Brazoria County Crime Lab

Seized Drugs Section

GC-MS Maintenance Log

Instrument: SD GCMS 1 **Month/Year:** April 2025

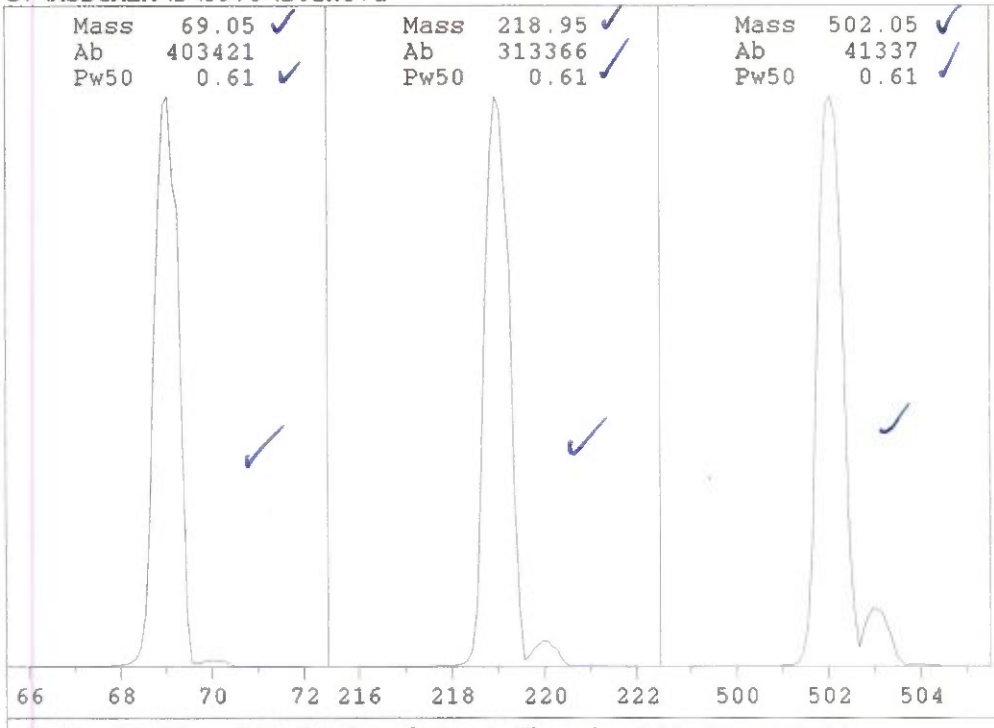
Entry Number	Date	He Tank Pressure	Autotune	Septum Change	Wash Vials Filled	Liner Change	Gold Seal Replaced	Column Cut	Computer Restarted	Maintenance/ PM	Analyst/ Technician	Comments	Initials
1	4/7/2025	800	Pass	N/A	√	N/A	N/A	N/A	N/A	Maintenance	Analyst		DS
2	4/14/2025	2250	Pass	N/A	√	N/A	N/A	N/A	N/A	Maintenance	Analyst	He tank change on 04/11/2025	DS
3	4/22/2025	1100	Pass	N/A	√	N/A	N/A	N/A	√	Maintenance	Analyst	Computer restart due to building power failure	DS
4	4/28/2025	2500	Pass	√	√	√	N/A	N/A	N/A	Maintenance	Analyst	He tank change on 04/28/25	DS/DN

Signature: _____ **Date:** 05/01/2025

5973 Autotune

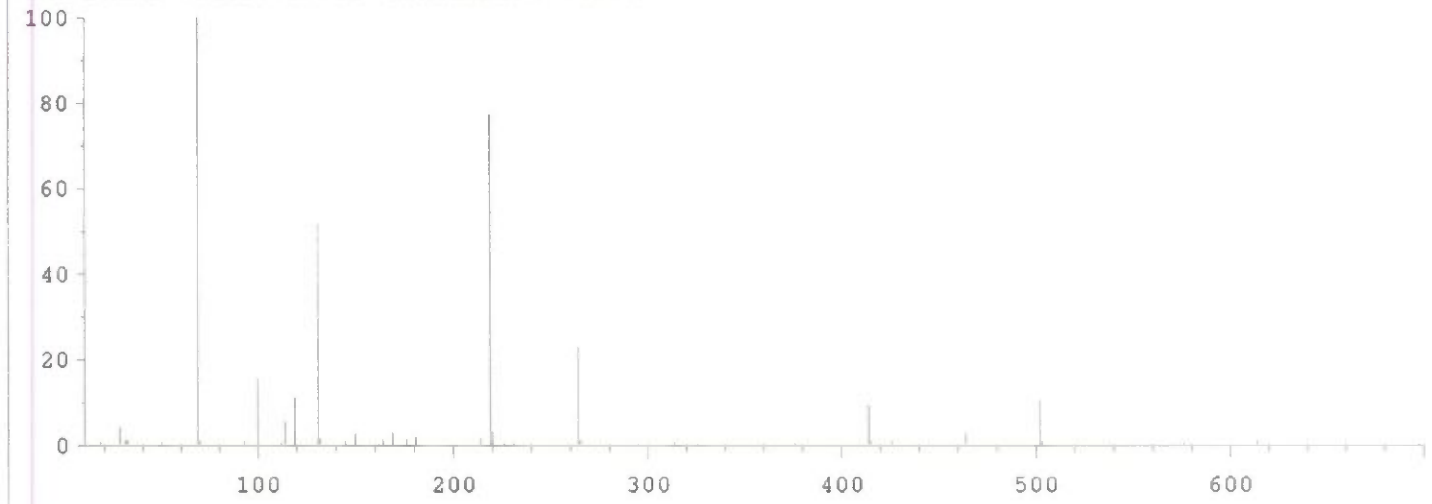
Mon Apr 07 09:30:09 2025
C:\MSDCHEM\1\5973\atune.u

Instrument: SD GCMS 1



Ion Pol	POS	MassGain	368
		MassOffs	-11
Emission	34.6	AmuGain	2441
EIEnrgy	69.9	AmuOffs	122
Filament	1	Wid219	-0.031
		DC Pol	POS
Repeller	27.27		
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
132 peaks Base: 69.05 Abundance: 365312



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.05	365312	100.00	70.05	4132	1.13
218.95	282752	77.40	220.05	12200	4.31
502.05	38408	10.51	503.05	4240	11.04

Air/Water Check: H20~1.04% N2~4.33% O2~1.35% CO2~0.07% N2/H2O~417.85%

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

Ramp Criteria:
Ion Focus Maximum 90 volts using ion 502: EM Gain 105059
Repeller Maximum 35 volts using ion 219:

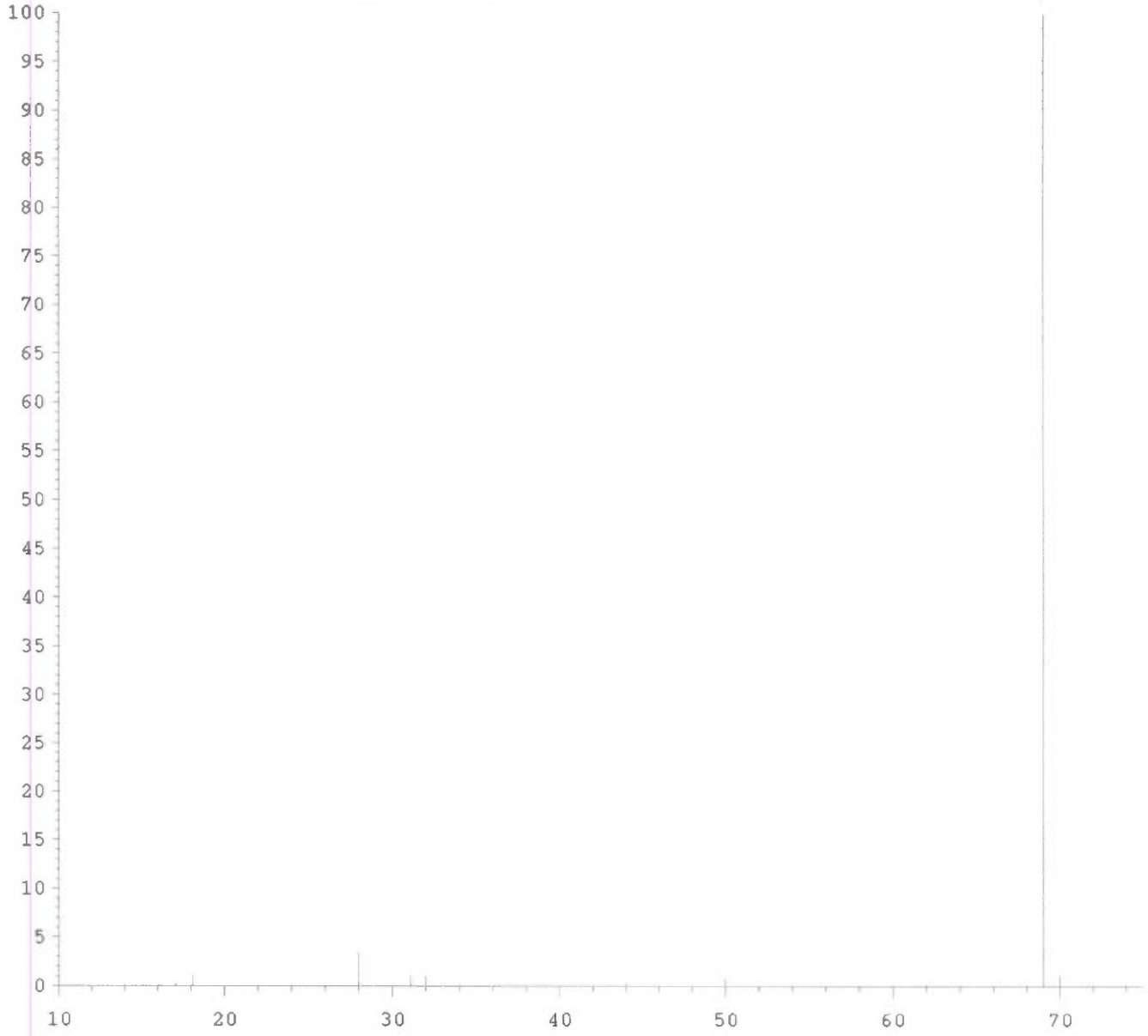
MassGain Values @Samples: 368@3 368@2 368@1 368@0 368@FS

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
Mon Apr 07 09:21:06 2025 C:\MSDCHEM\1\5973\

Scan: 10.00 - 75.00 Samples: 8 Thresh: 0 Step: 0.10
70 peaks Base: 69.00 Abundance: 608768



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	608768	100.00	70.00	7050	1.16
18.10	7424	1.22	18.90	102	1.37
28.00	20992	3.45	29.00	304	1.45

Current Params used: atune.u

Relative abundances:
18/69 = 1.22 Water%
28/69 = 3.45 Nitrogen%
32/69 = 1.15 Oxygen%
44/69 = 0.32 Carbon Dioxide%
28/18 = 282.76 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	70.03	Ok
Position of isotope mass 220	219.98	Ok
Position of isotope mass 503	503.04	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%)	4.35	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	77.45	Ok
Ratio of 502 to 69 should be > 2.4% and is	10.47	Ok
Mass 69 Precursor (<= 3%)	0.24	Ok
Mass 219 Precursor (<= 6%)	0.31	Ok
Mass 502 Precursor (<= 12%)	0.46	Ok
Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	1.01	Ok
Ratio of 28 to 69 (<10%)	4.56	Ok
Electron Multiplier Voltage	1576	Ok

Tune portion of System Verification passed.

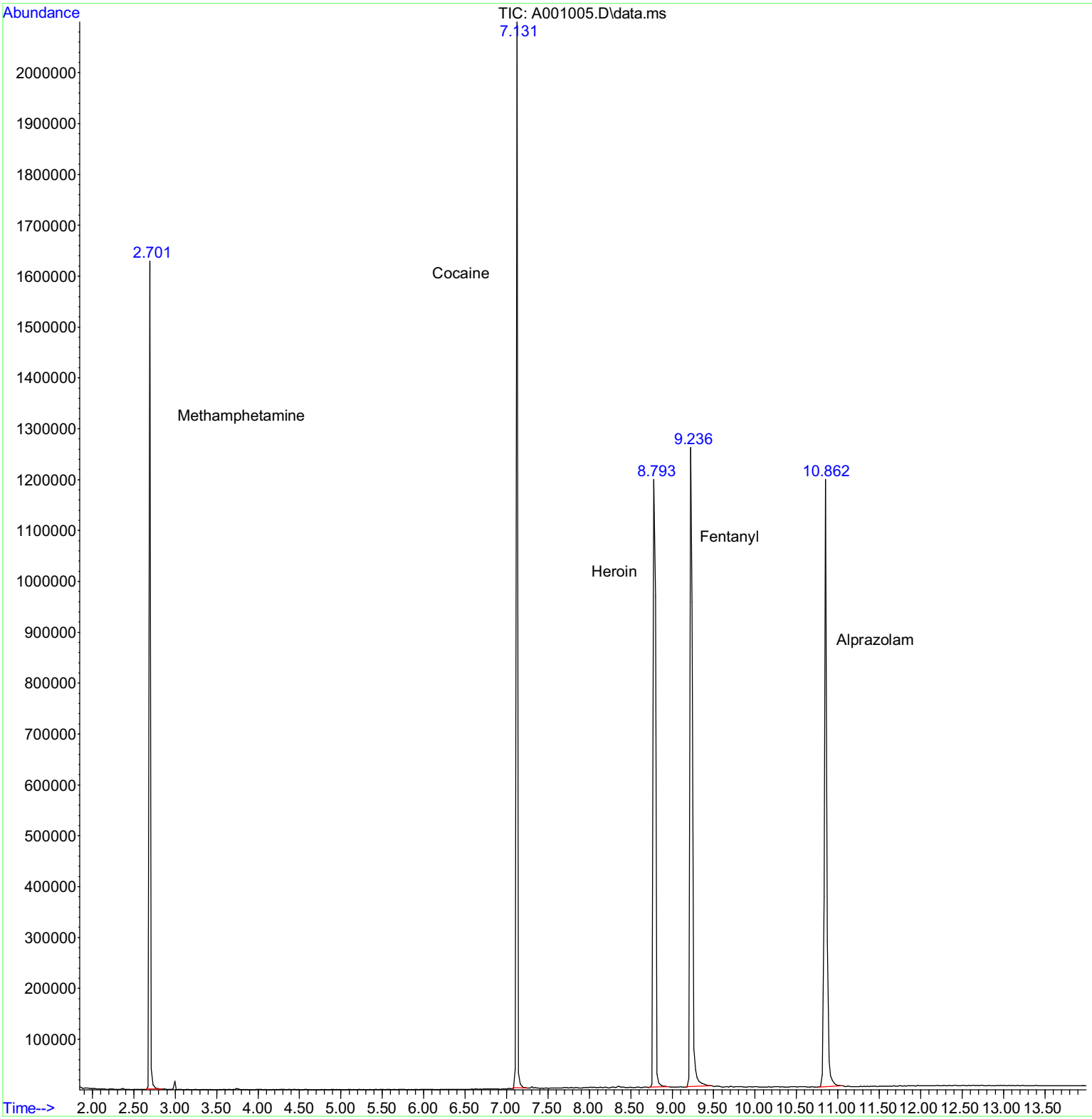
BCCL GC/MS #1
Retention Times for the Week of:

