Brazoria County Crime Lab

Seized Drugs Section

GC-MS Maintenance Log

Instrument: GCMS-1 **Month/Year:** August 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	8/4/2025	650	Pass	N/A	√	N/A	N/A	N/A	N/A	Maintenance	Analyst		KB
2	8/11/2025	2200	Pass	N/A	√	N/A	N/A	N/A	N/A	Maintenance	Analyst	Helium tank change on 08/07/2025	DS
3	8/18/2025	1300	Pass	N/A	√	N/A	N/A	N/A	N/A	Maintenance	Analyst		KB
4	8/25/2025	2600	Pass	√	√	√	N/A	N/A	N/A	Maintenance	Analyst	Helium tank change on 08/25/2025	DS

Signature: Derek Sanders

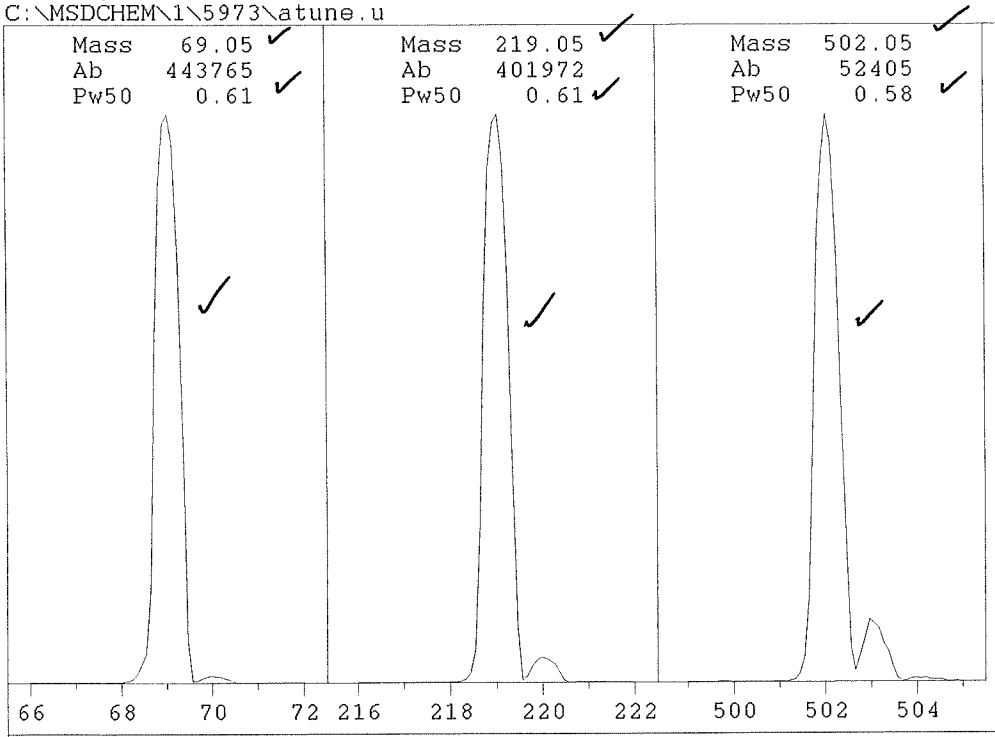
Date: 10/2/2025

5973 Autotune

Mon Aug 04 08:54:12 2025
C:\MSDCHEM\1\5973\atune.u

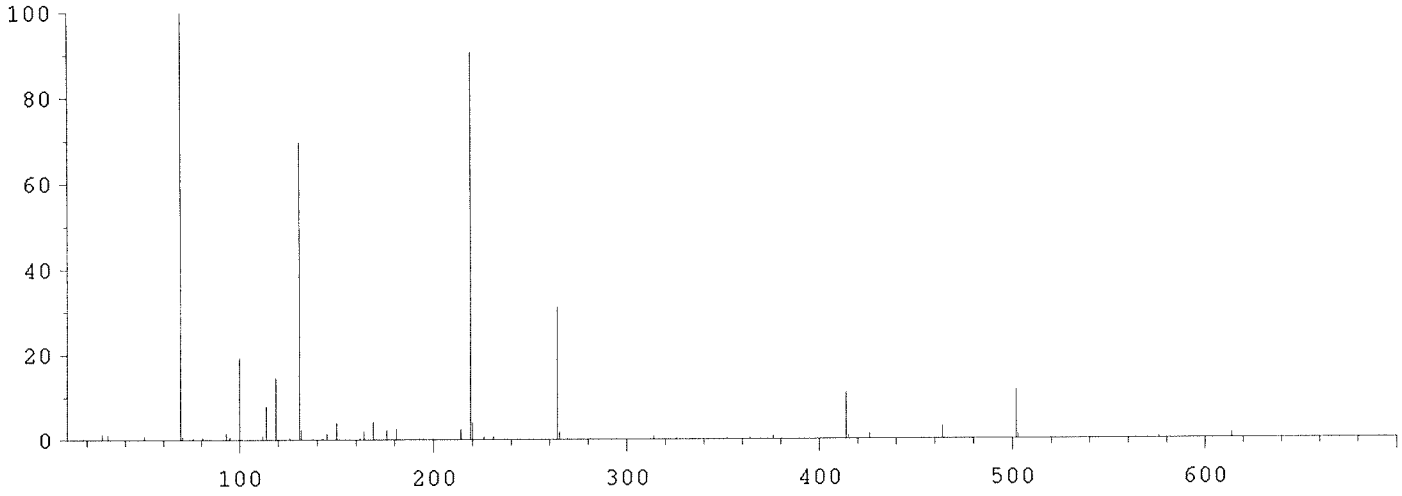
Instrument: SD GCMS 1

KB OK



Ion Pol	POS	MassGain	371
		MassOffs	-11
Emission	34.6	AmuGain	2447
EIEnrgy	69.9	AmuOffs	121
Filament	1	Wid219	-0.044
		DC Pol	POS
Repeller	19.40		
IonFcus	72.1	HEDEnab	ON
EntLens	14.5	EMVolts	1718
EntOffs	16.06		
		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
150 peaks Base: 69.05 Abundance: 409408



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.05	409408	100.00	70.05	4736	1.16
219.05	371968	90.86	220.05	17288	4.65
502.05	47800	11.68	503.05	5439	11.38

Air/Water Check: H20~0.34% N2~1.36% O2~0.24% CO2~0.10% N2/H2O~397.16%

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

Ramp Criteria:
Ion Focus Maximum 90 volts using ion 502; EM Gain 245950
Repeller Maximum 35 volts using ion 219;

MassGain Values @Samples: 370@3 370@2 370@1 370@0 371@FS

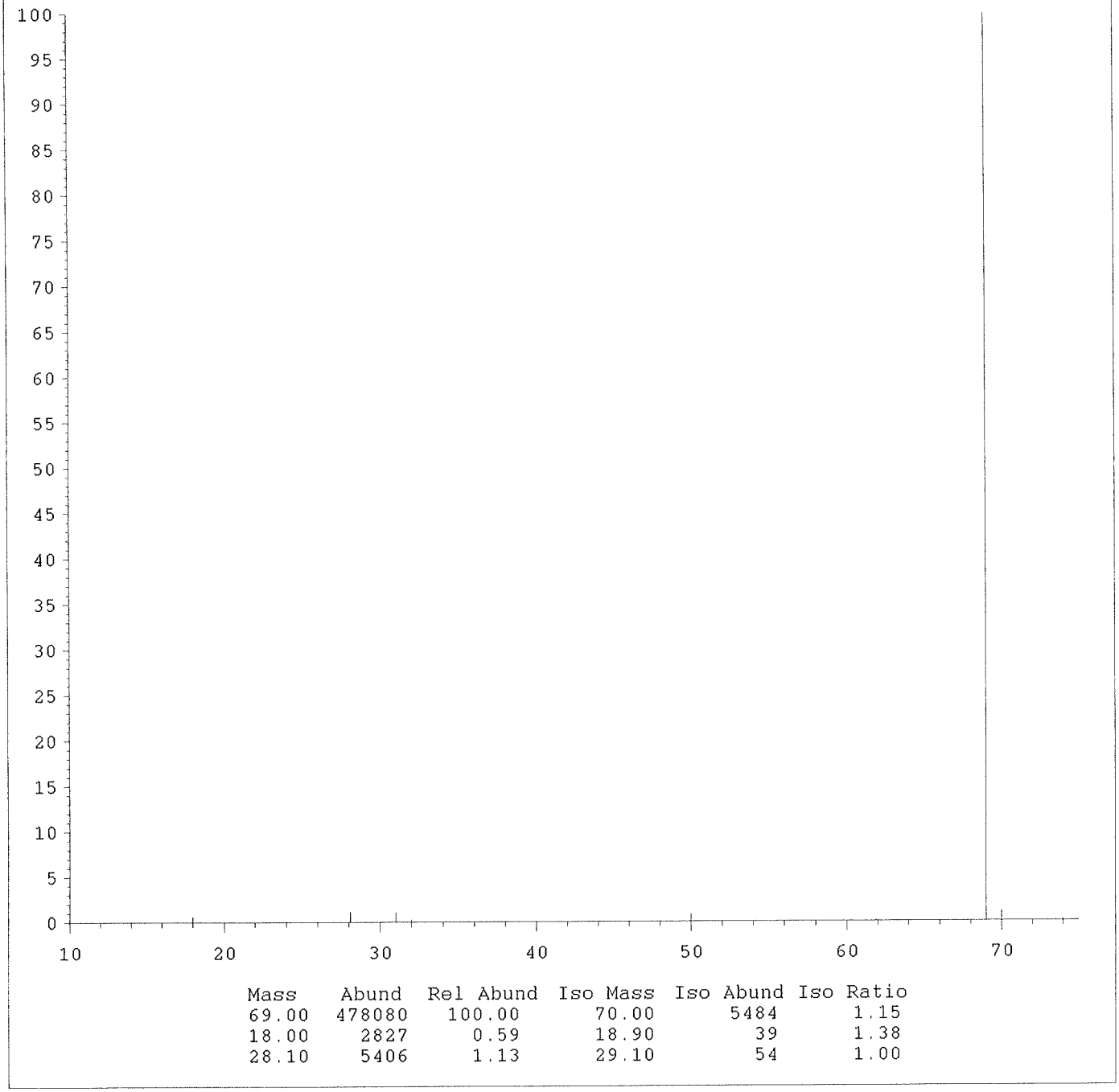
TARGET MASS:	50	69	131	219	414	502	800
Amu Offset:	121.0	121.0	121.0	121.0	121.0	121.0	121.0
Entrance Lens Offset:	16.1	16.1	16.1	16.1	16.1	16.1	16.1

597x Air and Water Check

IB
OK

Instrument: SD GCMS 1
Mon Aug 04 08:46:56 2025 C:\MSDCHEM\1\5973\

Scan: 10.00 - 75.00 Samples: 8 Thresh: 0 Step: 0.10
92 peaks Base: 69.00 Abundance: 478080



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	478080	100.00	70.00	5484	1.15
18.00	2827	0.59	18.90	39	1.38
28.10	5406	1.13	29.10	54	1.00

Current Params used: atune.u

Relative abundances:

18/69 =	0.59 ✓	Water%
28/69 =	1.13 ✓	Nitrogen%
32/69 =	0.28	Oxygen%
44/69 =	0.10	Carbon Dioxide%
28/18 =	191.23	Nitrogen/Water%

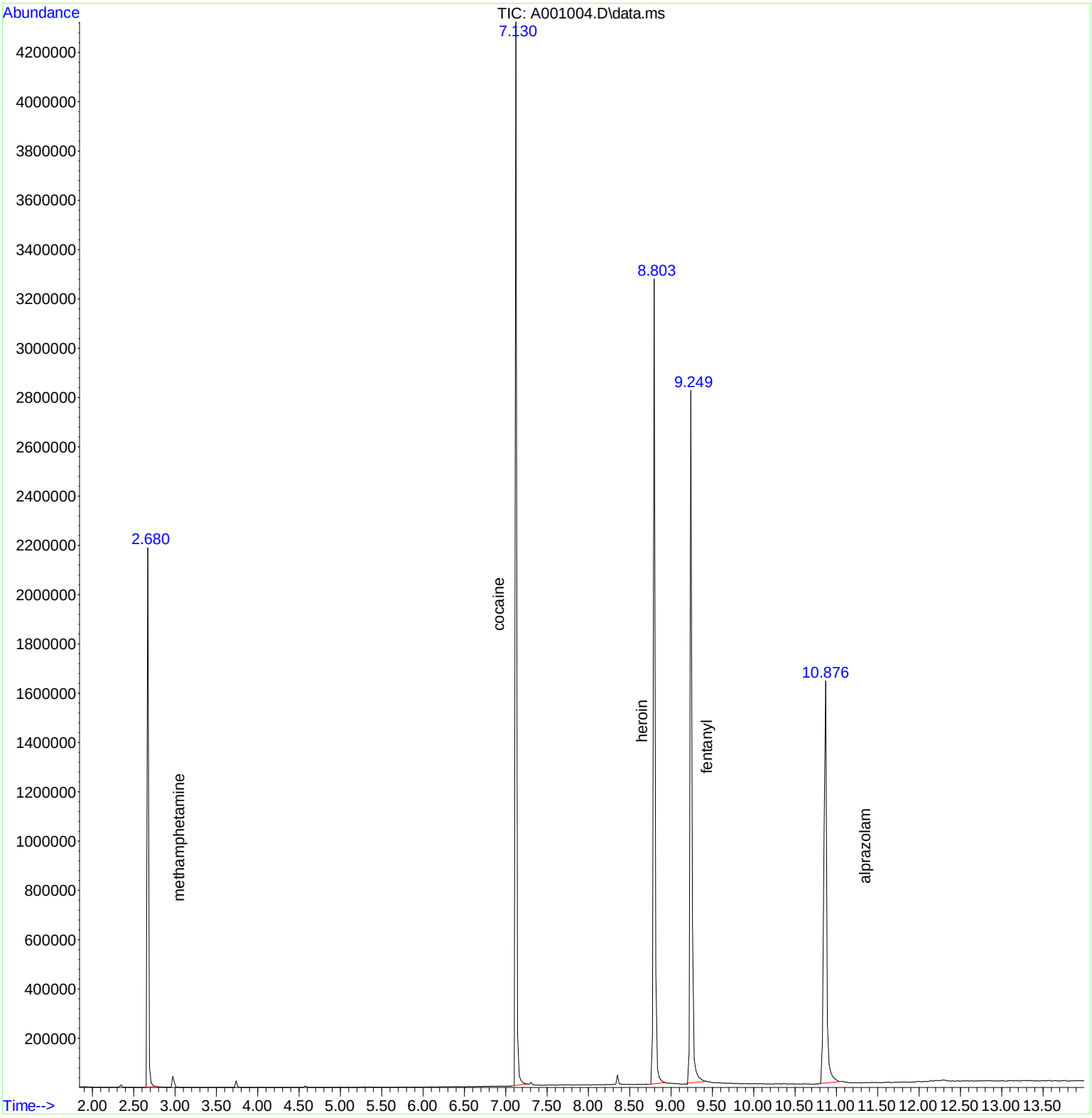
System Verification - Tune (Detector Optimization) Portion

KB

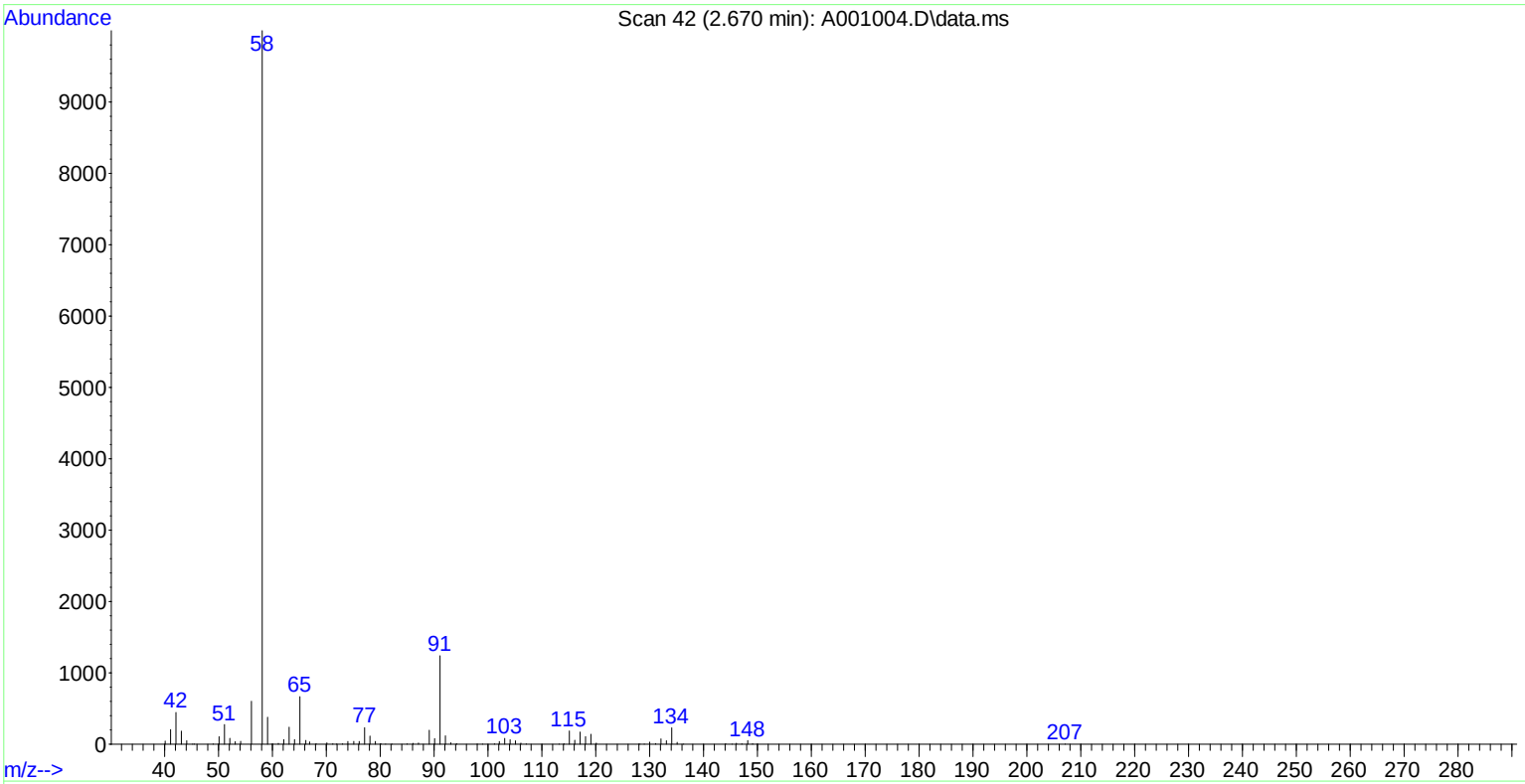
Instrument Name	: SD GCMS 1	
DC Polarity	: Positive	
Filament	: 1	
BasePeak should be 69 or 219		Ok
Position of mass 69	69.05	Ok
Position of mass 219	219.05	Ok
Position of mass 502	502.05	Ok
Position of isotope mass 70	70.02	Ok
Position of isotope mass 220	220.02	Ok
Position of isotope mass 503	503.06	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%)	9.98	Ok
Ratio of 219 to 69 should be > 40% and is	91.27	Ok
Ratio of 502 to 69 should be > 2.4% and is	12.03	Ok
Mass 69 Precursor (<= 3%)	0.13	Ok
Mass 219 Precursor (<= 6%)	0.19	Ok
Mass 502 Precursor (<= 12%)	0.17	Ok
Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	0.38	Ok
Ratio of 28 to 69 (<10%)	1.25	Ok
Electron Multiplier Voltage	1718	Ok

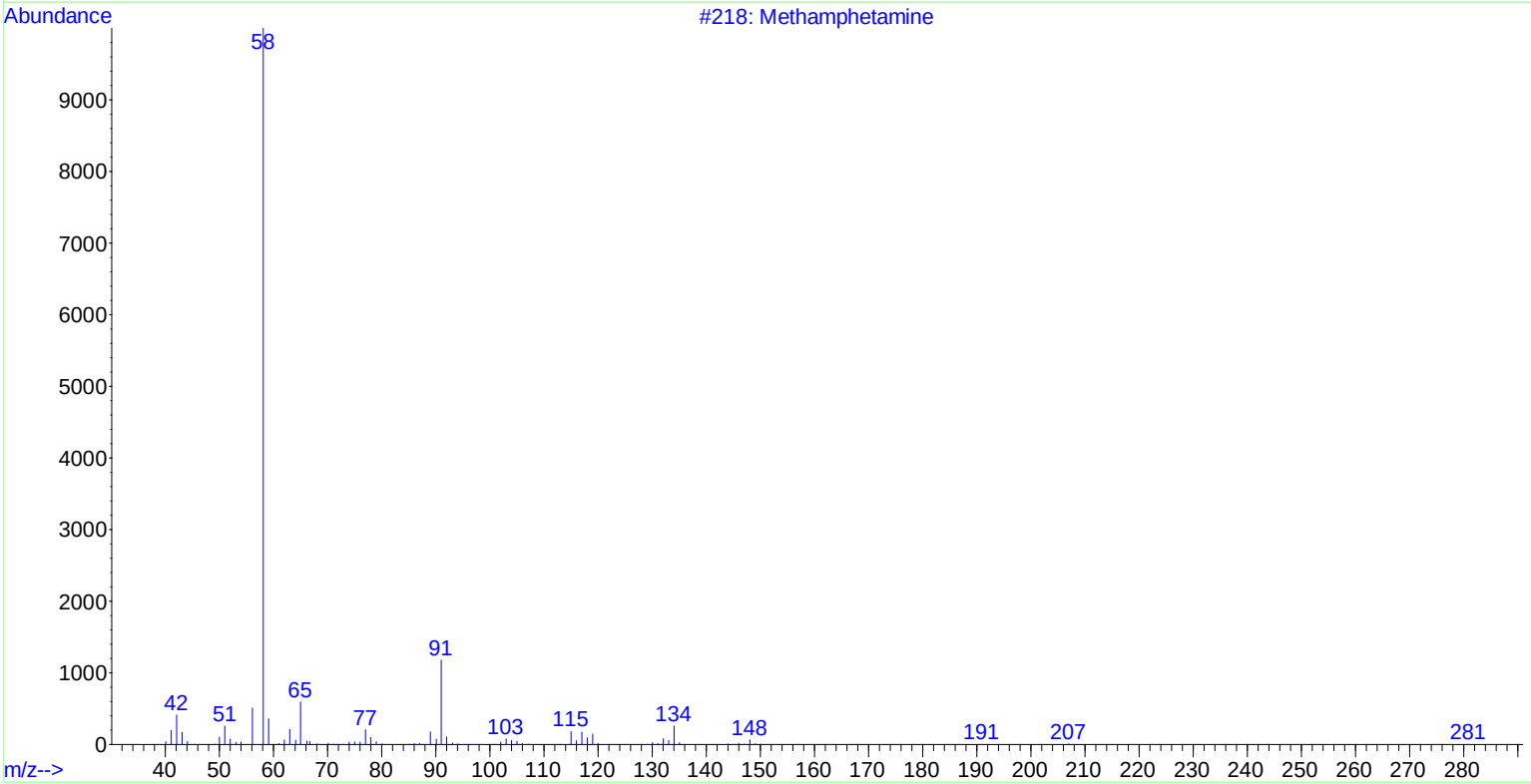
Tune portion of System Verification passed.

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Instrument : SD GCMS 1
Acquired : 4 Aug 2025 10:51 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN

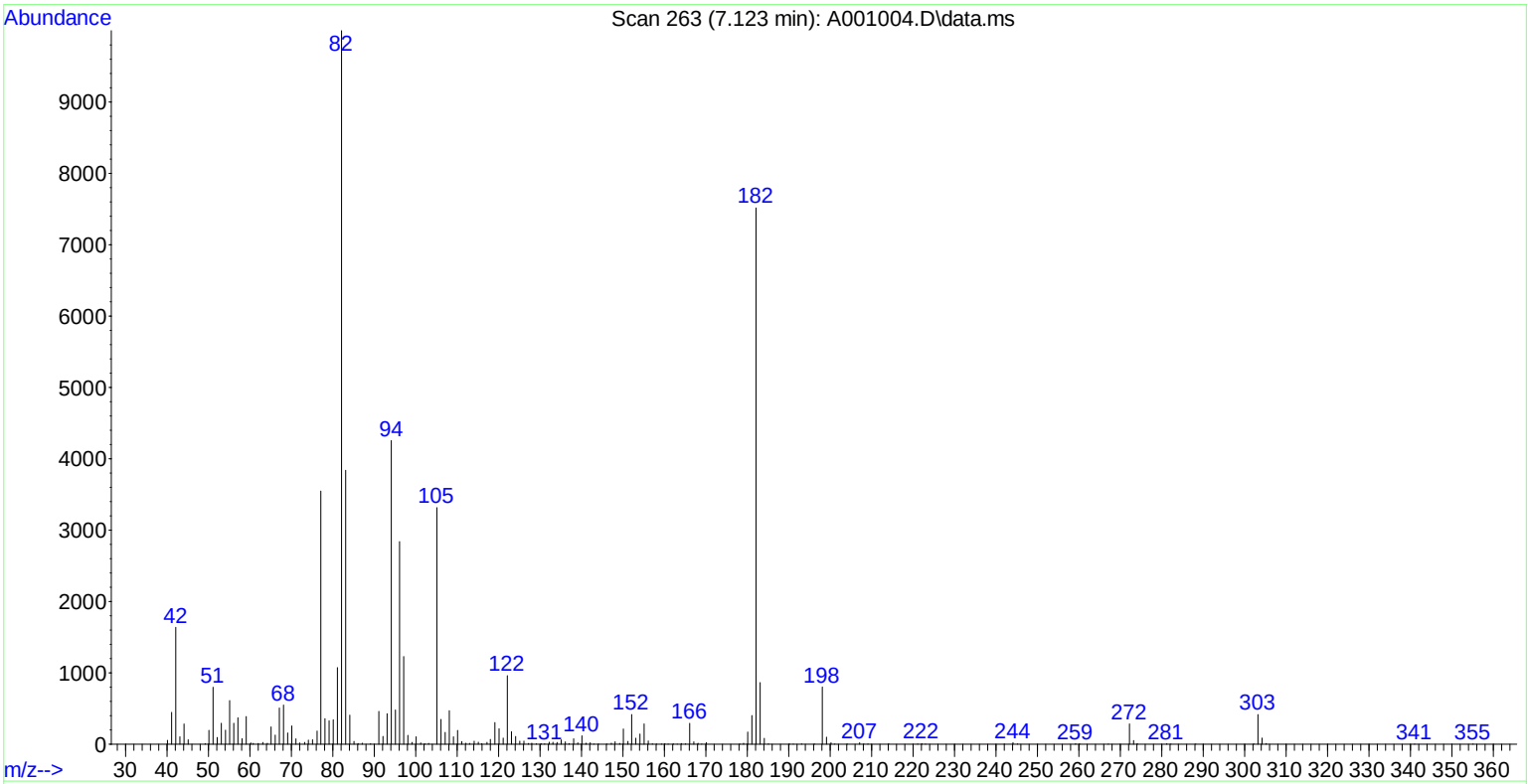


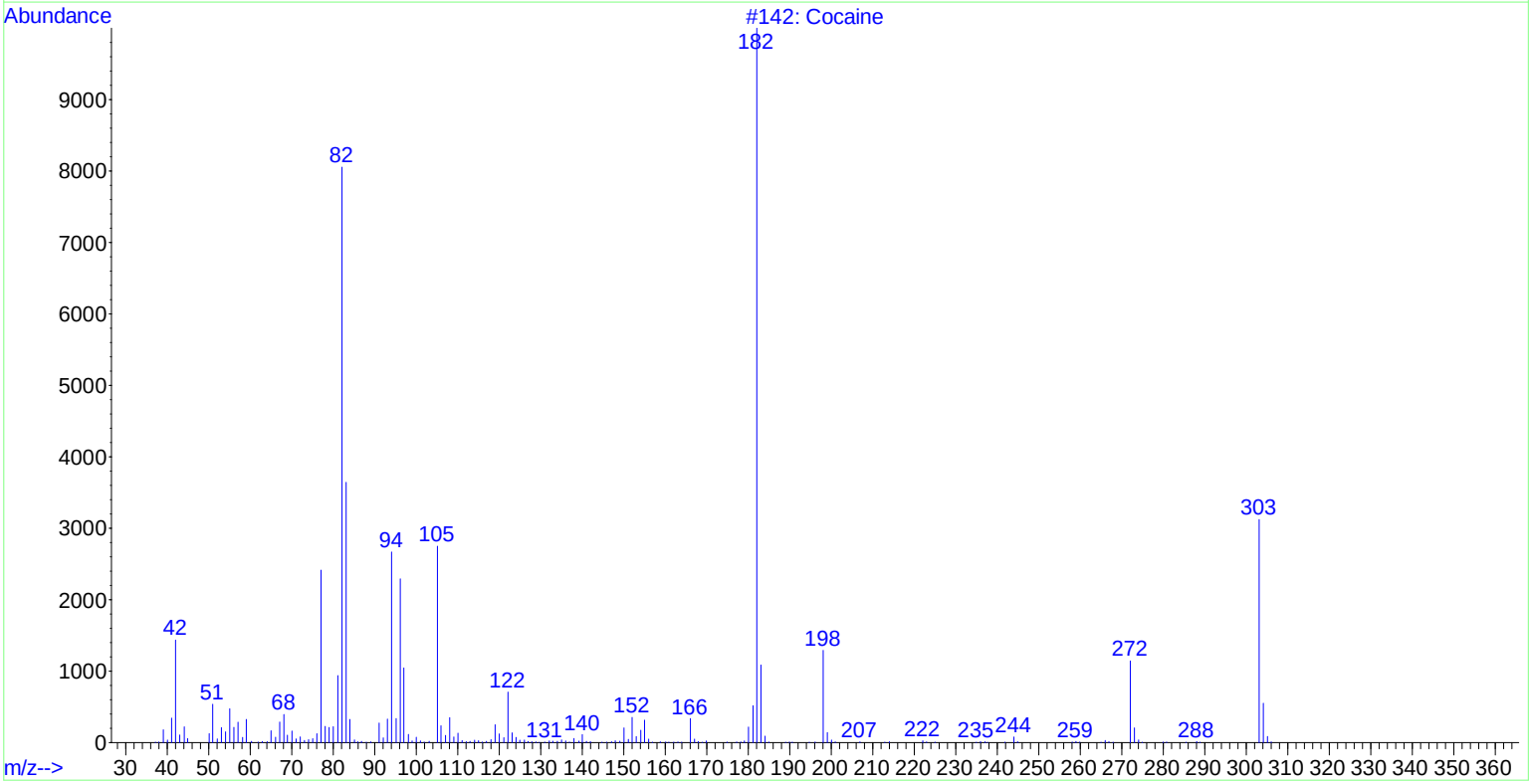
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 4 Aug 2025 10:51 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



