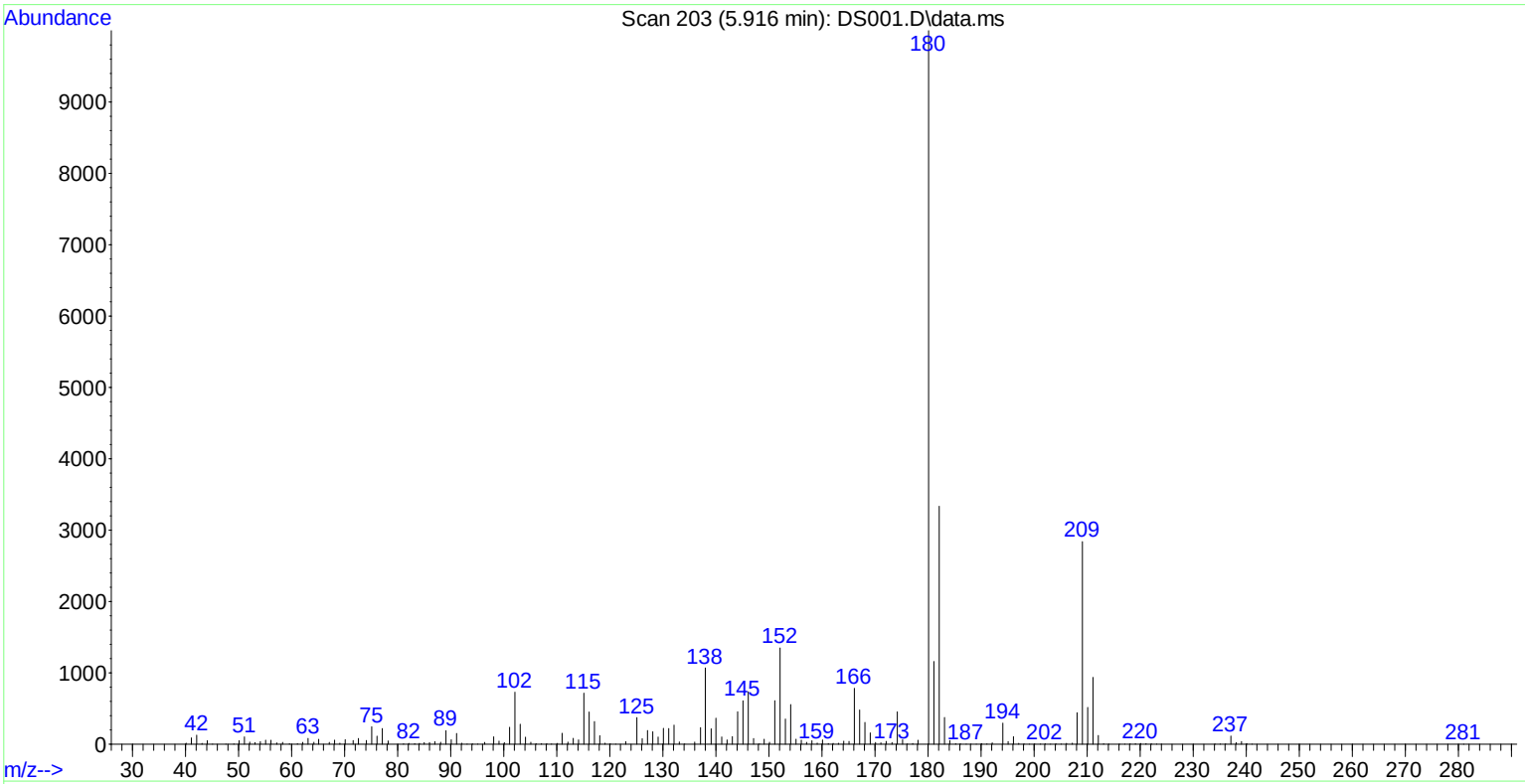
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 24 Jan 2025 10:36 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK - INSTRUMENT READY 000002664
Misc Info : ACN (C-19-0068)

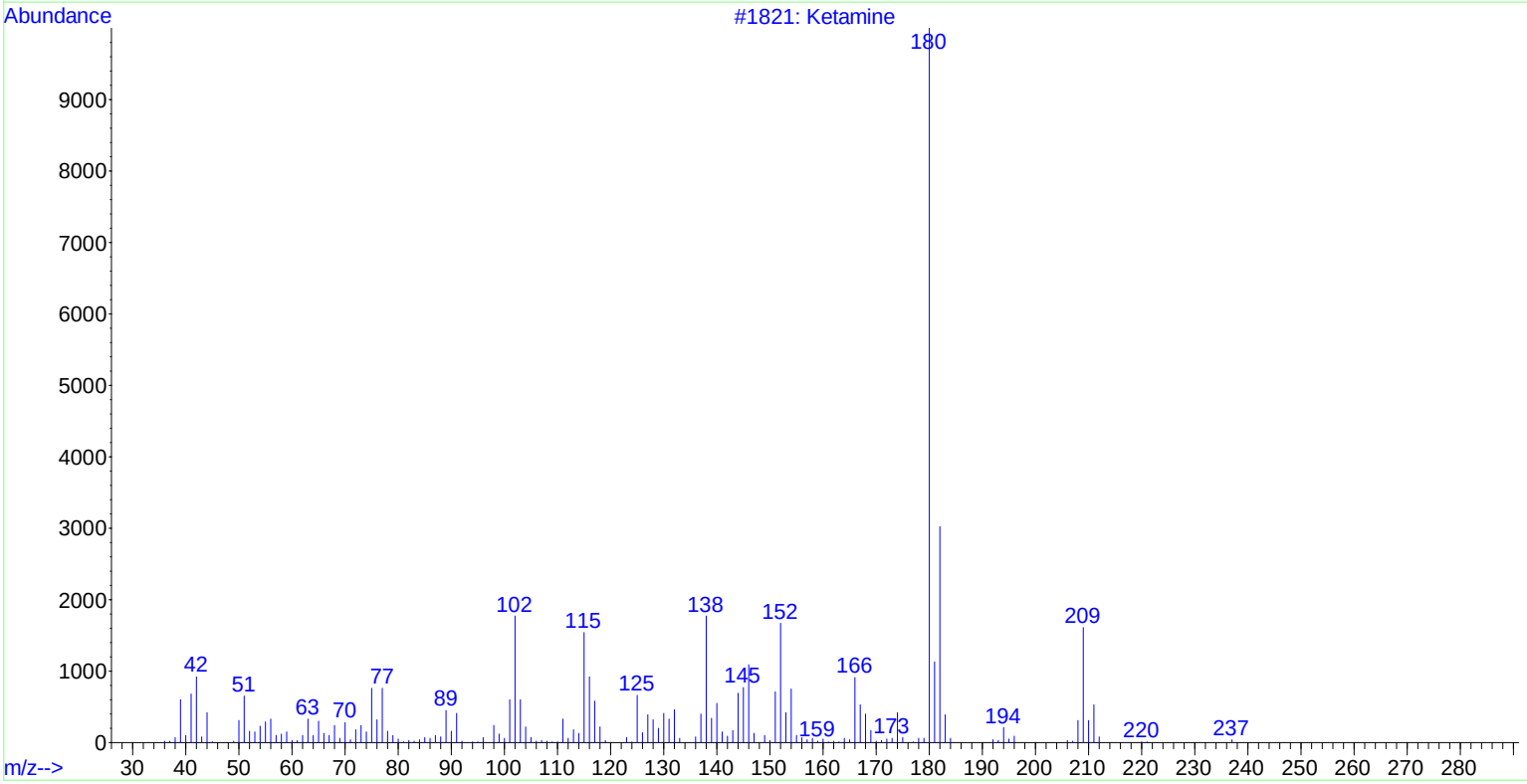


File :D:\GCMS1Data\2025.seq\012425\Ketamine Std.D
Operator : BCCL SD GCMS 1
Acquired : 24 Jan 2025 12:20 using AcqMethod BCCL GENDRUG METHOD.M
Instrument : SD GCMS 1
Sample Name: Ketamine Std (S-21-027) 000001551
Misc Info : Rt determination
Vial Number: 53