04/07/2025 - 04/13/2025

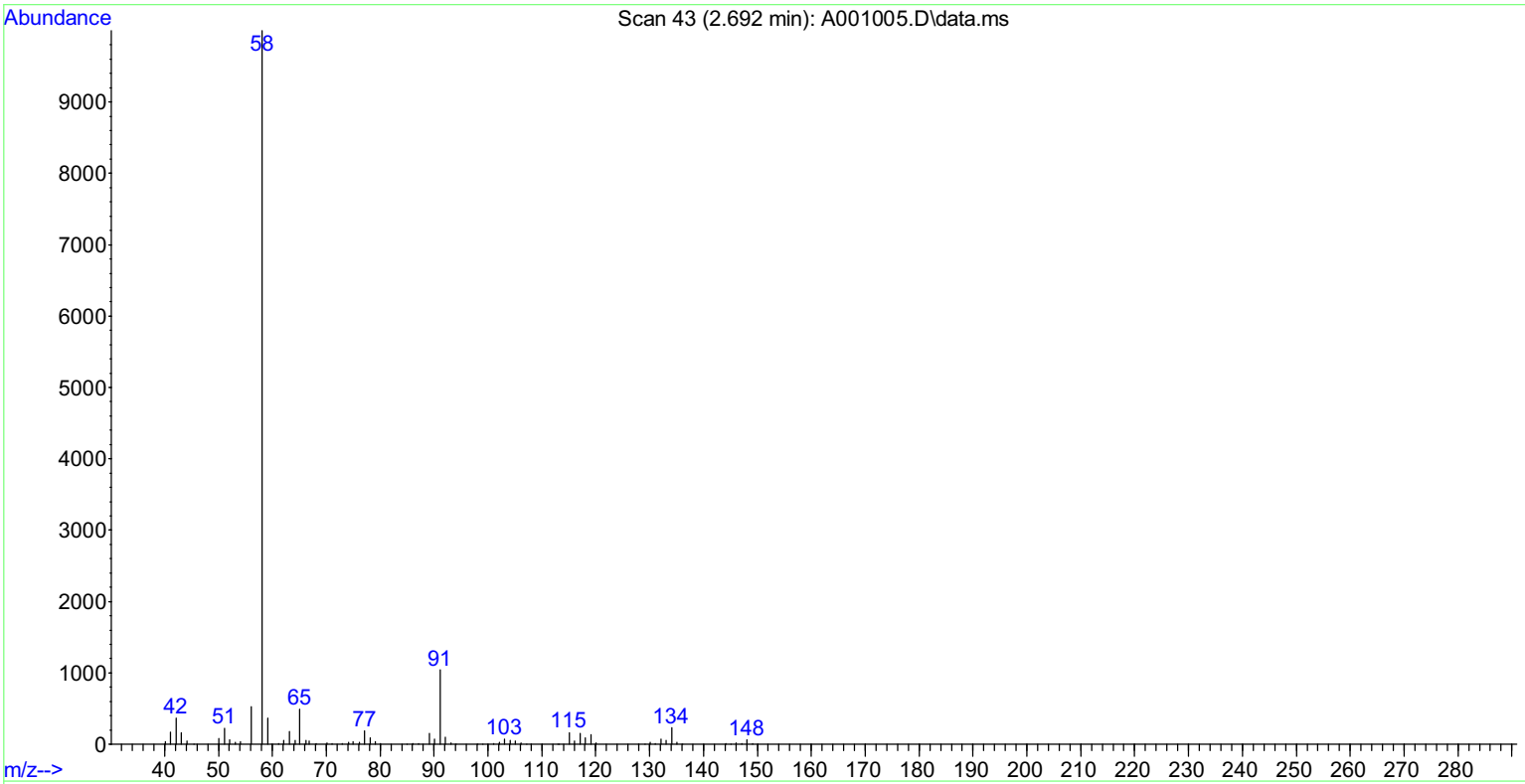
[x] **Tune: 04/07/2025 - Autotune DS**

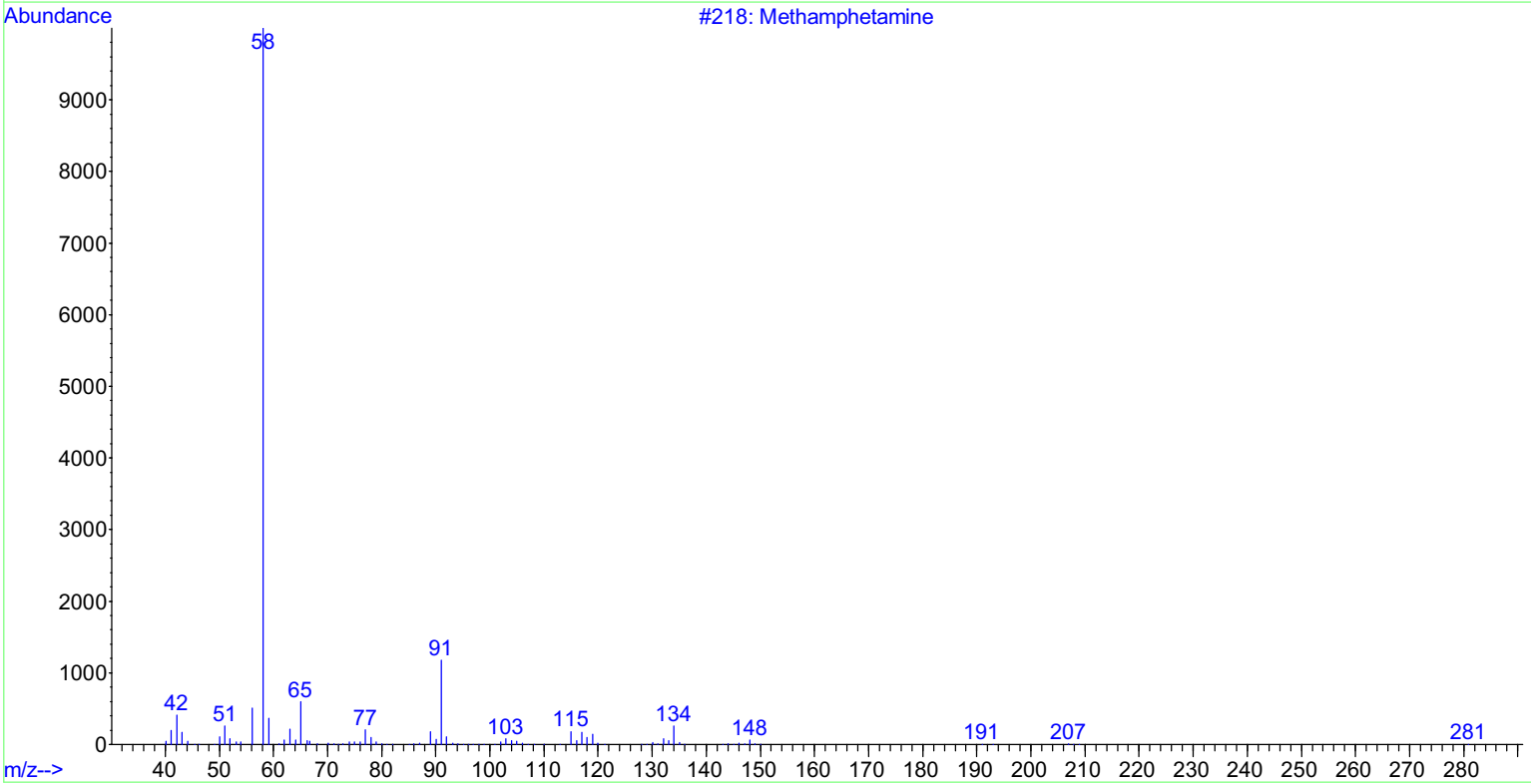
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	BCCL GenDrug	2.701	2.673	2.728
Cocaine	R-24-060	BCCL GenDrug	7.131	7.059	7.202
Heroin	R-24-060	BCCL GenDrug	8.793	8.705	8.880
Fentanyl	R-24-060	BCCL GenDrug	9.236	9.143	9.328
Alprazolam	R-24-060	BCCL GenDrug	10.862	10.753	10.970
CBN	R-24-036	BCCL GenDrug	8.339	8.255	8.422
delta-9 THC	R-24-025	BCCL GenDrug	8.080	7.999	8.160
delta-8 THC	R-24-040	BCCL GenDrug	7.984	7.904	8.063

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... 2025\040725\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 7 Apr 2025 10:32 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN

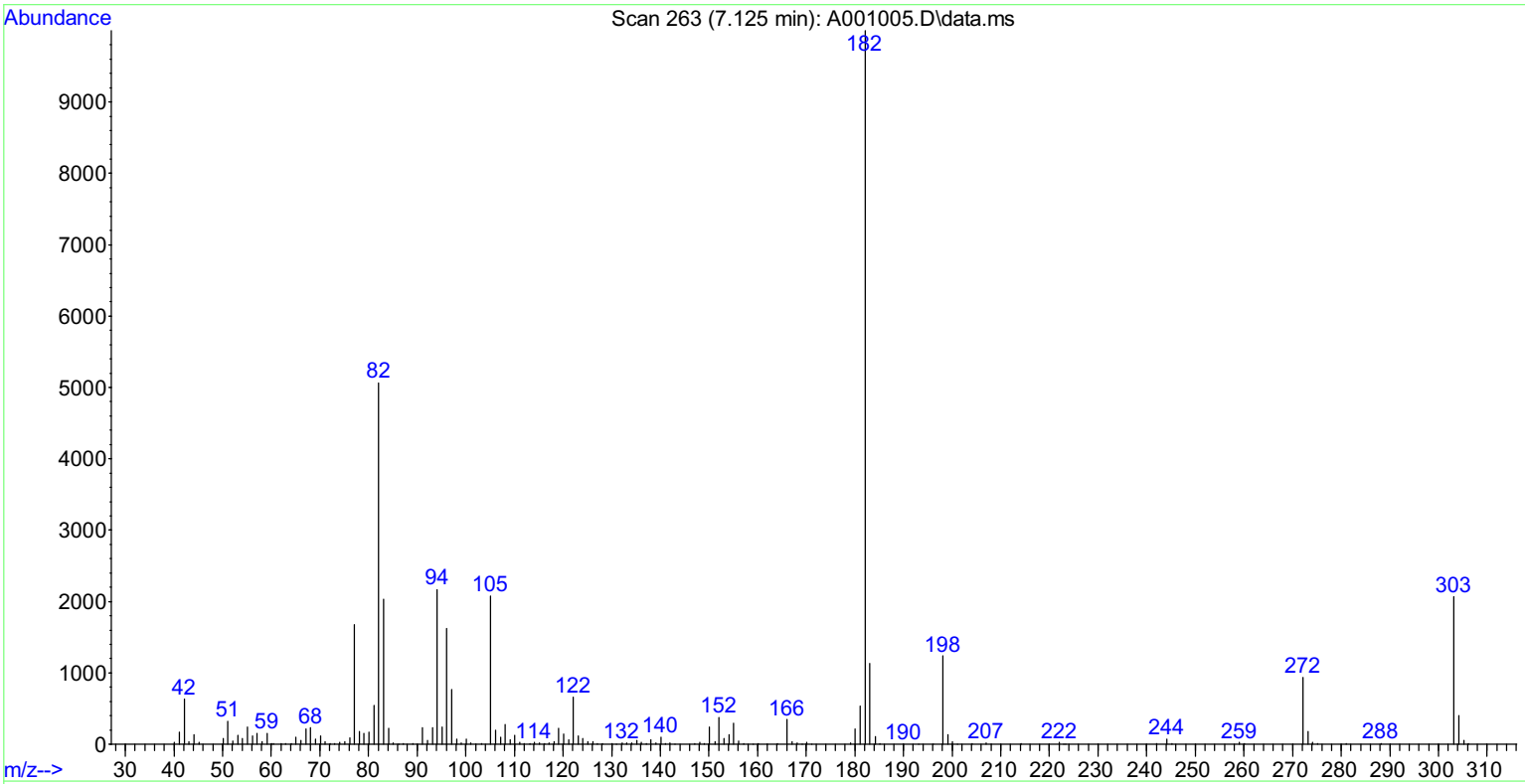


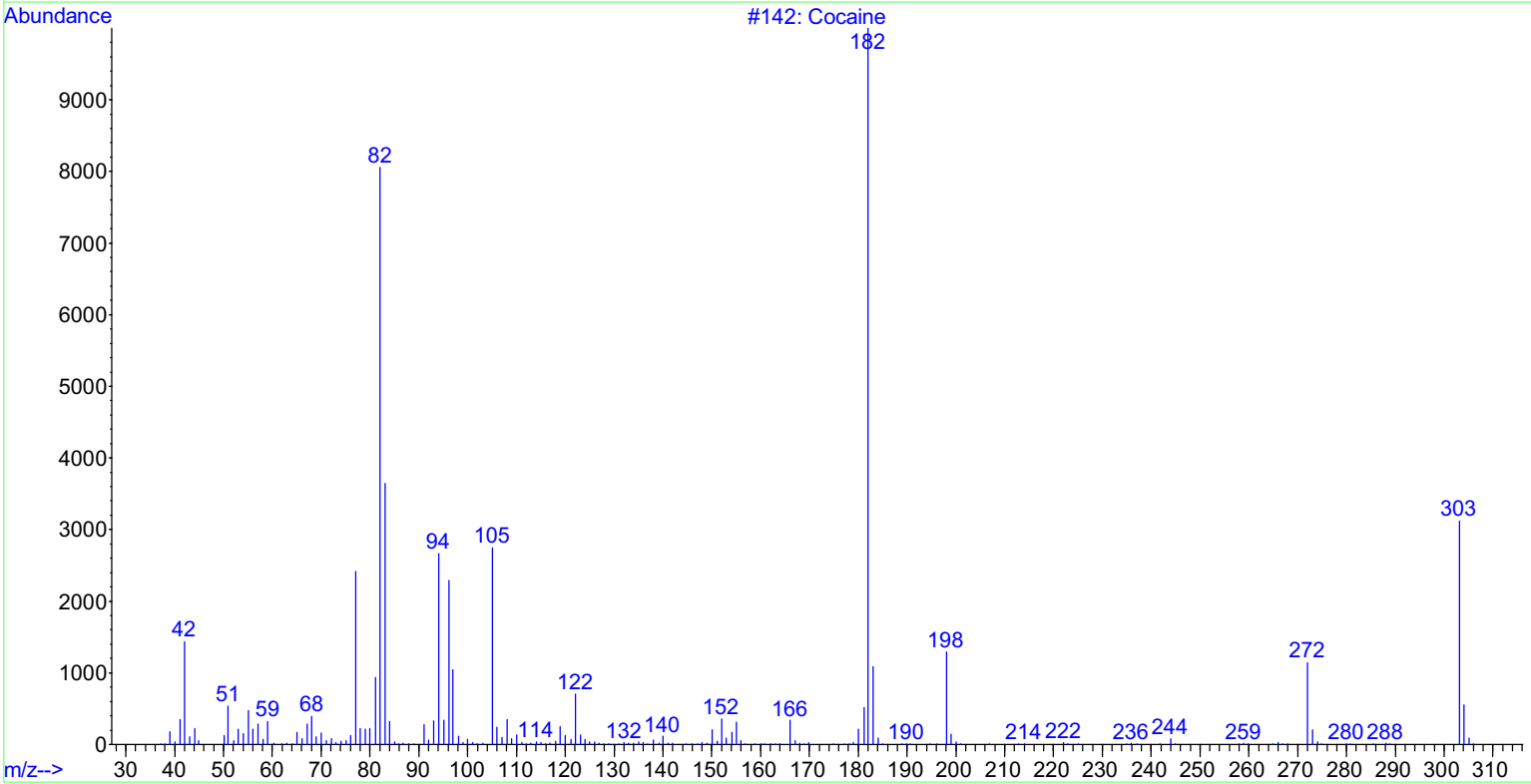
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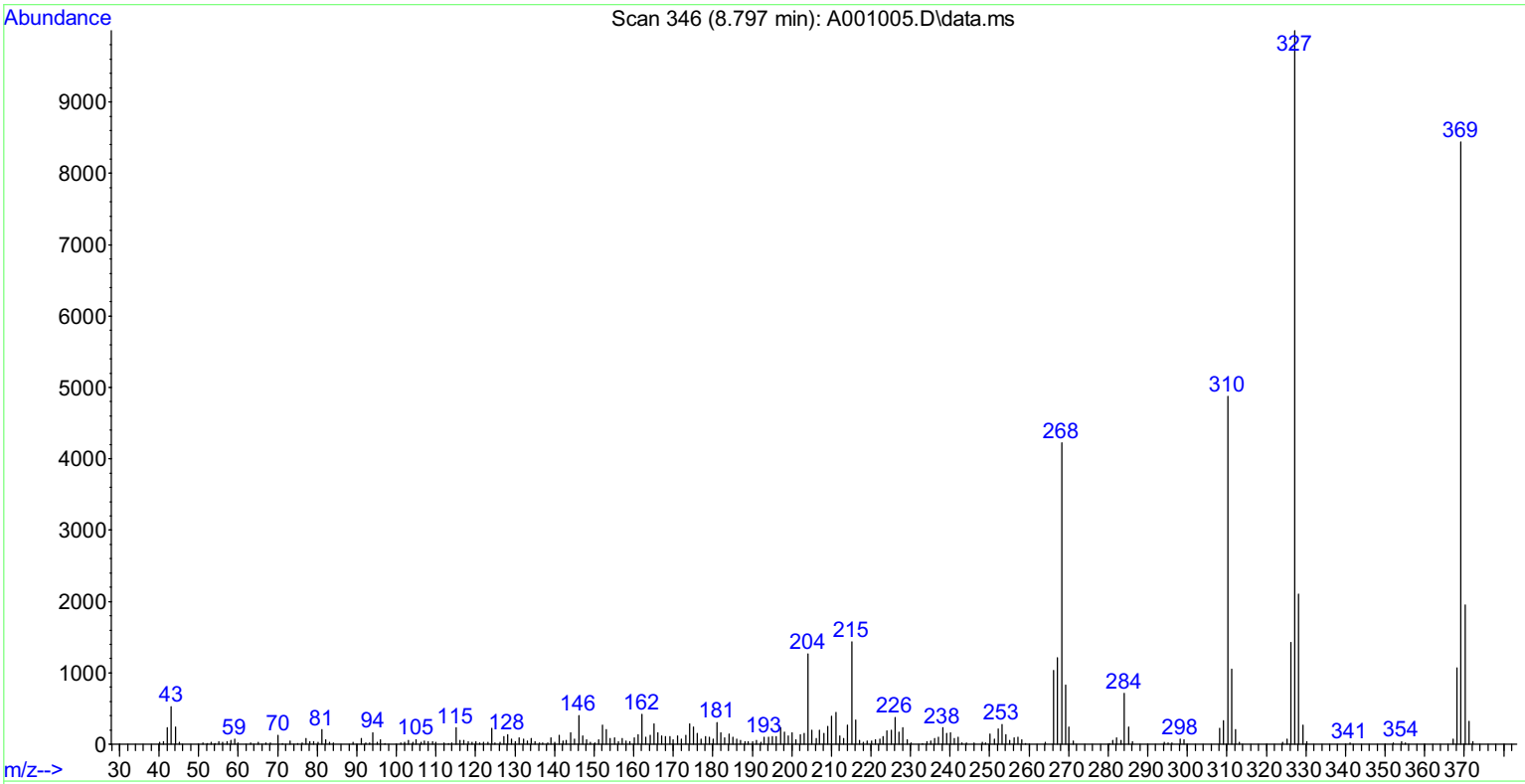