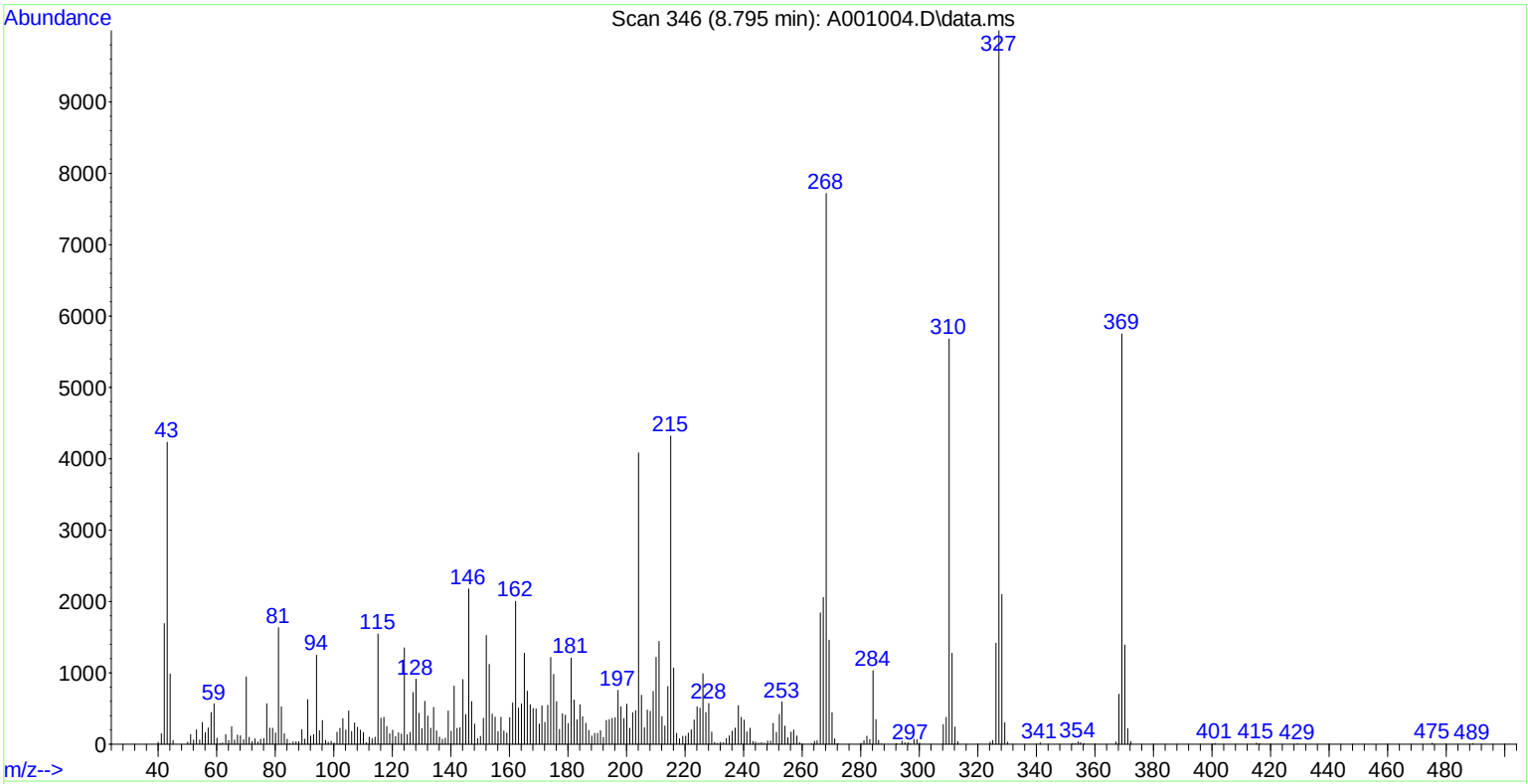


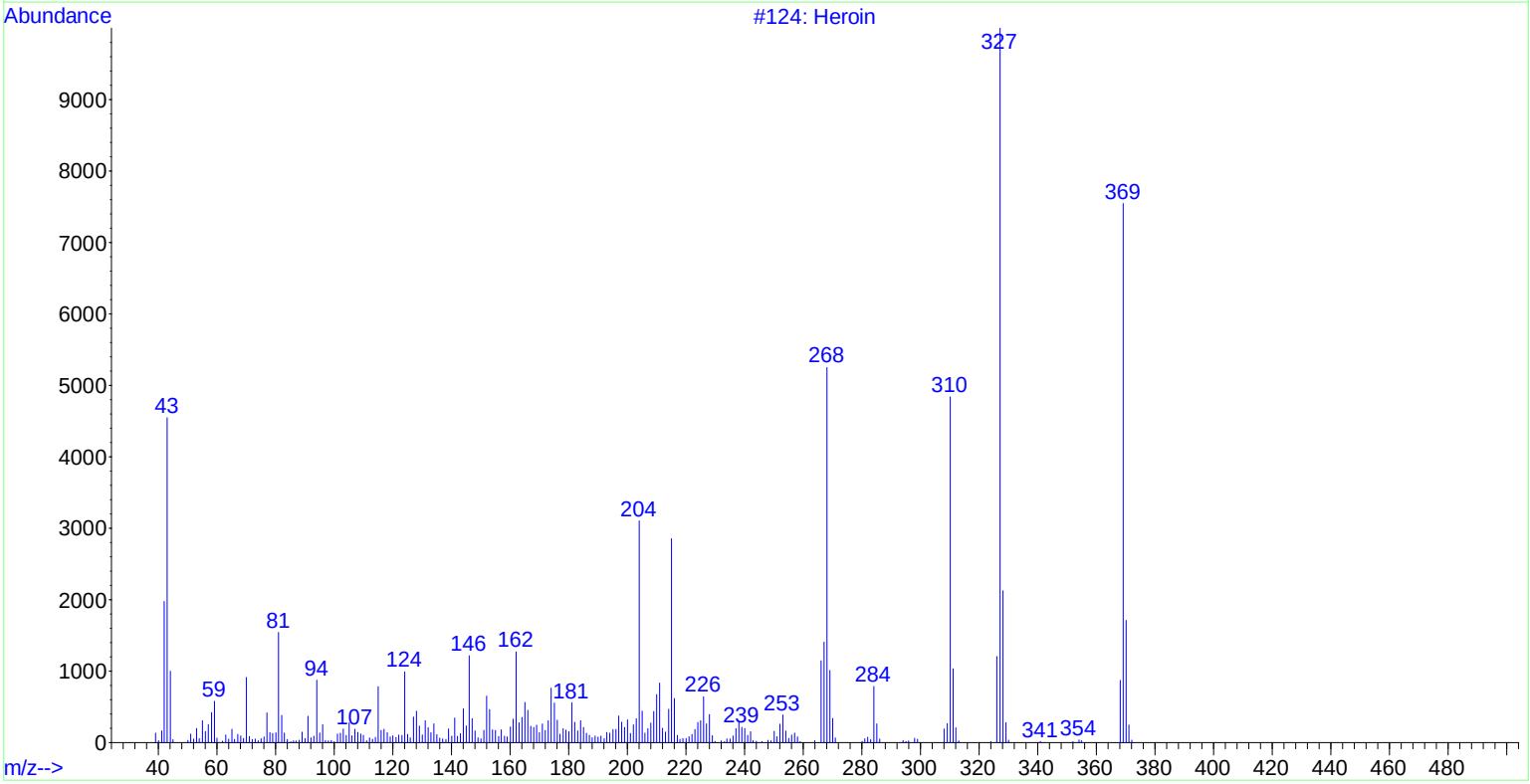
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Instrument : SD GCMS 1
Acquired : 4 Aug 2025 10:51 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



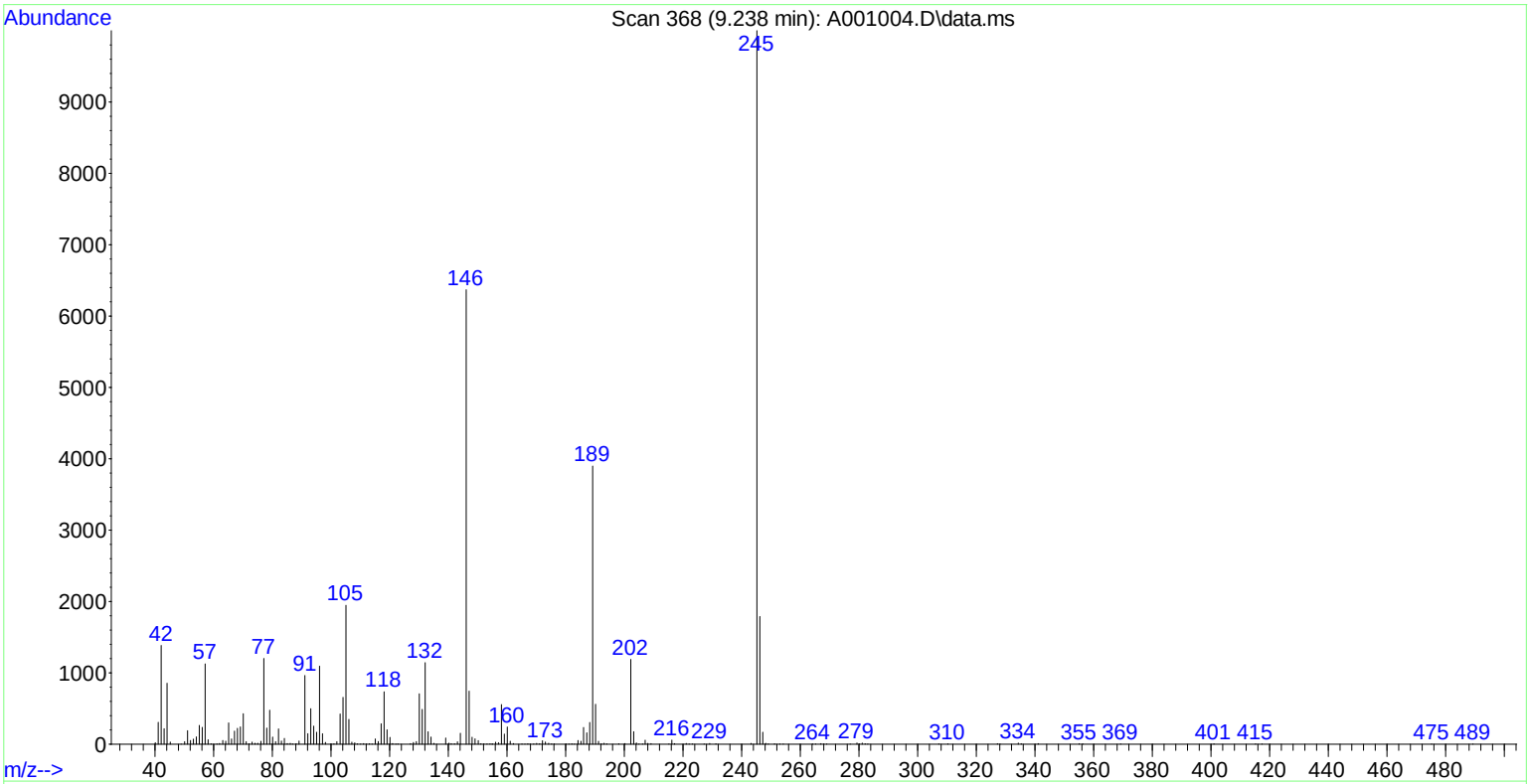


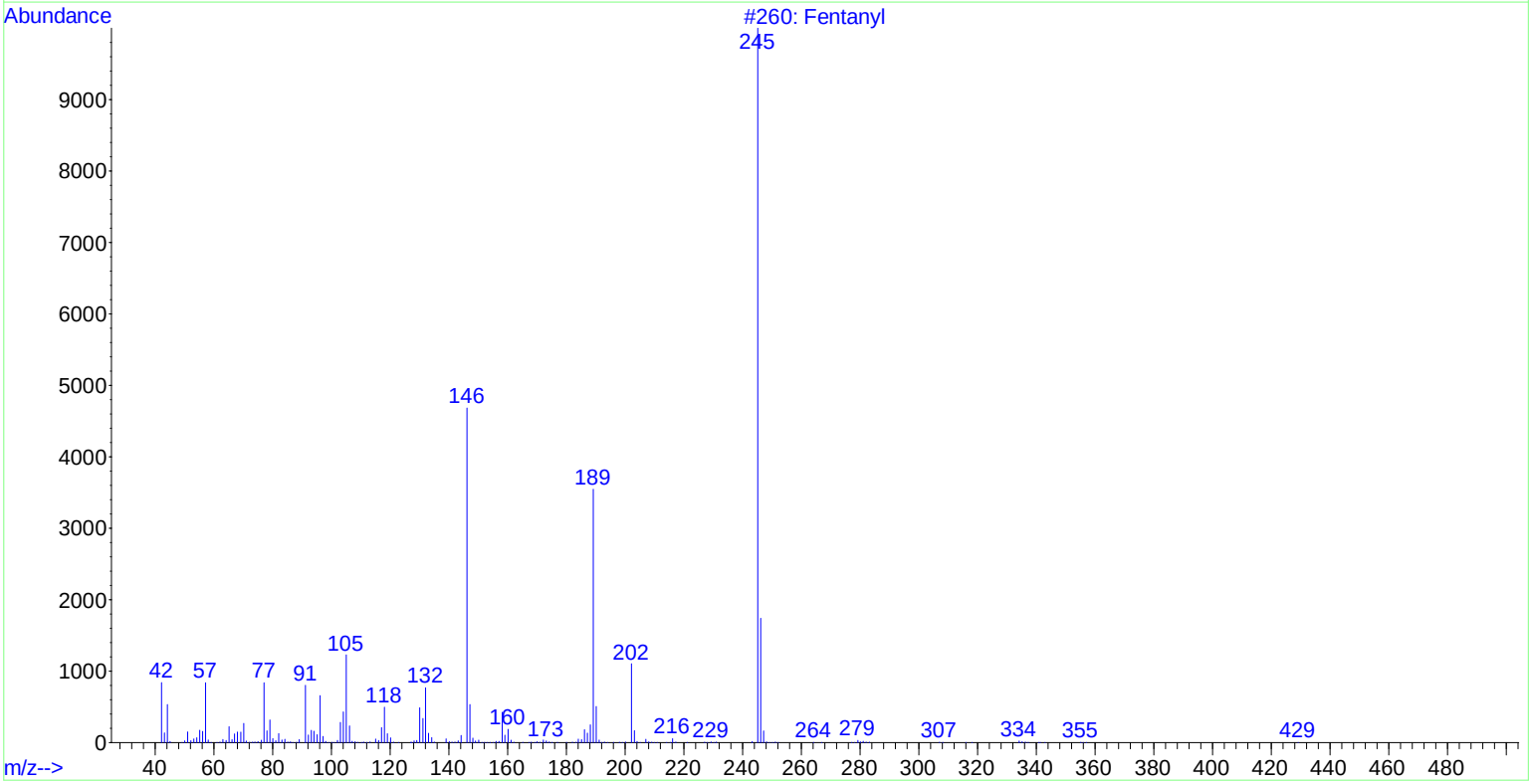
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 4 Aug 2025 10:51 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



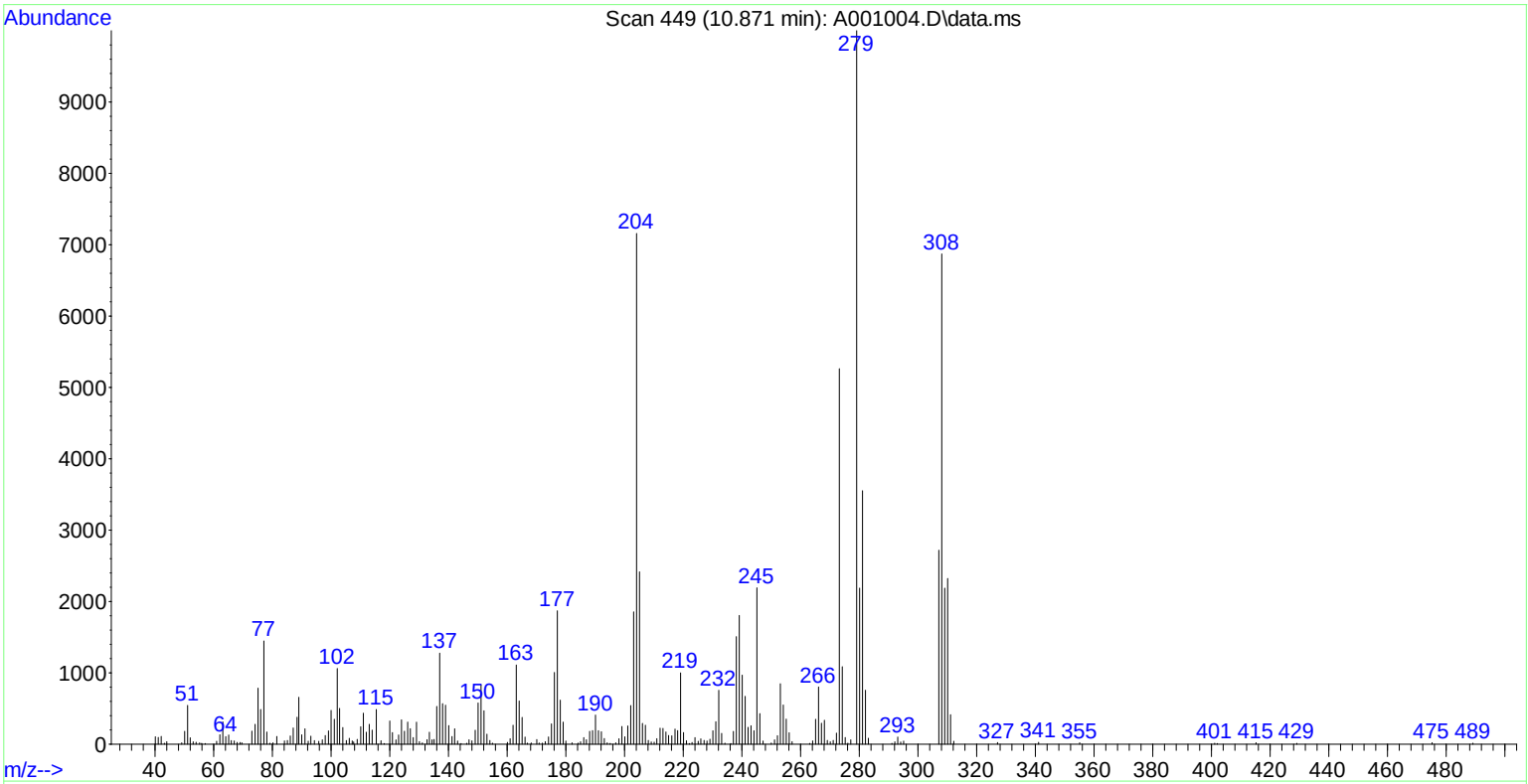


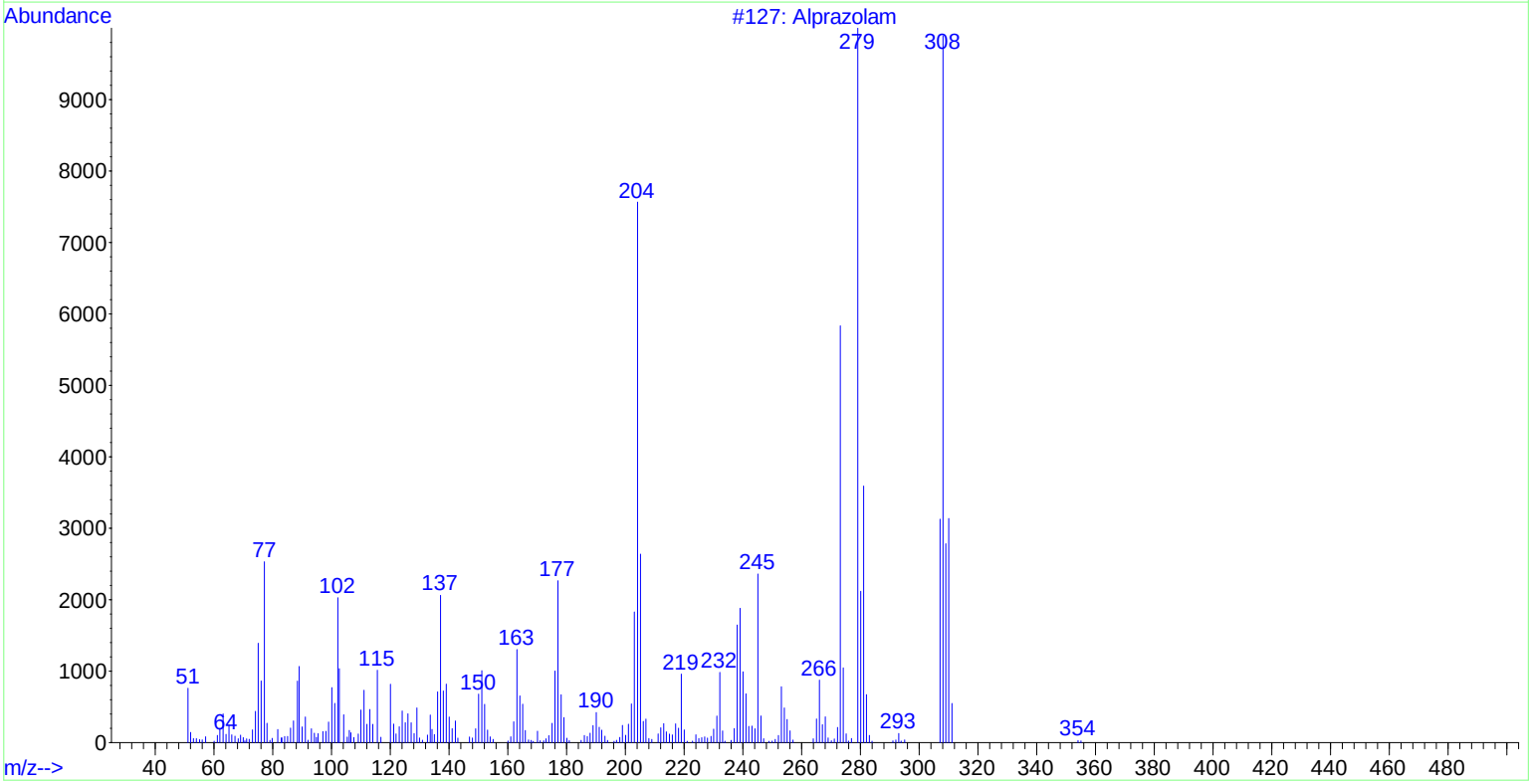
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 4 Aug 2025 10:51 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



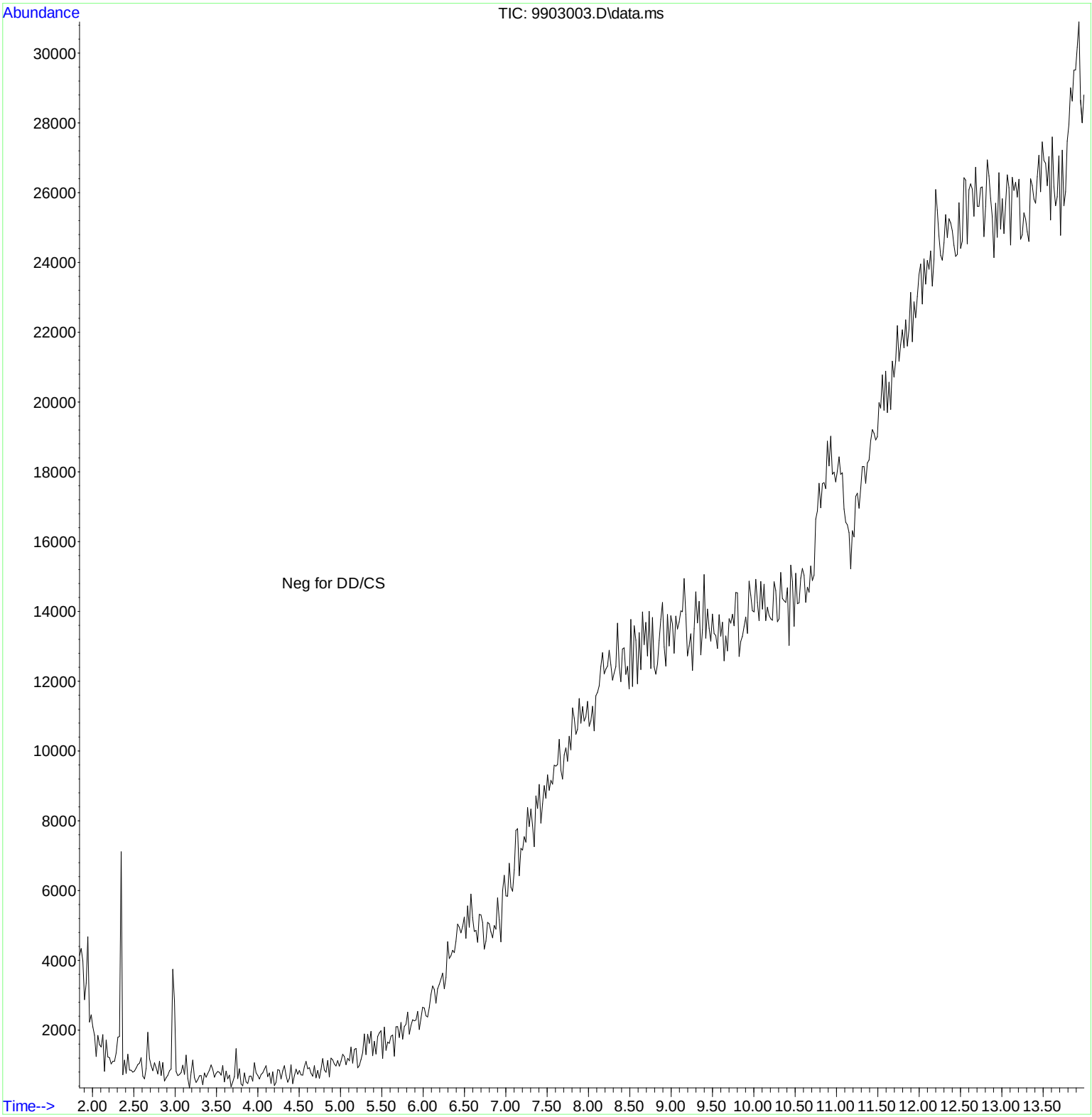


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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
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Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN