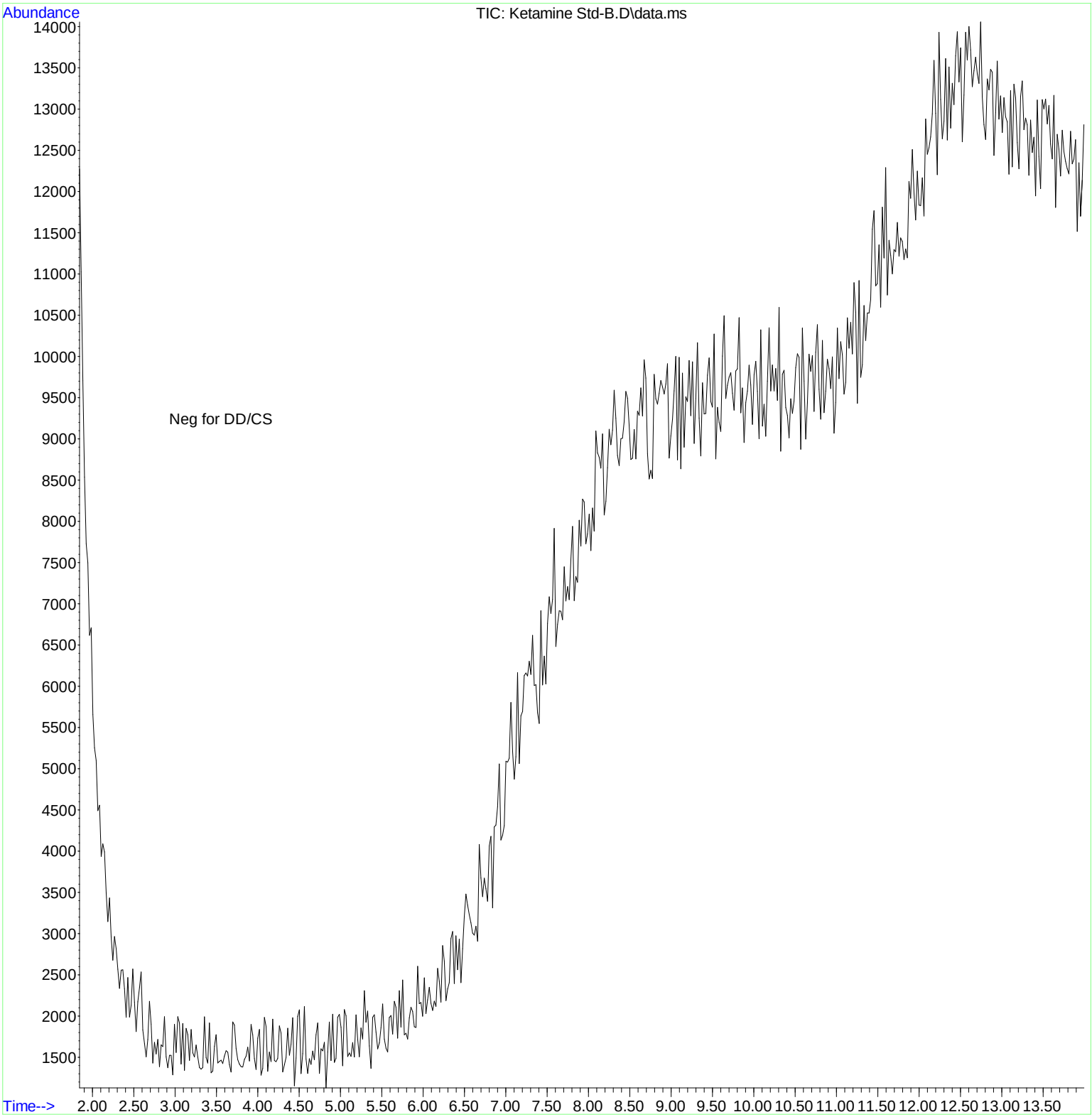


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Instrument : SD GCMS 1
Sample Name: Ketamine Std (S-21-027) 000001551
Misc Info : Rt determination
Vial Number: 53





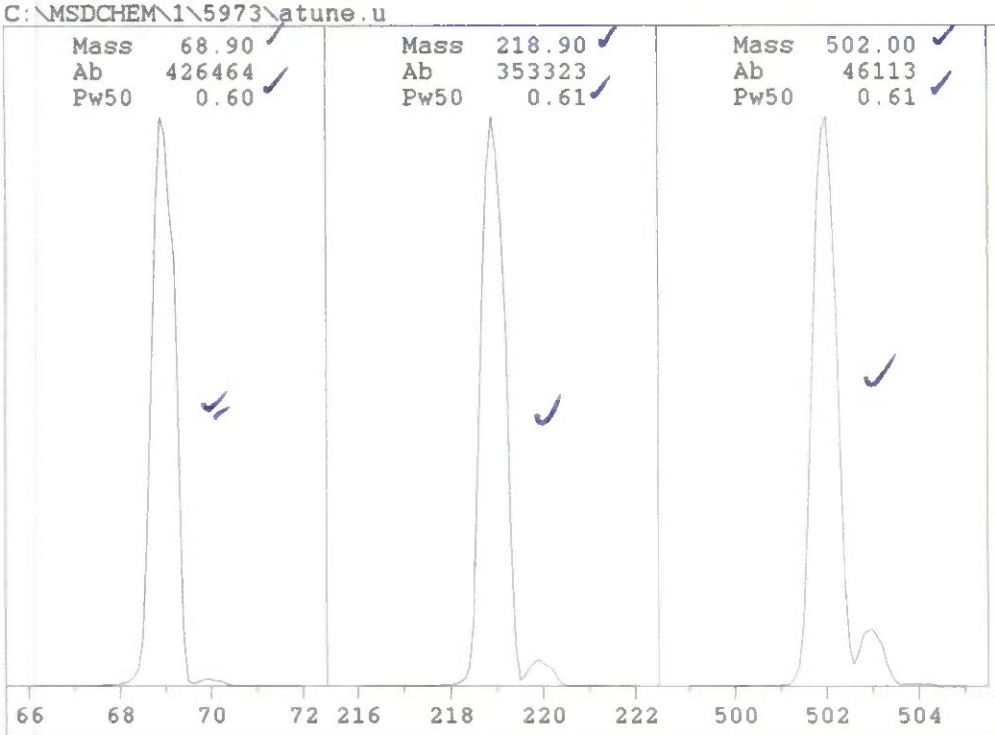
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Operator : BCCL SD GCMS 1
Acquired : 24 Jan 2025 12:03 using AcqMethod BCCL GENDRUG METHOD.M
Instrument : SD GCMS 1
Sample Name: blank prior to Ketamine Std (S-21-027) 000002631
Misc Info : base ext w/ EtAc
Vial Number: 51



5973 Autotune

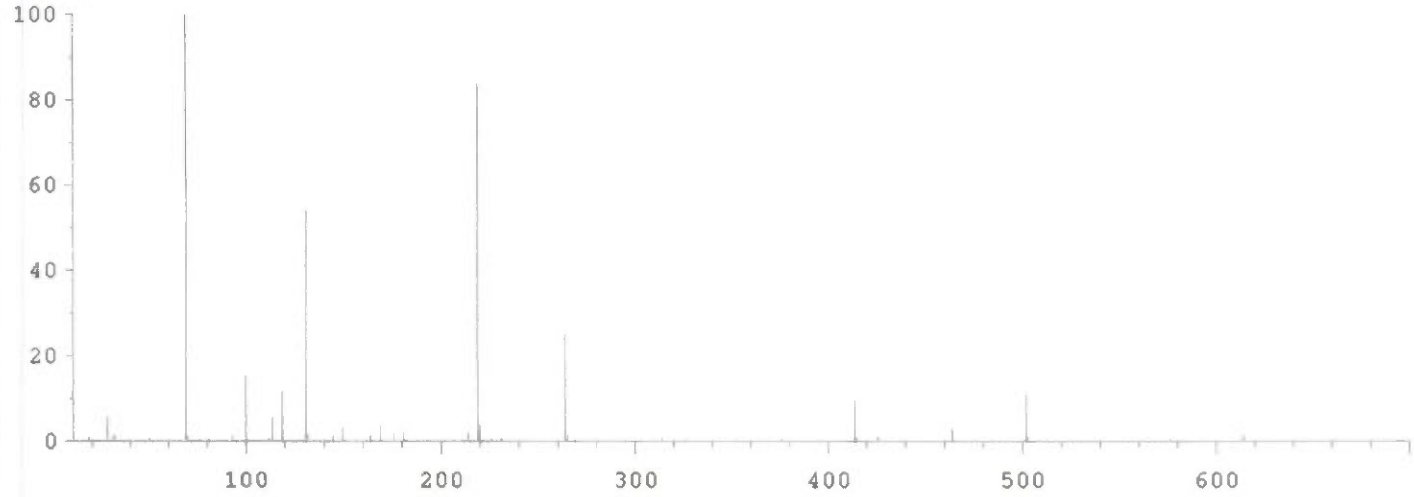
Mon Jan 27 08:15:10 2025 Instrument: SD GCMS 1