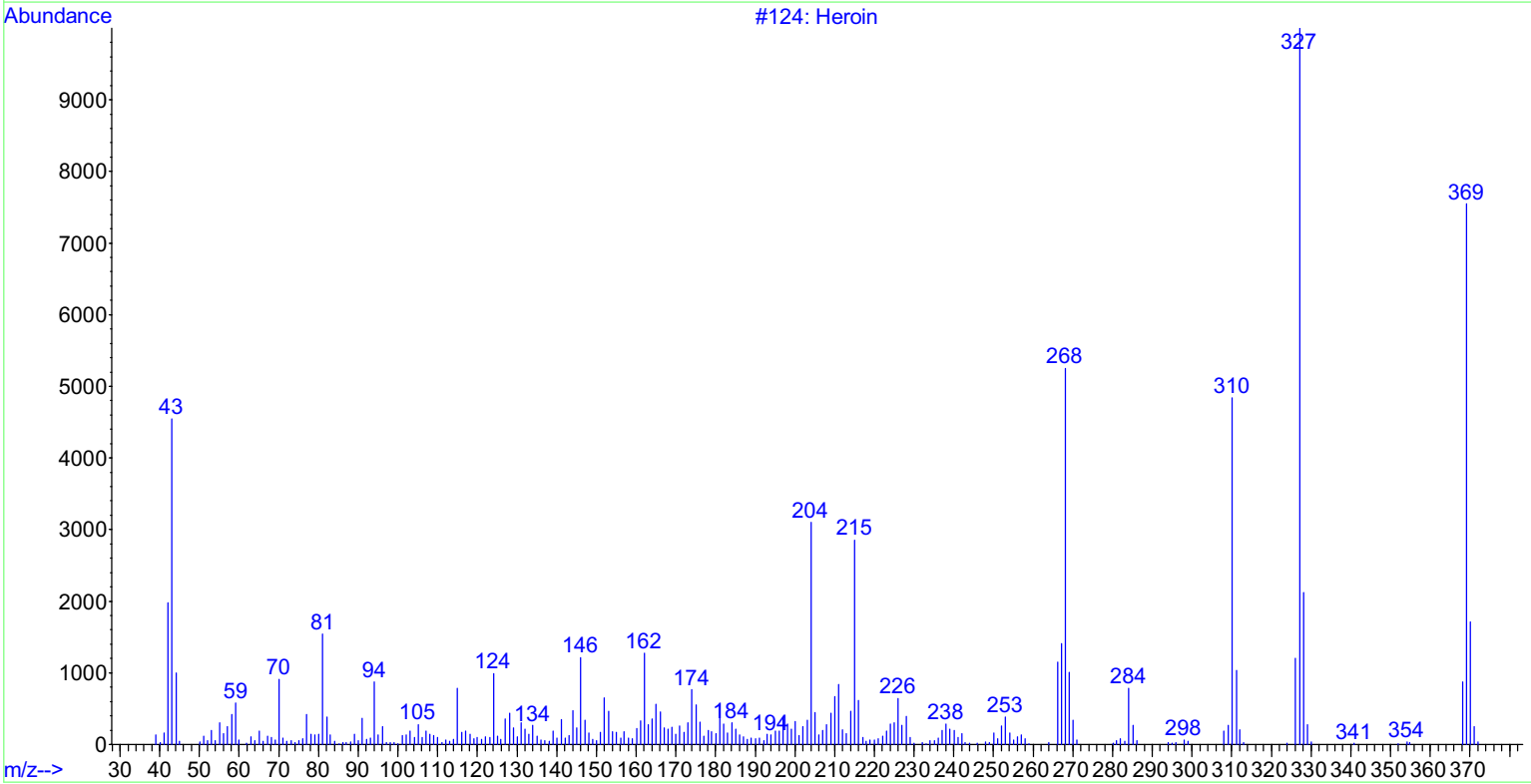
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Misc Info : In ACN



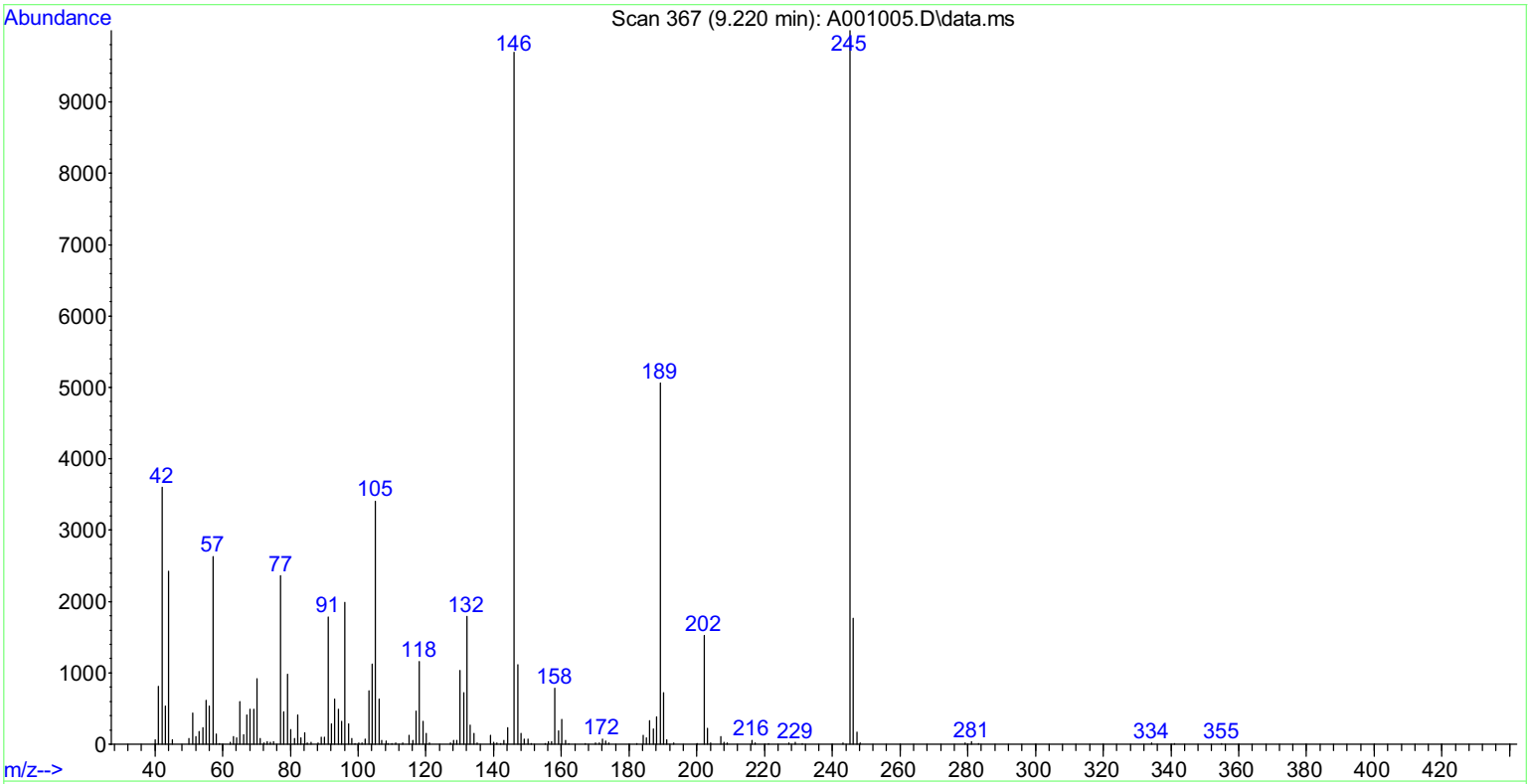


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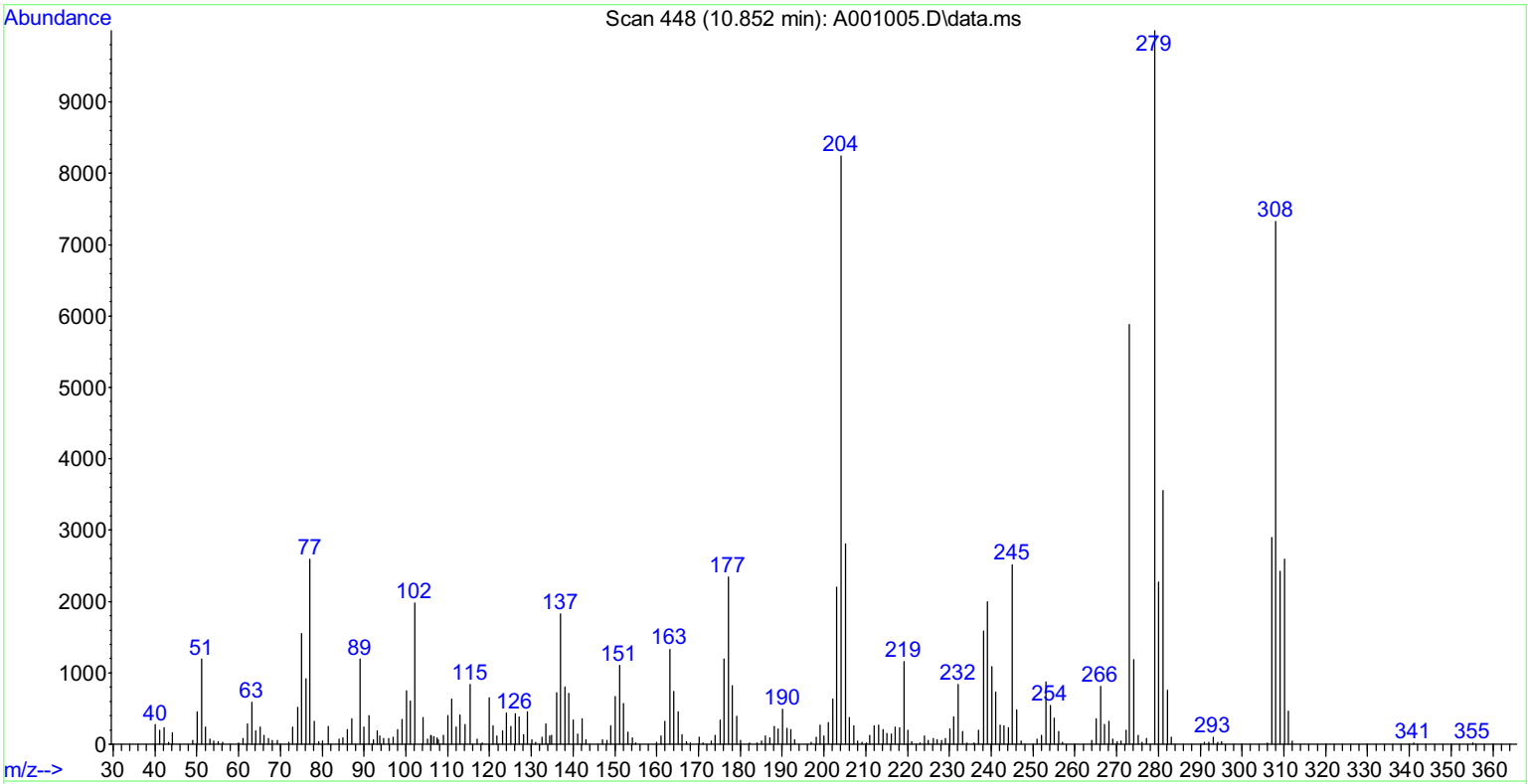


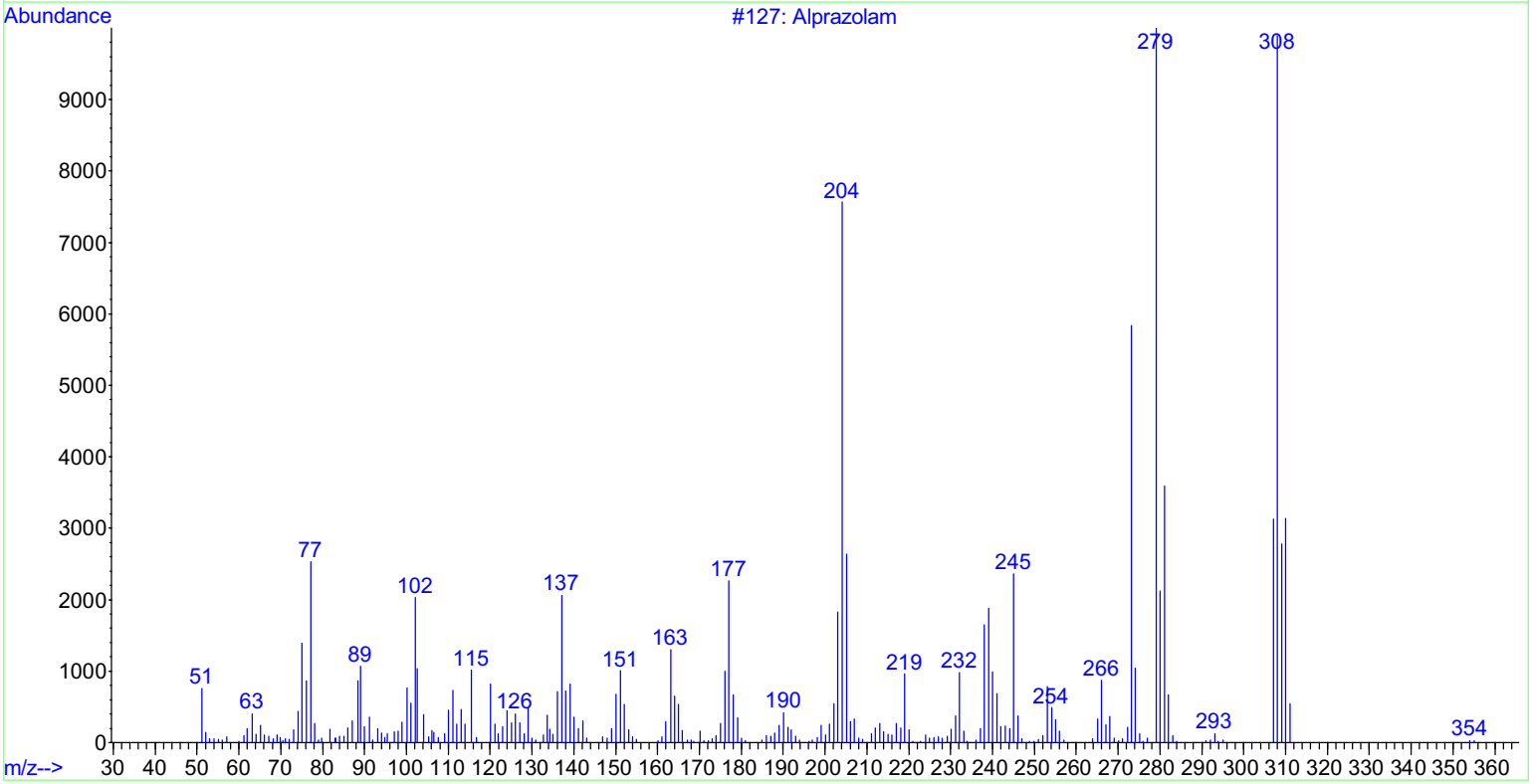


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Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN