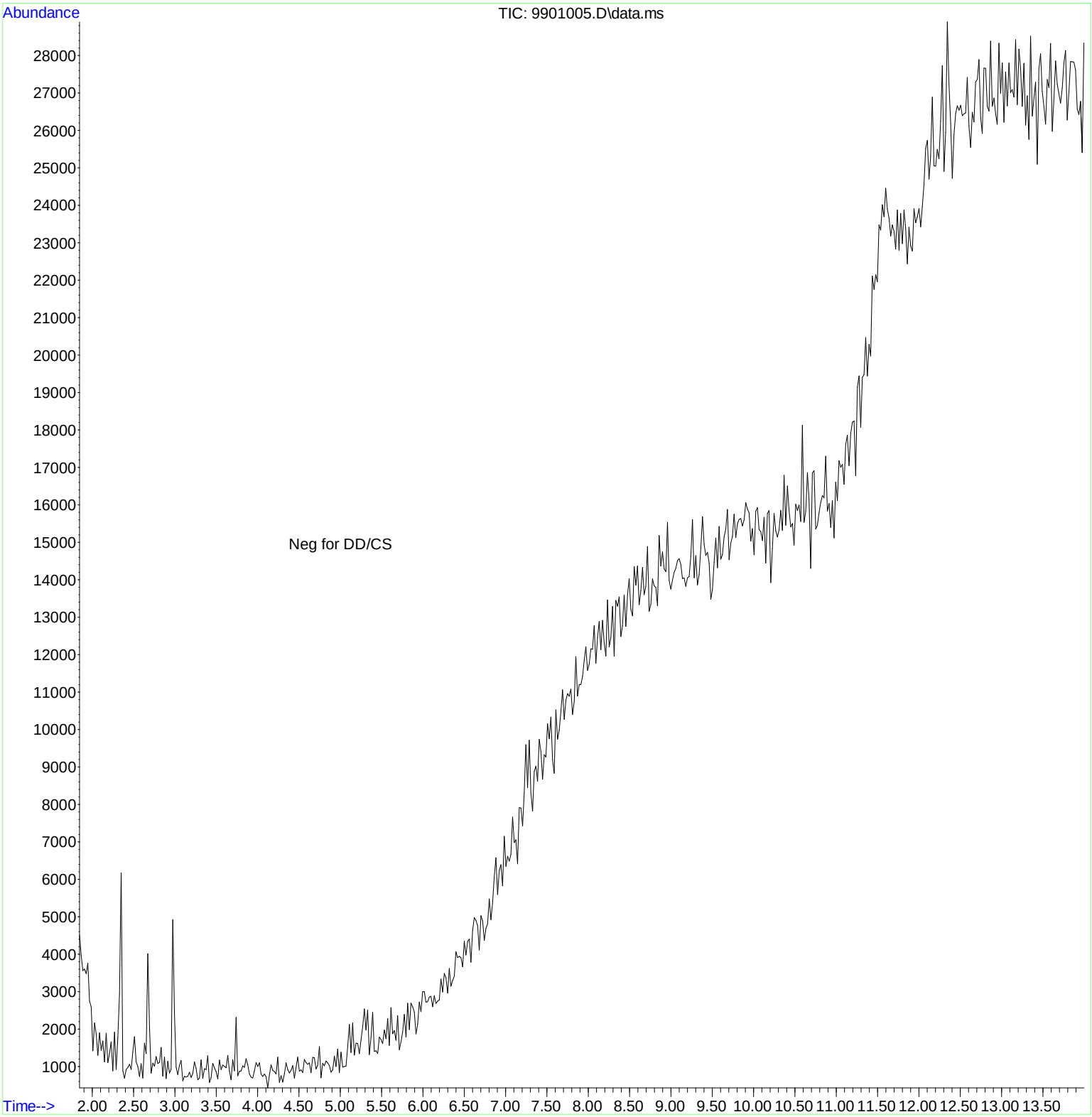




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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 4 Aug 2025 10:34 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK PRIOR TO CAYMAN GC/MS 000002664
Misc Info : ACN (C-19-0068)



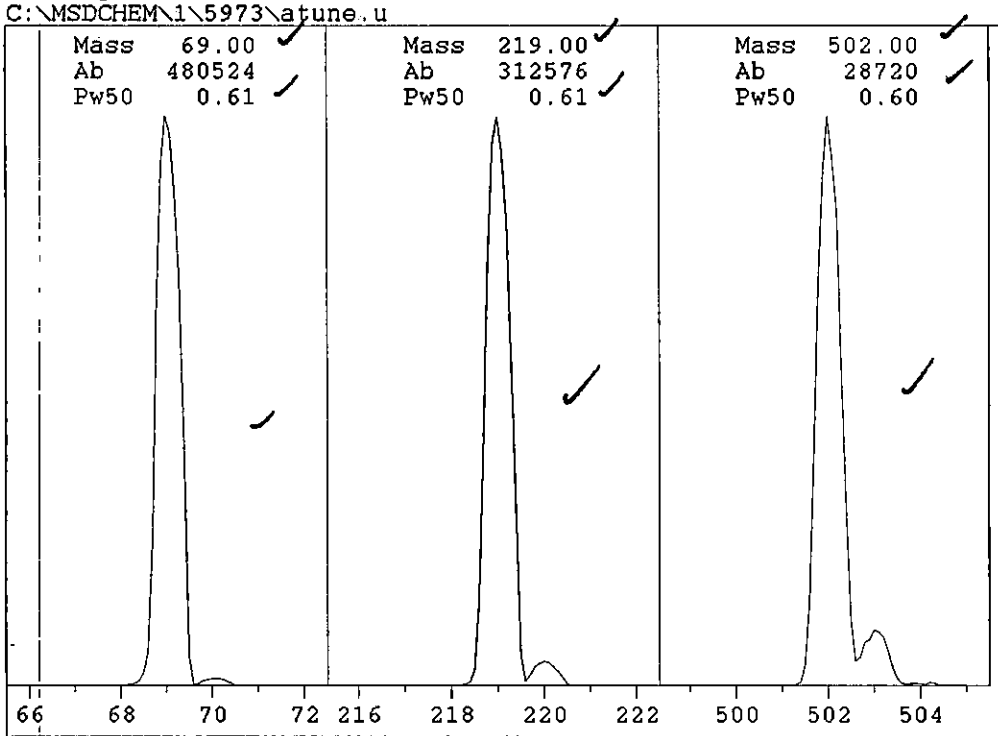
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... 2025\080425\9901005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 4 Aug 2025 11:09 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK - INSTRUMENT READY 000002664
Misc Info : ACN (C-19-0068)



5973 Autotune

Mon Aug 11 08:56:43 2025 Instrument: SD GCMS 1

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



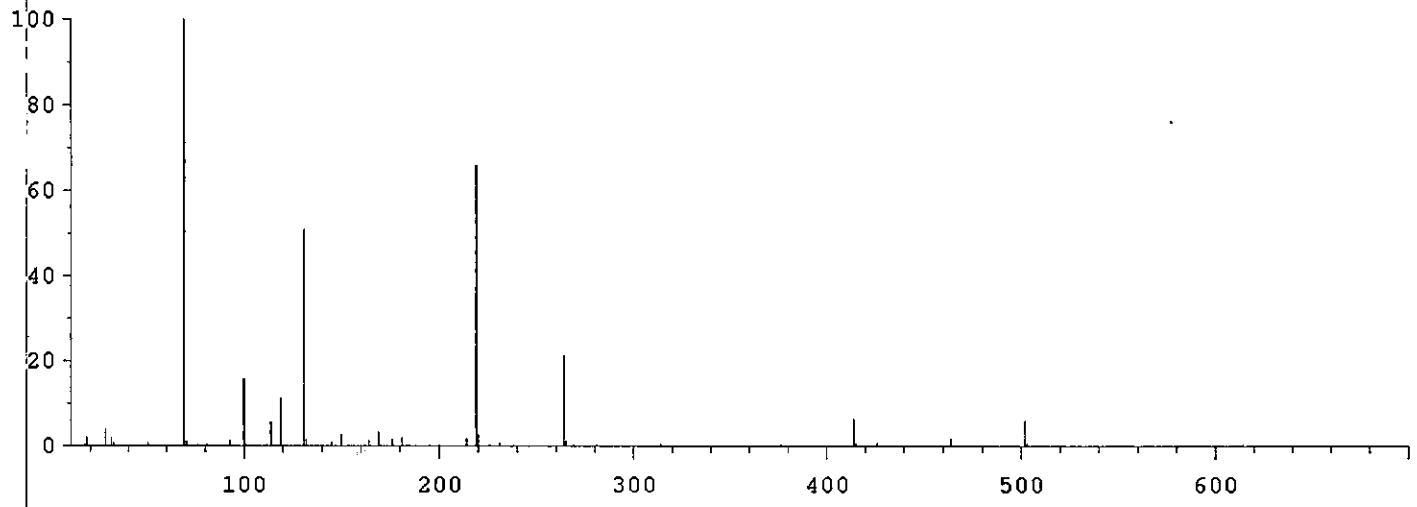
Ion Pol	POS	MassGain	371
		MassOffs	-10
Emission	34.6	AmuGain	2445
EIEnrgy	69.9	AmuOffs	119
Filament	1	Wid219	-0.039
		DC Pol	POS
Repeller	15.05		
IonFcus	88.3	HEDEnab	ON
EntLens	2.5	EMVolts	1624
EntOffs	17.82		
		Samples	8
PFTBA	OPEN	Averages	3
		Stepsize	0.10

Zones:

MS Source	230	TurboSpd	100
MS Quad	150		

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

132 peaks Base: 69.10 Abundance: 436864



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.10	436864	100.00	70.10	4848	1.11
219.00	287936	65.91	220.00	12131	4.21
502.00	25848	5.92	503.00	3160	12.23

Air/Water Check: H2O~2.01% N2~3.80% O2~0.81% CO2~0.06% N2/H2O~188.77%

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

Ramp Criteria:

Ion Focus Maximum 90 volts using ion 502: EM Gain 150801

Repeller Maximum 35 volts using ion 219:

MassGain Values @Samples: 370@3 370@2 370@1 370@0 371@FS

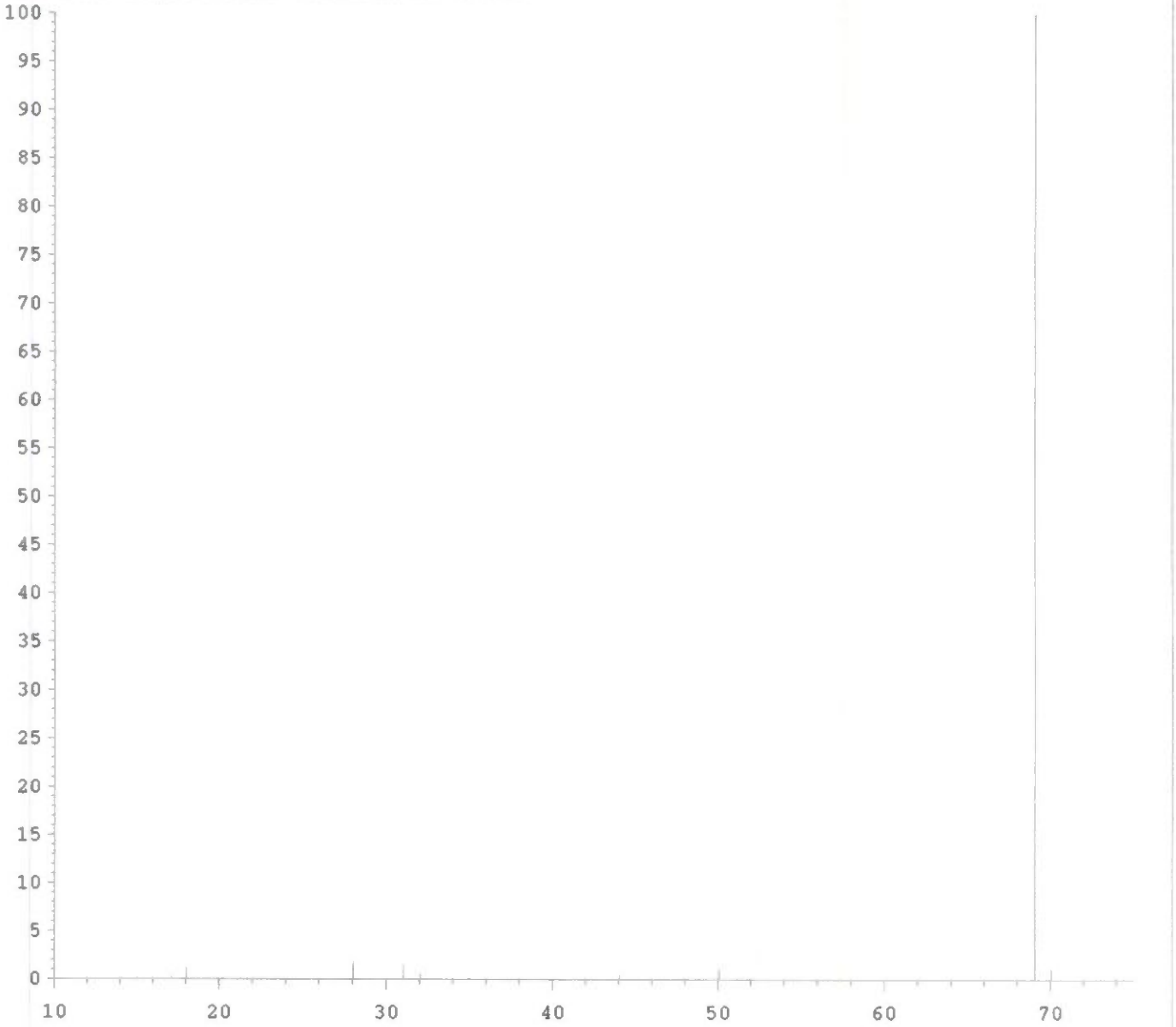
TARGET MASS:	50	69	131	219	414	502	800
Amu Offset:	119.0	119.0	119.0	119.0	119.0	119.0	119.0
Entrance Lens Offset:	17.8	17.8	17.8	17.8	17.8	17.8	17.8

DS
OK

597x Air and Water Check

Instrument: SD GCMS 1
Mon Aug 11 08:48:17 2025 C:\MSDCHEM\1\5973\

Scan: 10.00 - 75.00 Samples: 8 Thresh: 0 Step: 0.10
73 peaks Base: 69.05 Abundance: 438272



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.05	438272	100.00	70.05	4655	1.06
18.05	5157	1.18	19.05	167	3.24
28.05	7952	1.81	29.05	235	2.96

Current Params used: atune.u

Relative abundances:

18/69 =	1.18	Water%
28/69 =	1.81	Nitrogen%
32/69 =	0.58	Oxygen%
44/69 =	0.49	Carbon Dioxide%
28/18 =	154.20	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	69.01	Ok
Position of mass 219	219.00	Ok
Position of mass 502	502.00	Ok
Position of isotope mass 70	70.04	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%)	1.10	Ok
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.29	Ok
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.06	Ok
Ratio of 219 to 69 should be > 40% and is	68.44	Ok
Ratio of 502 to 69 should be > 2.4% and is	6.35	Ok
Mass 69 Precursor (<= 3%)	0.05	Ok
Mass 219 Precursor (<= 6%)	0.08	Ok
Mass 502 Precursor (<= 12%)	0.19	Ok
Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	2.10	Ok
Ratio of 28 to 69 (<10%)	3.82	Ok
Electron Multiplier Voltage	1624	Ok

Tune portion of System Verification passed.

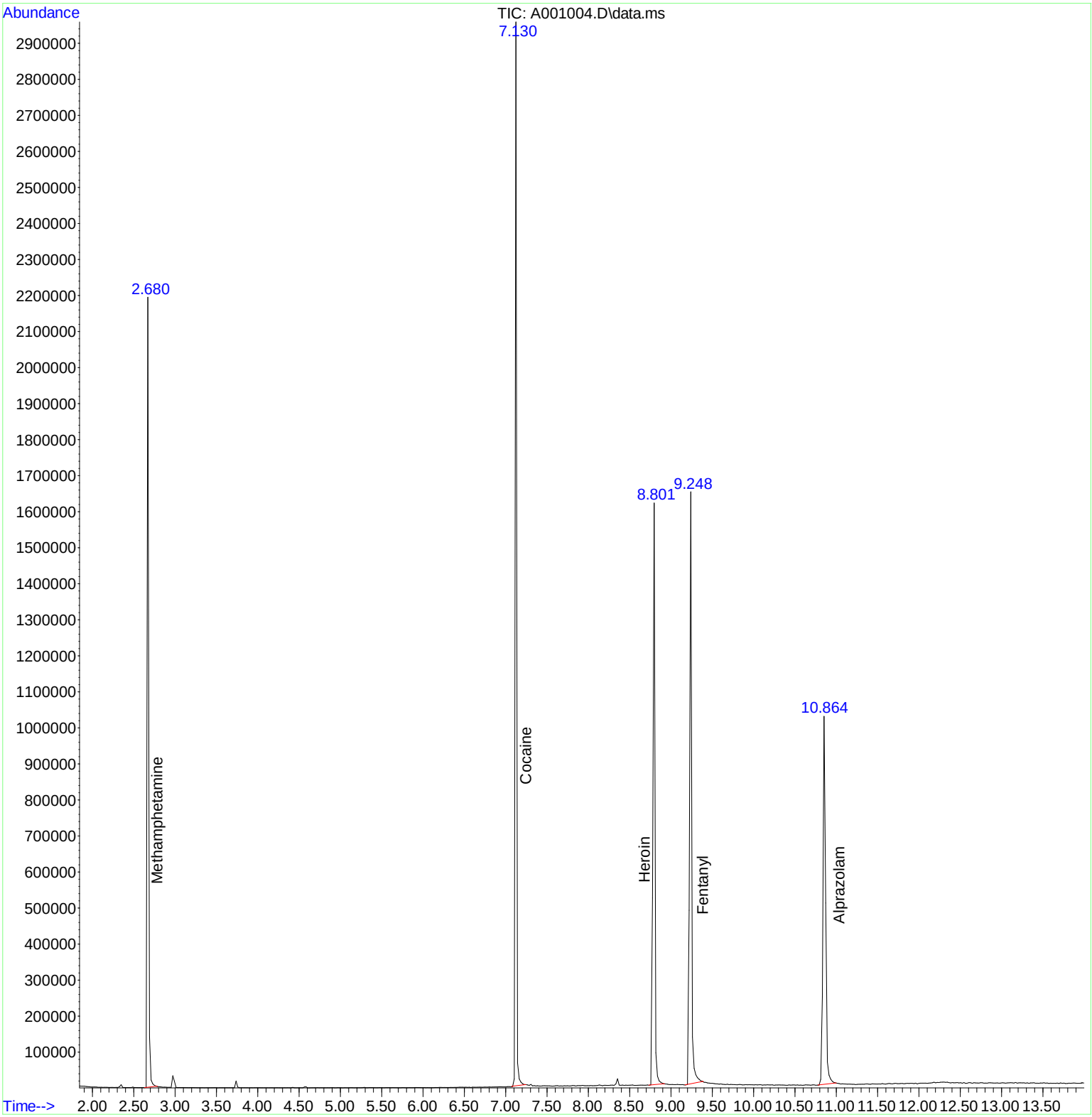
BCCL GC/MS #1
Retention Times for the Week of:

08/11/2025 - 08/17/2025

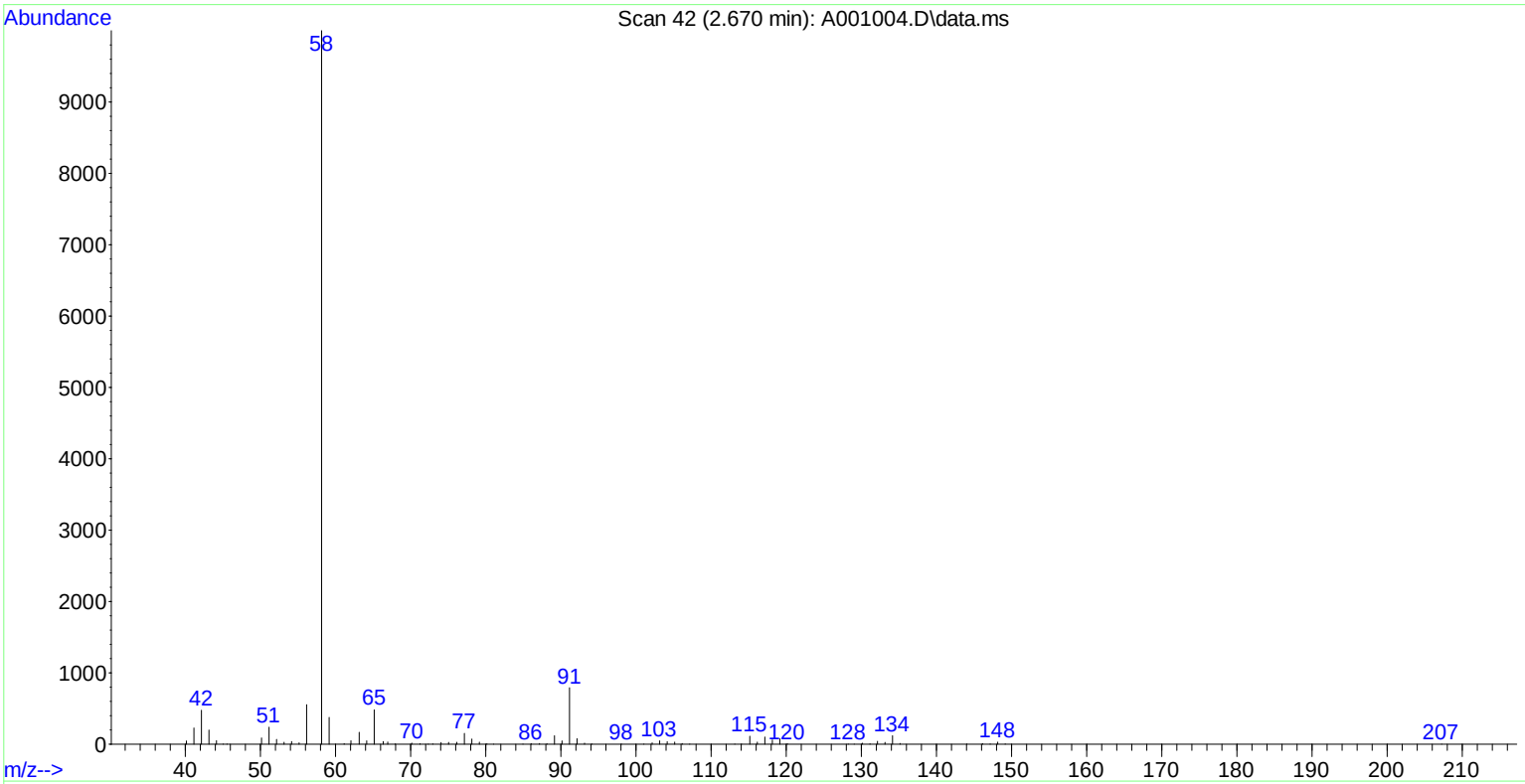
[x] **Tune: 08/11/2025 - Autotune DS**

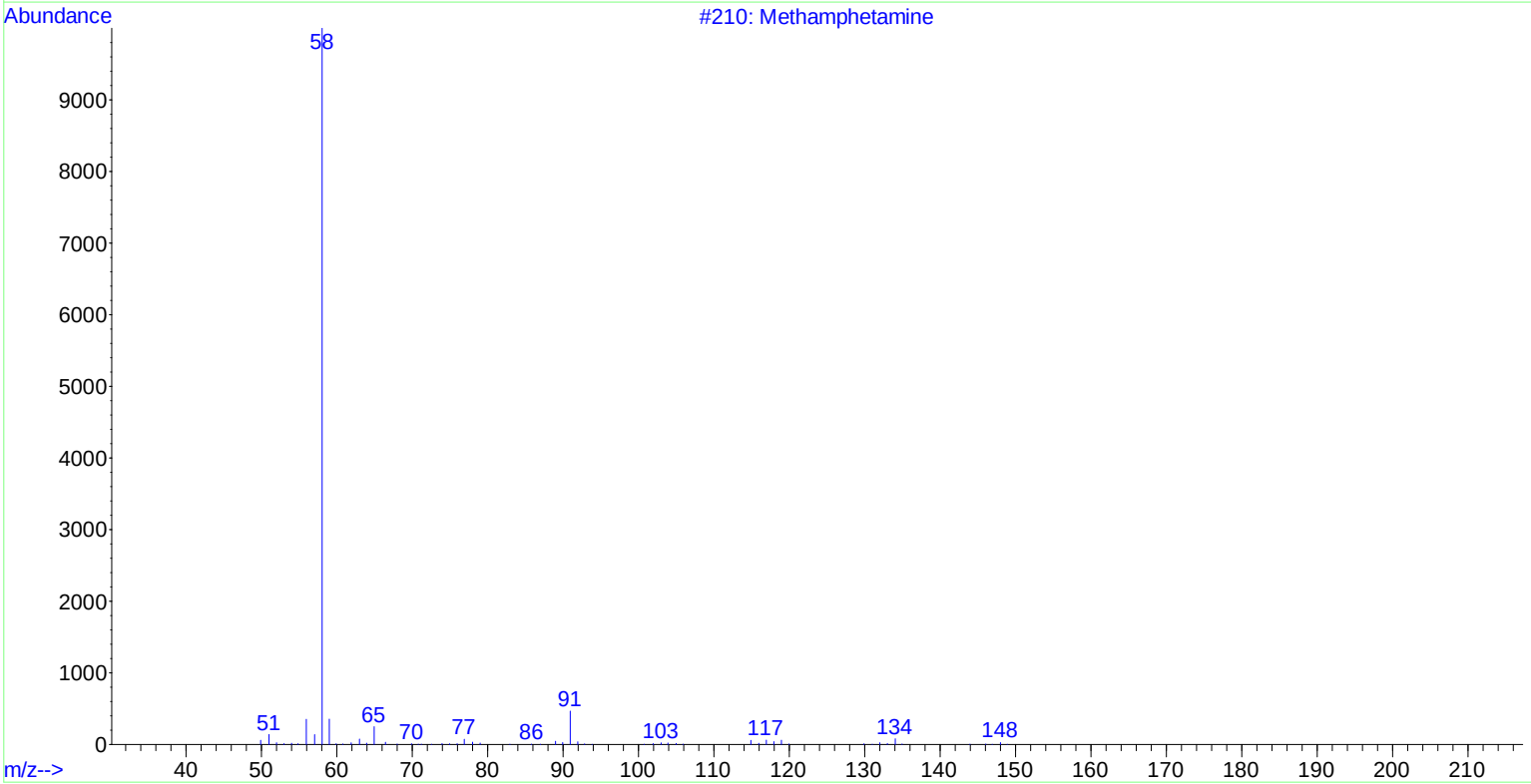
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	BCCL GenDrug	2.680	2.653	2.706
Cocaine	R-24-060	BCCL GenDrug	7.130	7.058	7.201
Heroin	R-24-060	BCCL GenDrug	8.801	8.712	8.889
Fentanyl	R-24-060	BCCL GenDrug	9.248	9.155	9.340
Alprazolam	R-24-060	BCCL GenDrug	10.864	10.755	10.972

File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\081125\A001004.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 11 Aug 2025 10:05 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN

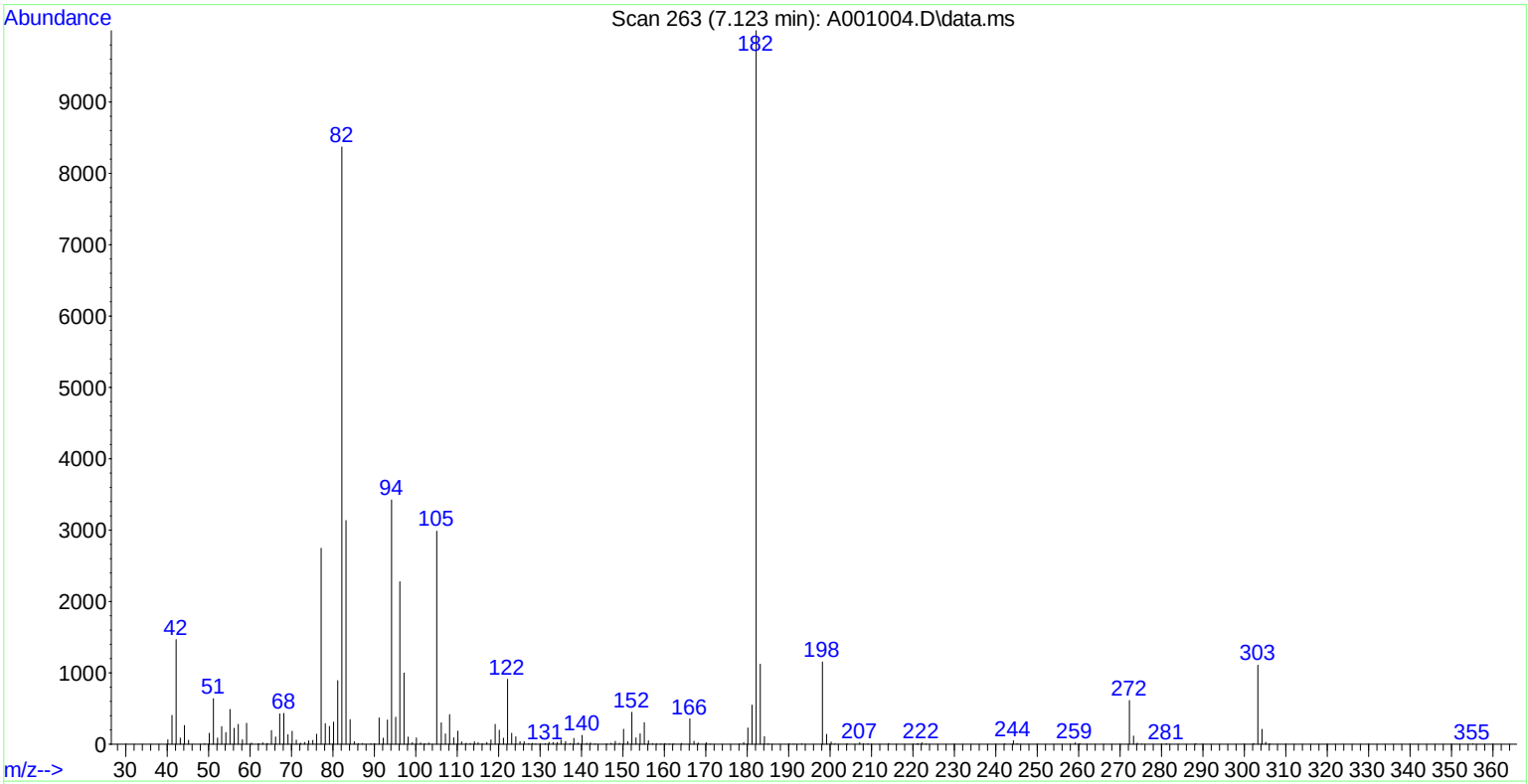


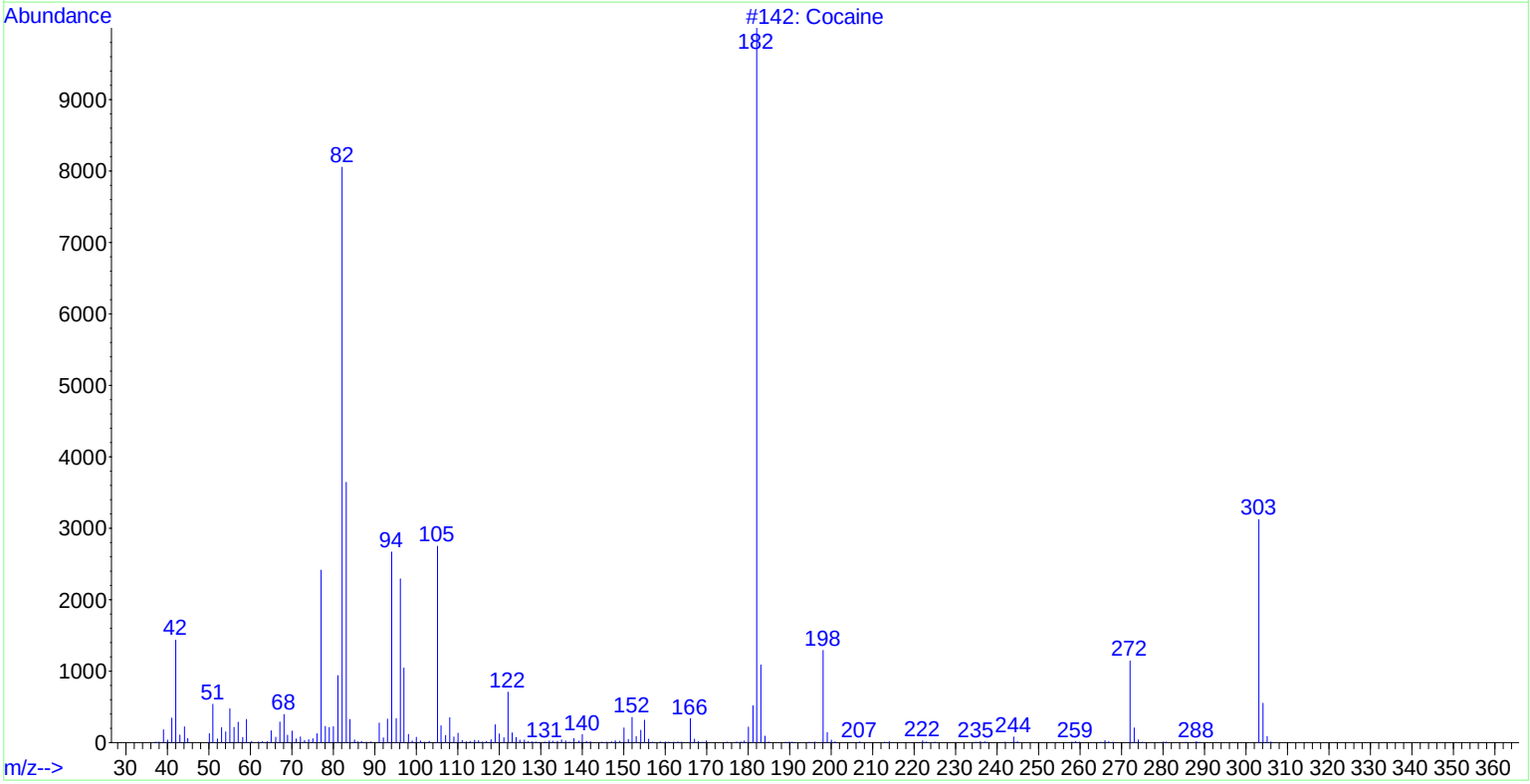
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Instrument : SD GCMS 1
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Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