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



Ion Pol	POS	MassGain	365
		MassOffs	-12
Emission	34.6	AmuGain	2442
EIEnrgy	69.9	AmuOffs	123
Filament	1	Wid219	-0.026
		DC Pol	POS
Repeller	28.95		
IonFcus	90.2	HEDEnab	ON
EntLens	16.5	EMVolts	1576
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
133 peaks Base: 69.00 Abundance: 382656



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	382656	100.00	70.00	4470	1.17
218.90	320960	83.88	219.90	14193	4.42
502.00	42744	11.17	502.90	4441	10.39

Air/Water Check: H20~0.95% N2~5.72% O2~1.27% CO2~0.05% N2/H2O~600.11%

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

Ramp Criteria:
Ion Focus Maximum 90 volts using ion 502: EM Gain 132156
Repeller Maximum 35 volts using ion 219:

MassGain Values @Samples: 364@3 366@2 365@1 365@0 365@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

25
OK

597x Air and Water Check

Instrument: SD GCMS 1
Mon Jan 27 08:08:29 2025 C:\MSDCHEM\1\5973\

Scan: 10.00 - 75.00 Samples: 8 Thresh: 0 Step: 0.10
75 peaks Base: 69.05 Abundance: 557696



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.05	557696	100.00	70.05	6186	1.11
18.05	7088	1.27	19.15	30	0.42
28.05	27000	4.84	29.05	454	1.68

Current Params used: atune.u

Relative abundances:
18/69 = 1.27 Water%
28/69 = 4.84 Nitrogen%
32/69 = 1.22 Oxygen%
44/69 = 0.29 Carbon Dioxide%
28/18 = 380.93 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	69.00	Ok
Position of mass 219	218.90	Ok
Position of mass 502	501.99	Ok
Position of isotope mass 70	70.00	Ok
Position of isotope mass 220	219.90	Ok
Position of isotope mass 503	502.95	Ok
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.11	Ok
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.34	Ok
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.23	Ok
Ratio of 219 to 69 should be > 40% and is	83.52	Ok
Ratio of 502 to 69 should be > 2.4% and is	10.92	Ok
Mass 69 Precursor (<= 3%)	0.19	Ok
Mass 219 Precursor (<= 6%)	0.37	Ok
Mass 502 Precursor (<= 12%)	0.54	Ok
Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	0.89	Ok
Ratio of 28 to 69 (<10%)	5.71	Ok
Electron Multiplier Voltage	1576	Ok

Tune portion of System Verification passed.

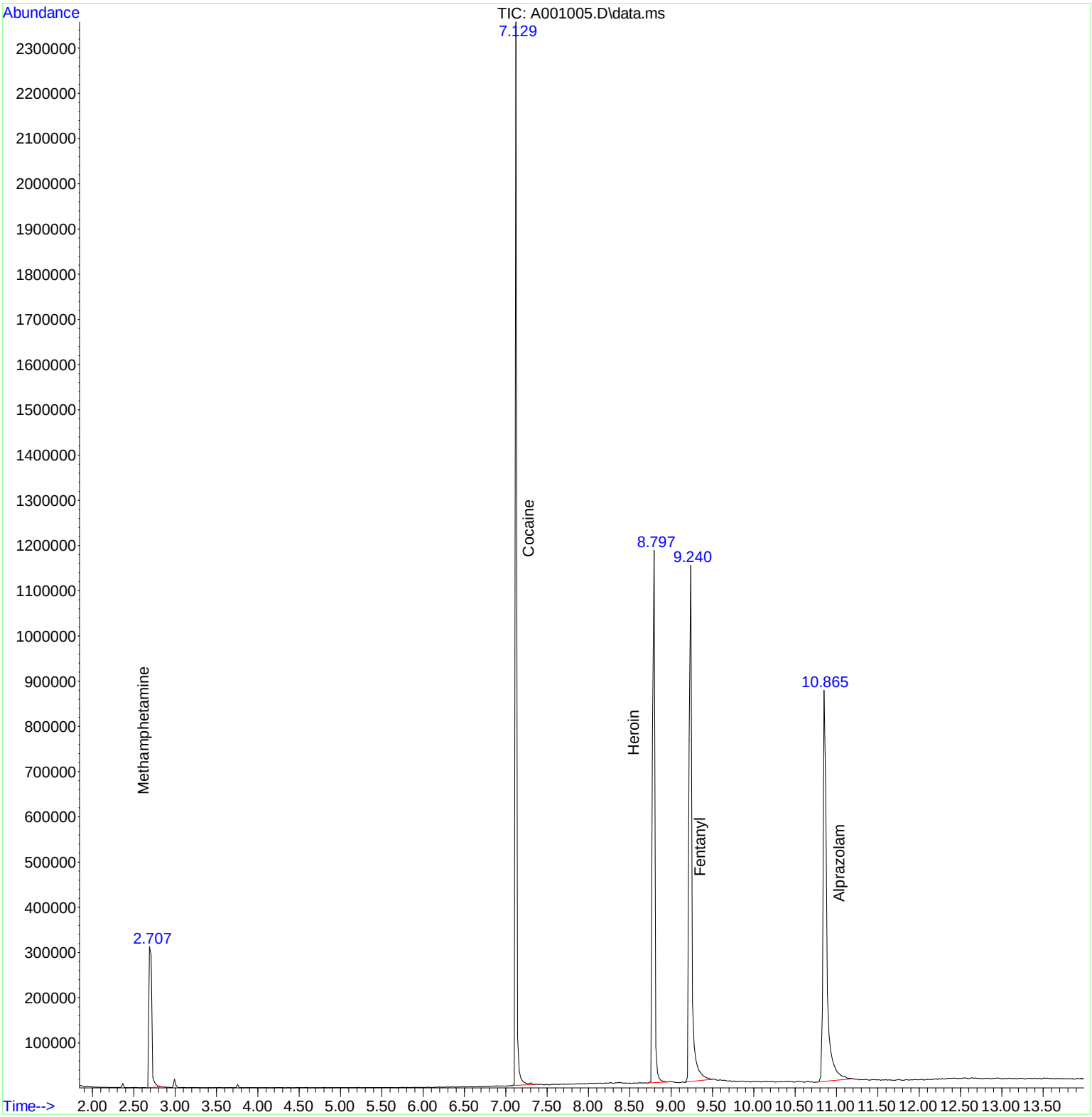
BCCL GC/MS #1
Retention Times for the Week of:

01/13/2024 - 01/14/2025

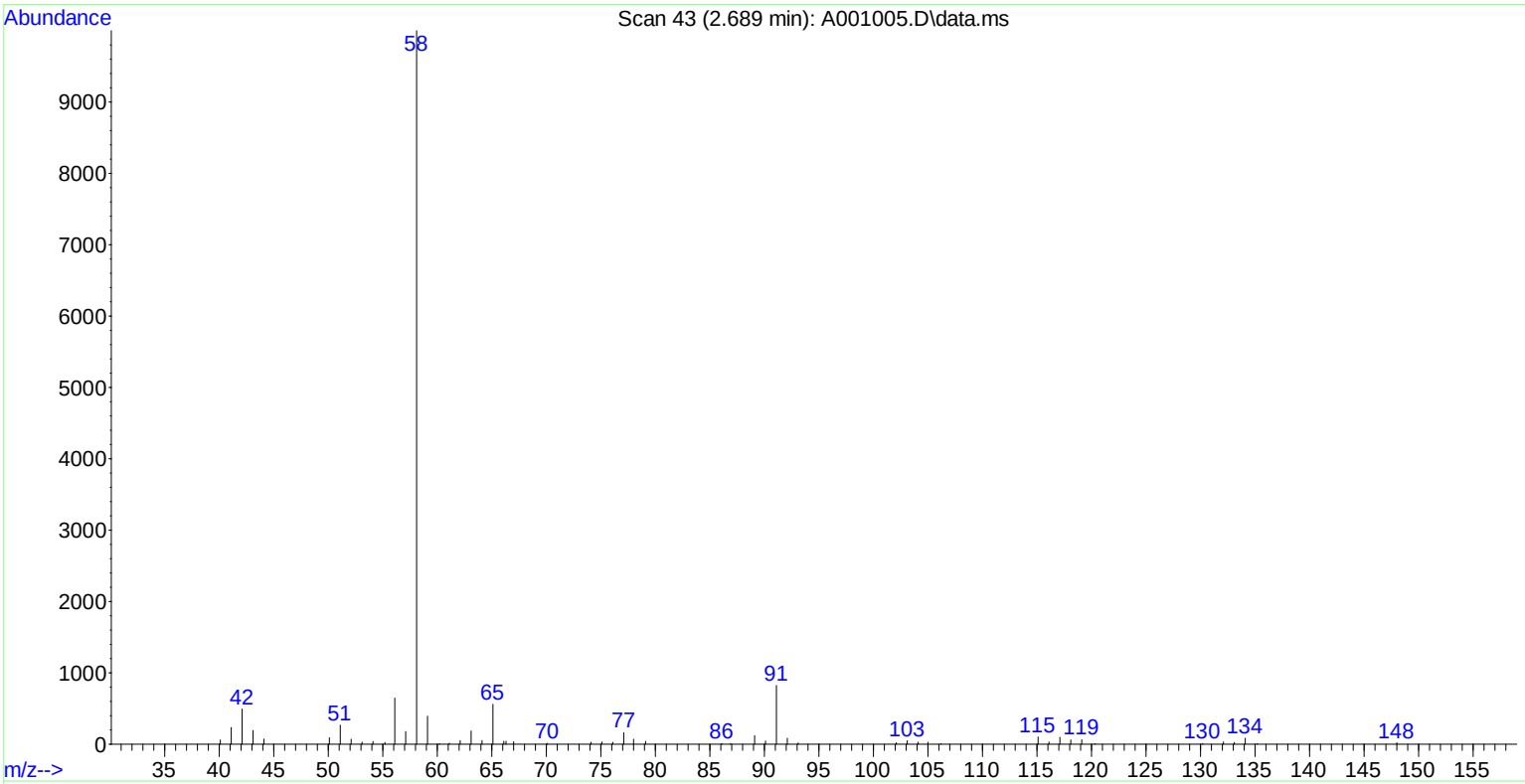
[x] **Tune: 01/13/2024 - Autotune DS**

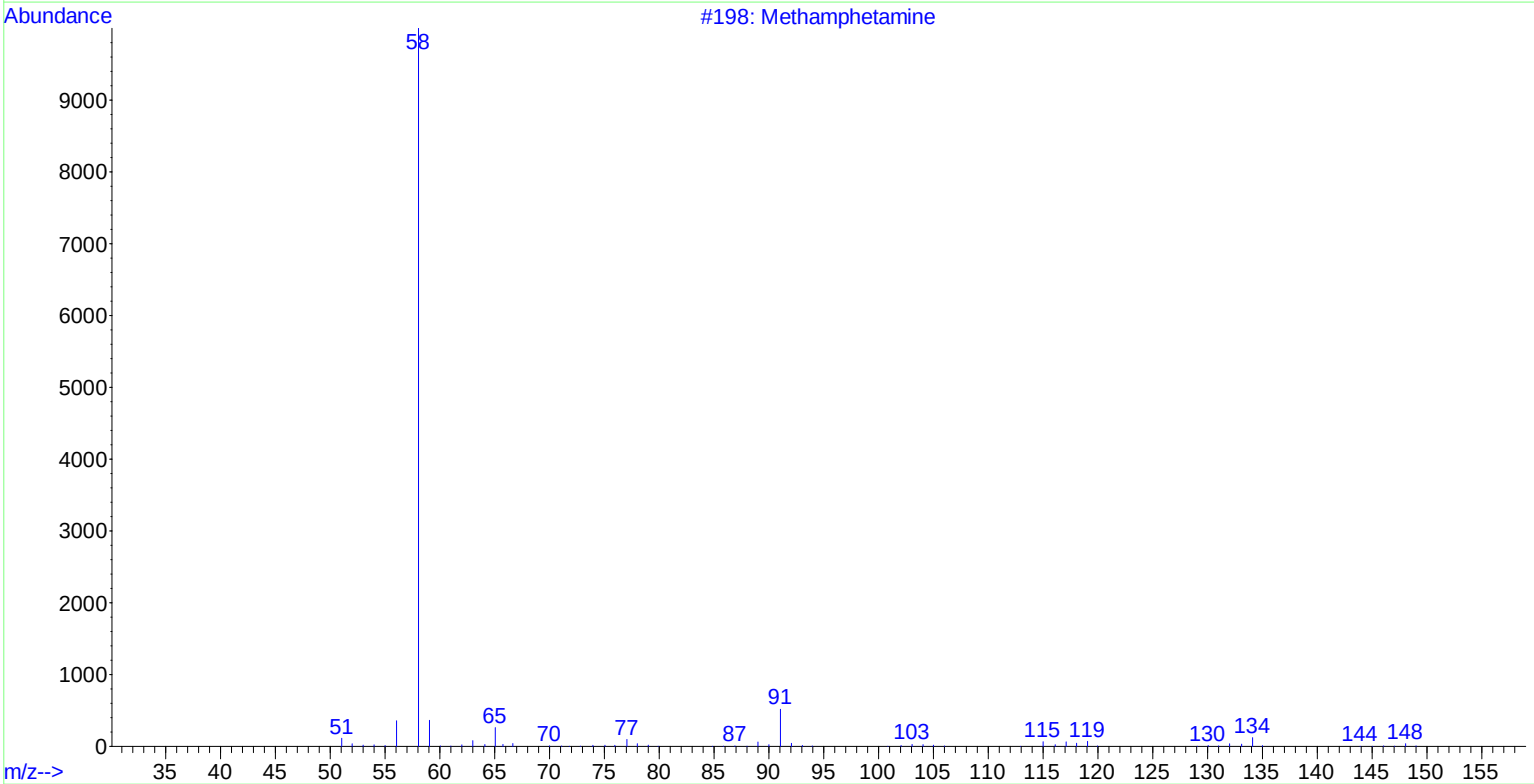
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	BCCL GenDrug	2.700	2.673	2.727
Cocaine	R-24-060	BCCL GenDrug	7.129	7.057	7.200
Heroin	R-24-060	BCCL GenDrug	8.802	8.713	8.890
Fentanyl	R-24-060	BCCL GenDrug	9.247	9.154	9.339
Alprazolam	R-24-060	BCCL GenDrug	10.875	10.766	10.983

File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\010625\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 6 Jan 2025 11:04 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN