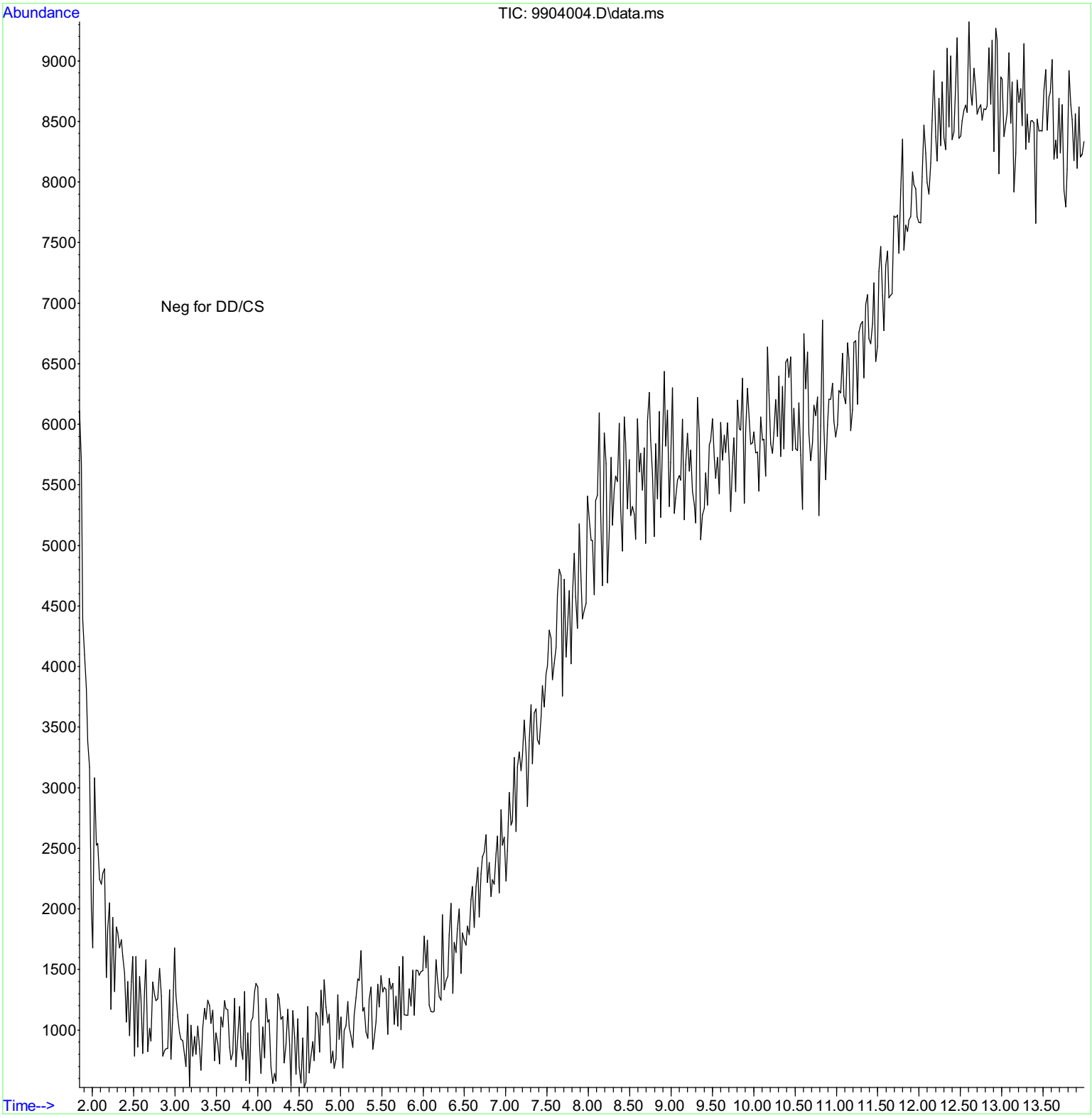


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Operator : AGILENT SD GCMS #1
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Acquired : 7 Apr 2025 10:32 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
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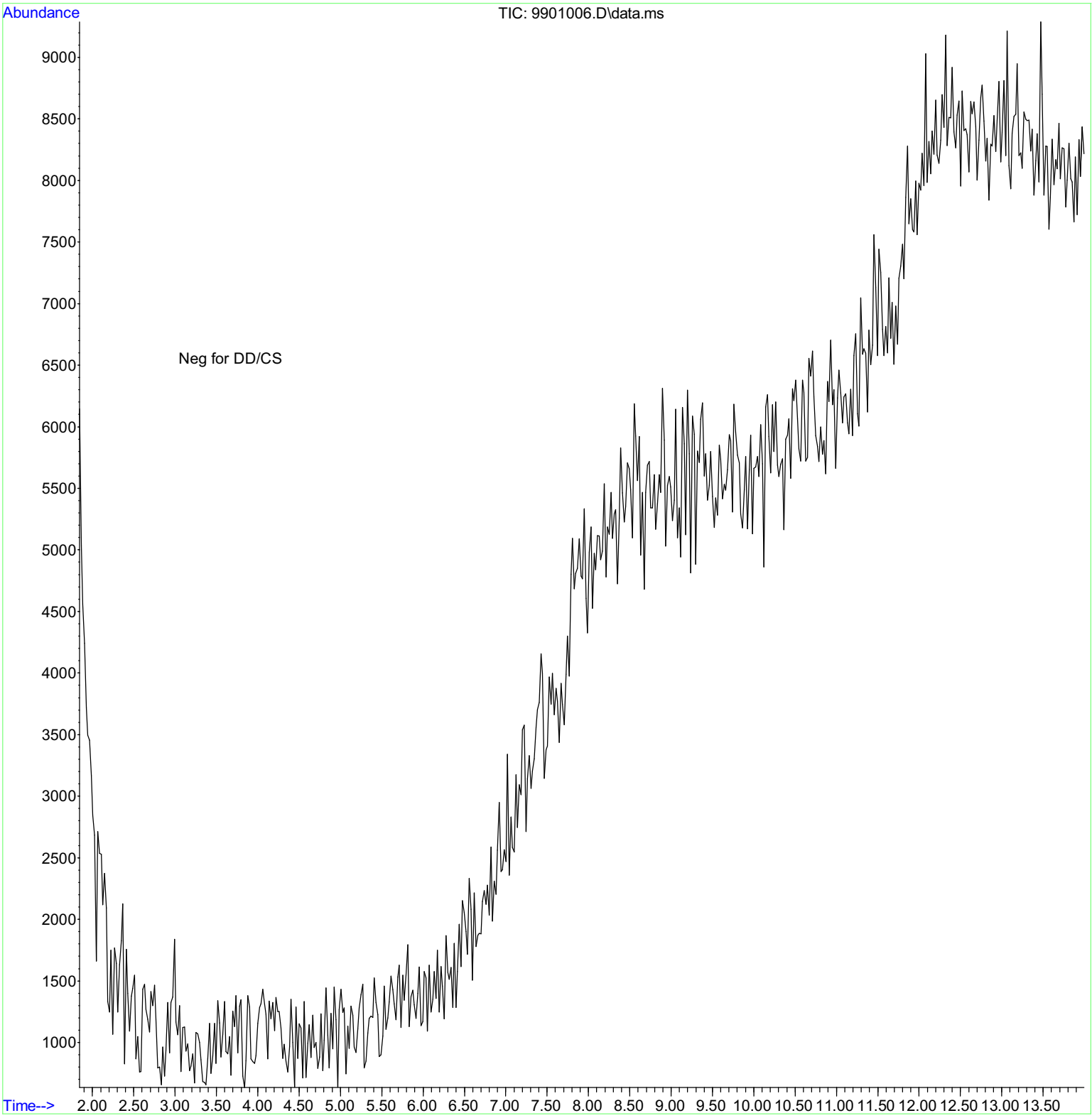




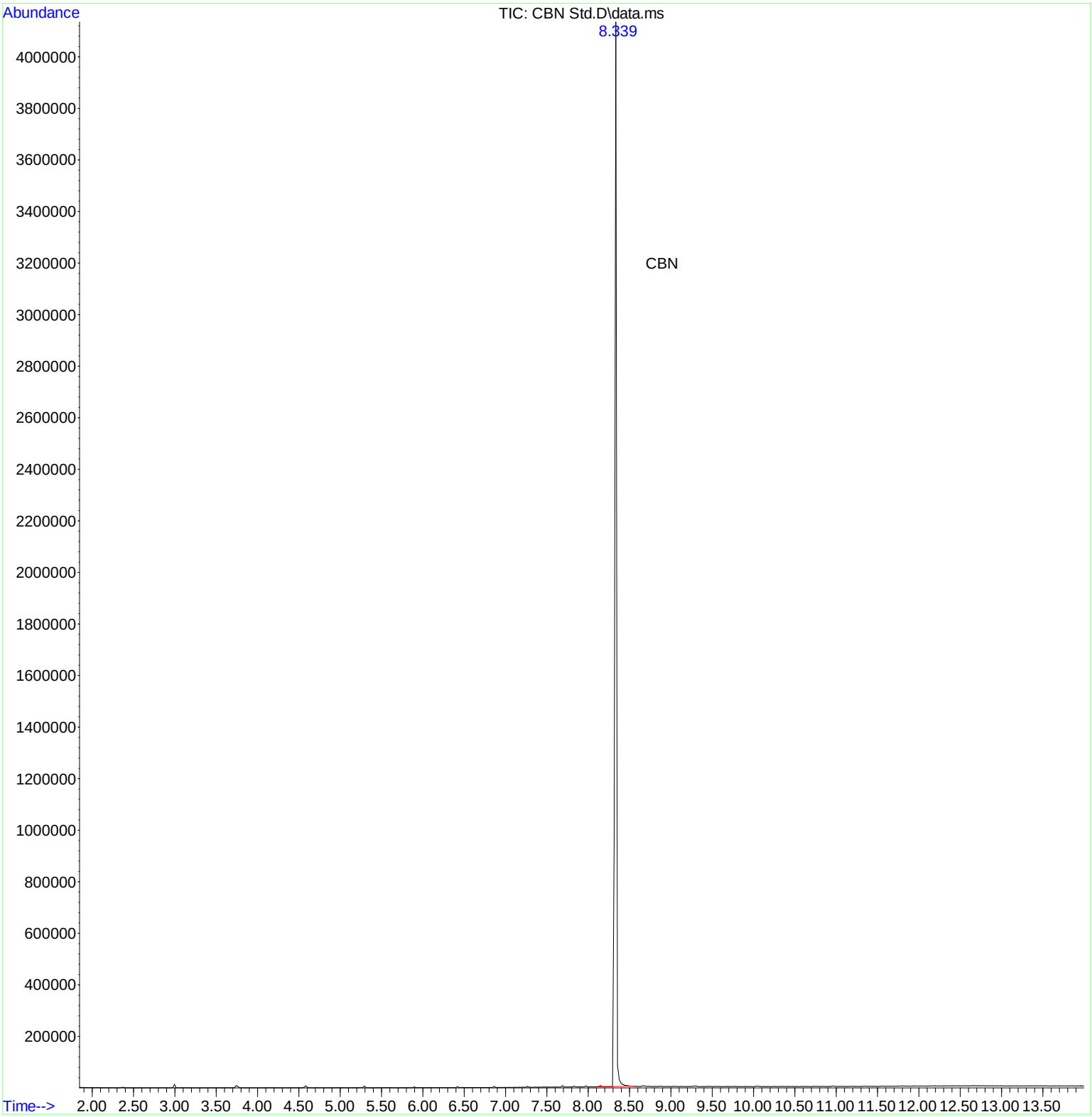
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 7 Apr 2025 10:15 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK PRIOR TO CAYMAN GC/MS 000002664
Misc Info : ACN (C-19-0068)



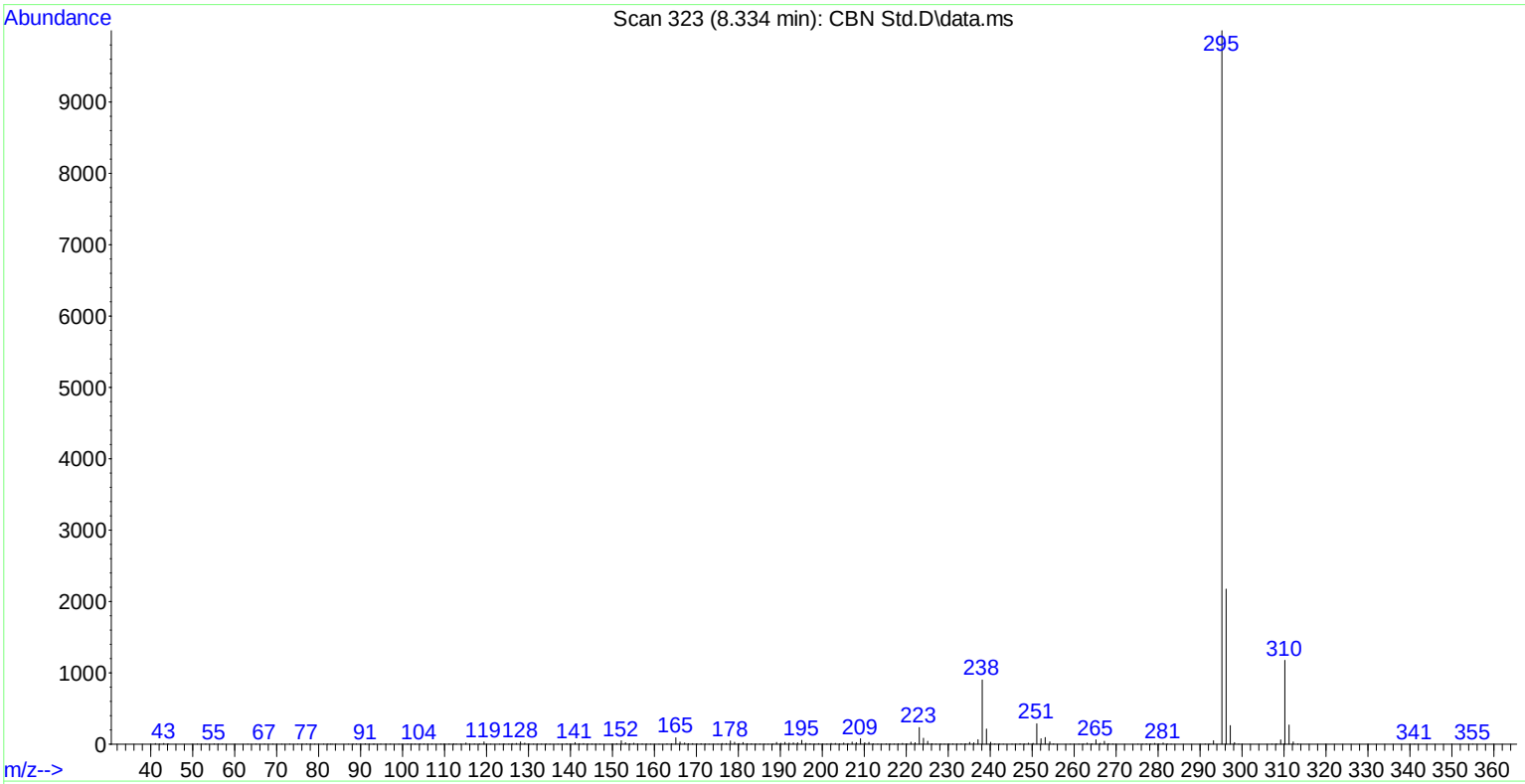
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... 2025\040725\9901006.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 7 Apr 2025 10:50 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK - INSTRUMENT READY 000002664
Misc Info : ACN (C-19-0068)