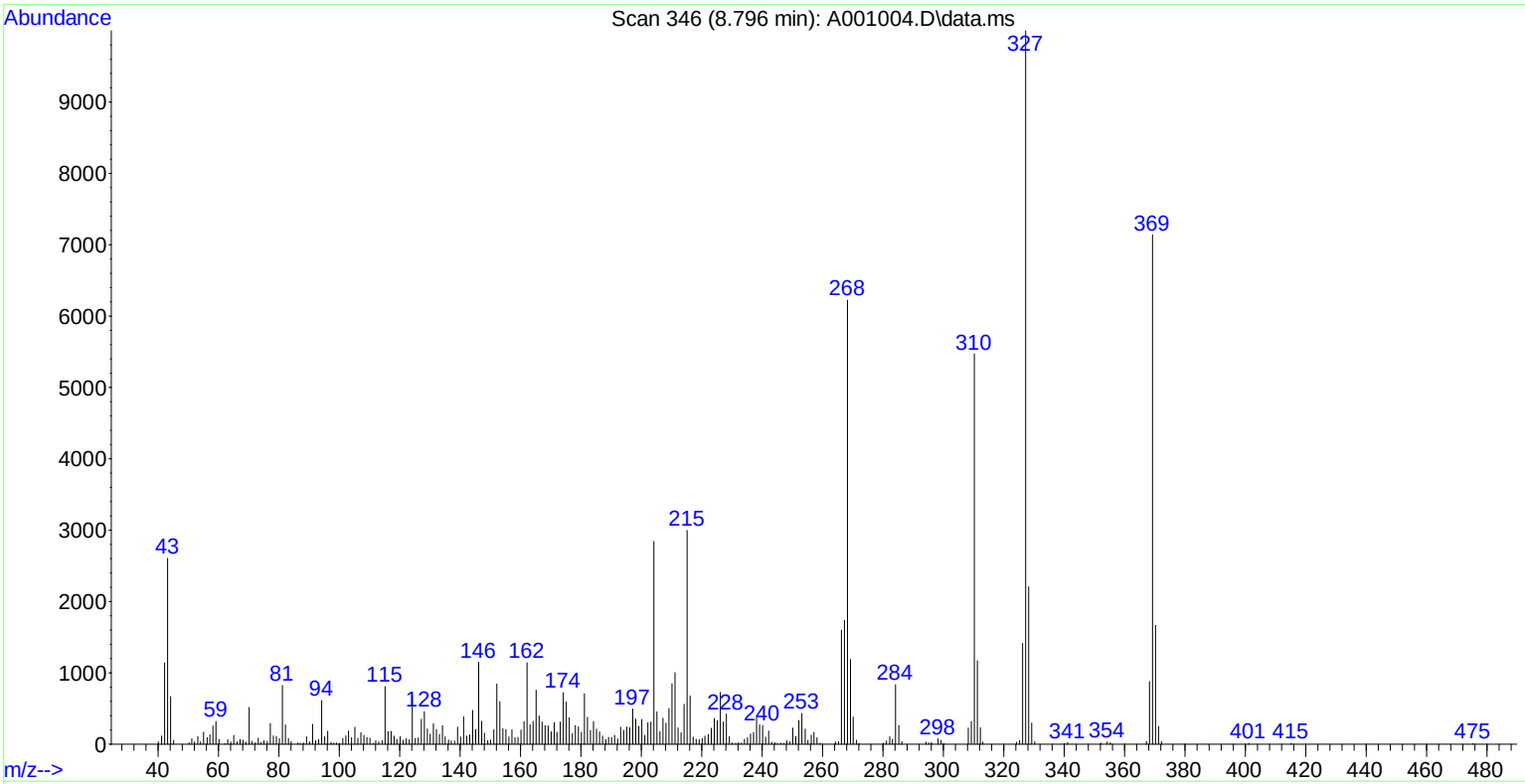


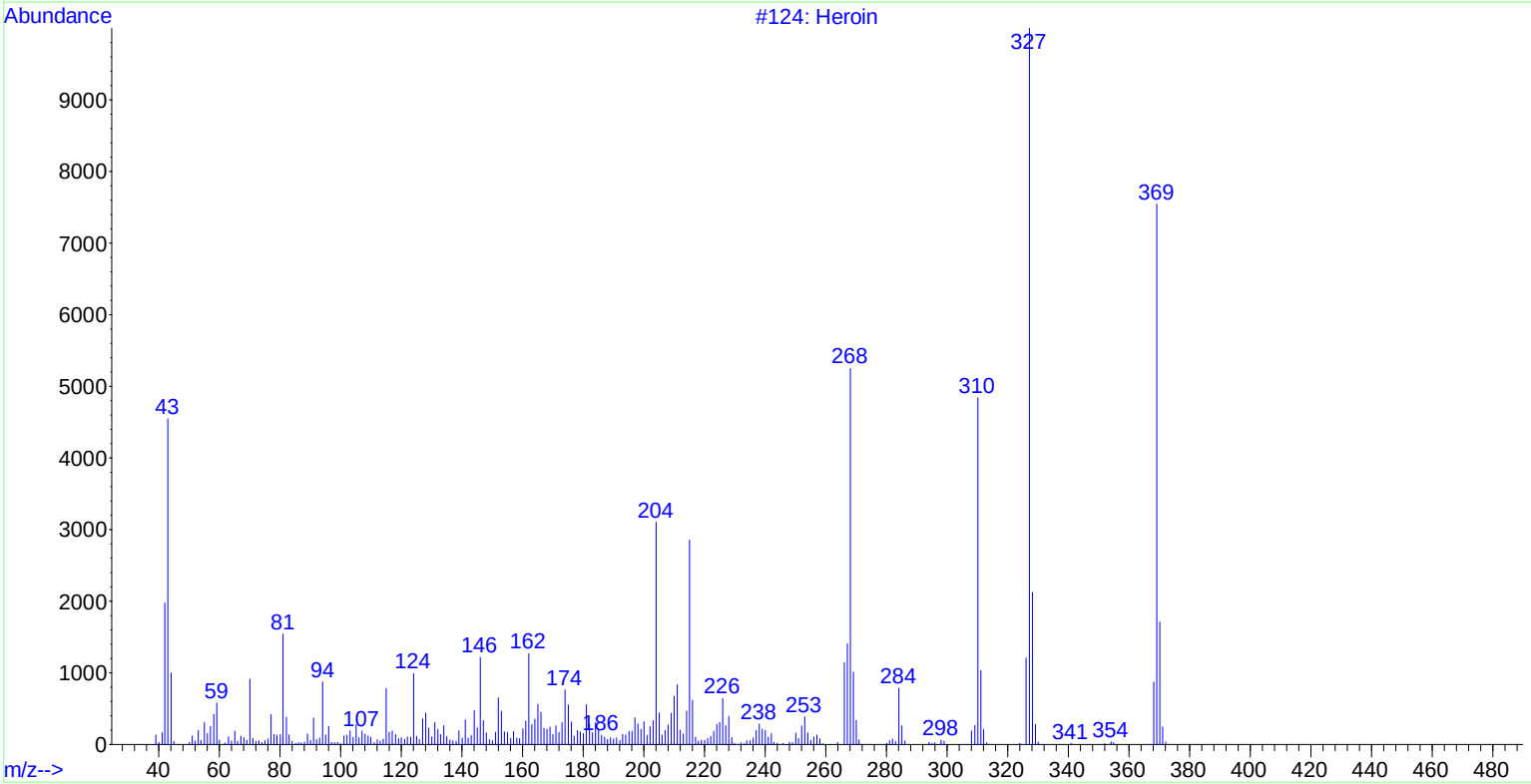
File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\081125\A001004.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 11 Aug 2025 10:05 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



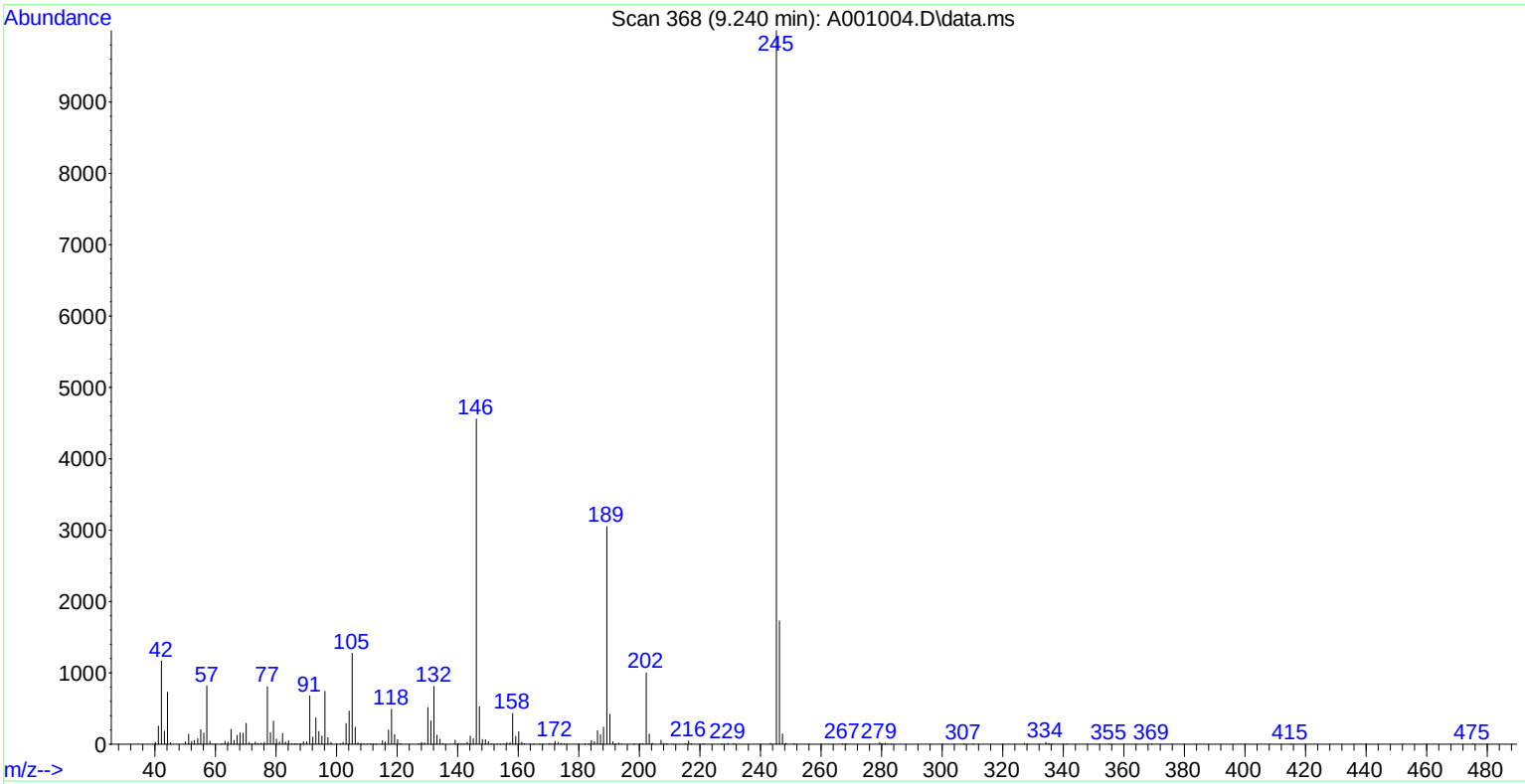


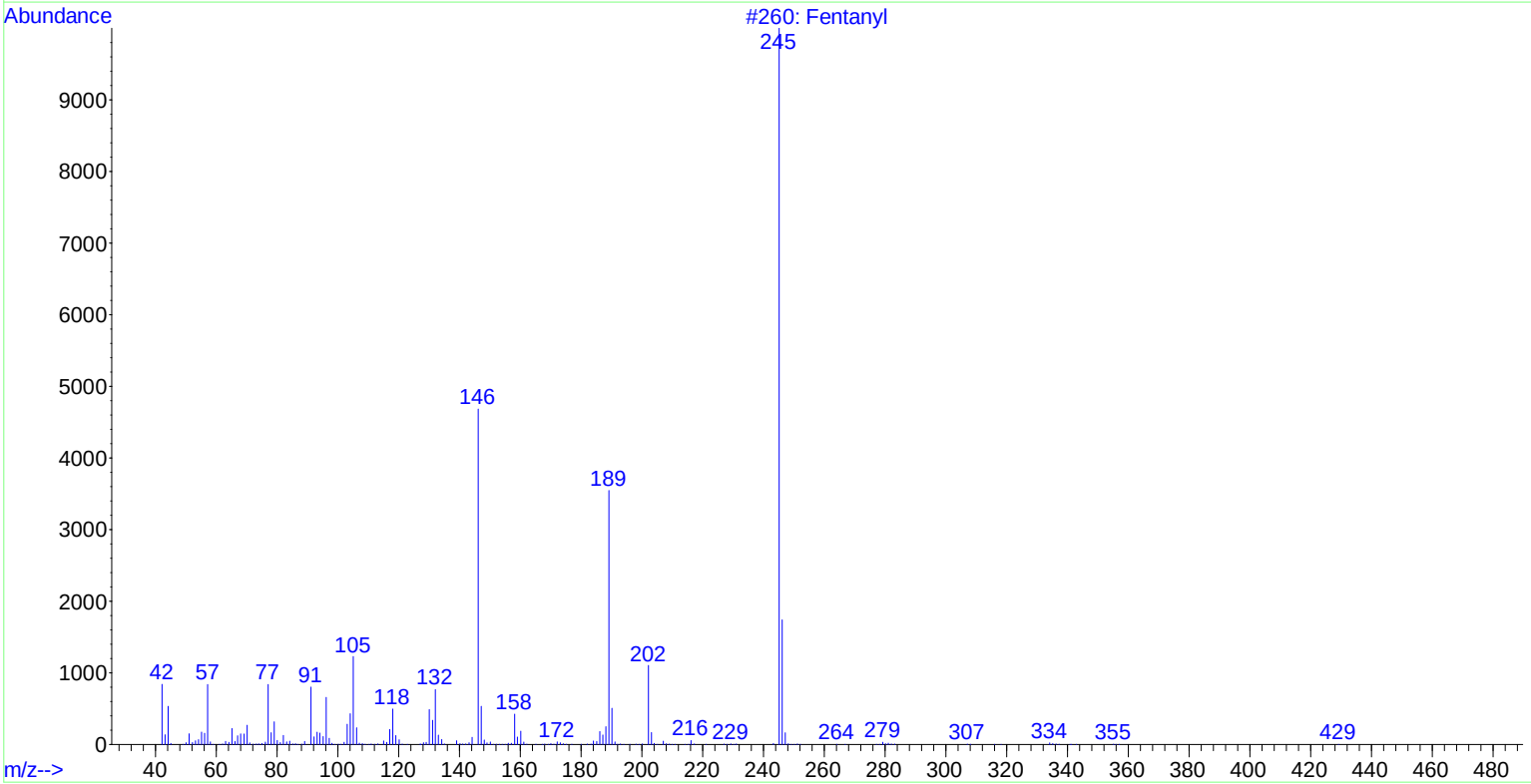
File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\081125\A001004.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 11 Aug 2025 10:05 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



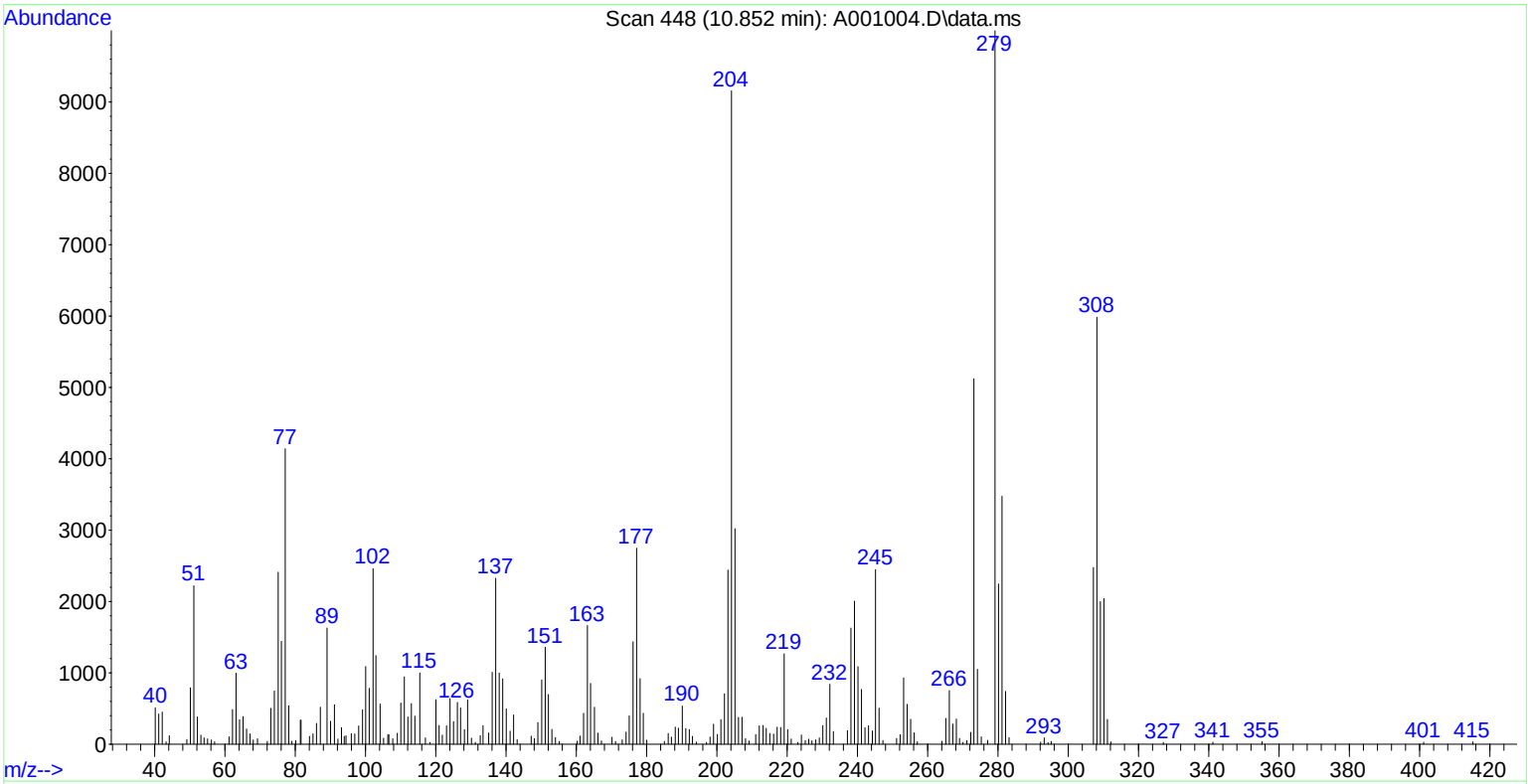


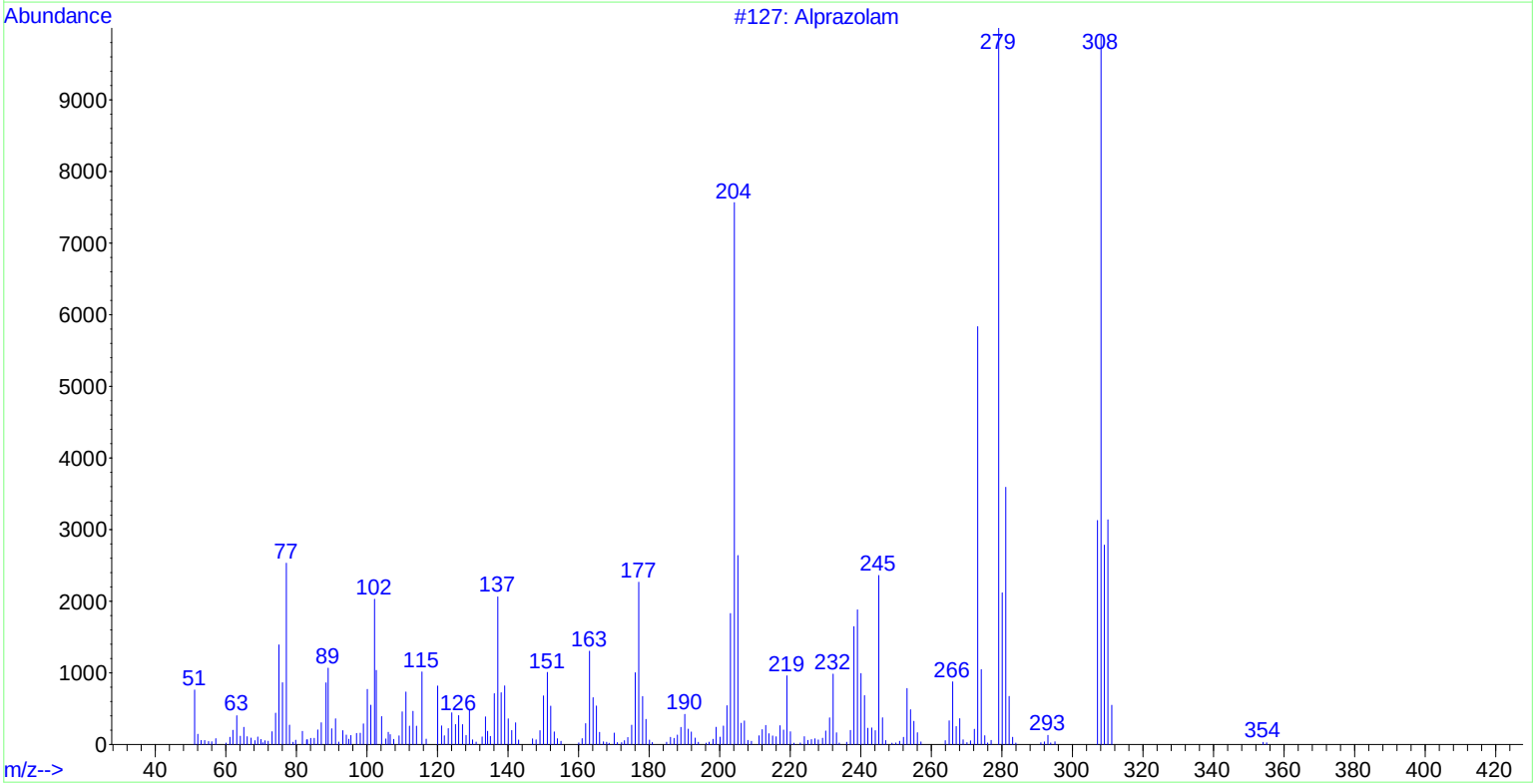
File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\081125\A001004.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 11 Aug 2025 10:05 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



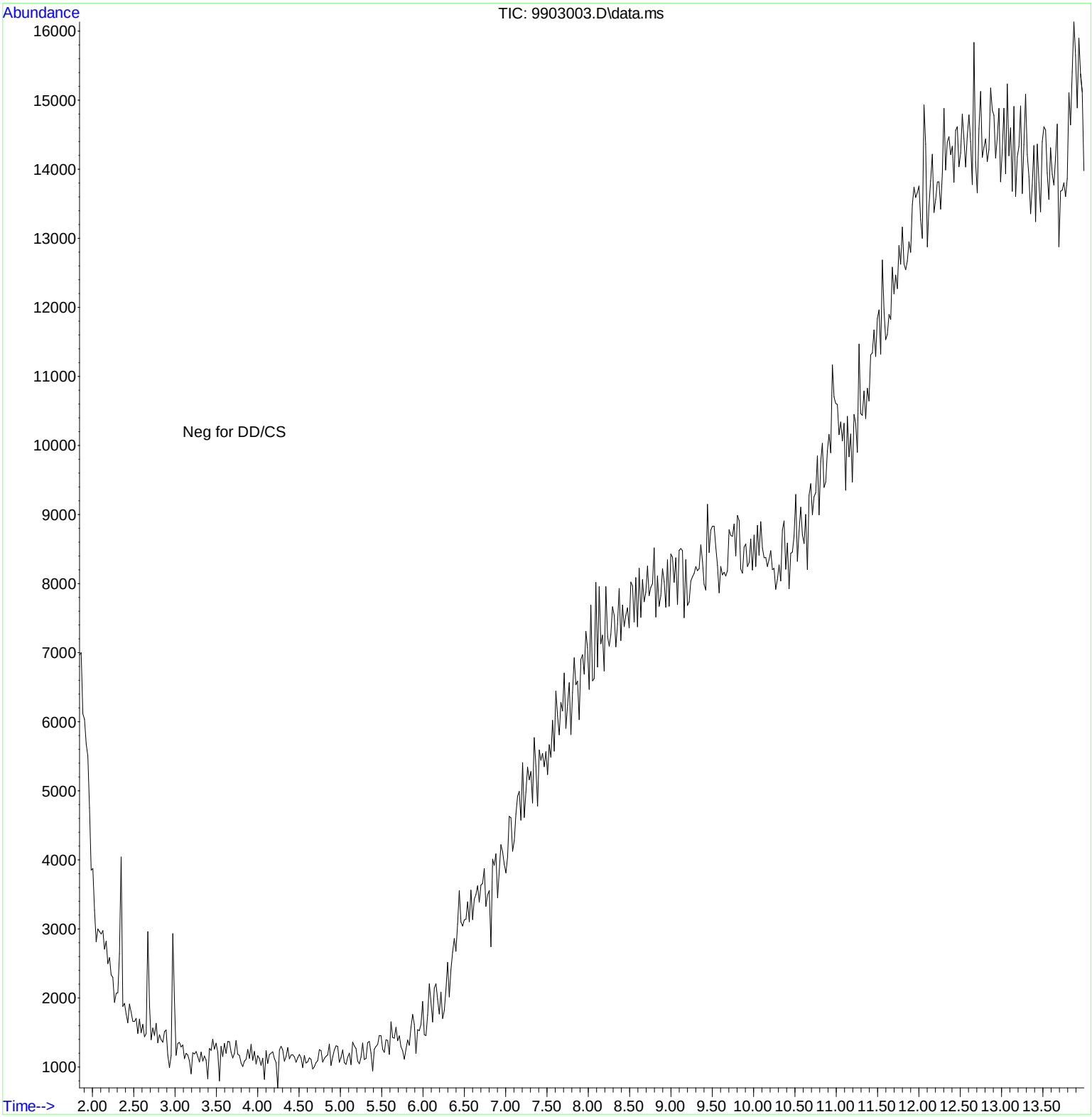


File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\081125\A001004.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 11 Aug 2025 10:05 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN