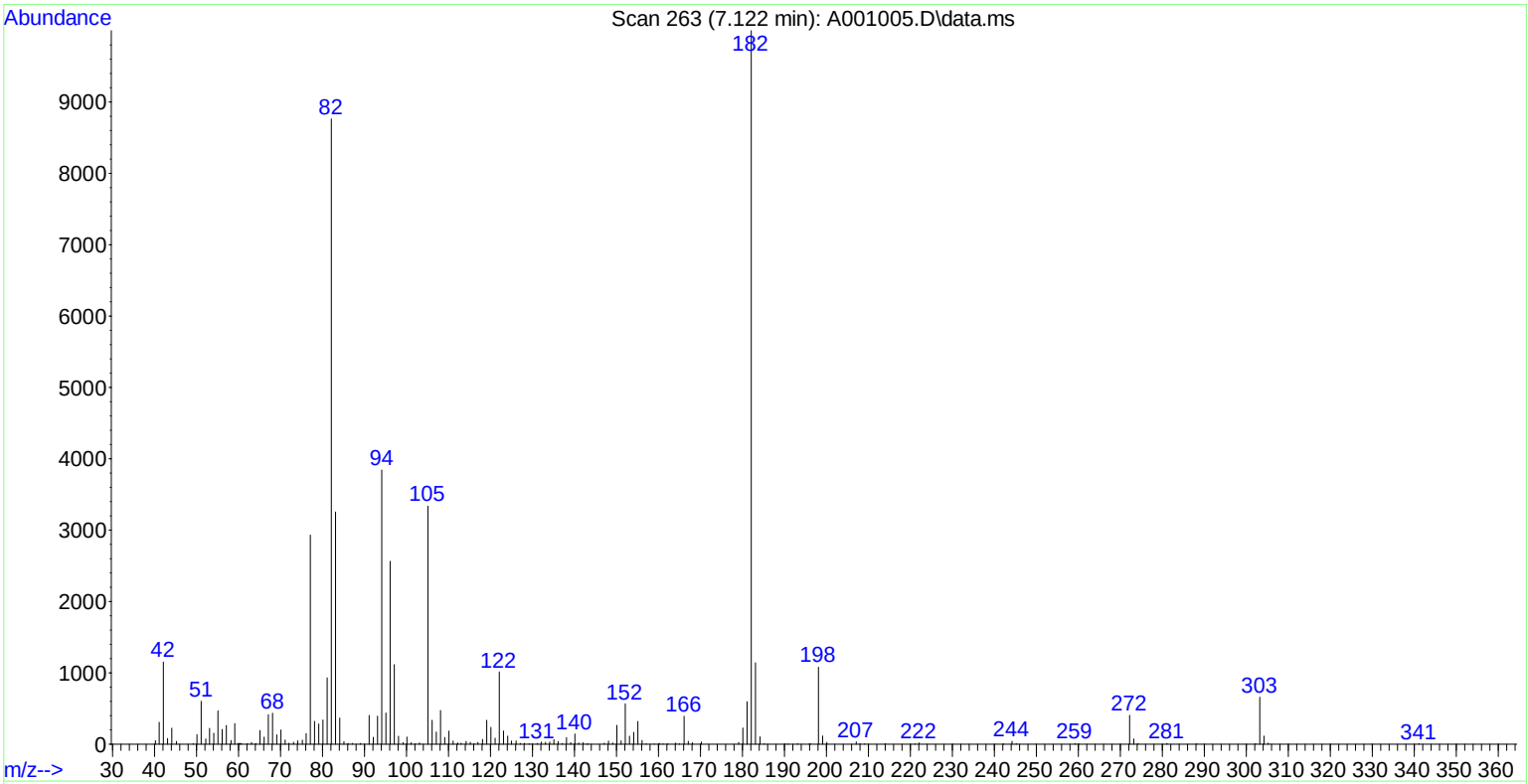


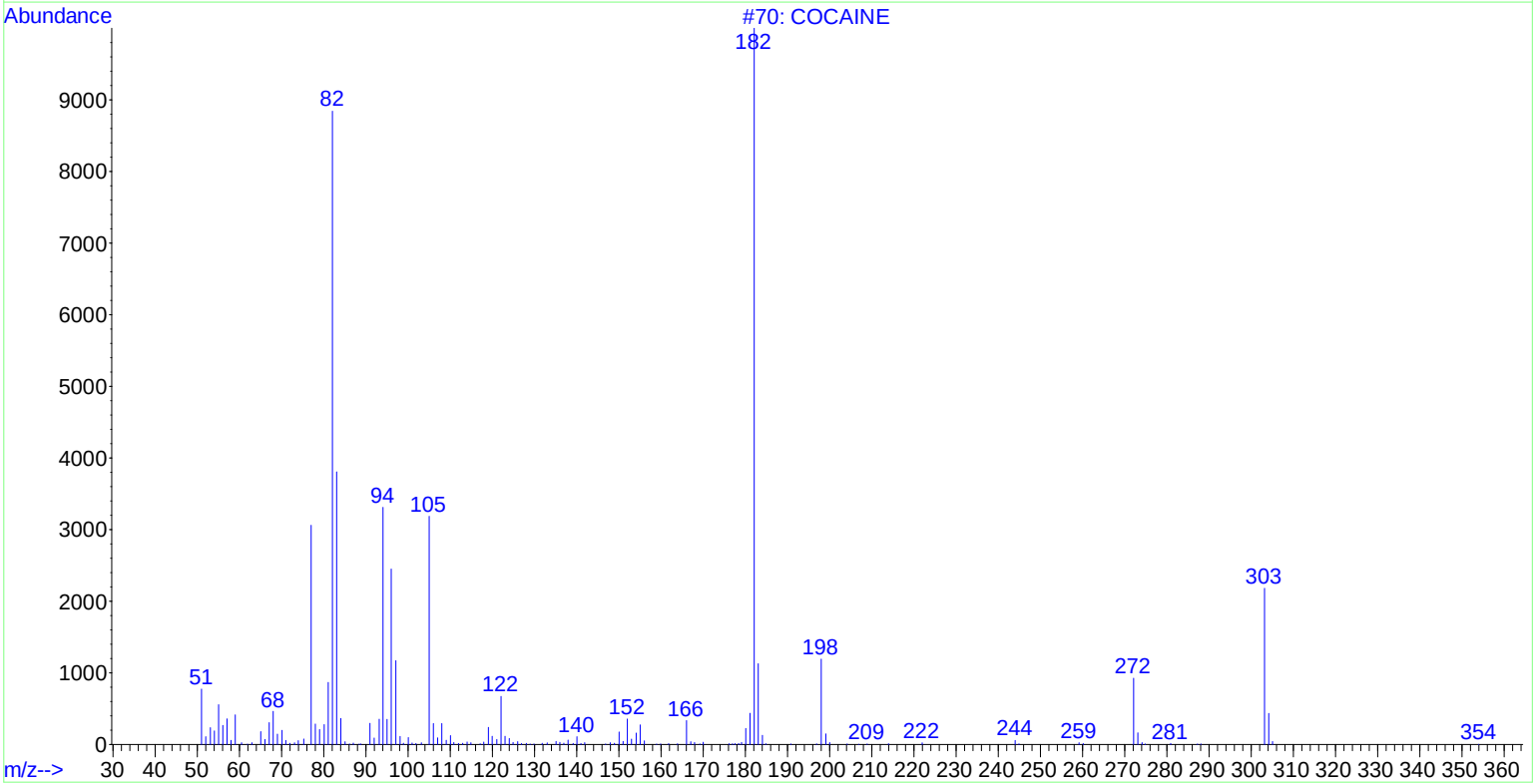
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 6 Jan 2025 11:04 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