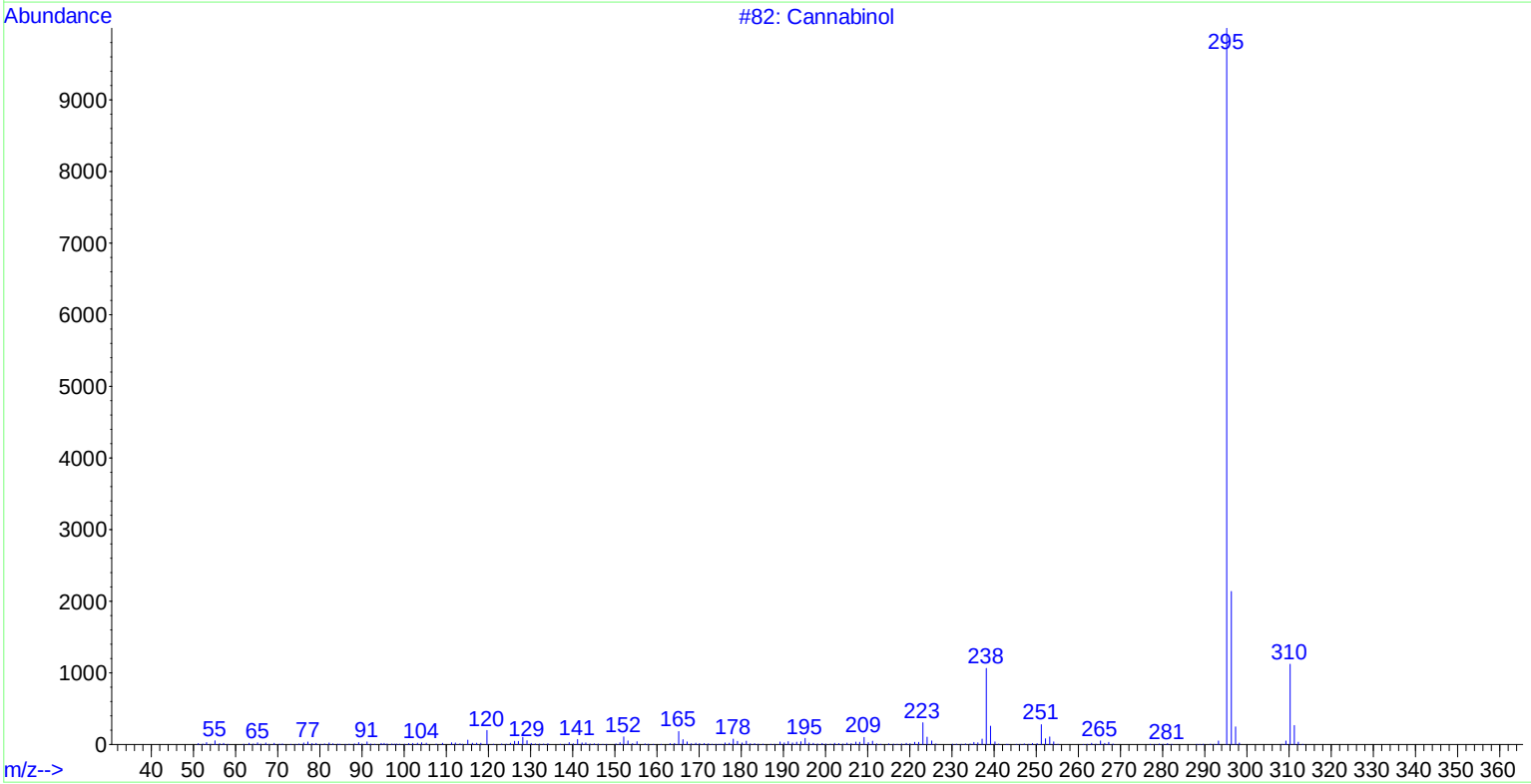


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Operator : BCCL SD GCMS 1
Acquired : 9 Apr 2025 15:37 using AcqMethod BCCL GENDRUG METHOD.M
Instrument : SD GCMS 1
Sample Name: CBN std (R-24-036) 000002983
Misc Info : RT Determination
Vial Number: 85

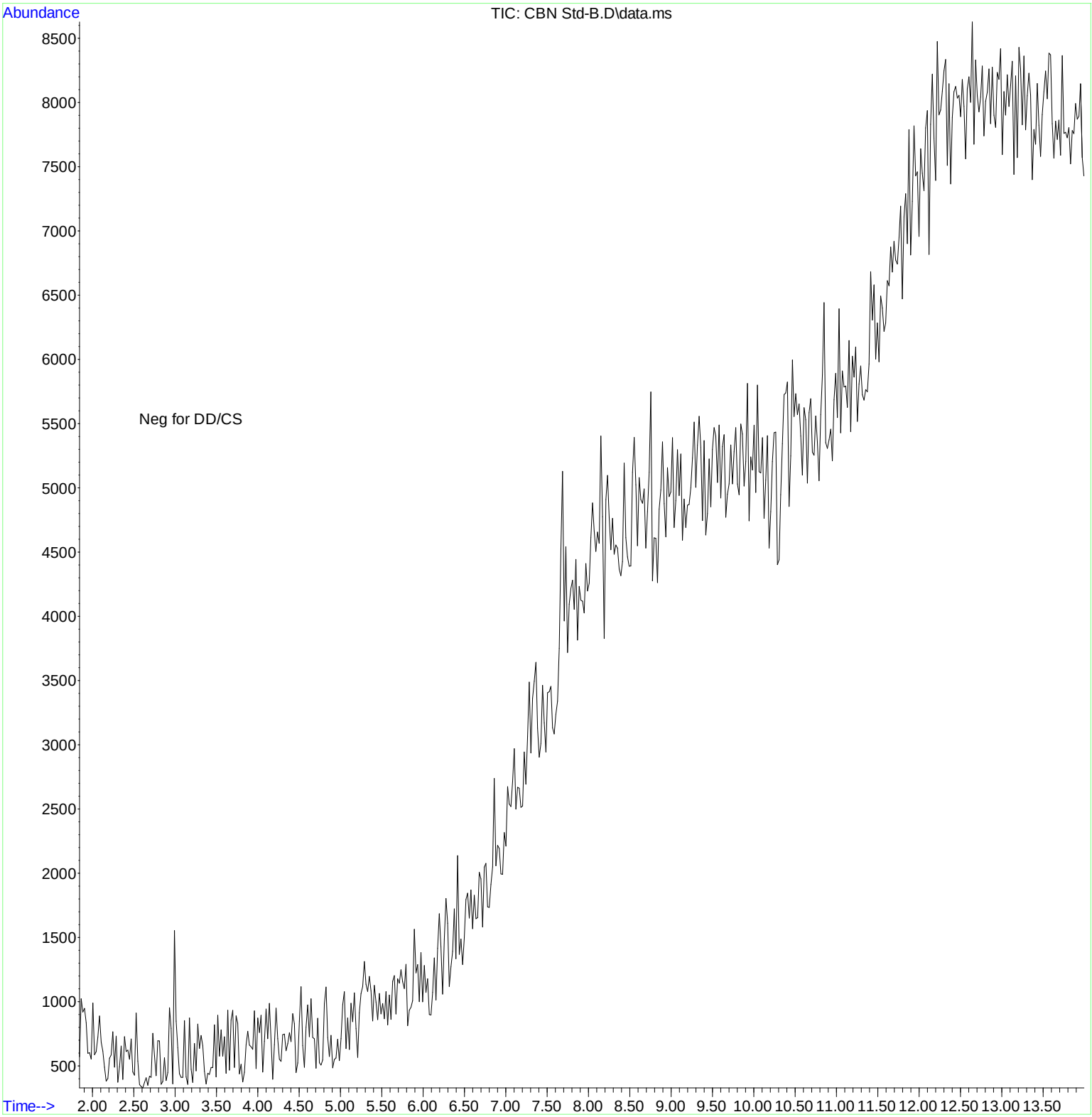


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Operator : BCCL SD GCMS 1
Acquired : 9 Apr 2025 15:37 using AcqMethod BCCL GENDRUG METHOD.M
Instrument : SD GCMS 1
Sample Name: CBN std (R-24-036) 000002983
Misc Info : RT Determination
Vial Number: 85

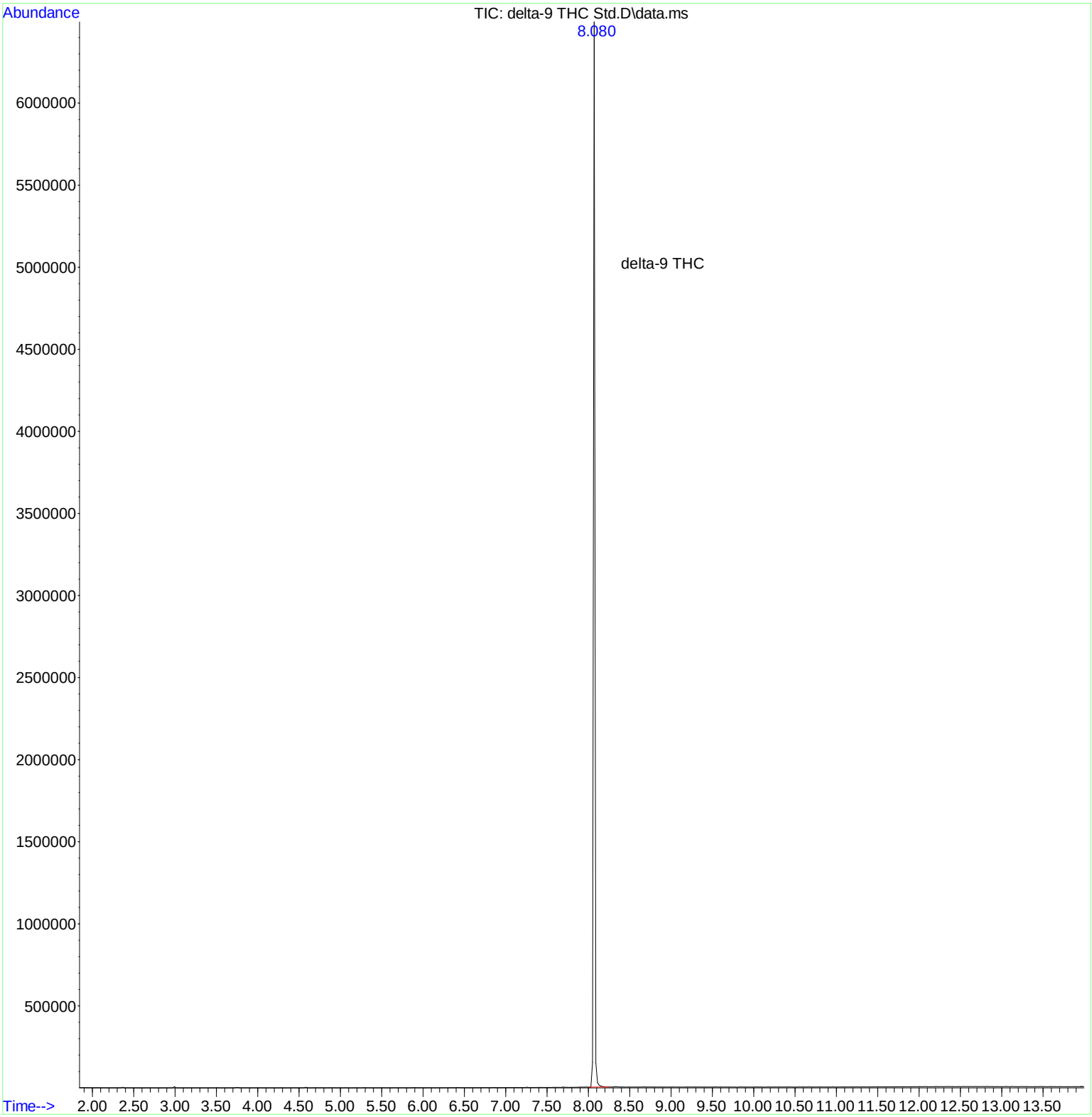




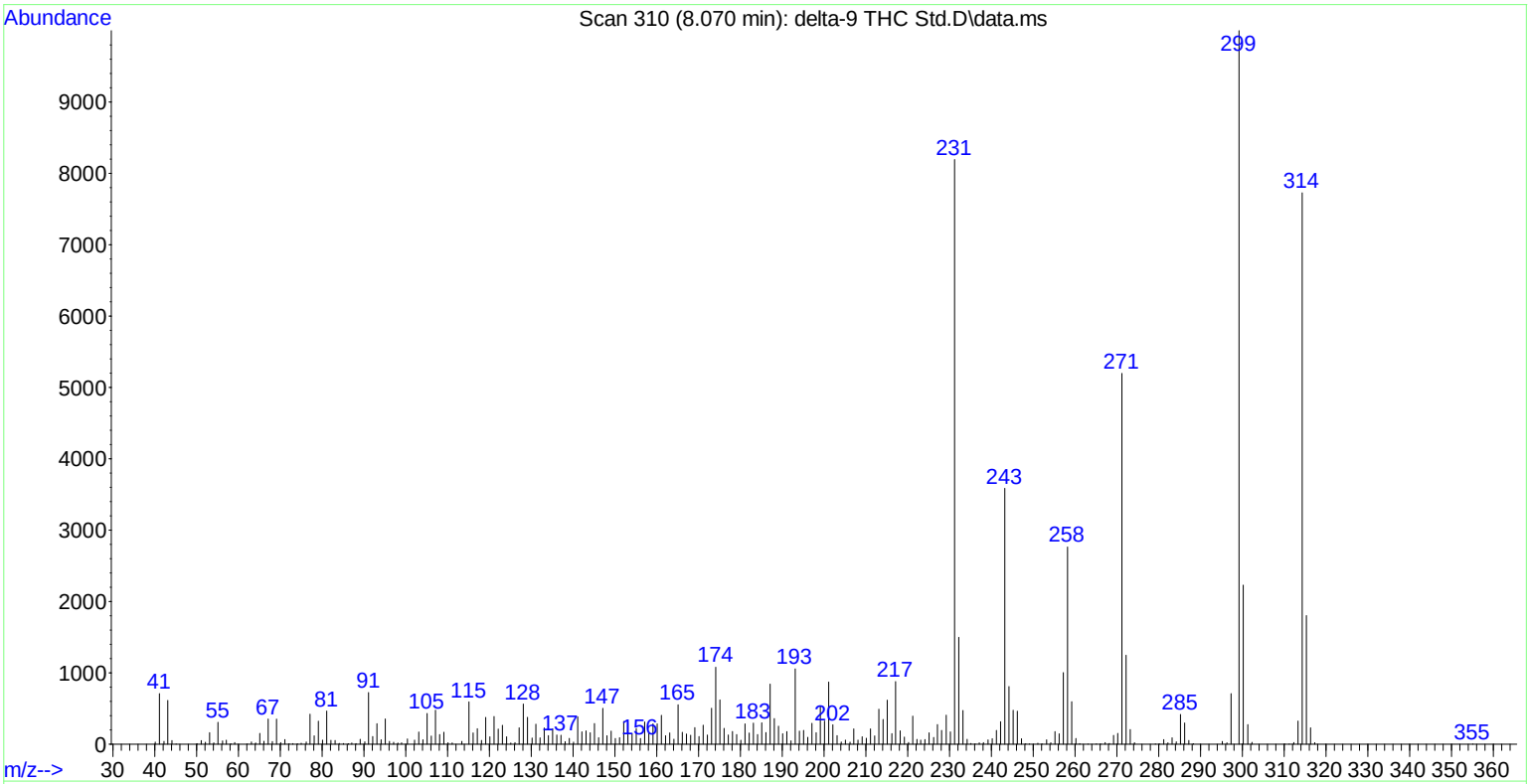
File :D:\GCMS1Data\2025.seq\040925\CBN Std-B.D
Operator : BCCL SD GCMS 1
Acquired : 9 Apr 2025 15:19 using AcqMethod BCCL GENDRUG METHOD.M
Instrument : SD GCMS 1
Sample Name: blank prior to CBN (R-24-036) 000002795
Misc Info : MeOH (C-20-0050B)
Vial Number: 81