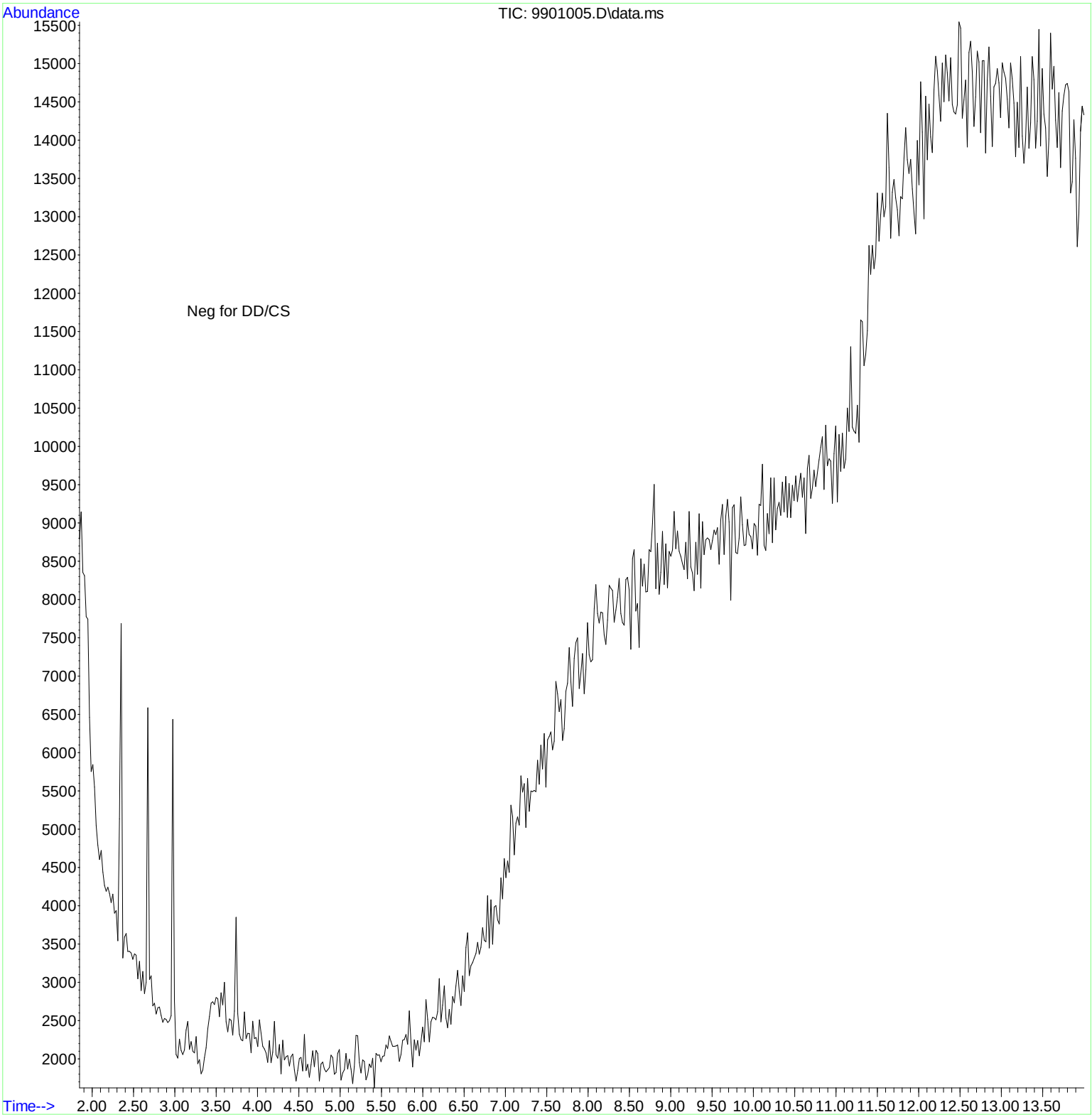




File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\081125\9903003.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 11 Aug 2025 9:47 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK PRIOR TO CAYMAN GC/MS 000002664
Misc Info : ACN (C-19-0068)



File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\081125\9901005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 11 Aug 2025 10:22 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK - INSTRUMENT READY 000002664
Misc Info : ACN (C-19-0068)



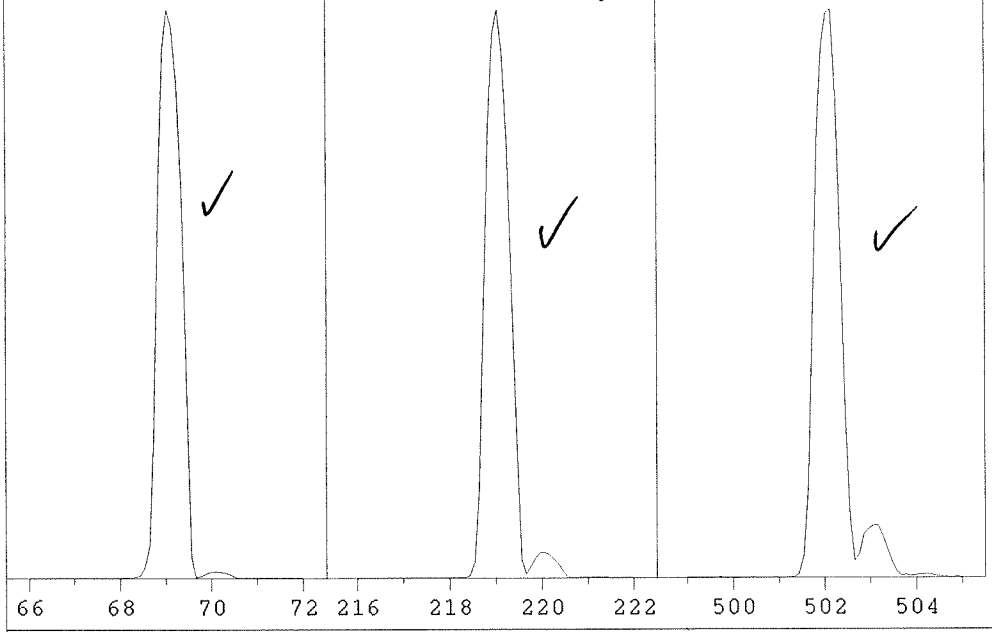
5973 Autotune

Mon Aug 18 08:08:36 2025 Instrument: SD GCMS 1
C:\MSDCHEM\1\5973\atune.u

KB OK

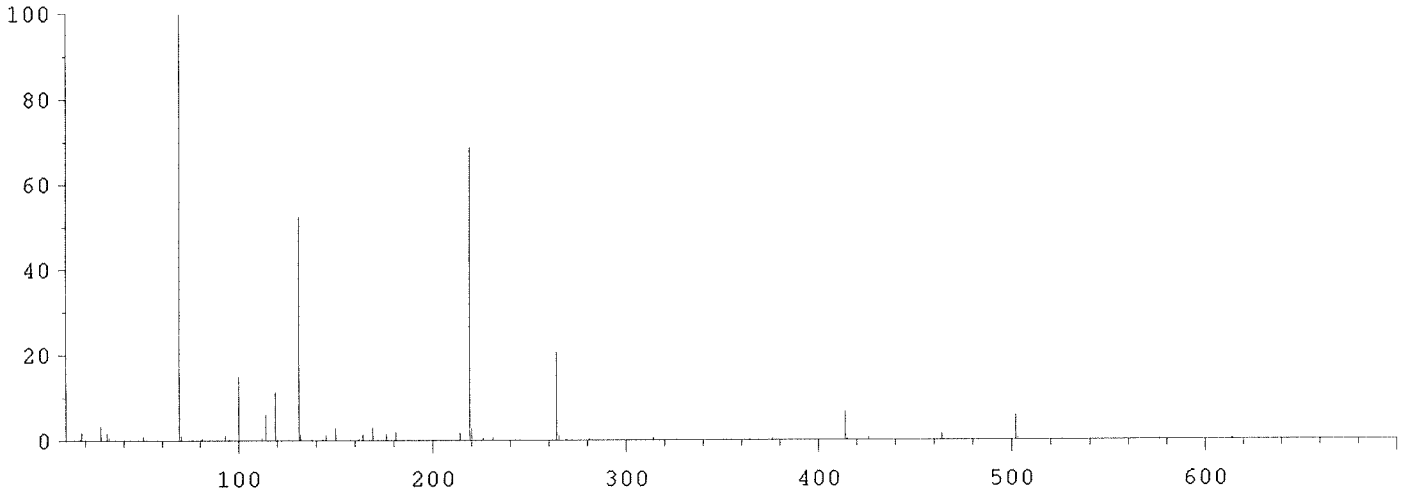
Mass	69.05	Mass	219.05
Ab	447250	Ab	294012
Pw50	0.60	Pw50	0.60

Mass	502.15		
Ab	24227		
Pw50	0.62		



Ion Pol	POS	MassGain	369
		MassOffs	-9
Emission	34.6	AmuGain	2446
EIEnrgy	69.9	AmuOffs	120
Filament	1	Wid219	-0.041
		DC Pol	POS
Repeller	14.04		
IonFcus	90.2	HEDEnab	ON
EntLens	2.5	EMVolts	1624
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
126 peaks Base: 69.05 Abundance: 401280



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.05	401280	100.00	70.05	4171	1.04
219.05	276352	68.87	220.05	12737	4.61
502.05	23672	5.90	503.05	2346	9.91

Air/Water Check: H2O~1.91% N2~3.25% O2~0.75% CO2~0.06% N2/H2O~169.74%

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

Ramp Criteria:
Ion Focus Maximum 90 volts using ion 502; EM Gain 151214
Repeller Maximum 35 volts using ion 219;

MassGain Values @Samples: 369@3 369@2 369@1 369@0 369@FS

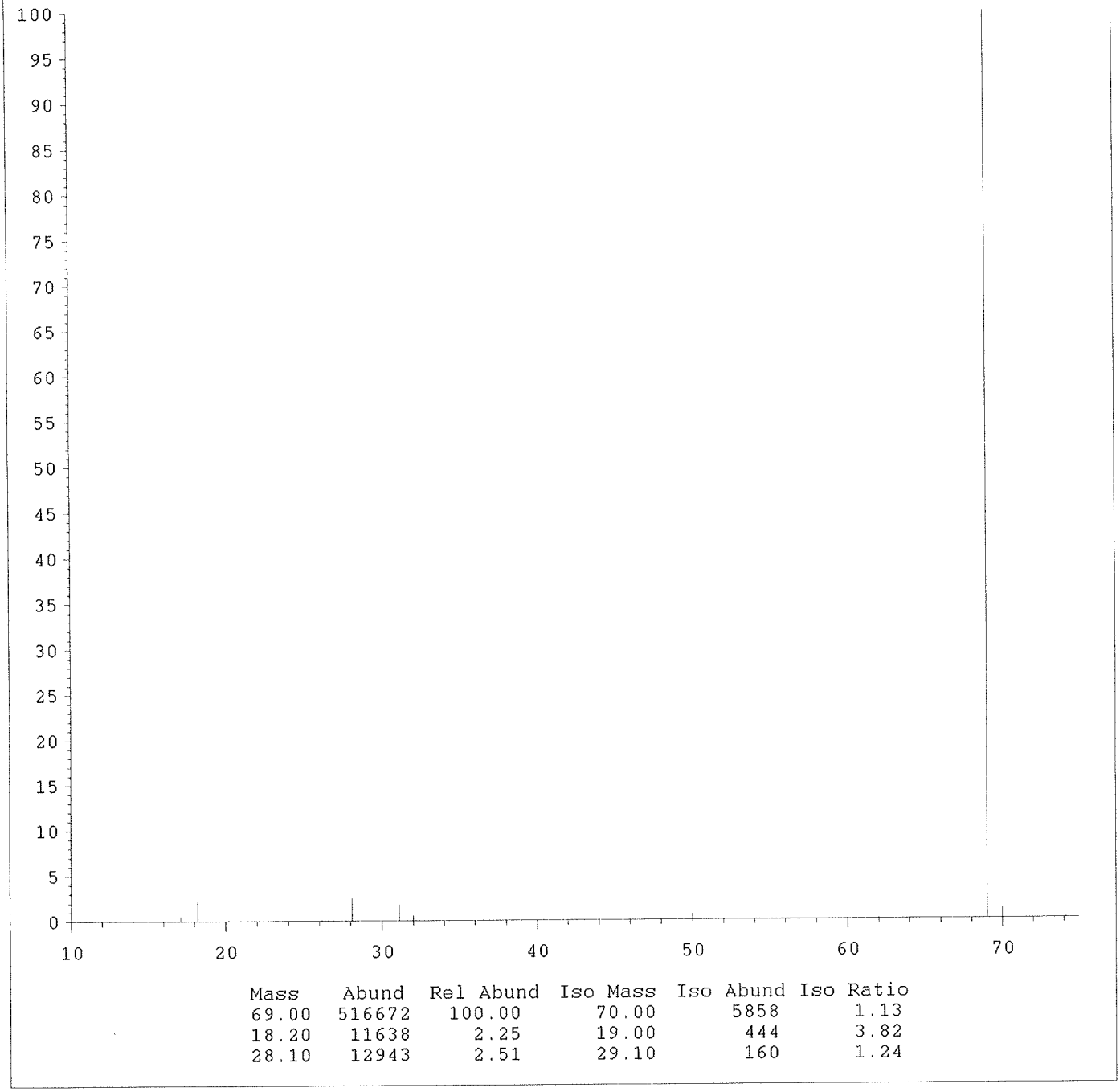
TARGET MASS:	50	69	131	219	414	502	800
Amu Offset:	120.0	120.0	120.0	120.0	120.0	120.0	120.0
Entrance Lens Offset:	17.8	17.8	17.8	17.8	17.8	17.8	17.8

KB
ok

597x Air and Water Check

Instrument: SD GCMS 1
Mon Aug 18 07:59:43 2025 C:\MSDCHEM\1\5973\

Scan: 10.00 - 75.00 Samples: 8 Thresh: 0 Step: 0.10
76 peaks Base: 69.00 Abundance: 516672



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	516672	100.00	70.00	5858	1.13
18.20	11638	2.25	19.00	444	3.82
28.10	12943	2.51	29.10	160	1.24

Current Params used: atune.u

Relative abundances:

18/69 =	2.25	Water%
28/69 =	2.51	Nitrogen%
32/69 =	0.60	Oxygen%
44/69 =	0.09	Carbon Dioxide%
28/18 =	111.21	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	70.07	Ok
Position of isotope mass 220	220.05	Ok
Position of isotope mass 503	503.08	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%)	4.29	Ok
Ratio of mass 503 to mass 502(7.9 - 12.3%)	9.74	Ok
Ratio of 219 to 69 should be > 40% and is	69.60	Ok
Ratio of 502 to 69 should be > 2.4% and is	6.15	Ok
Mass 69 Precursor (<= 3%)	0.05	Ok
Mass 219 Precursor (<= 6%)	0.06	Ok
Mass 502 Precursor (<= 12%)	0.22	Ok
Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	1.95	Ok
Ratio of 28 to 69 (<10%)	3.37	Ok
Electron Multiplier Voltage	1624	Ok

Tune portion of System Verification passed.

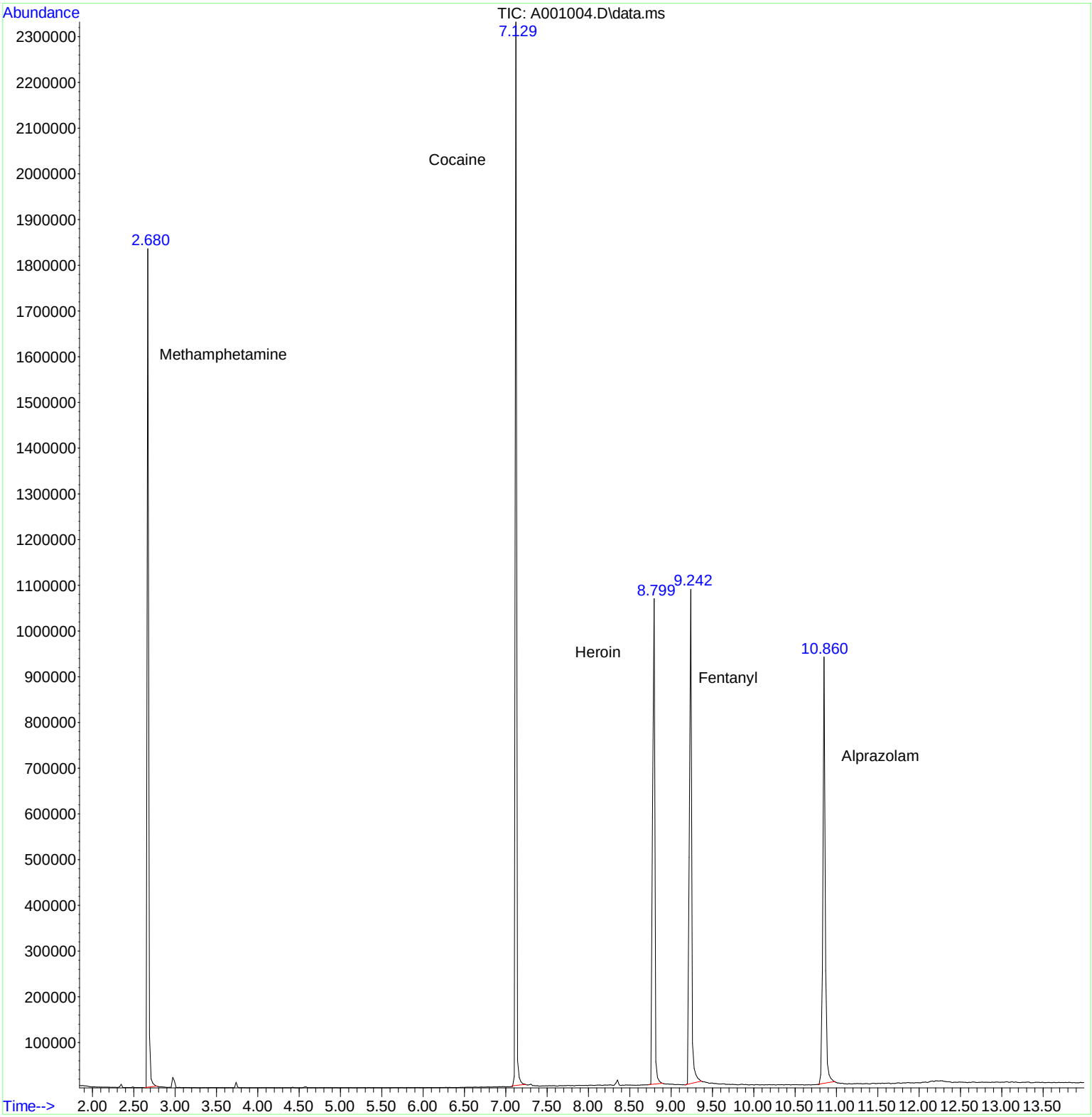
BCCL GC/MS #1
Retention Times for the Week of:

08/18/2025 - 08/24/2025

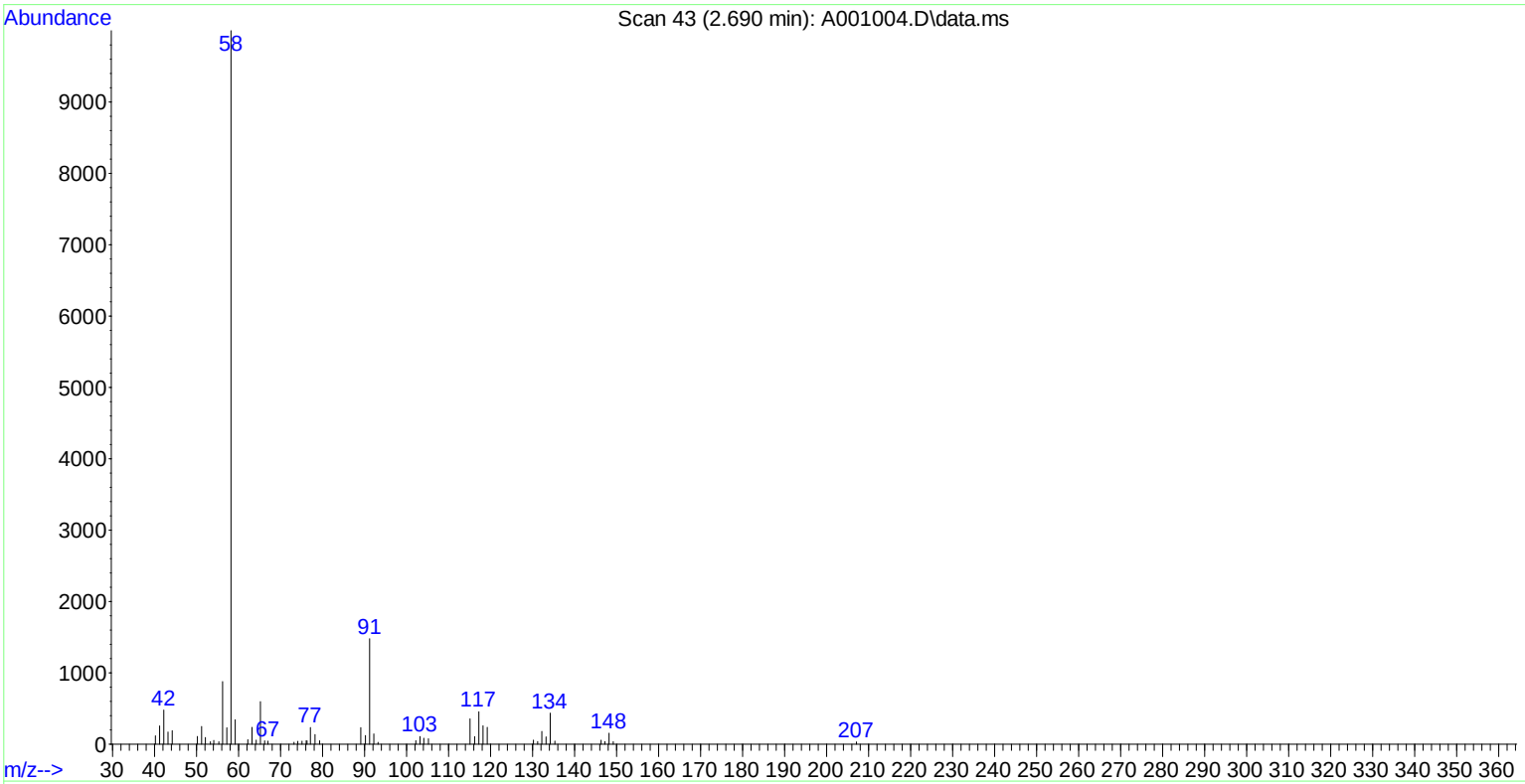
[x] **Tune: 08/18/2025 - Autotune KB**

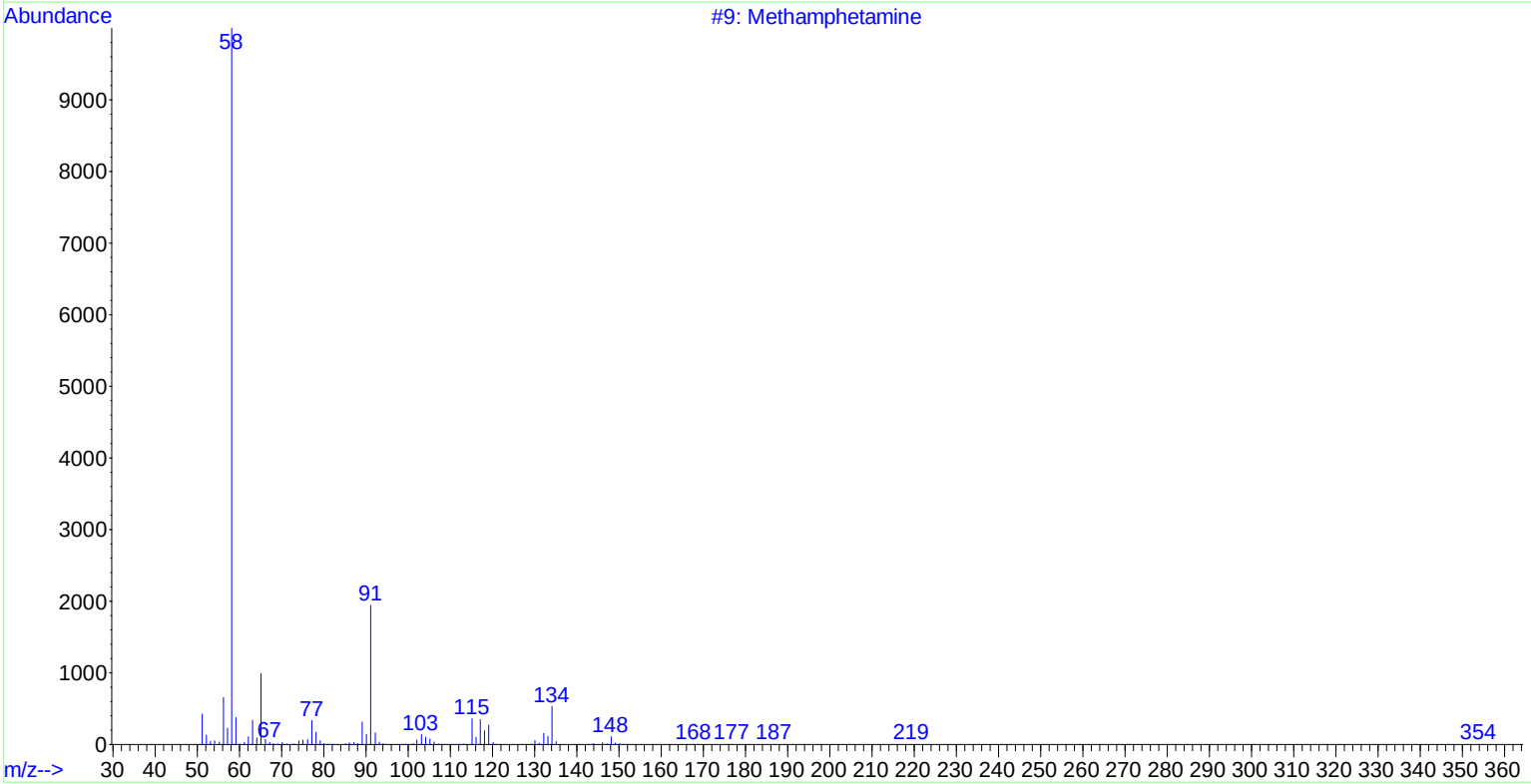
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	BCCL GenDrug	2.680	2.653	2.706
Cocaine	R-24-060	BCCL GenDrug	7.129	7.057	7.200
Heroin	R-24-060	BCCL GenDrug	8.799	8.711	8.886
Fentanyl	R-24-060	BCCL GenDrug	9.242	9.149	9.334
Alprazolam	R-24-060	BCCL GenDrug	10.860	10.751	10.968

File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\081825\A001004.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 18 Aug 2025 9:24 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN