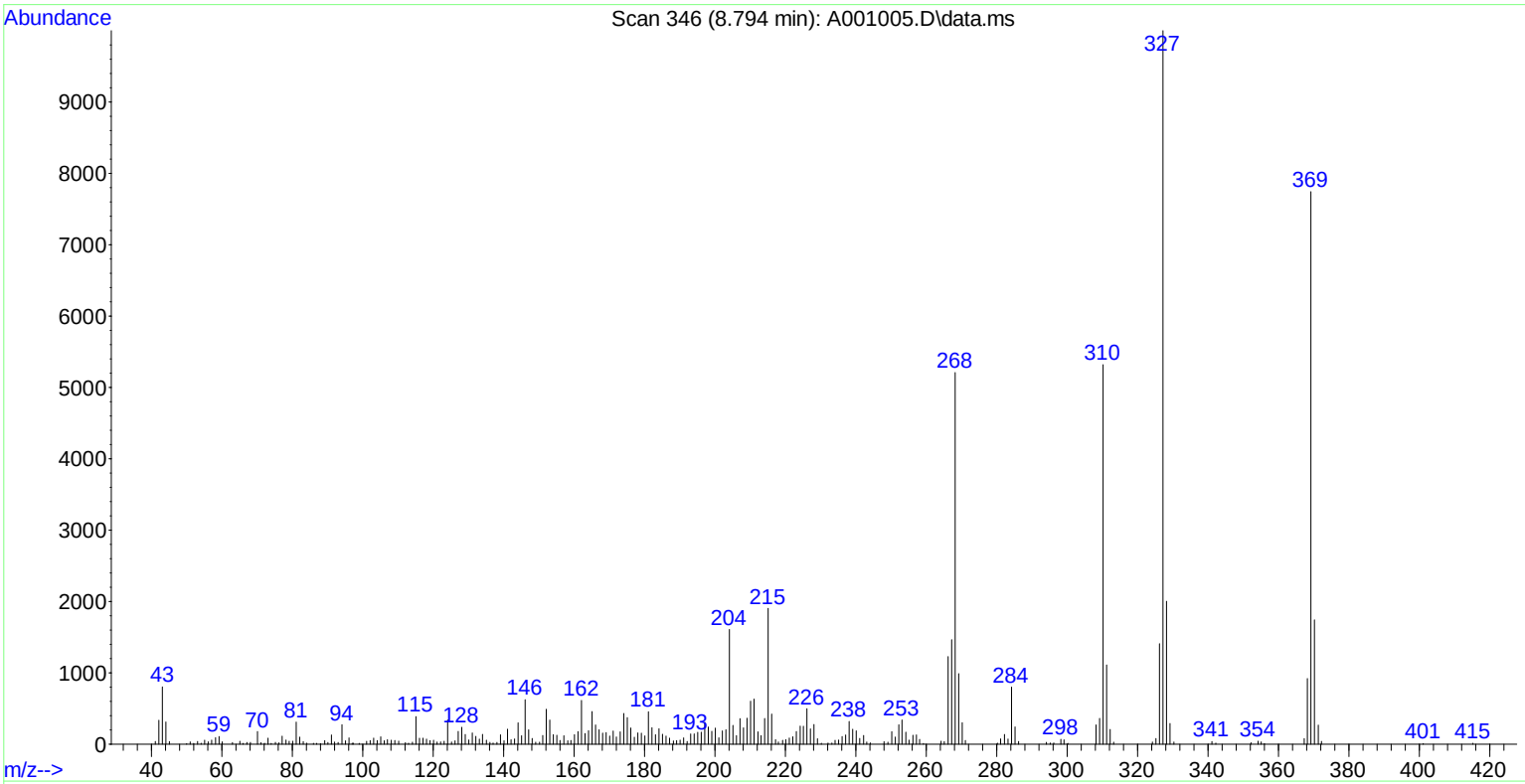


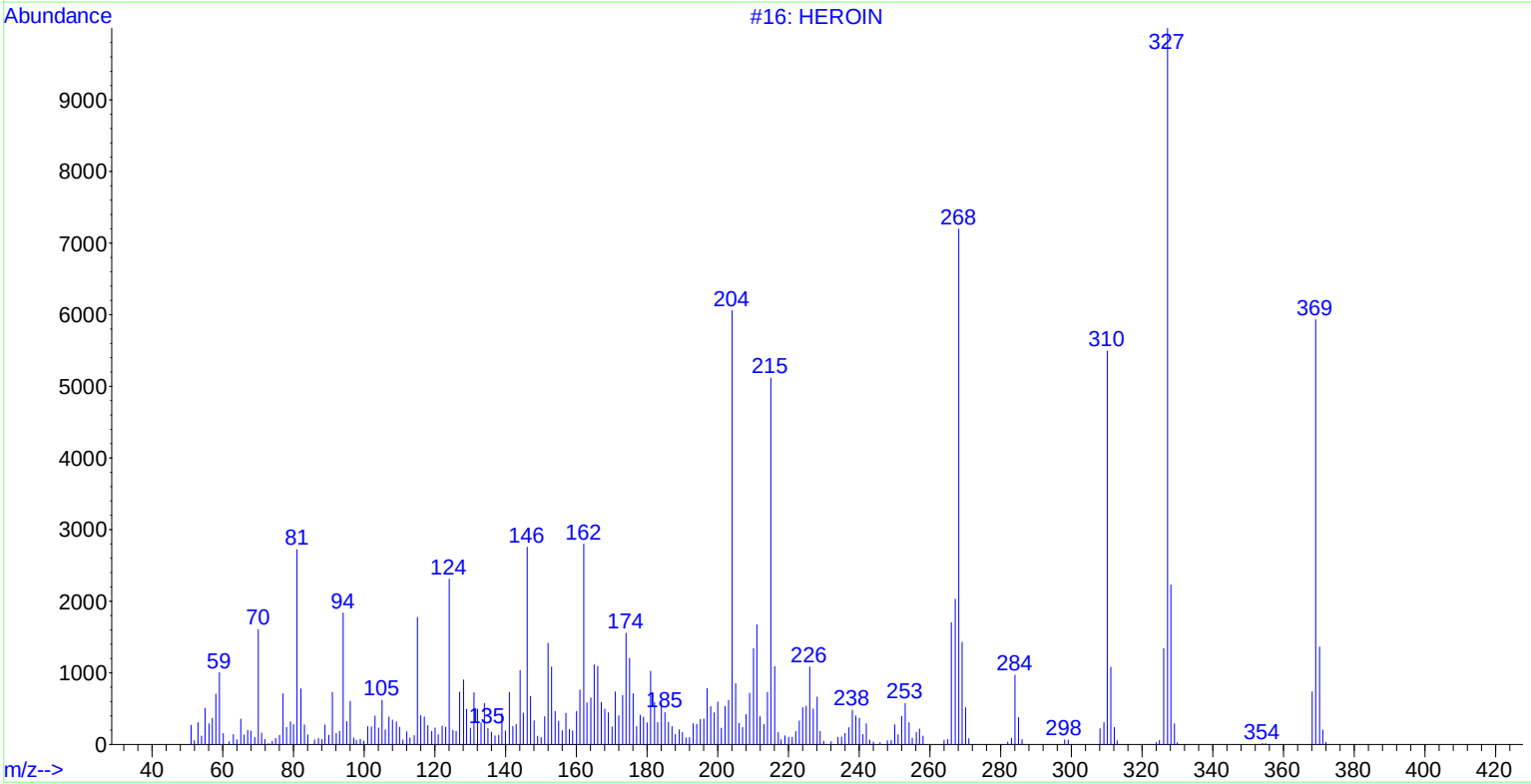
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 6 Jan 2025 11:04 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