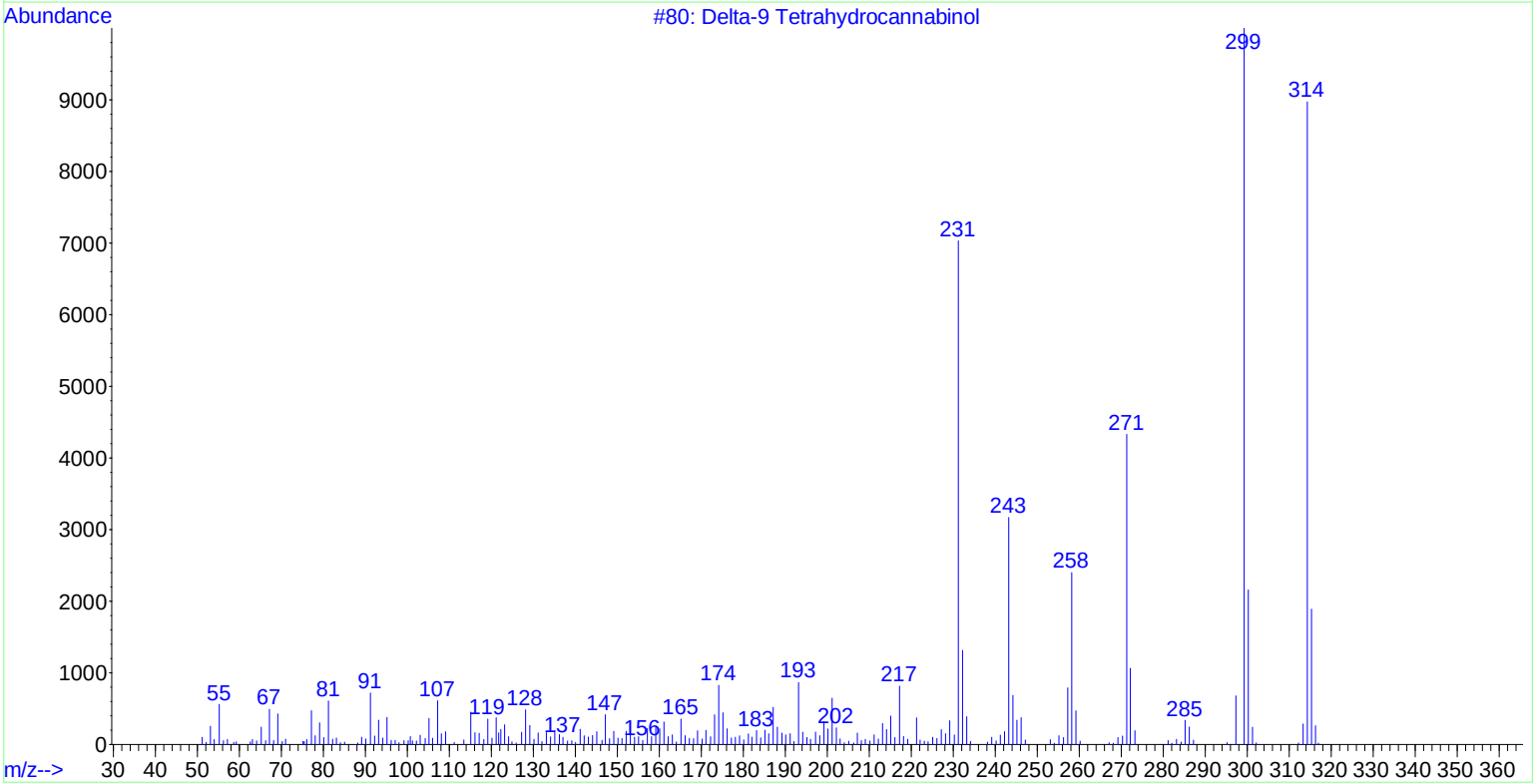


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Operator : BCCL SD GCMS 1
Acquired : 9 Apr 2025 15:02 using AcqMethod BCCL GENDRUG METHOD.M
Instrument : SD GCMS 1
Sample Name: delta-9 THC std (R-24-025) 000002993
Misc Info : RT Determination
Vial Number: 84

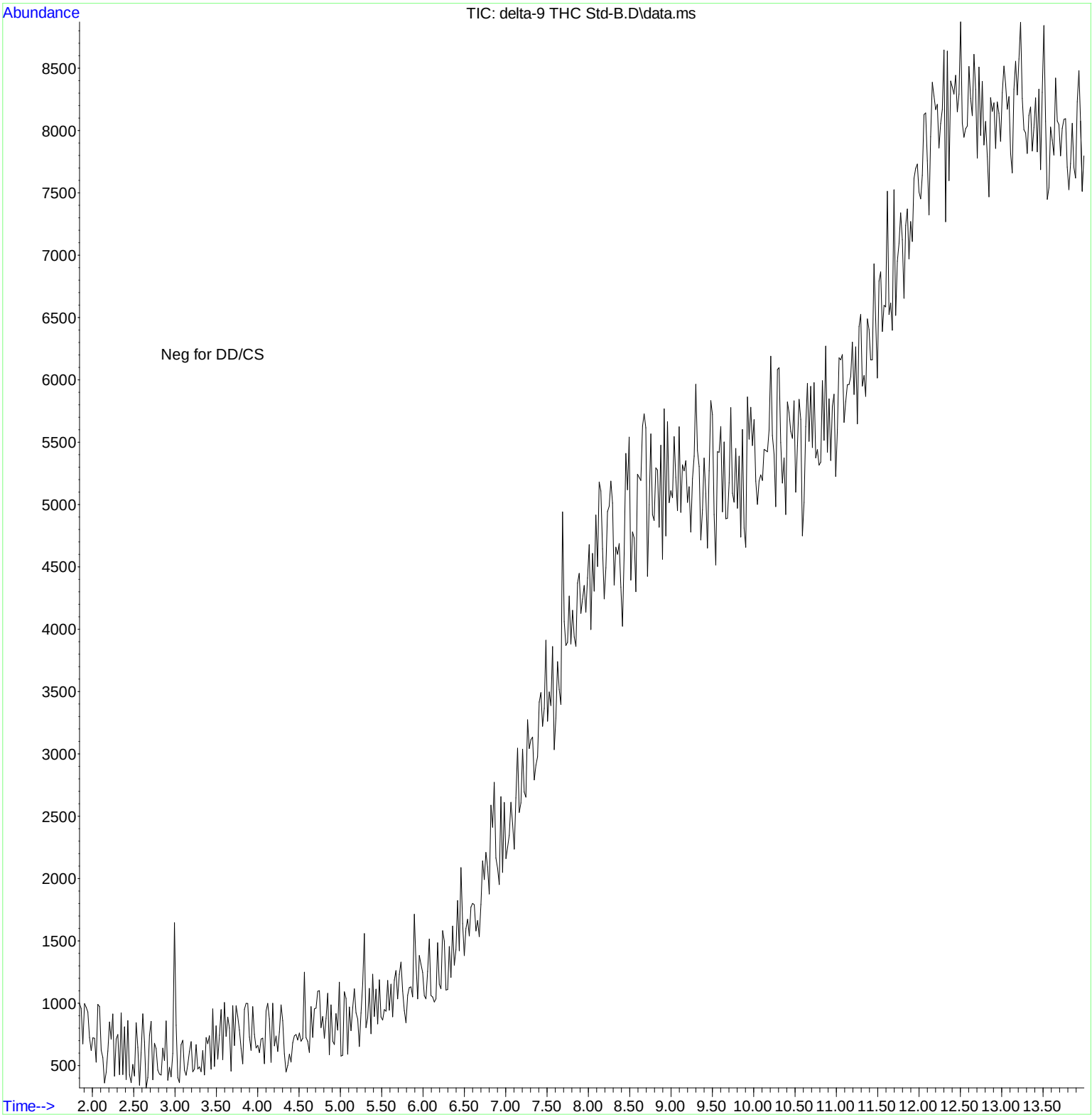


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Operator : BCCL SD GCMS 1
Acquired : 9 Apr 2025 15:02 using AcqMethod BCCL GENDRUG METHOD.M
Instrument : SD GCMS 1
Sample Name: delta-9 THC std (R-24-025) 000002993
Misc Info : RT Determination
Vial Number: 84

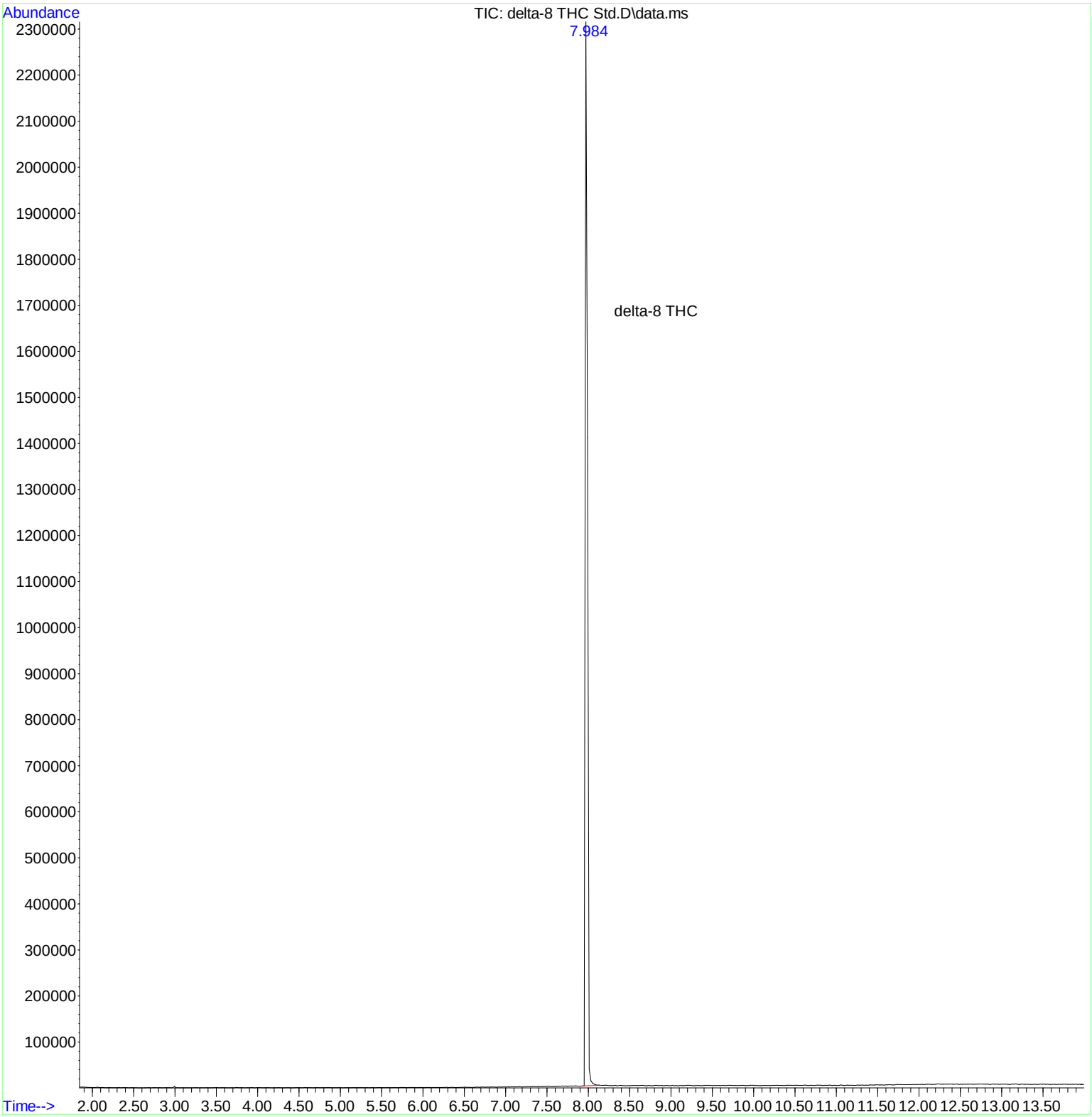




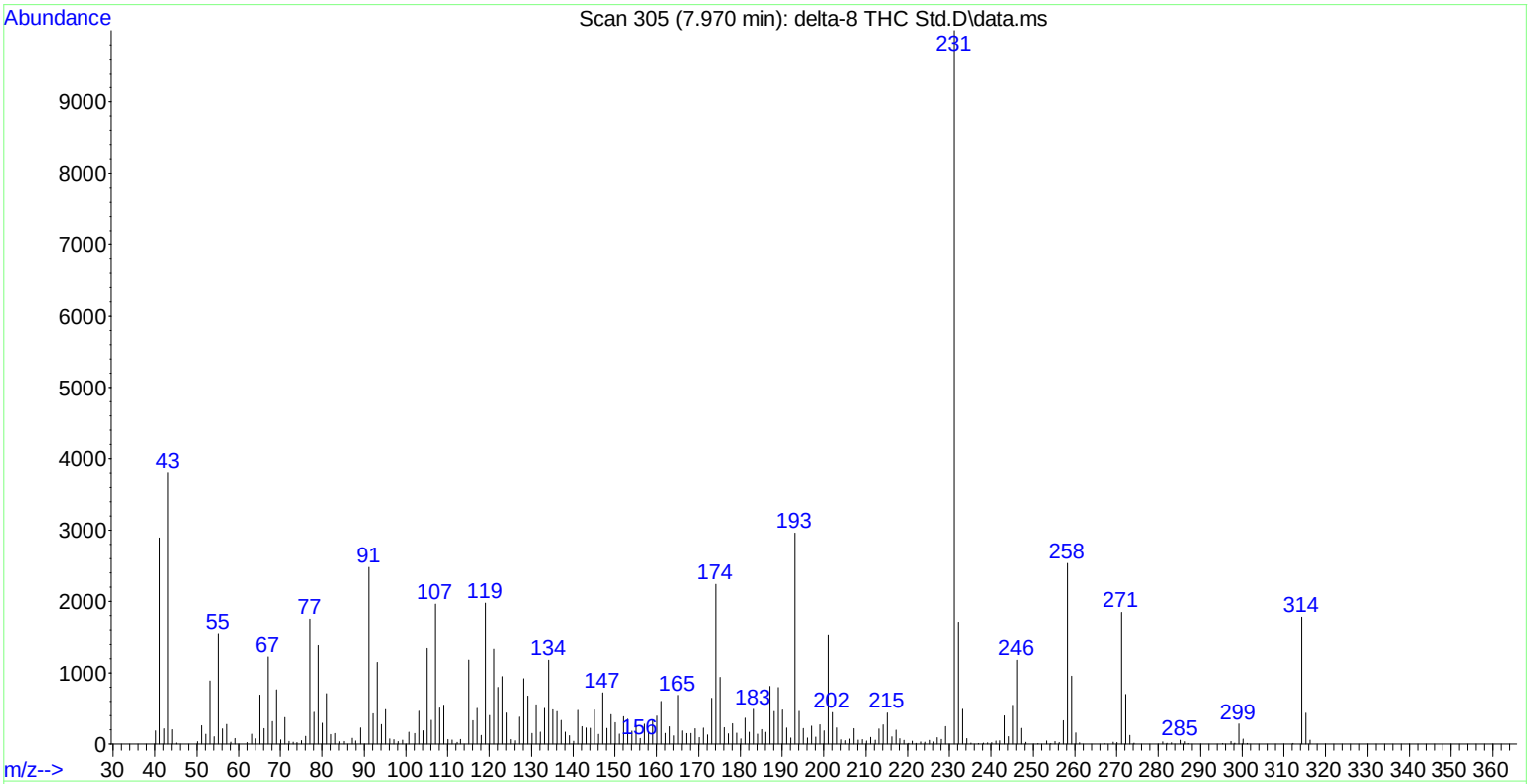
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Acquired : 9 Apr 2025 14:44 using AcqMethod BCCL GENDRUG METHOD.M
Instrument : SD GCMS 1
Sample Name: blank prior to delta-9 THC (R-24-025) 000002795
Misc Info : MeOH (C-20-0050B)
Vial Number: 81