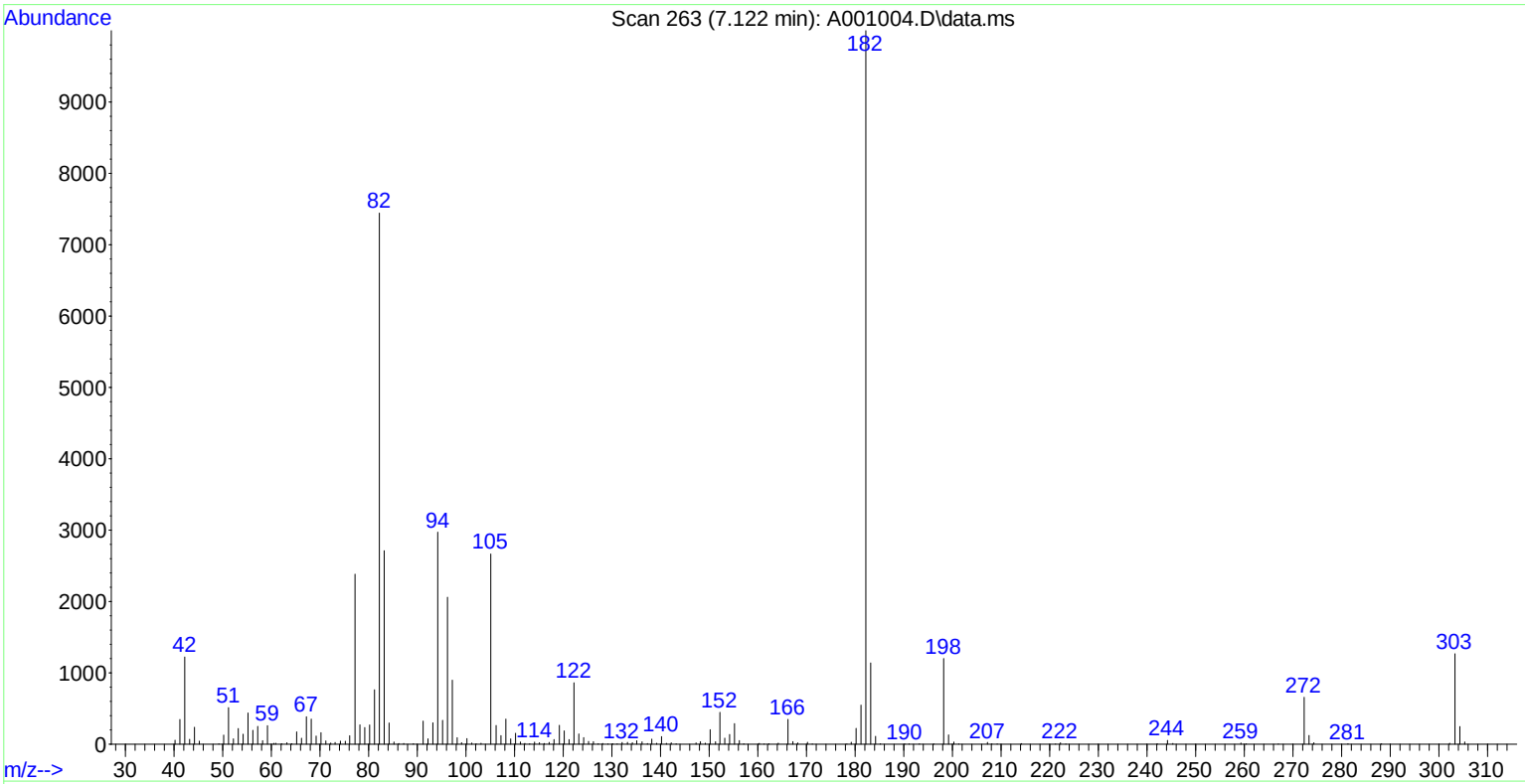


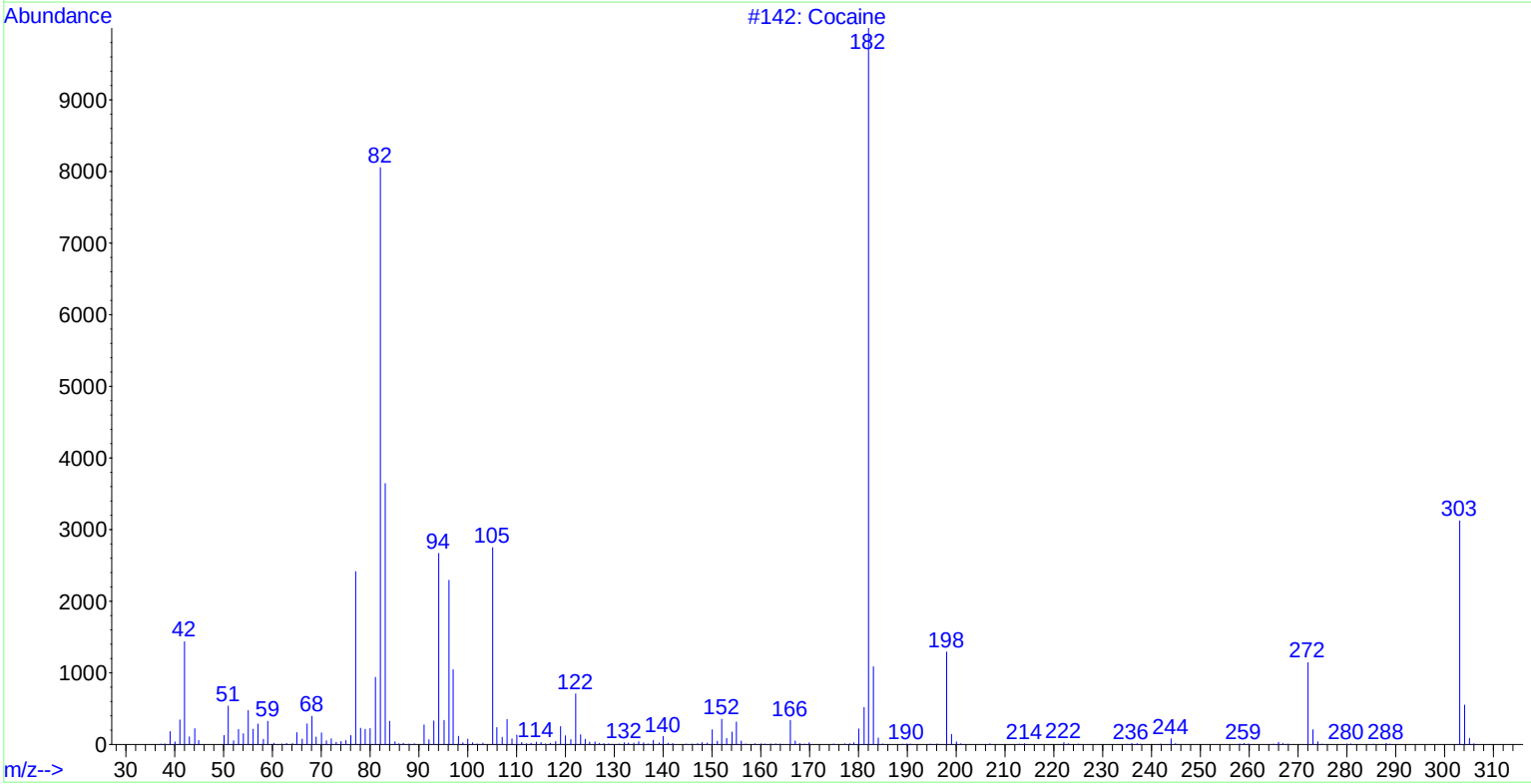
File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\081825\A001004.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 18 Aug 2025 9:24 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



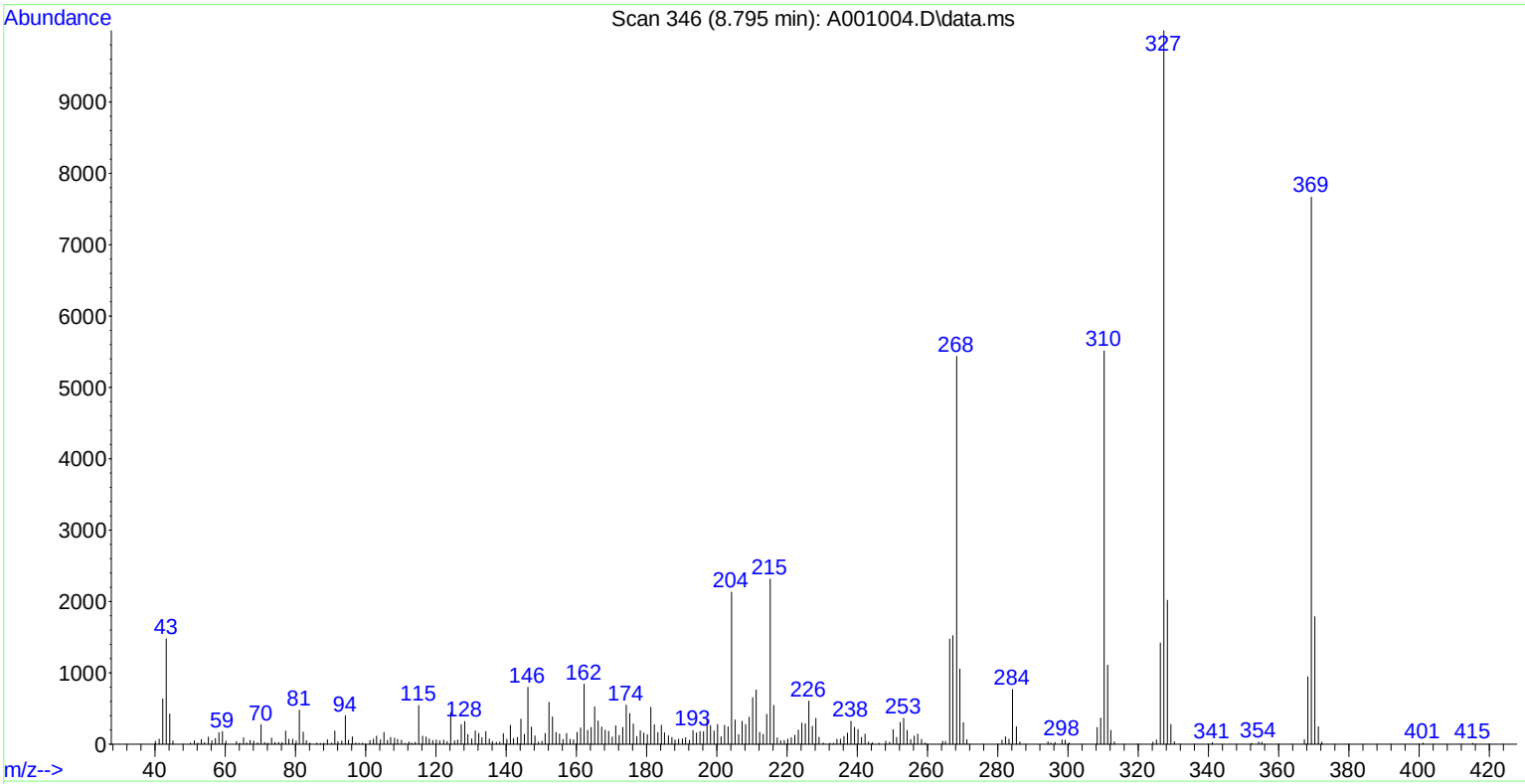


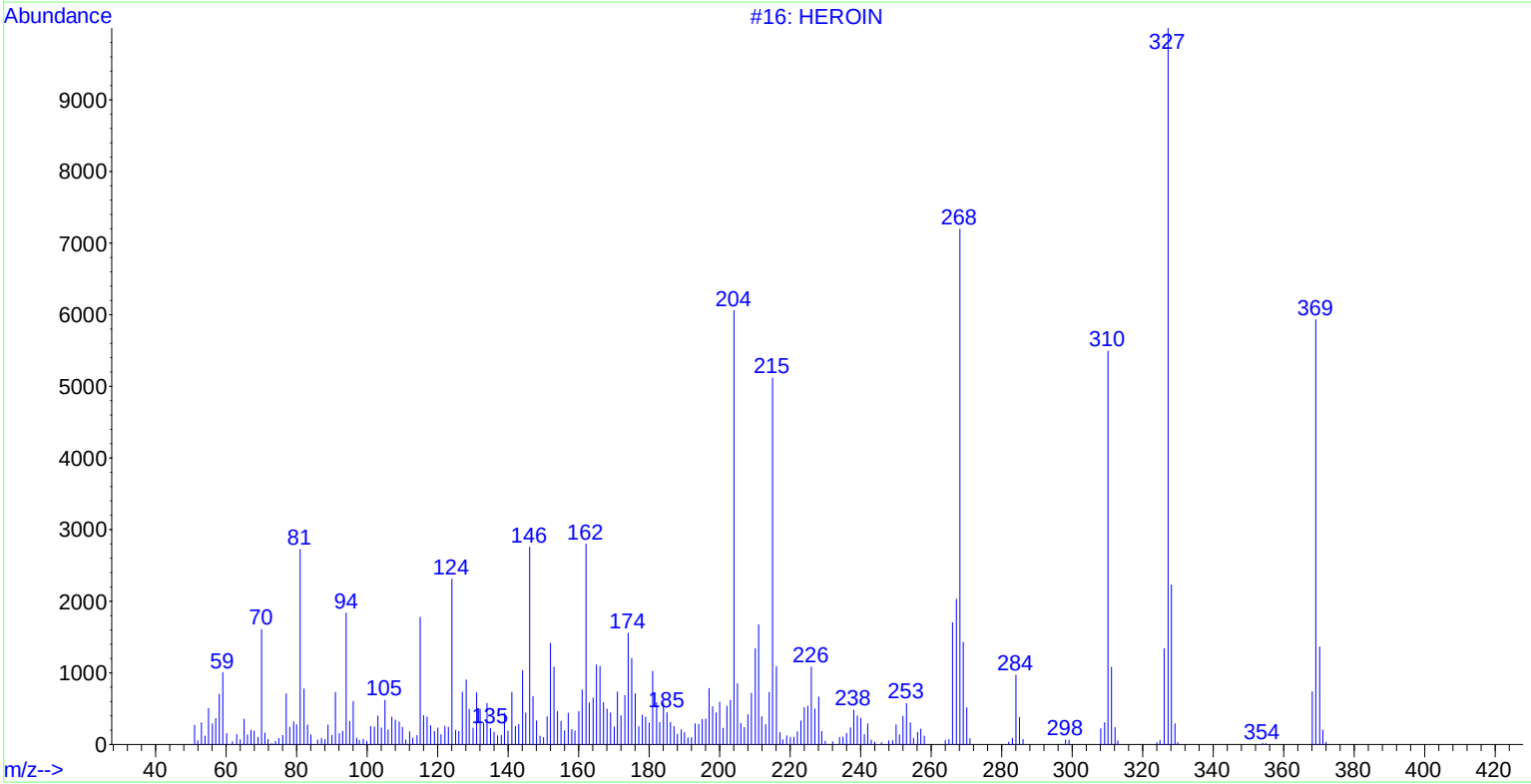
File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\081825\A001004.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 18 Aug 2025 9:24 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



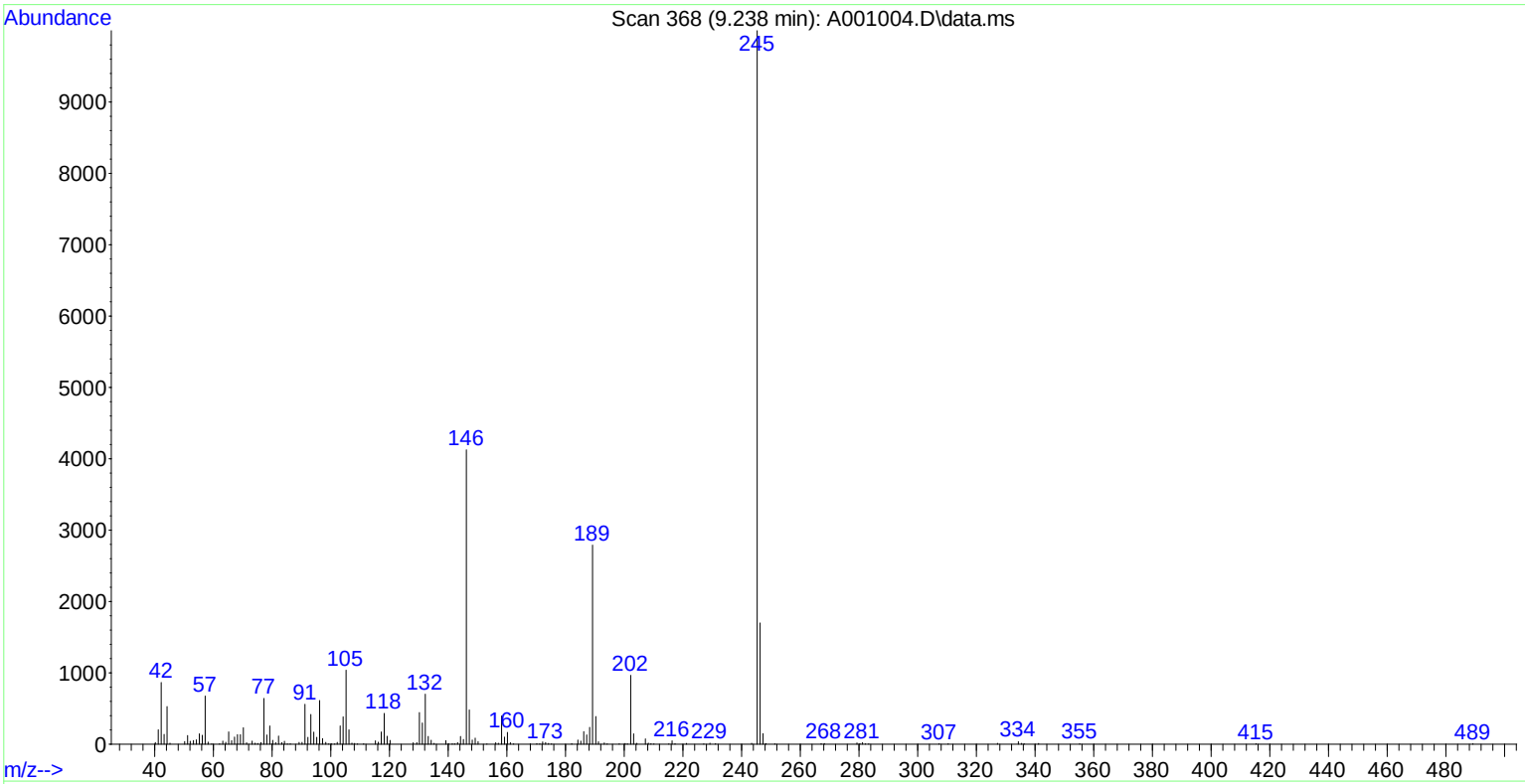


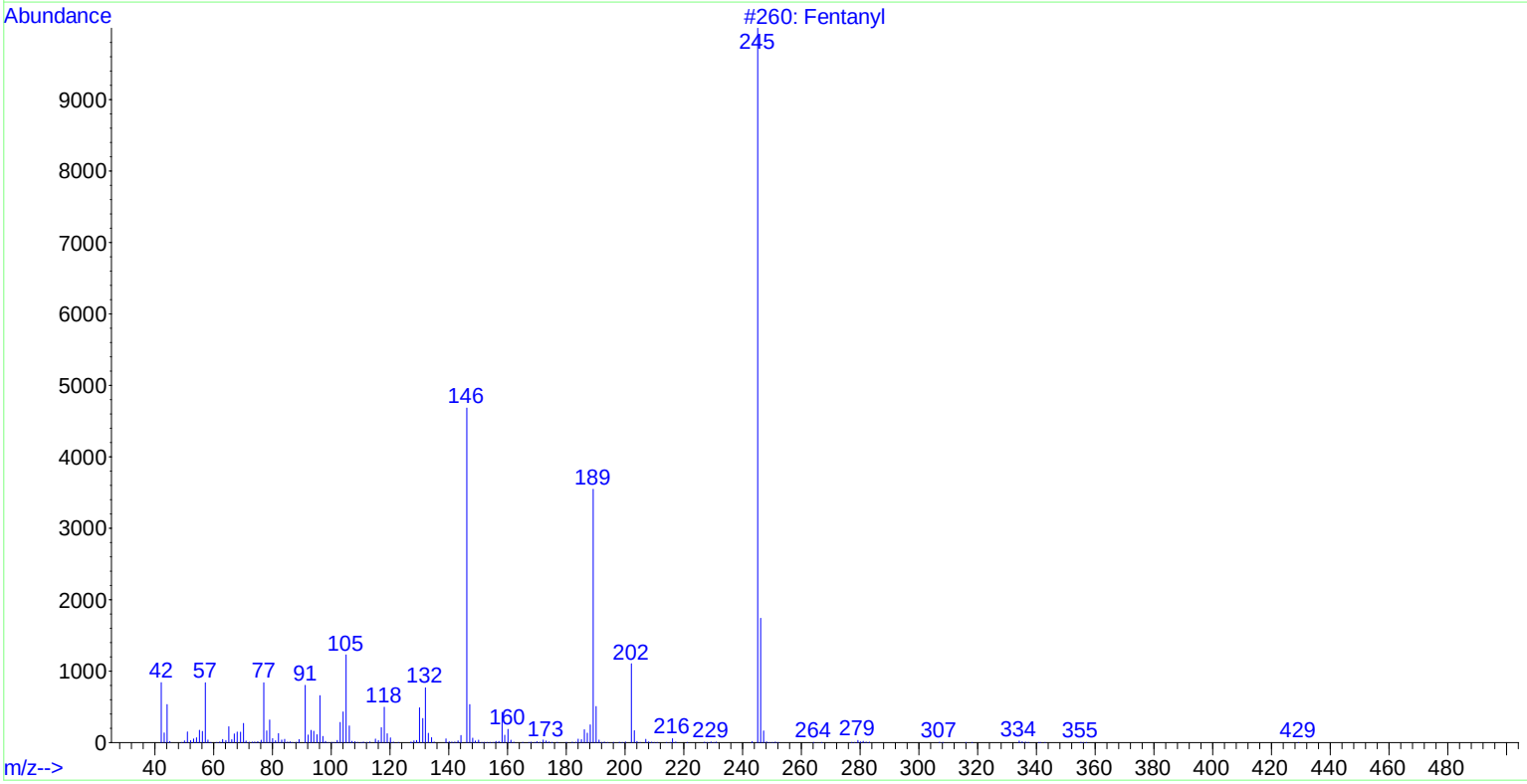
File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\081825\A001004.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 18 Aug 2025 9:24 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



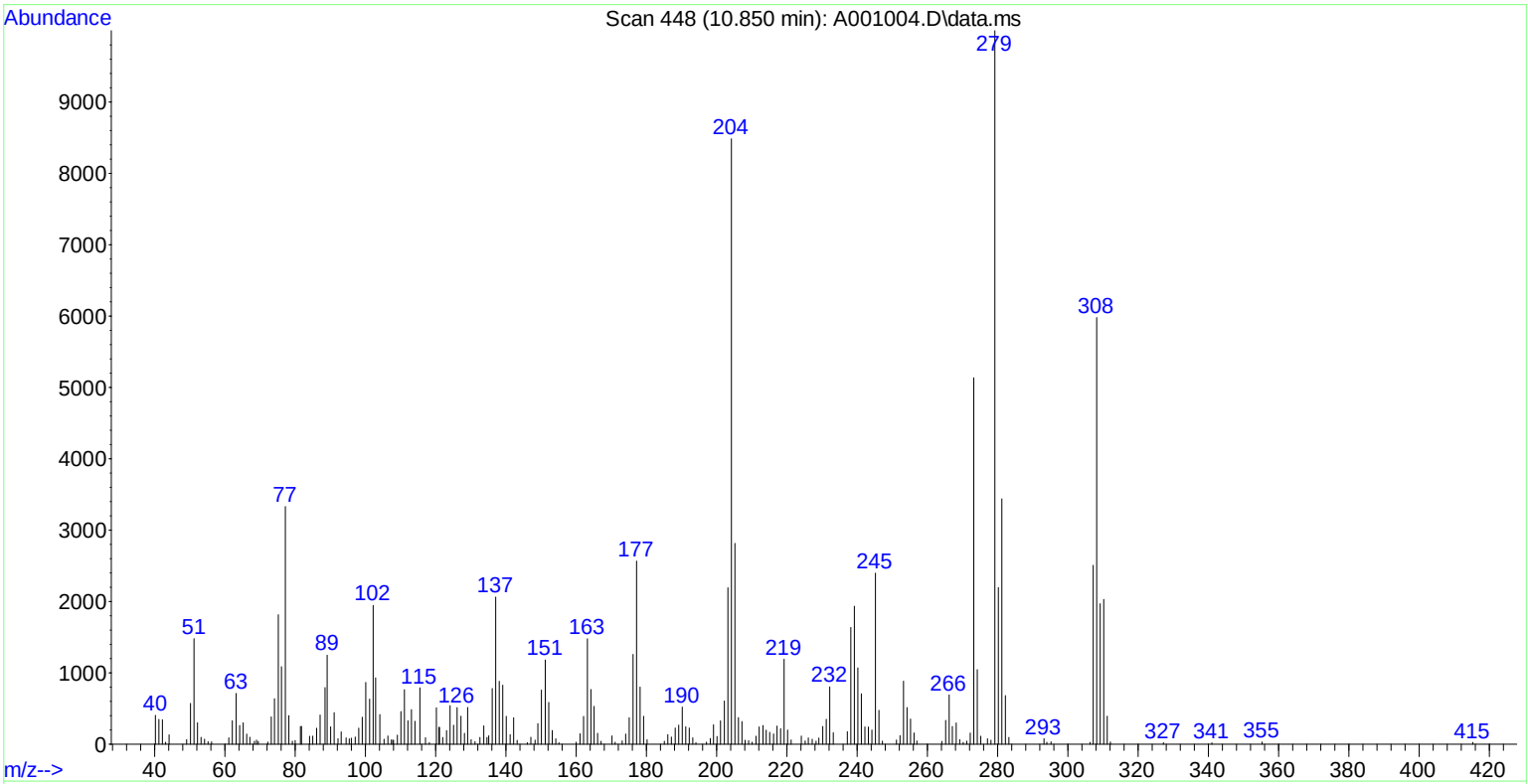


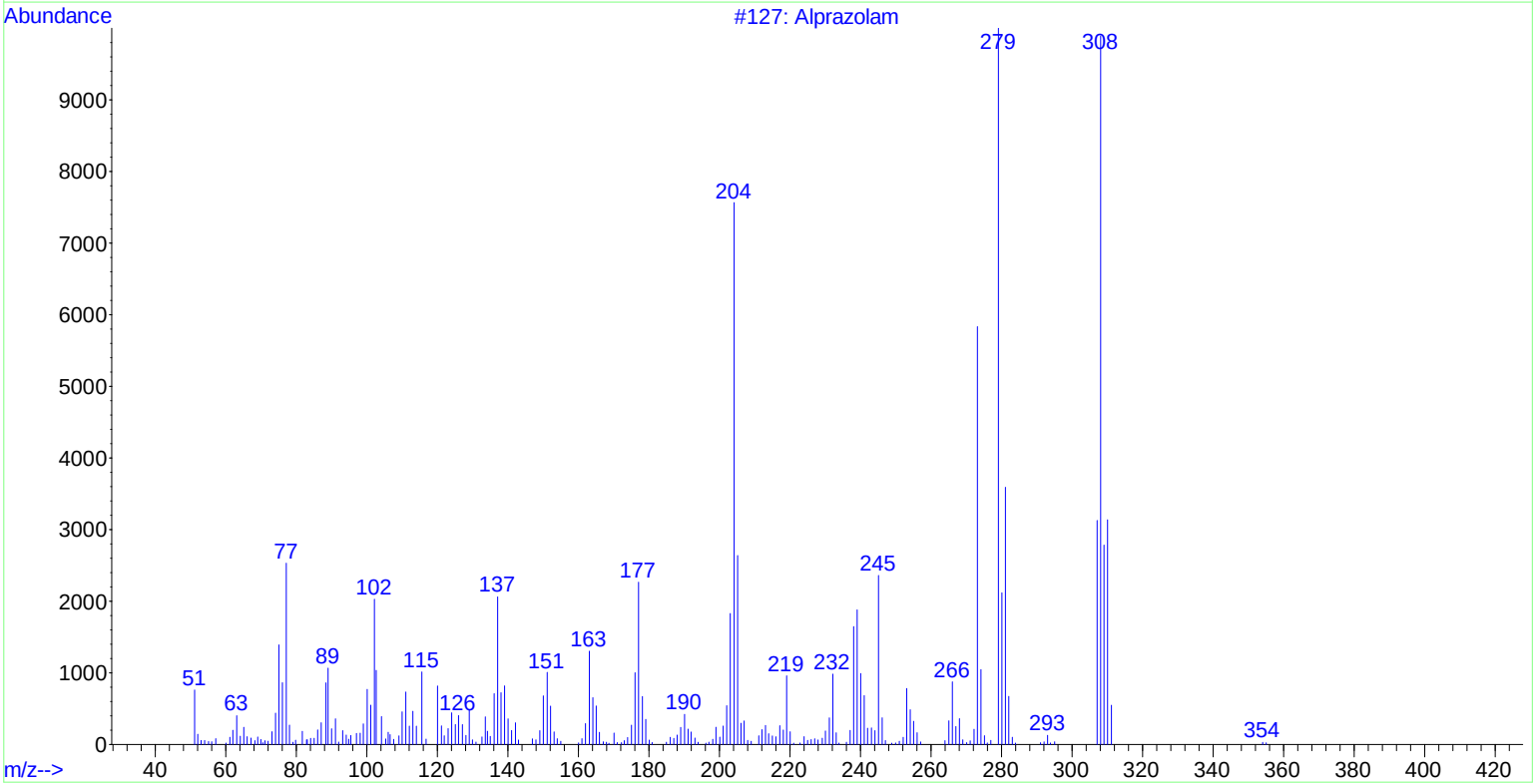
File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\081825\A001004.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 18 Aug 2025 9:24 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