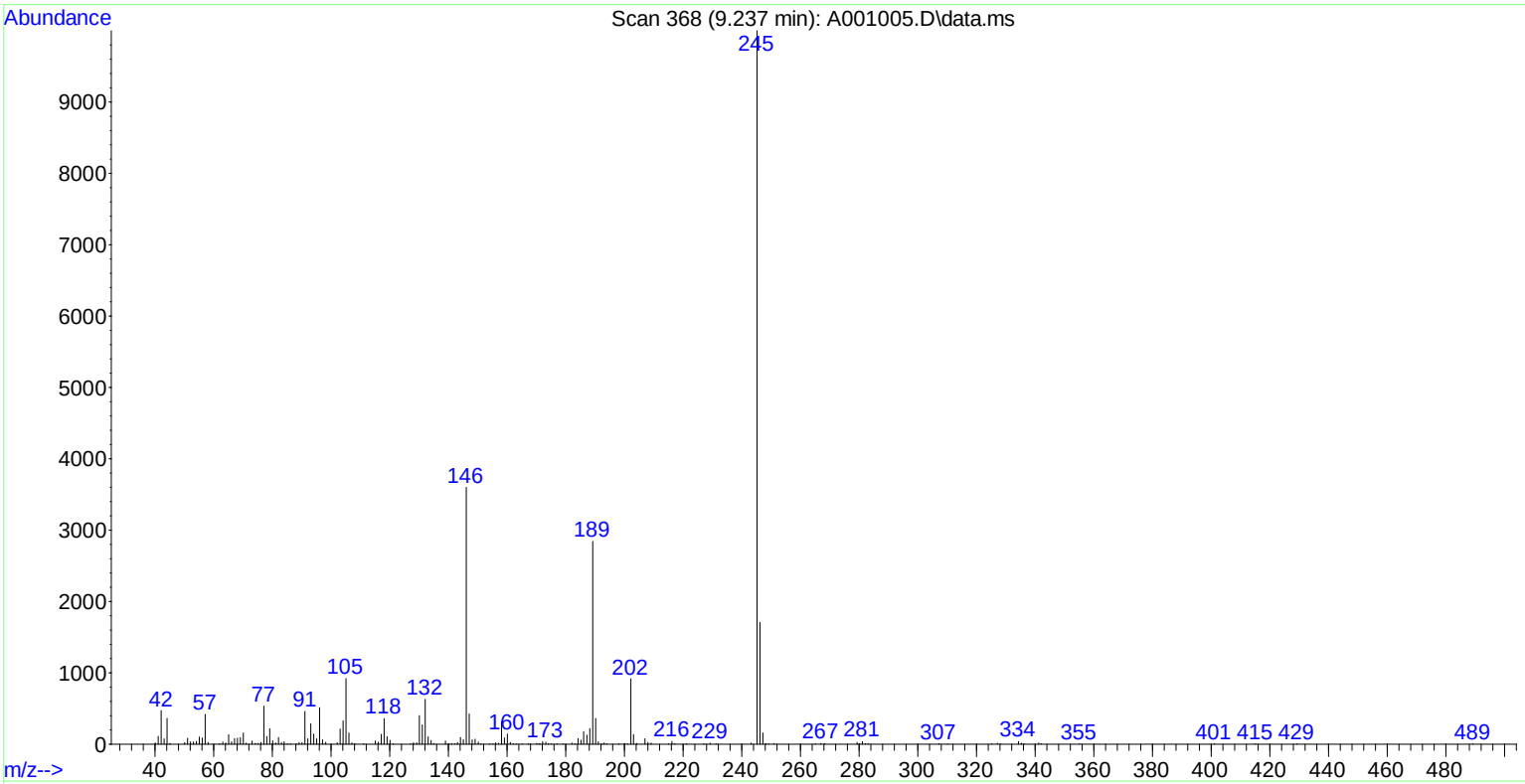


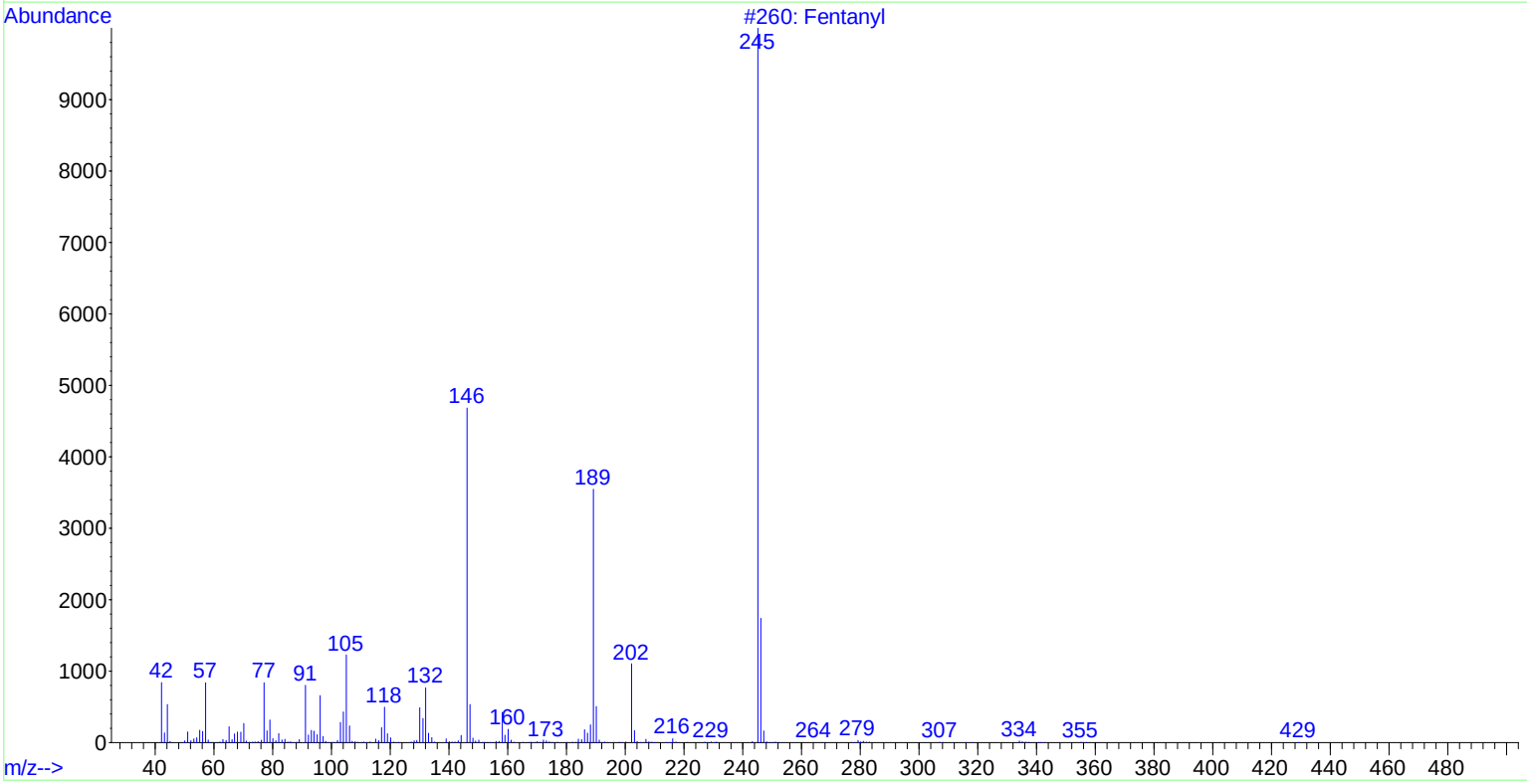
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 6 Jan 2025 11:04 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