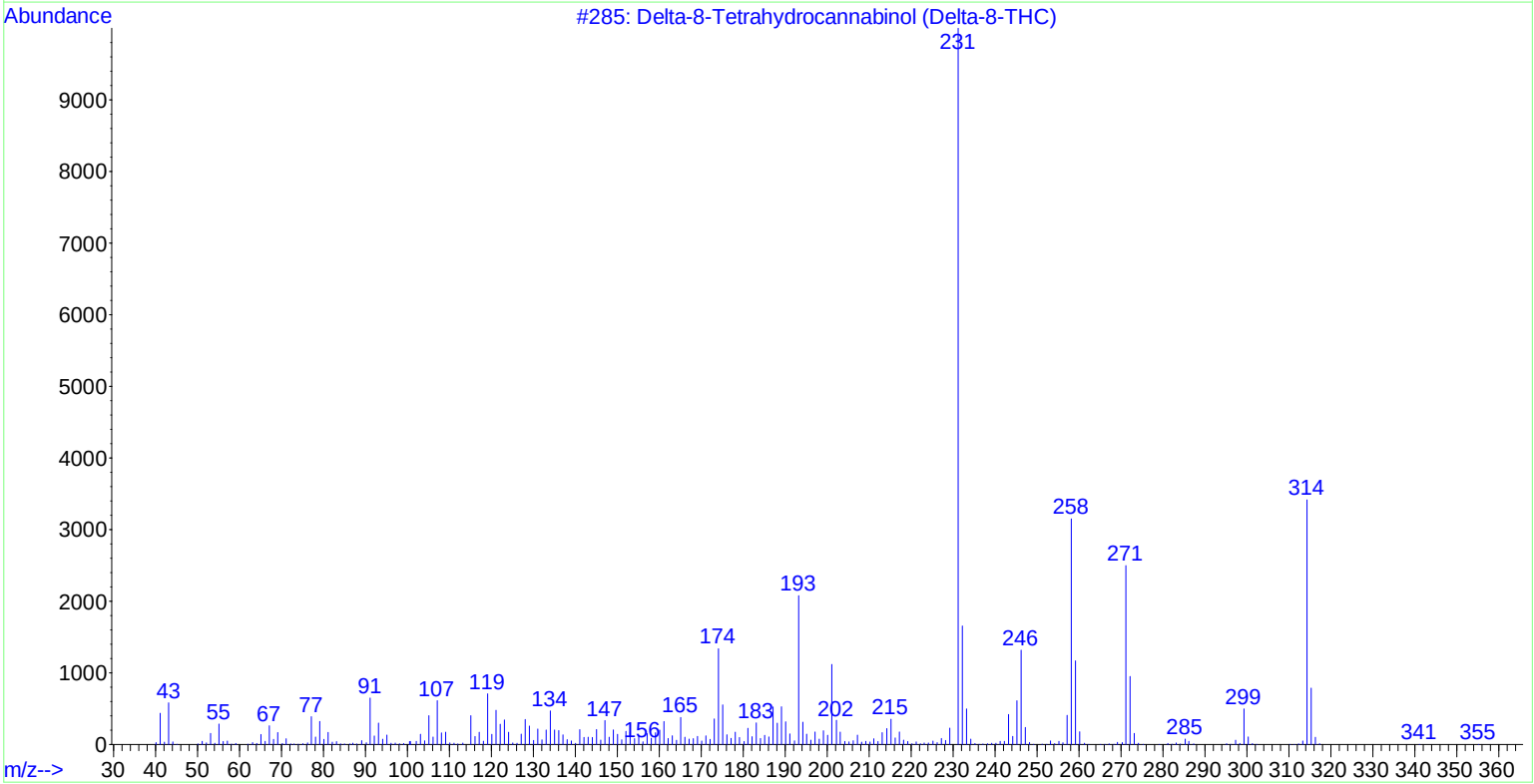


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Operator : BCCL SD GCMS 1
Acquired : 9 Apr 2025 14:27 using AcqMethod BCCL GENDRUG METHOD.M
Instrument : SD GCMS 1
Sample Name: delta-8 THC std (R-24-040) 000002977
Misc Info : RT Determination
Vial Number: 83

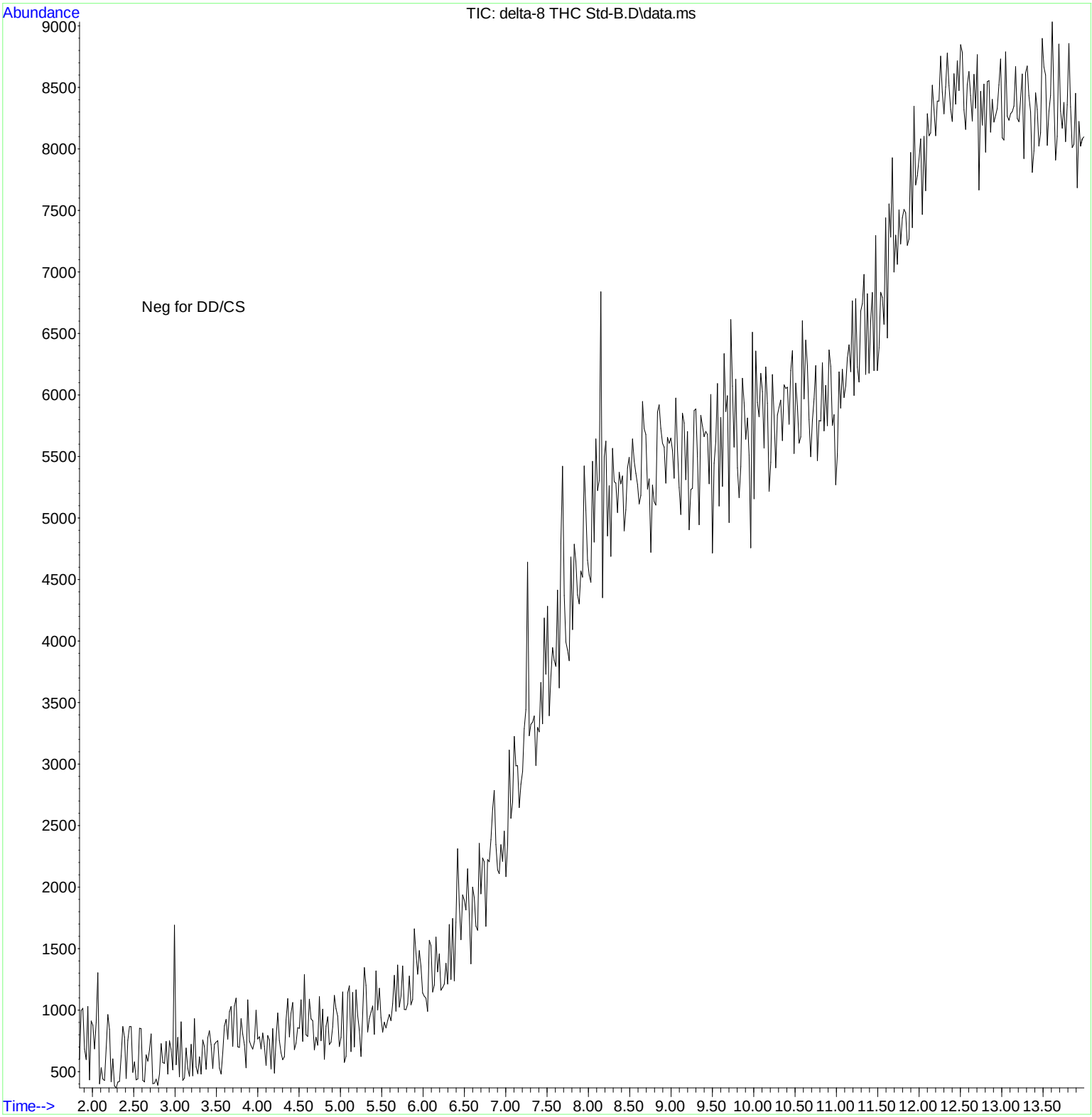


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Operator : BCCL SD GCMS 1
Acquired : 9 Apr 2025 14:27 using AcqMethod BCCL GENDRUG METHOD.M
Instrument : SD GCMS 1
Sample Name: delta-8 THC std (R-24-040) 000002977
Misc Info : RT Determination
Vial Number: 83





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Operator : BCCL SD GCMS 1
Acquired : 9 Apr 2025 14:09 using AcqMethod BCCL GENDRUG METHOD.M
Instrument : SD GCMS 1
Sample Name: blank prior to delta-8 THC (R-24-040) 000002795
Misc Info : MeOH (C-20-0050B)
Vial Number: 81



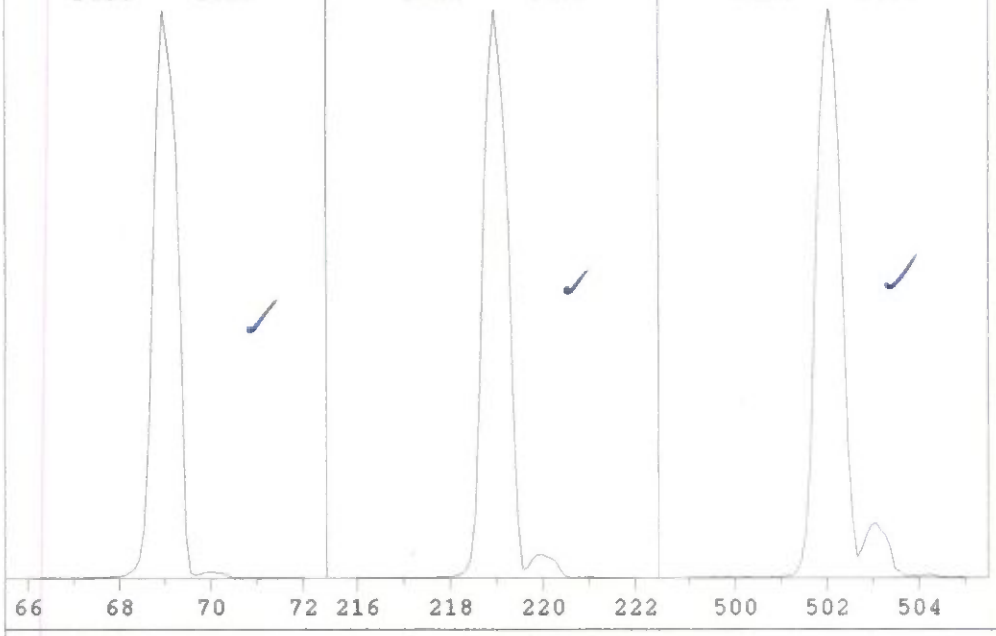
5973 Autotune

Mon Apr 14 11:24:44 2025
C:\MSDCHEM\1\5973\atune.u

Instrument: SD GCMS 1

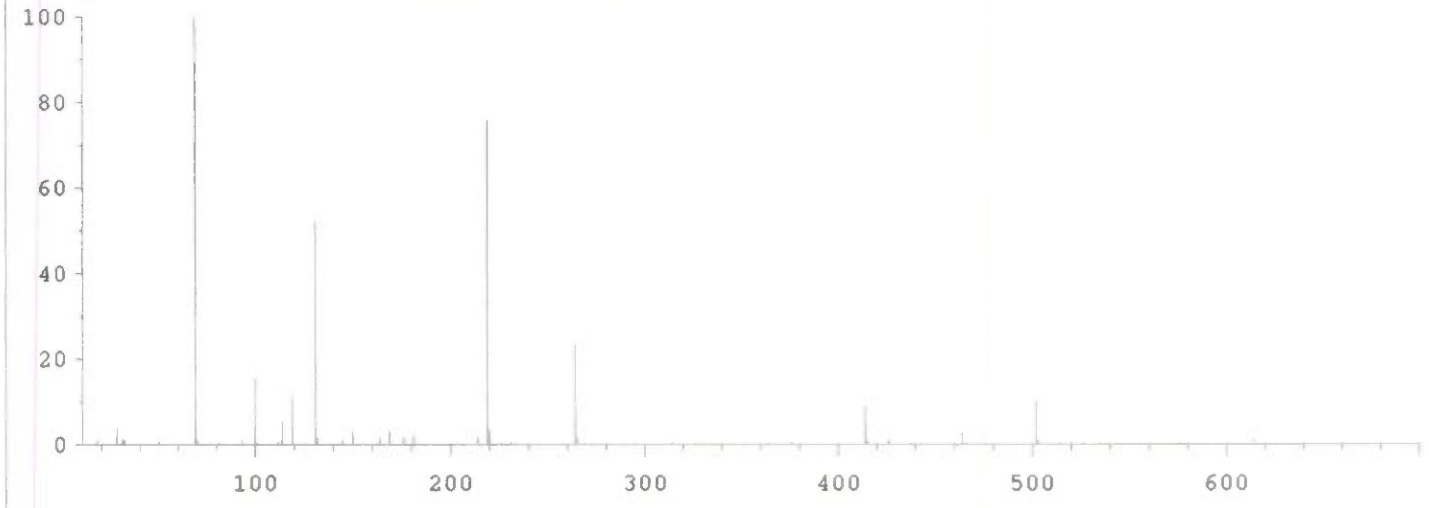
DS
OK

Mass	68.95		
Ab	404092		
Pw50	0.60		
Mass	218.95		
Ab	315143		
Pw50	0.60		
Mass	502.05		
Ab	41613		
Pw50	0.60		



Ion Pol	POS	MassGain	368
		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	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
125 peaks Base: 69.05 Abundance: 361344



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.05	361344	100.00	70.05	3804	1.05
218.95	273792	75.77	219.95	12277	4.48
502.05	37208	10.30	503.05	3830	10.29

Air/Water Check: H20~1.06% N2~3.90% O2~1.11% CO2~0.07% N2/H2O~367.75%

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

Ramp Criteria:
Ion Focus Maximum 90 volts using ion 502; EM Gain 111692
Repeller Maximum 35 volts using ion 219;