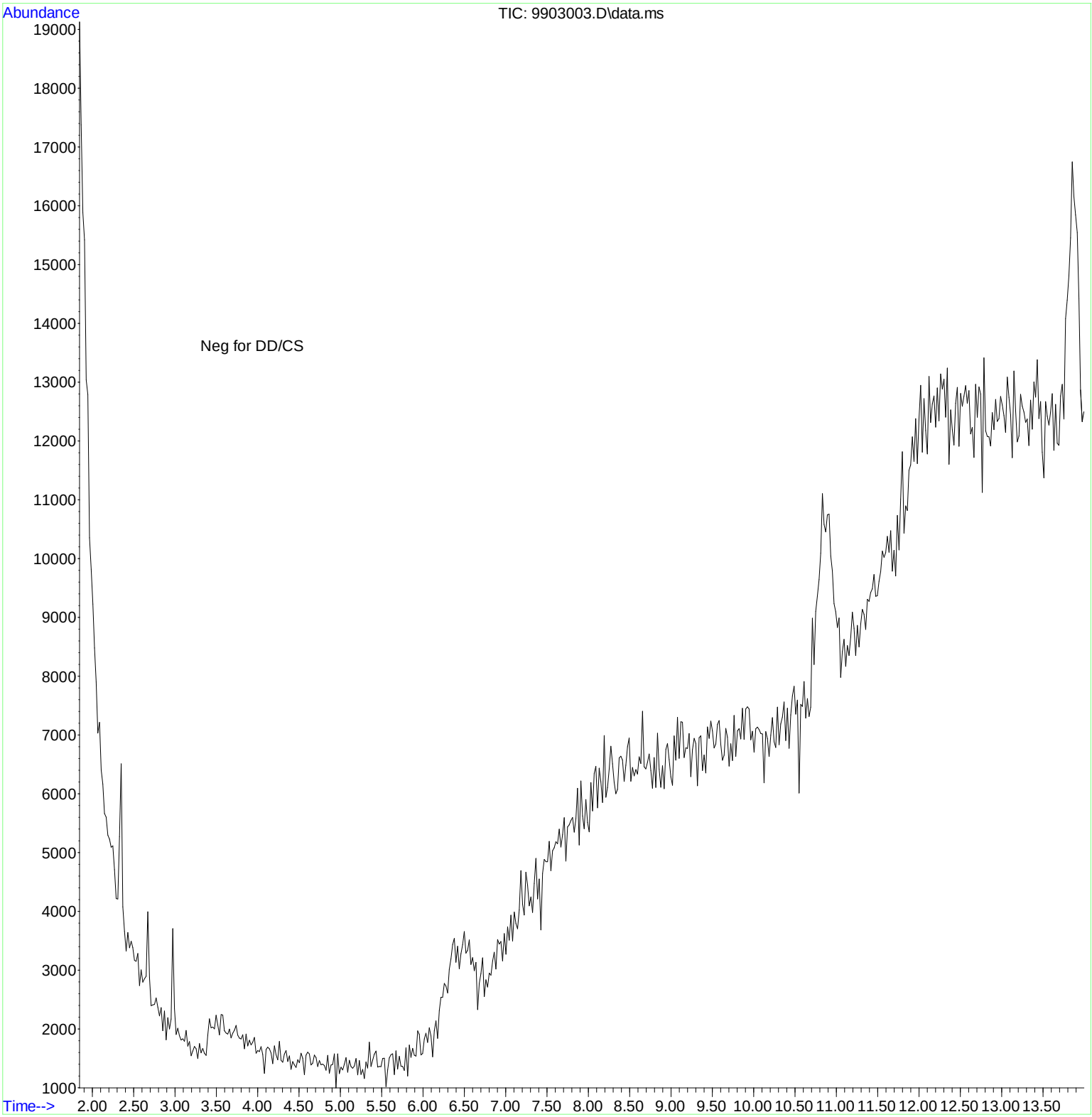


File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\081825\A001004.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 18 Aug 2025 9:24 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN

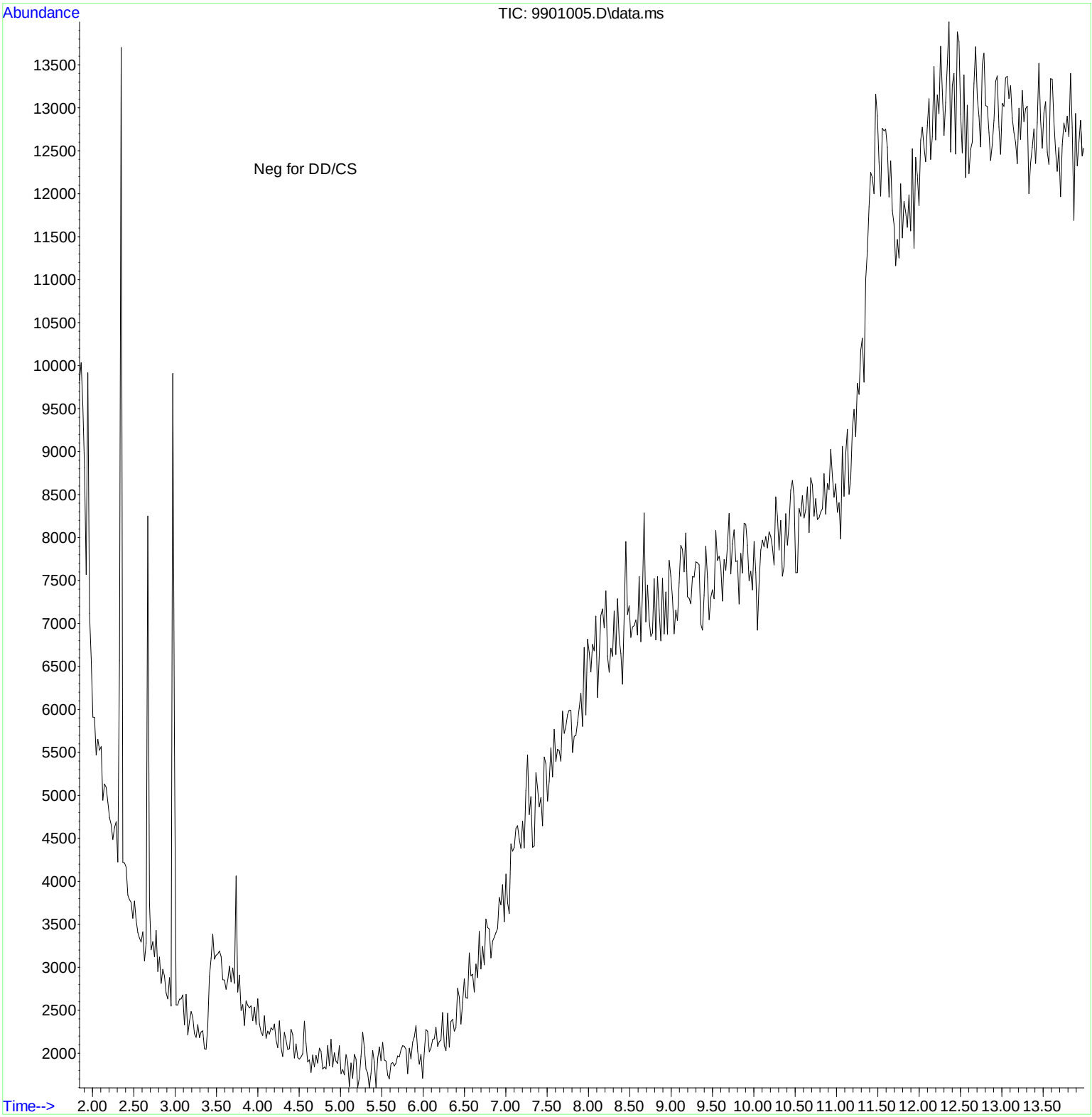




File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\081825\9903003.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 18 Aug 2025 9:06 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK PRIOR TO CAYMAN GC/MS 000002664
Misc Info : ACN (C-19-0068)



File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\081825\9901005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 18 Aug 2025 9:41 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK - INSTRUMENT READY 000002664
Misc Info : ACN (C-19-0068)

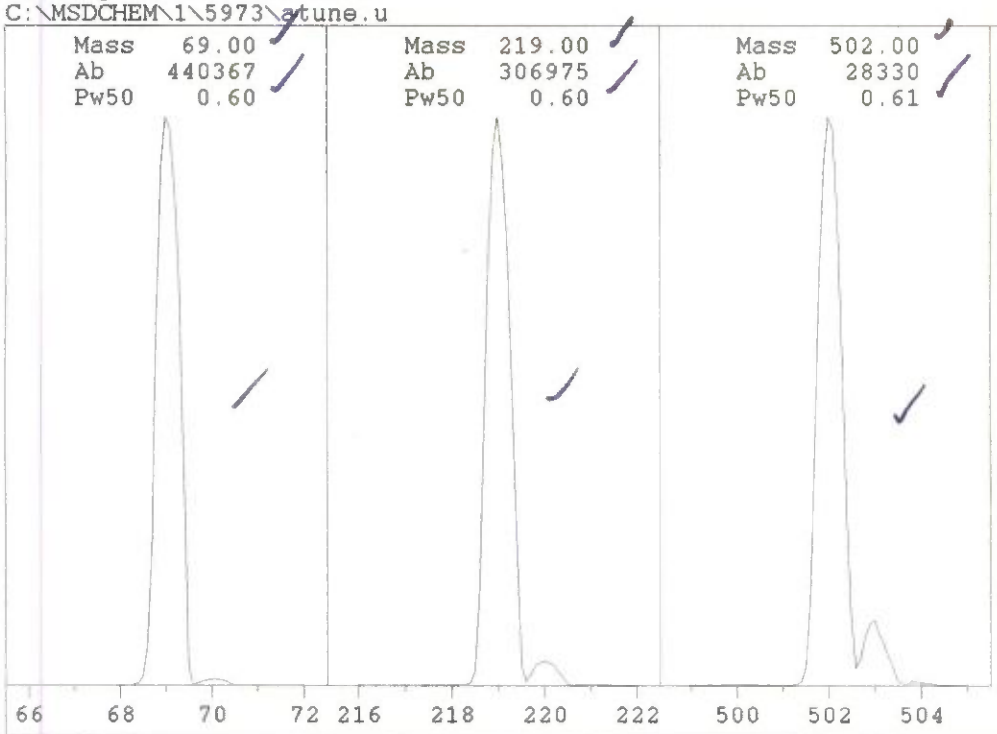


5973 Autotune

Mon Aug 25 08:49:46 2025 Instrument: SD GCMS 1

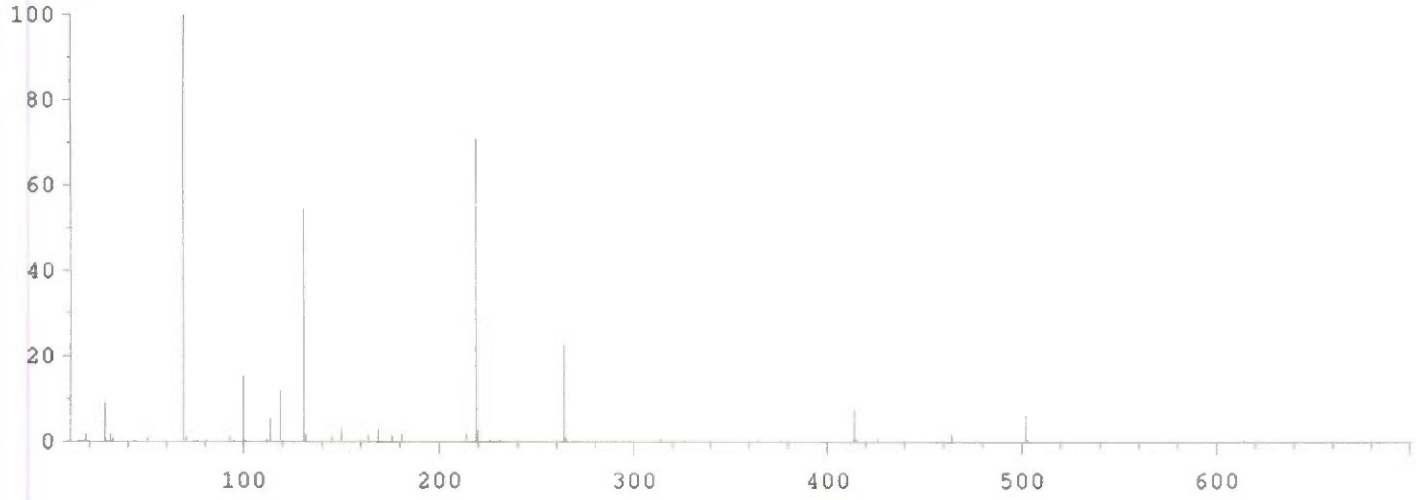
C:\MSDCHEM\1\5973\atune.u

DS QC



Ion Pol	POS	MassGain	369
		MassOffs	-10
Emission	34.6	AmuGain	2438
EIEnrgy	69.9	AmuOffs	122
Filament	1	Wid219	-0.037
		DC Pol	POS
Repeller	14.88		
IonFcus	90.2	HEDEnab	ON
EntLens	2.5	EMVolts	1624
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
140 peaks Base: 69.00 Abundance: 396096



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	396096	100.00	70.10	4493	1.13
219.00	281024	70.95	220.00	11400	4.06
502.00	25576	6.46	503.00	2380	9.31

Air/Water Check: H2O~1.91% N2~9.04% O2~0.80% CO2~0.06% N2/H2O~472.67%

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

Ramp Criteria:
Ion Focus Maximum 90 volts using ion 502: EM Gain 155818
Repeller Maximum 35 volts using ion 219:

MassGain Values @Samples: 369@3 369@2 369@1 369@0 369@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:	17.8	17.8	17.8	17.8	17.8	17.8	17.8

597x Air and Water Check

Instrument: SD GCMS 1
Mon Aug 25 08:40:28 2025 C:\MSDCHEM\1\5973\

Scan: 10.00 - 75.00 Samples: 8 Thresh: 0 Step: 0.10
75 peaks Base: 69.05 Abundance: 488320



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.05	488320	100.00	70.05	5349	1.10
18.15	12680	2.60	19.15	220	1.74
28.15	37584	7.70	29.15	615	1.64

Current Params used: atune.u

Relative abundances:

18/69 =	2.60	Water%
28/69 =	7.70	Nitrogen%
32/69 =	0.83	Oxygen%
44/69 =	0.39	Carbon Dioxide%
28/18 =	296.40	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	69.09	Ok
Position of mass 219	219.00	Ok
Position of mass 502	502.00	Ok
Position of isotope mass 70	70.04	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%)	1.09	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%)	9.95	Ok
Ratio of 219 to 69 should be > 40% and is	71.02	Ok
Ratio of 502 to 69 should be > 2.4% and is	6.69	Ok
Mass 69 Precursor (<= 3%)	0.05	Ok
Mass 219 Precursor (<= 6%)	0.07	Ok
Mass 502 Precursor (<= 12%)	0.18	Ok
Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	2.02	Ok
Ratio of 28 to 69 (<10%)	9.11	Ok
Electron Multiplier Voltage	1624	Ok

Tune portion of System Verification passed.

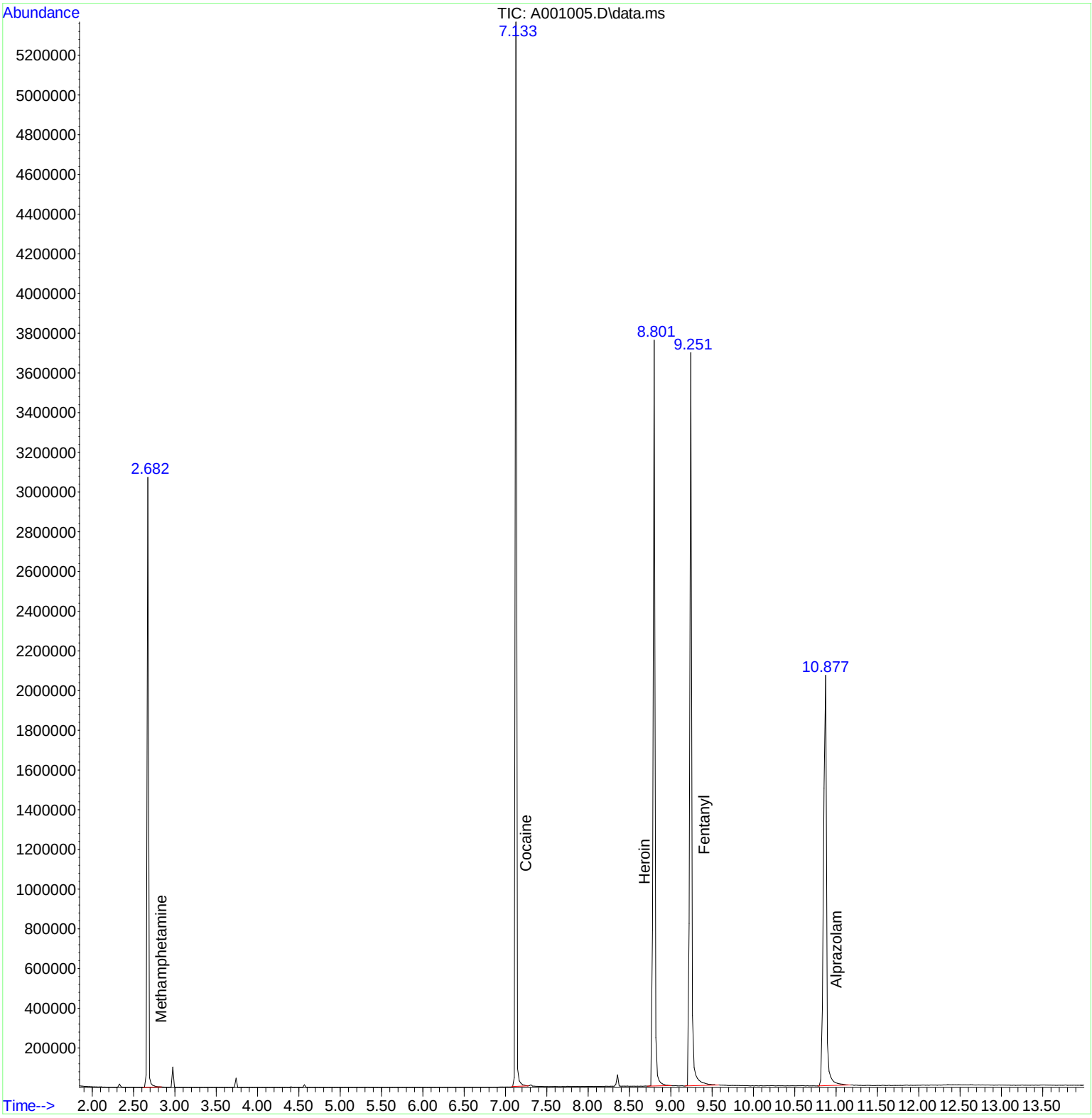
BCCL GC/MS #1
Retention Times for the Week of:

08/25/2025 - 08/31/2025

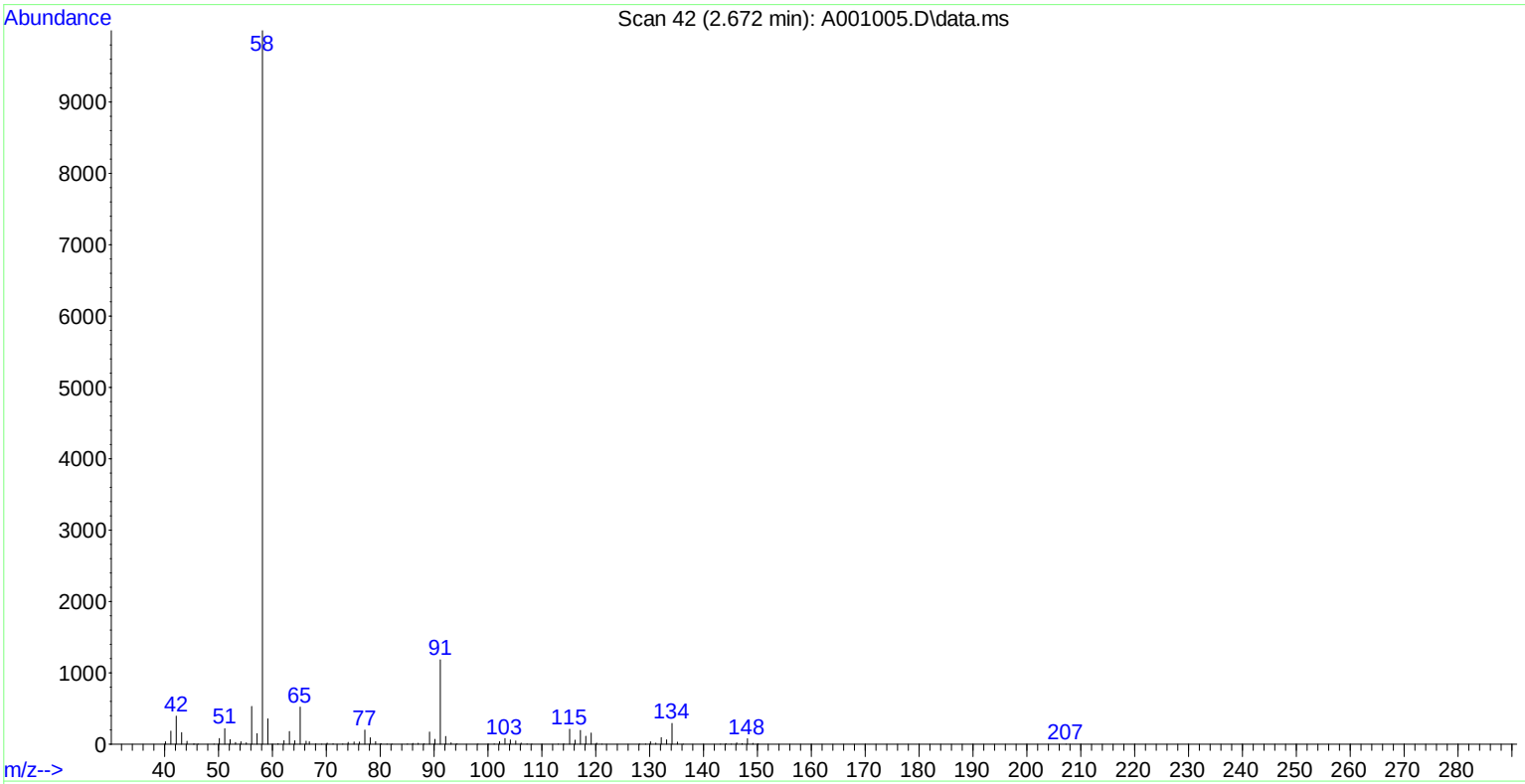
[x] **Tune: 08/25/2025 - Autotune DS**

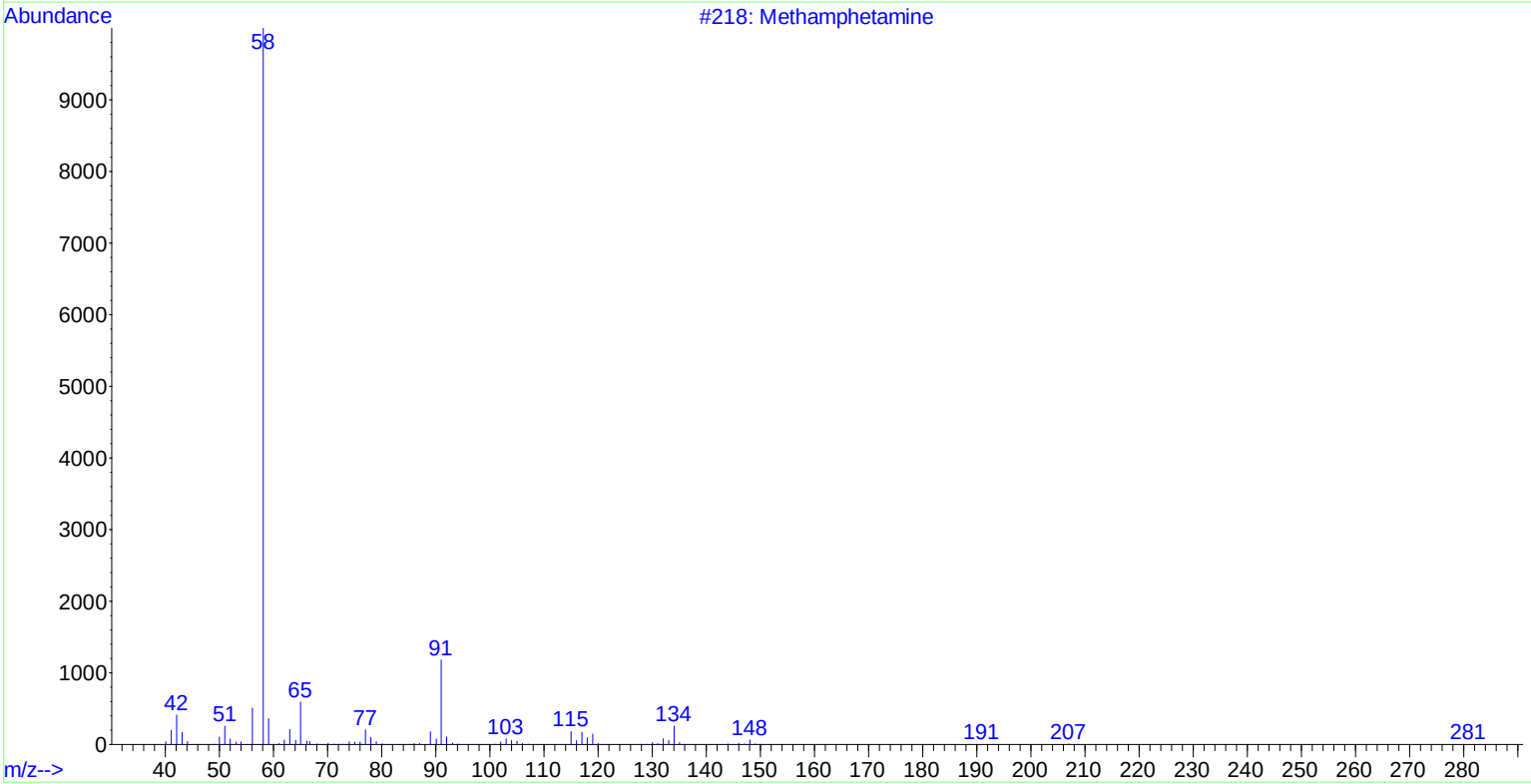
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	BCCL GenDrug	2.682	2.655	2.708
Cocaine	R-24-060	BCCL GenDrug	7.133	7.061	7.204
Heroin	R-24-060	BCCL GenDrug	8.801	8.712	8.889
Fentanyl	R-24-060	BCCL GenDrug	9.251	9.158	9.343
Alprazolam	R-24-060	BCCL GenDrug	10.877	10.768	10.985

File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\082525\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 25 Aug 2025 11:05 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN

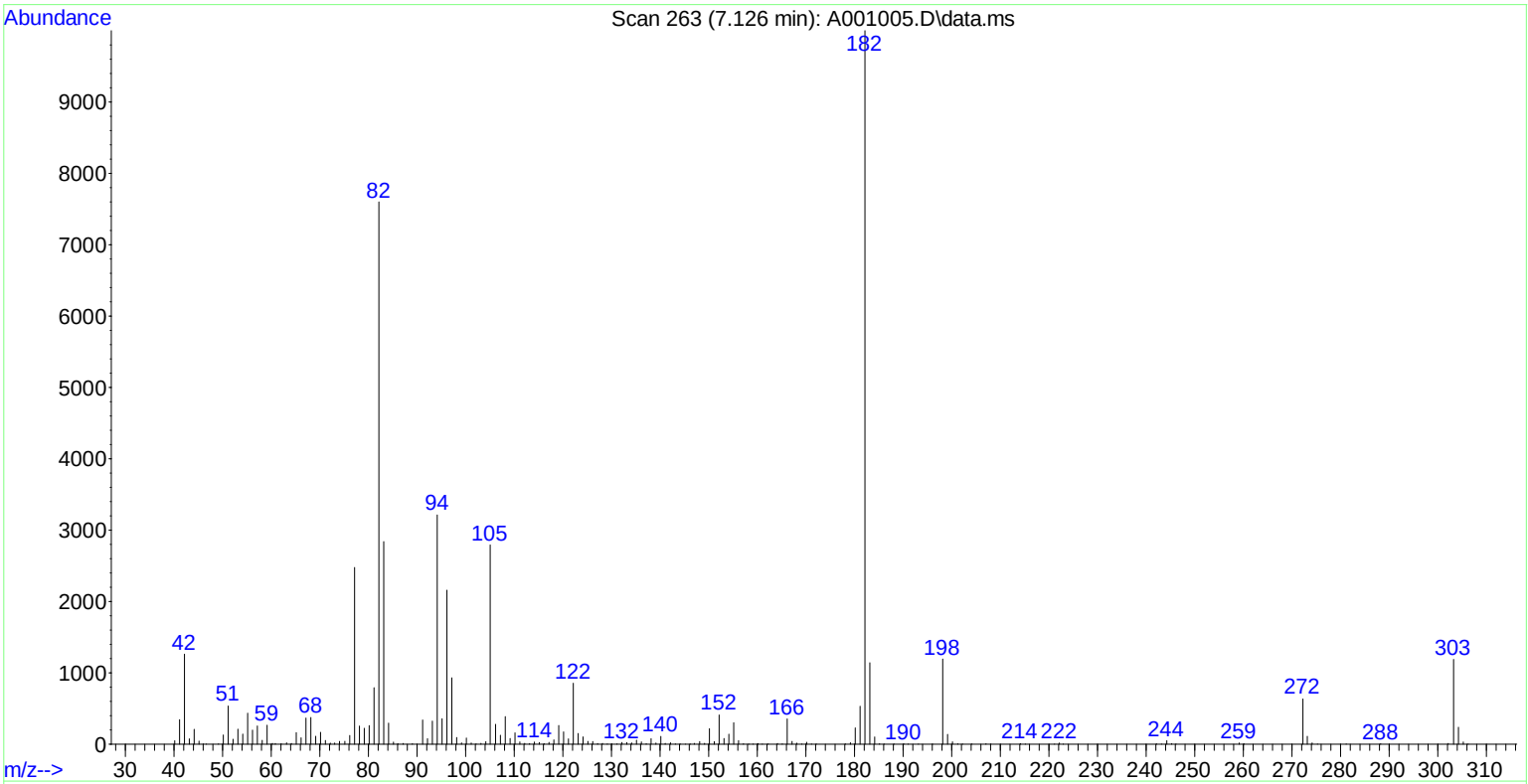


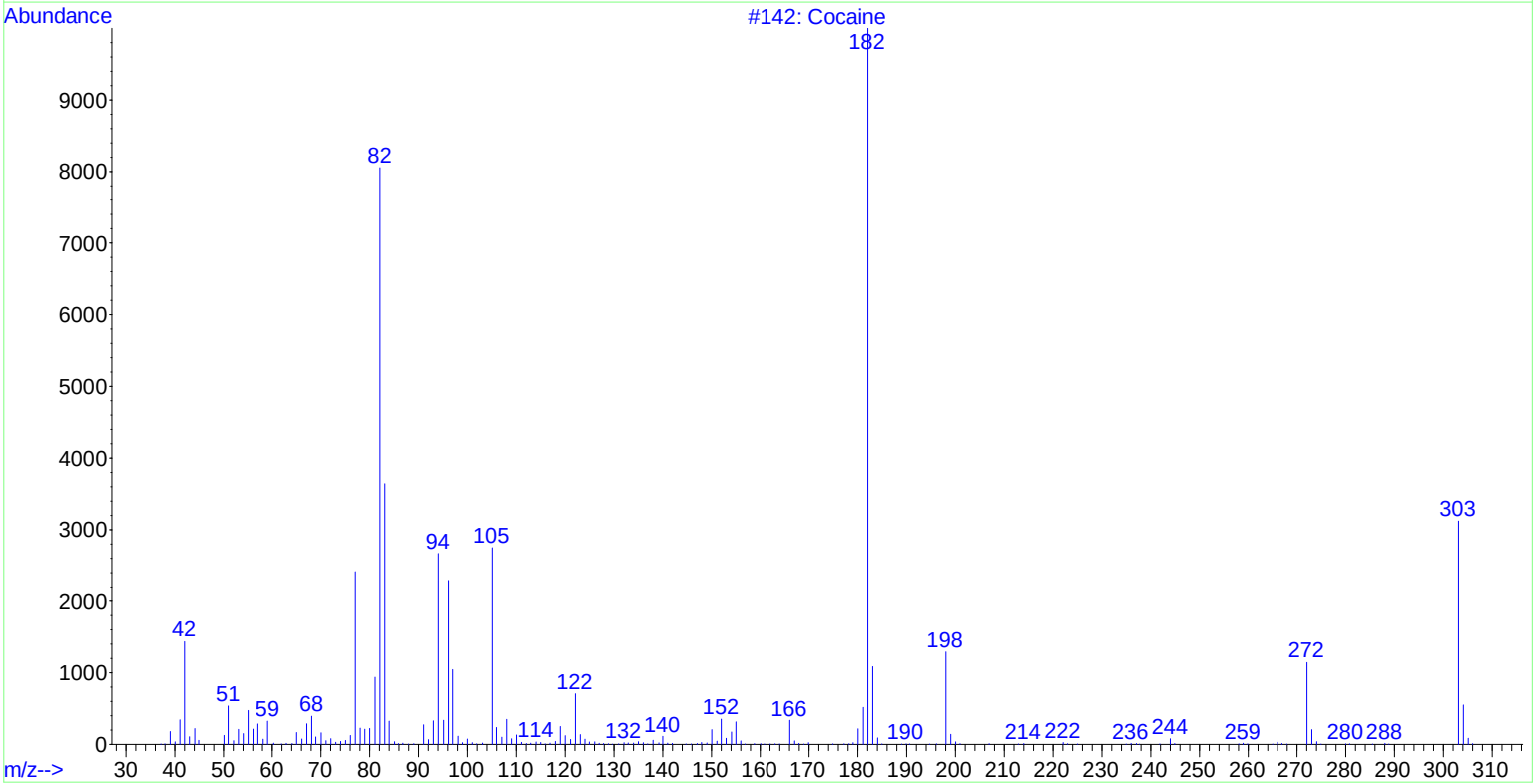
File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\082525\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 25 Aug 2025 11:05 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