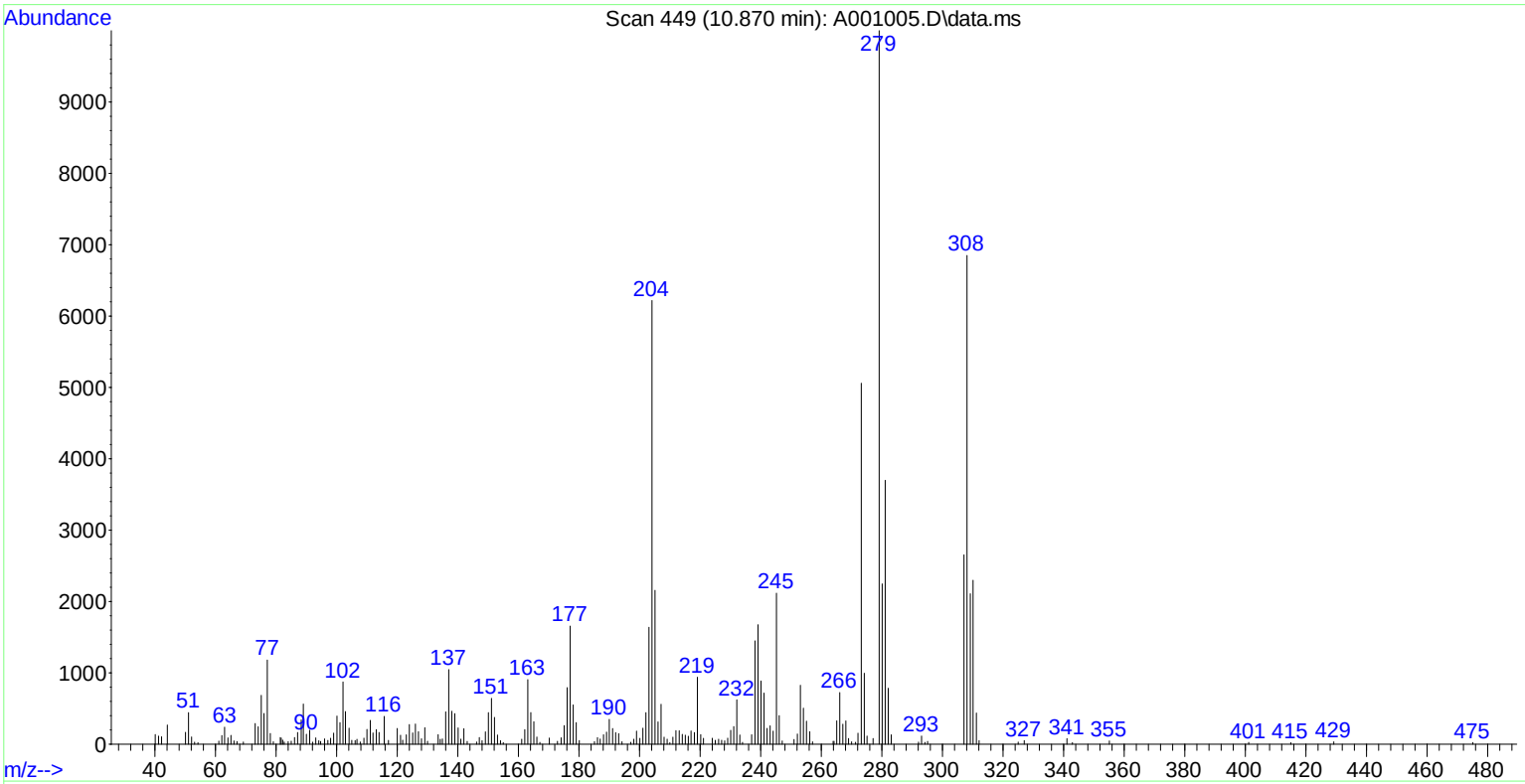


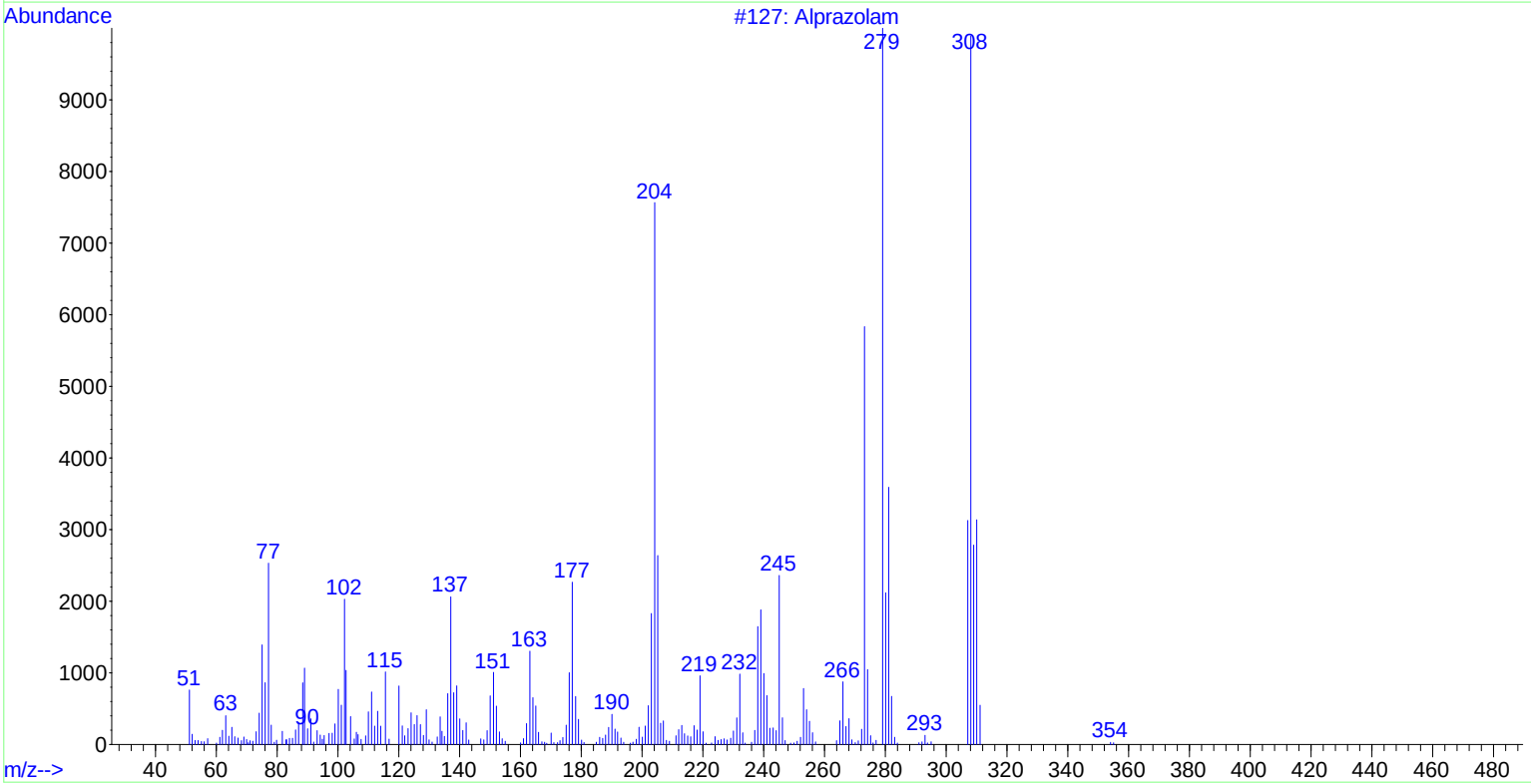
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 6 Jan 2025 11:04 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



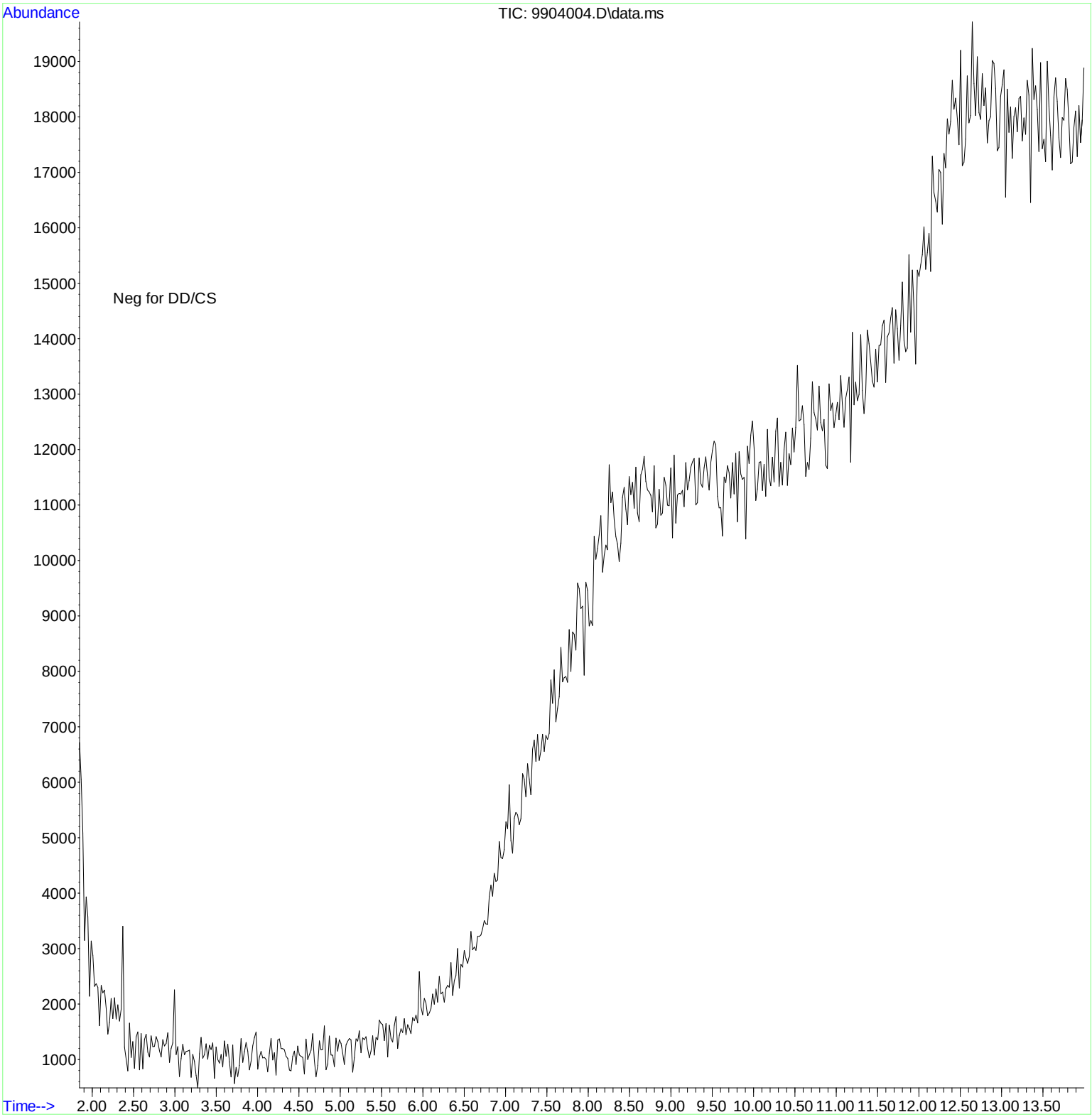


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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 6 Jan 2025 11:04 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN





File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 6 Jan 2025 10:46 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
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 6 Jan 2025 11:21 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK - INSTRUMENT READY 000002664
Misc Info : ACN (C-19-0068)