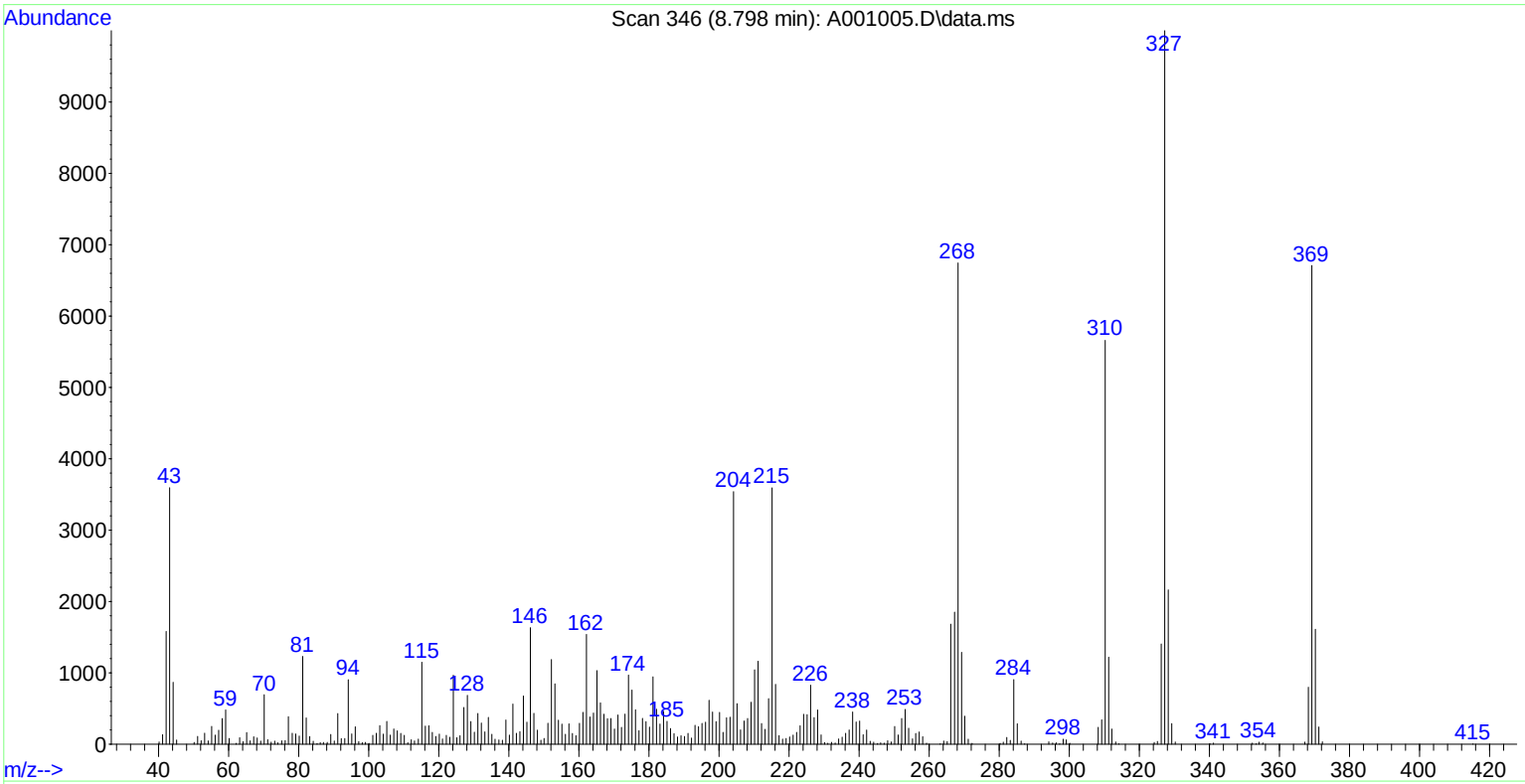


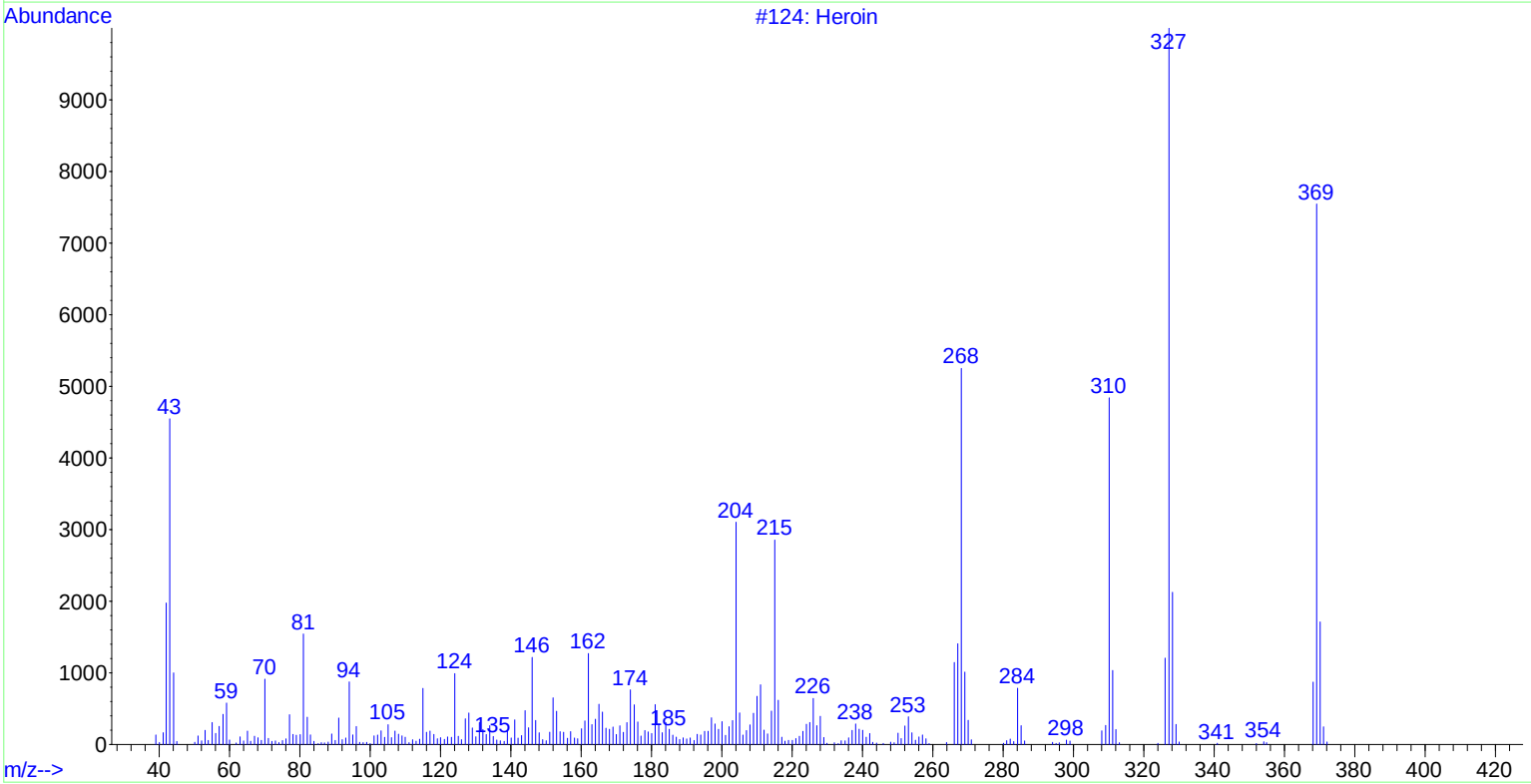
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Instrument : SD GCMS 1
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Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



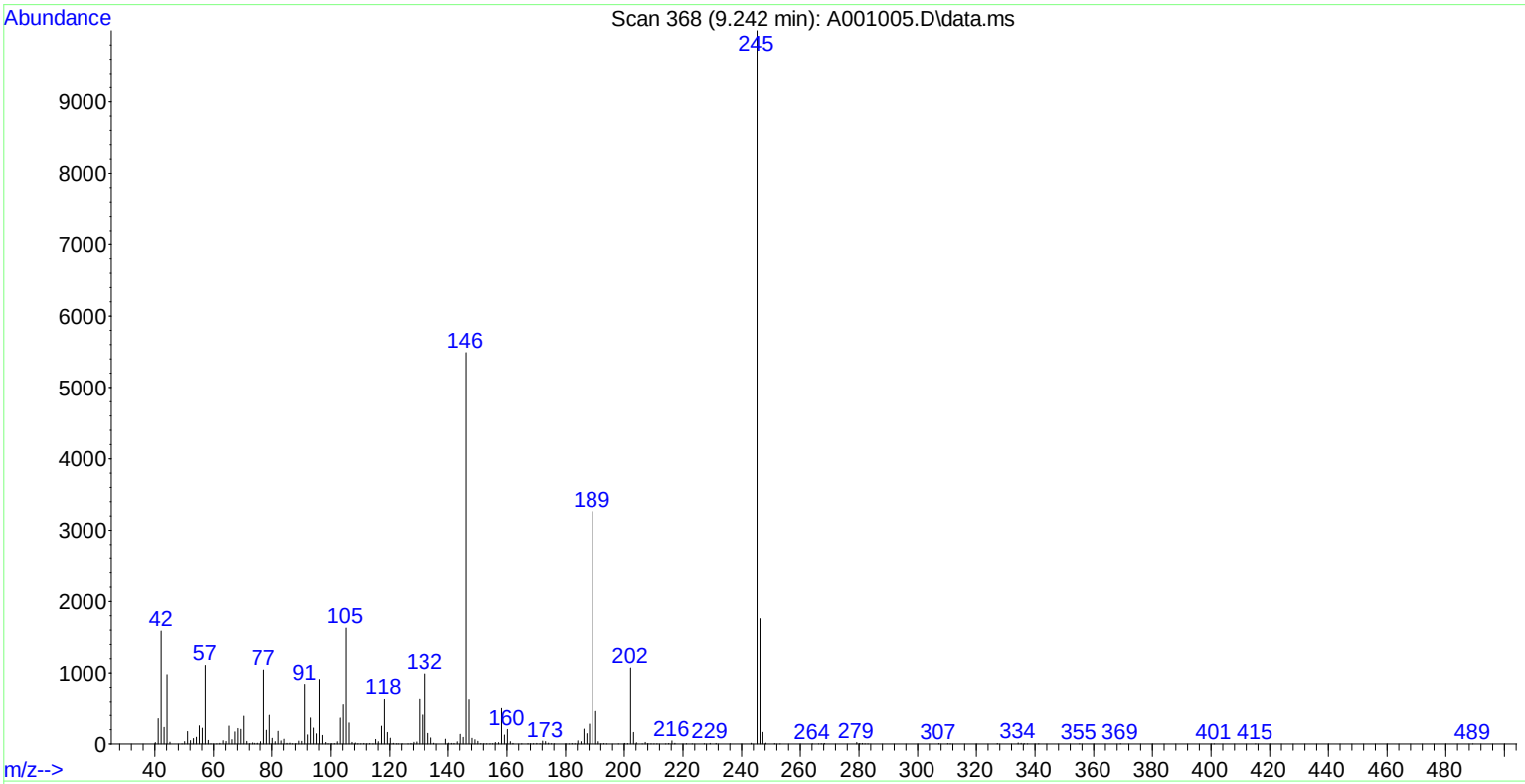


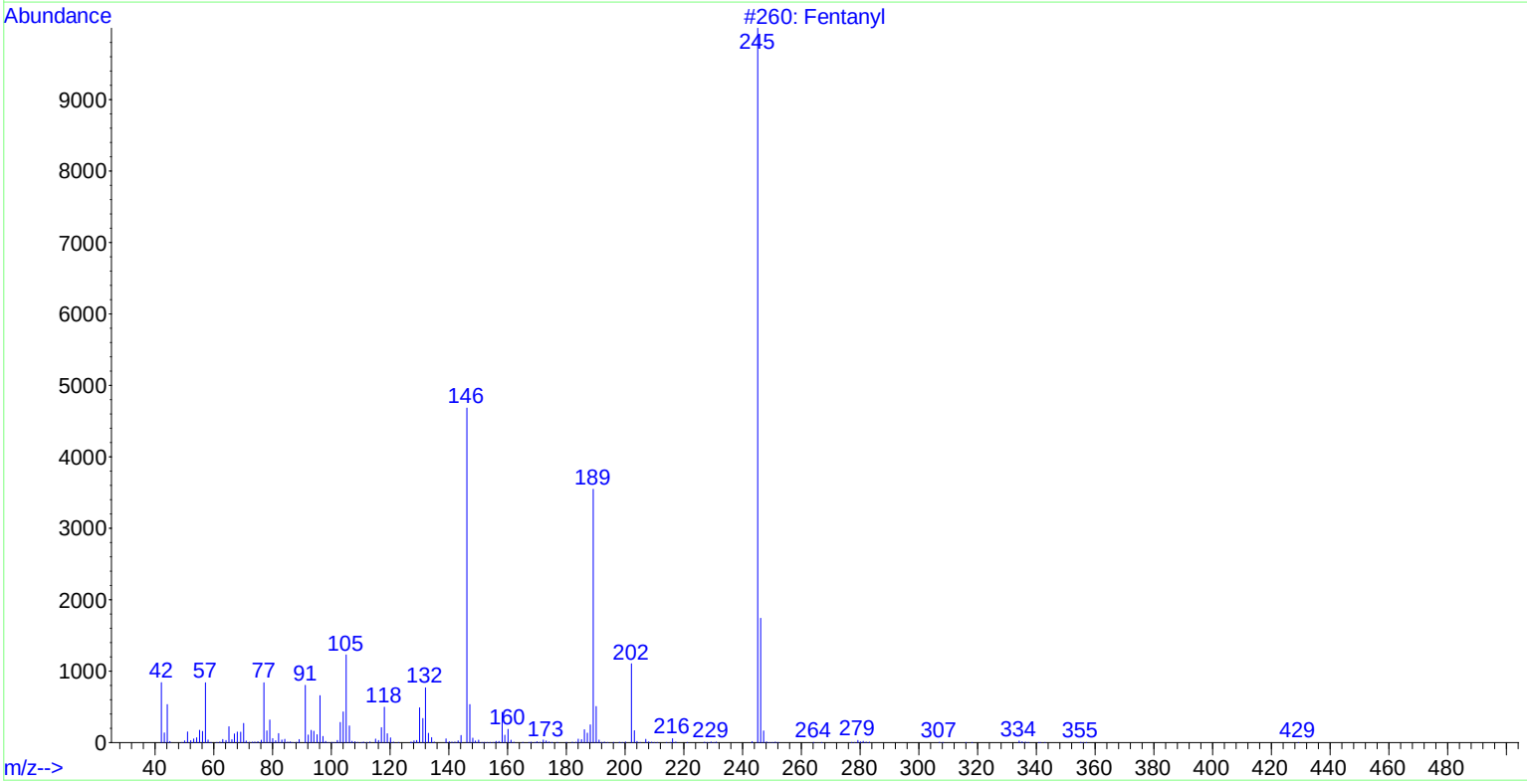
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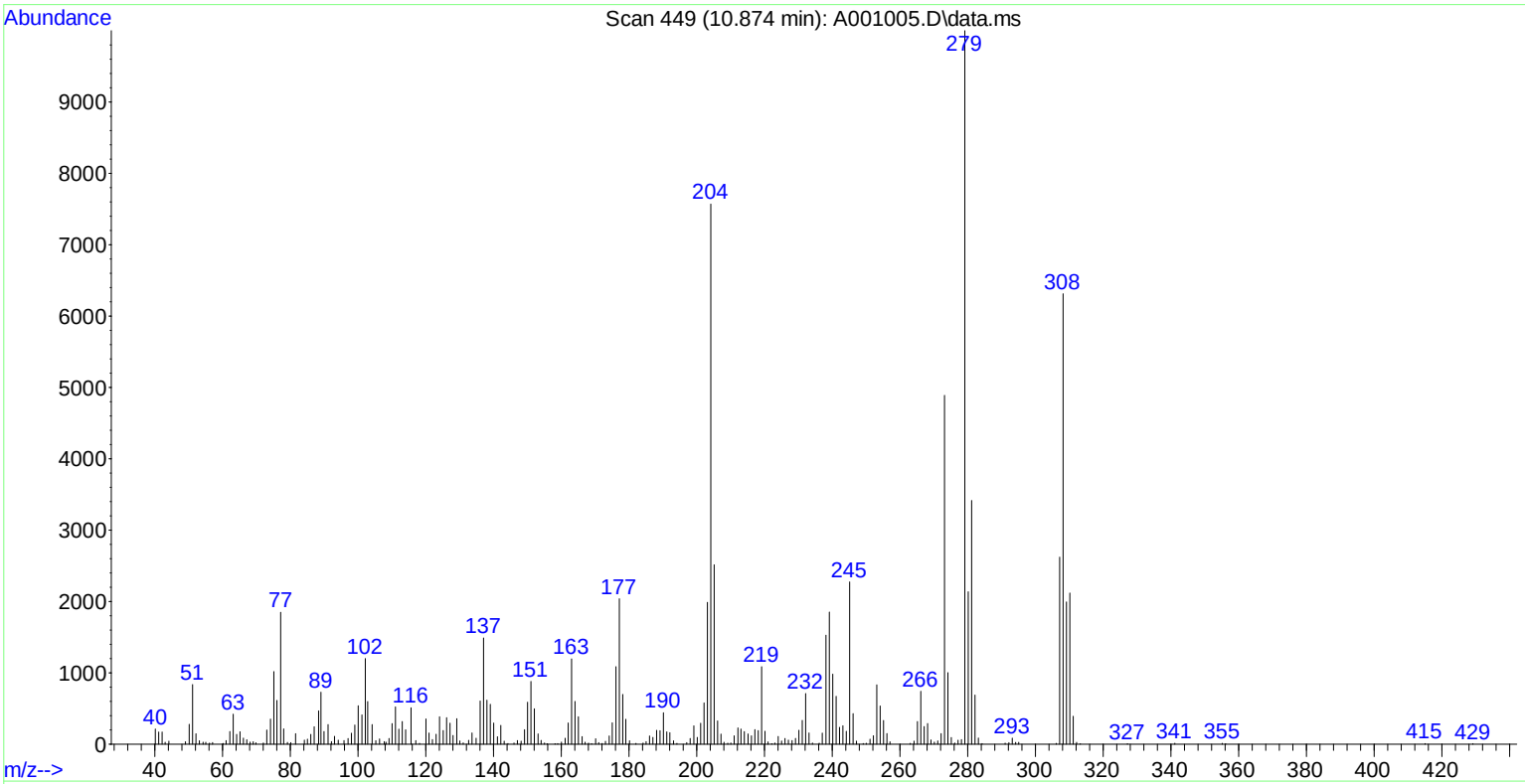


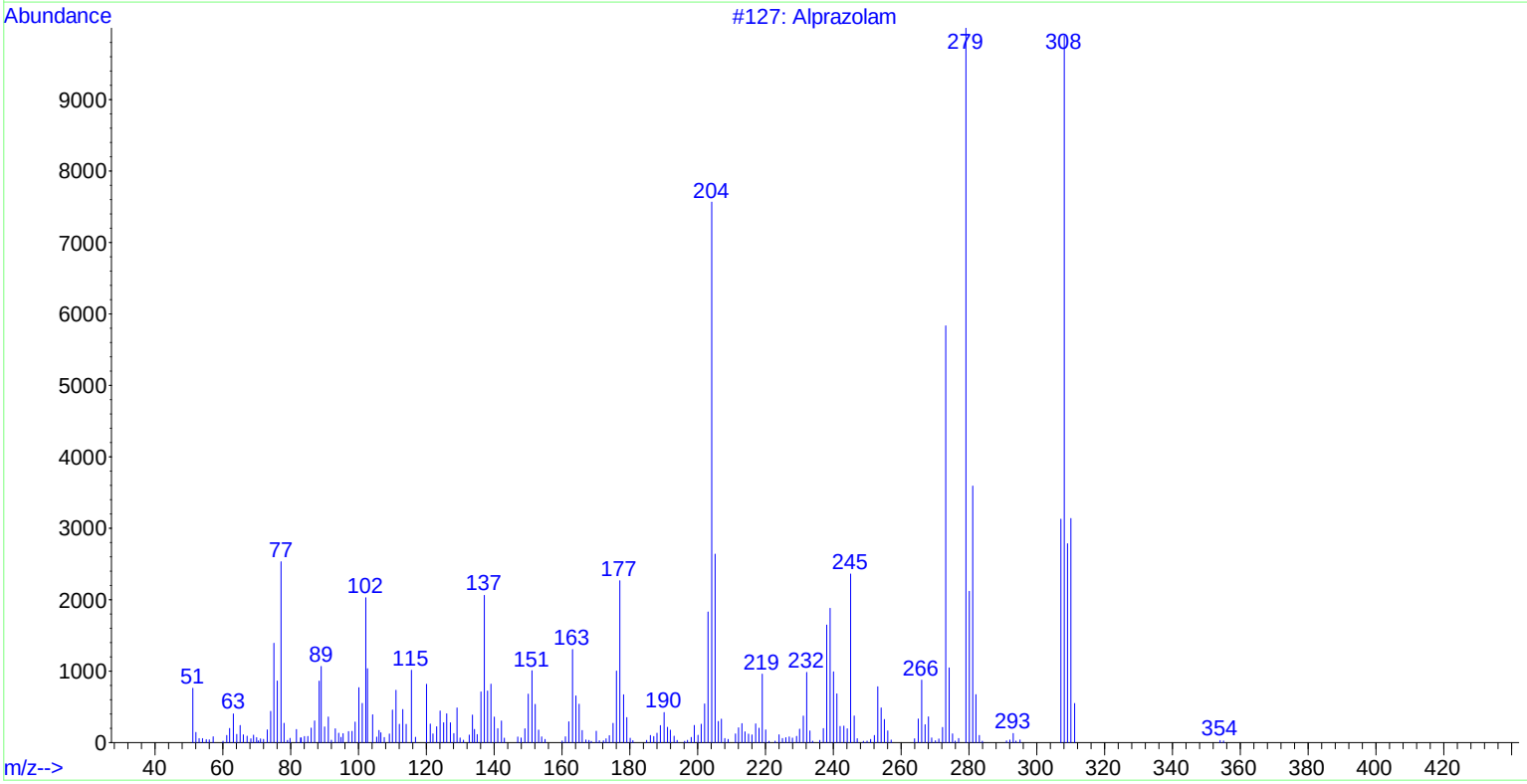
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Instrument : SD GCMS 1
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Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



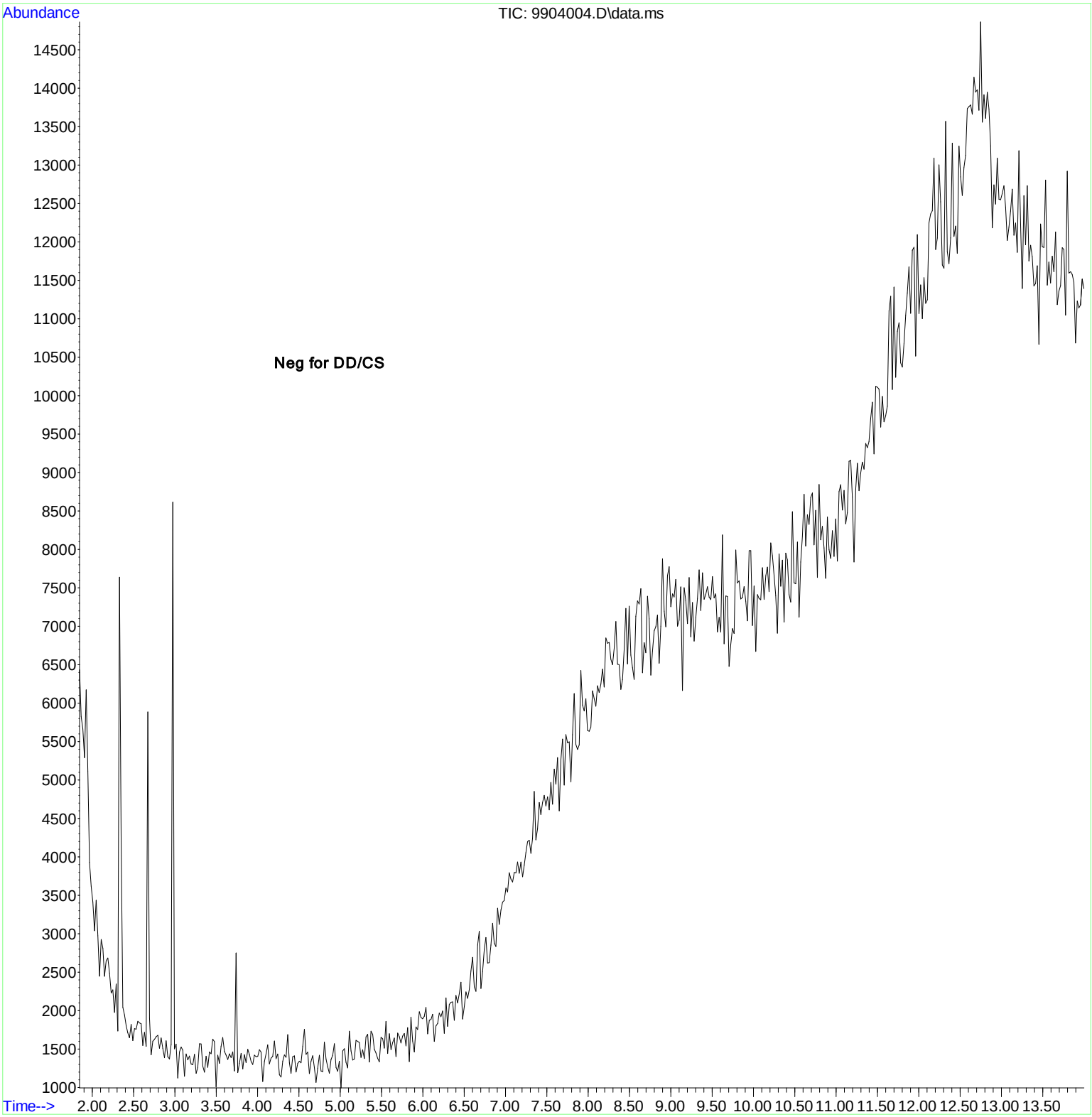


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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 25 Aug 2025 11:05 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN





File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 25 Aug 2025 10:47 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 : 25 Aug 2025 11:22 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK - INSTRUMENT READY 000002664
Misc Info : ACN (C-19-0068)