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

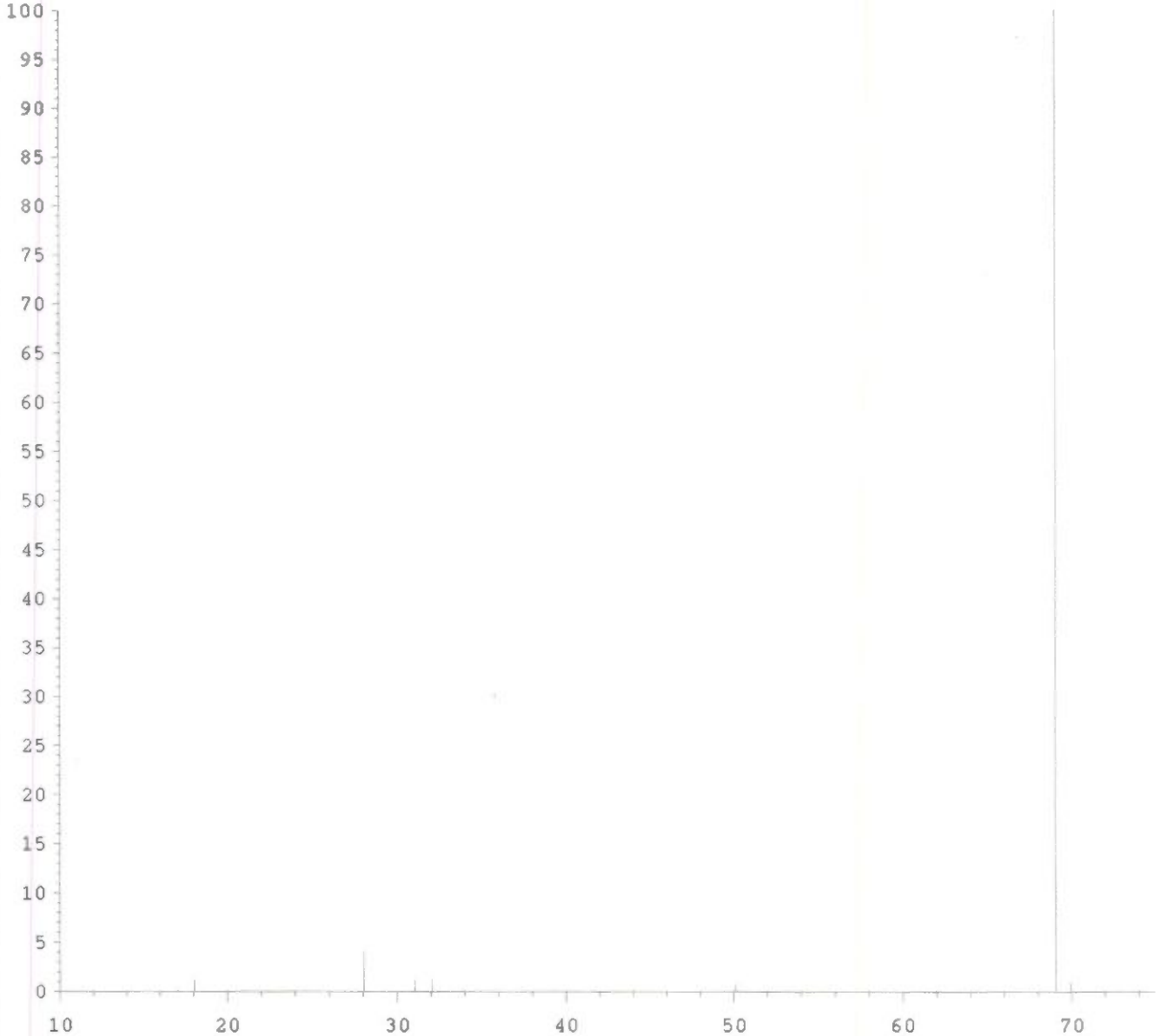
TARGET MASS:	50	69	131	219	414	502	800
Amu Offset:	123.0	123.0	123.0	123.0	123.0	123.0	123.0
Entrance Lens Offset:	19.1	19.1	19.1	19.1	19.1	19.1	19.1

DJ
OK

597x Air and Water Check

Instrument: SD GCMS 1
Mon Apr 14 11:15:56 2025 C:\MSDCHEM\1\5973\

Scan: 10.00 - 75.00 Samples: 8 Thresh: 0 Step: 0.10
70 peaks Base: 69.05 Abundance: 400576



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.05	400576	100.00	69.95	4129	1.03
18.05	4894	1.22	18.85	70	1.43
28.05	16360	4.08	29.05	147	0.90

Current Params used: atune.u

Relative abundances: ✓

18/69 =	1.22 ✓	Water%
28/69 =	4.08 ✓	Nitrogen%
32/69 =	1.30 ✓	Oxygen%
44/69 =	0.11	Carbon Dioxide%
28/18 =	334.29	Nitrogen/Water%

System Verification - Tune (Detector Optimization) Portion

JS

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	70.04	Ok
Position of isotope mass 220	219.96	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%)	4.33	Ok
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.31	Ok
Ratio of 219 to 69 should be > 40% and is	76.59	Ok
Ratio of 502 to 69 should be > 2.4% and is	10.50	Ok
Mass 69 Precursor (<= 3%)	0.22	Ok
Mass 219 Precursor (<= 6%)	0.40	Ok
Mass 502 Precursor (<= 12%)	0.53	Ok
Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	1.04	Ok
Ratio of 28 to 69 (<10%)	3.95	Ok
Electron Multiplier Voltage	1576	Ok

Tune portion of System Verification passed.

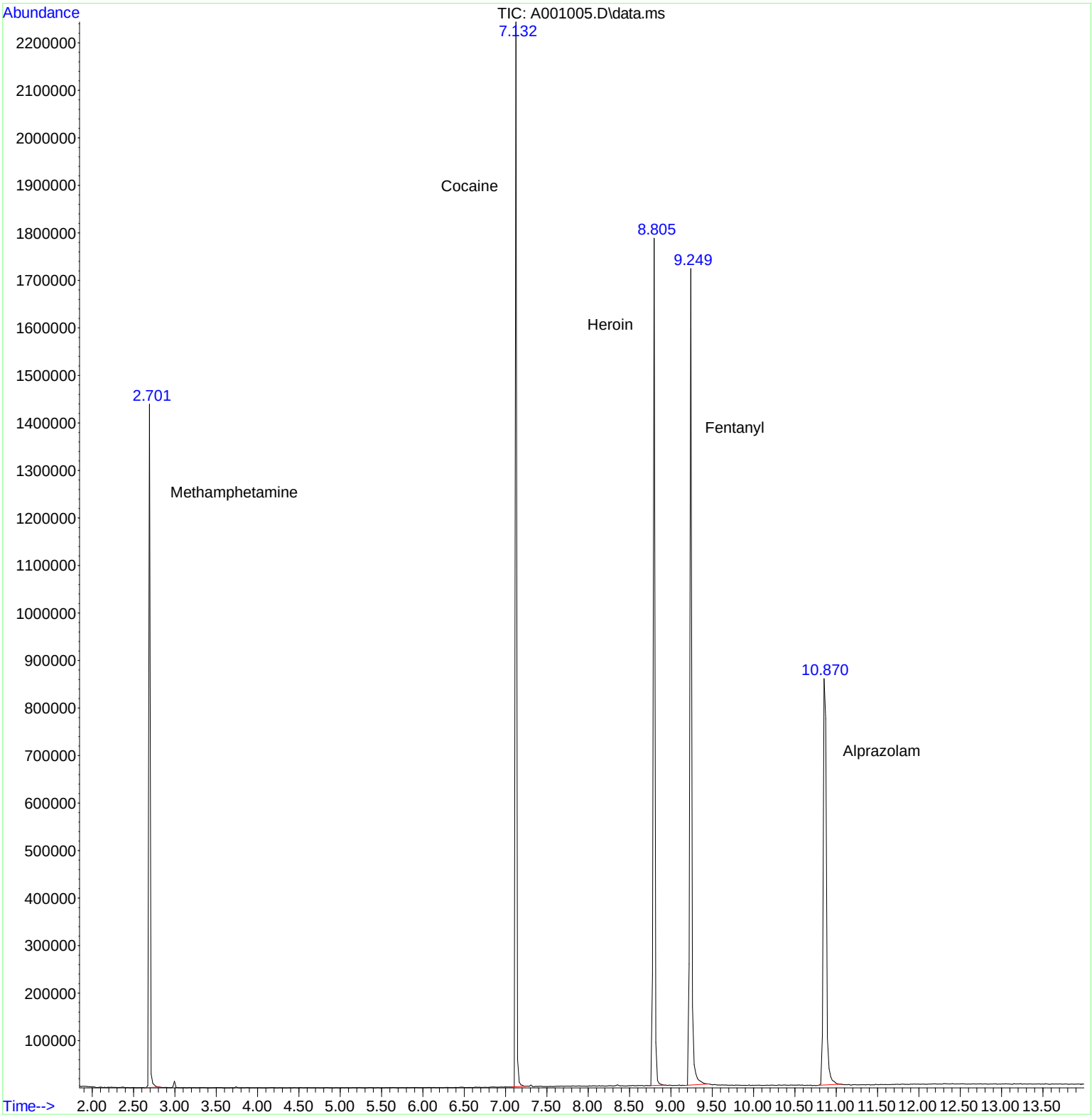
BCCL GC/MS #1
Retention Times for the Week of:

04/14/2025 - 04/20/2025

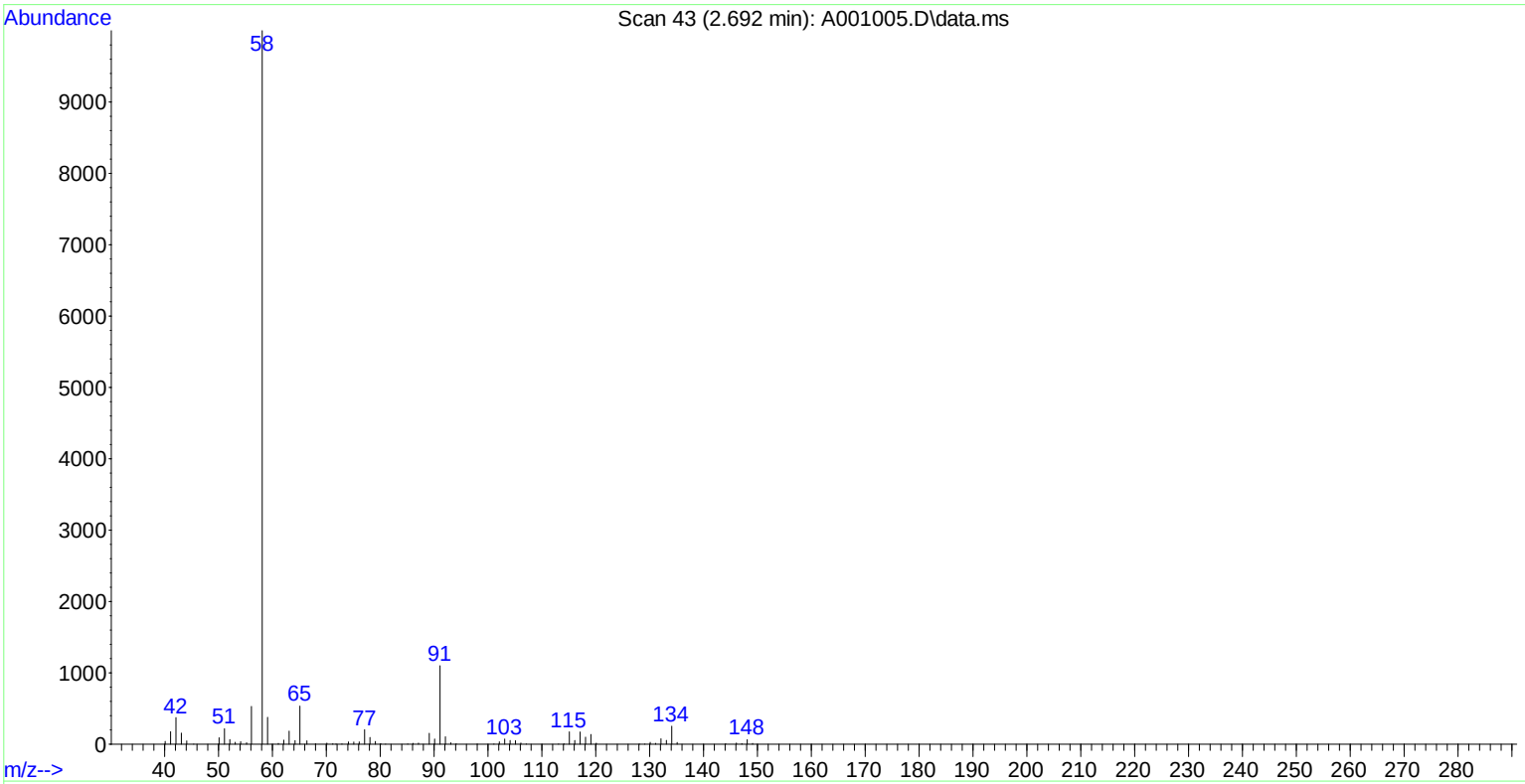
[x] **Tune: 04/14/2025 - Autotune DS**

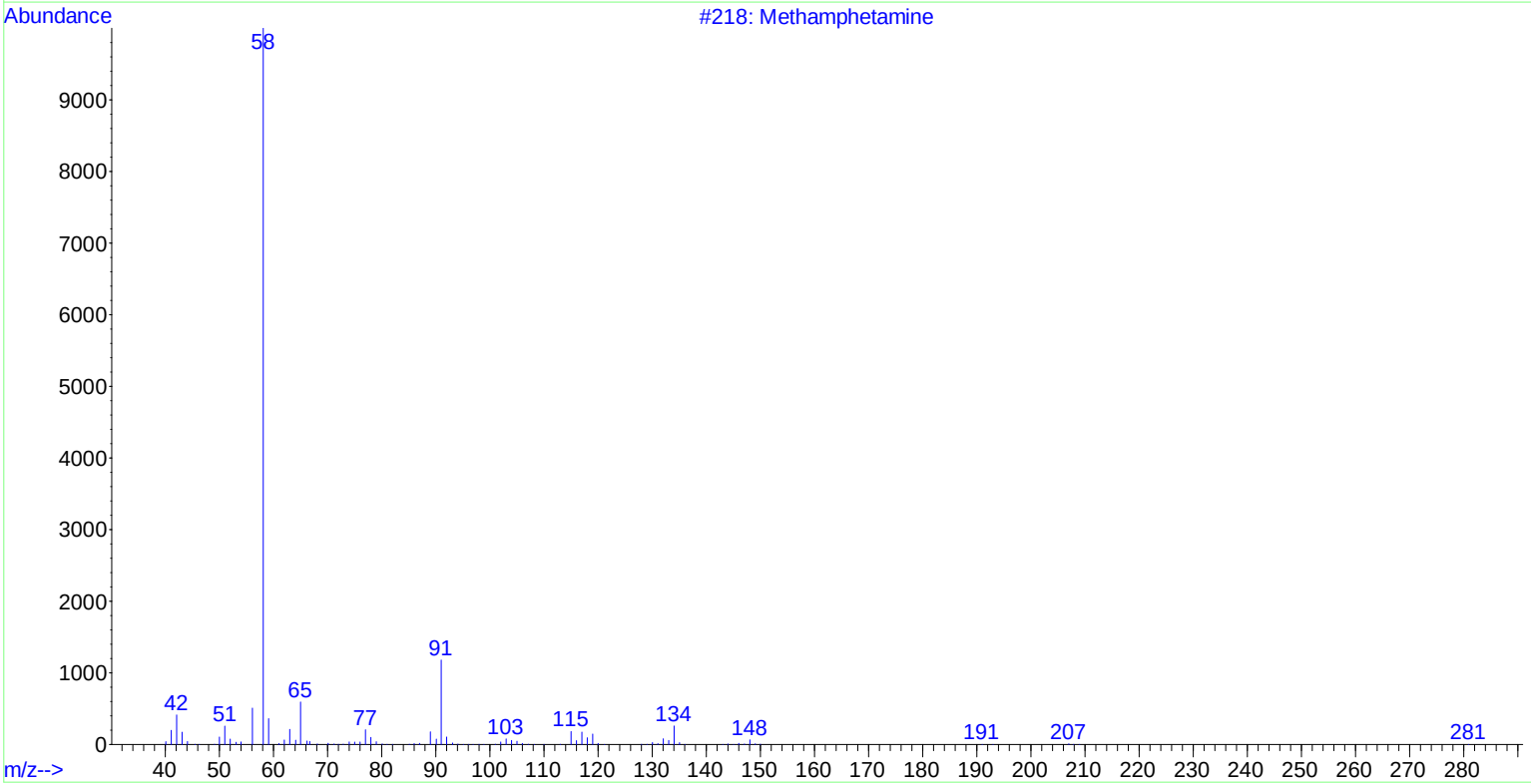
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	BCCL GenDrug	2.701	2.673	2.728
Cocaine	R-24-060	BCCL GenDrug	7.032	6.961	7.102
Heroin	R-24-060	BCCL GenDrug	8.805	8.716	8.893
Fentanyl	R-24-060	BCCL GenDrug	9.249	9.156	9.341
Alprazolam	R-24-060	BCCL GenDrug	10.870	10.761	10.978

File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\041425\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 14 Apr 2025 12:27 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN

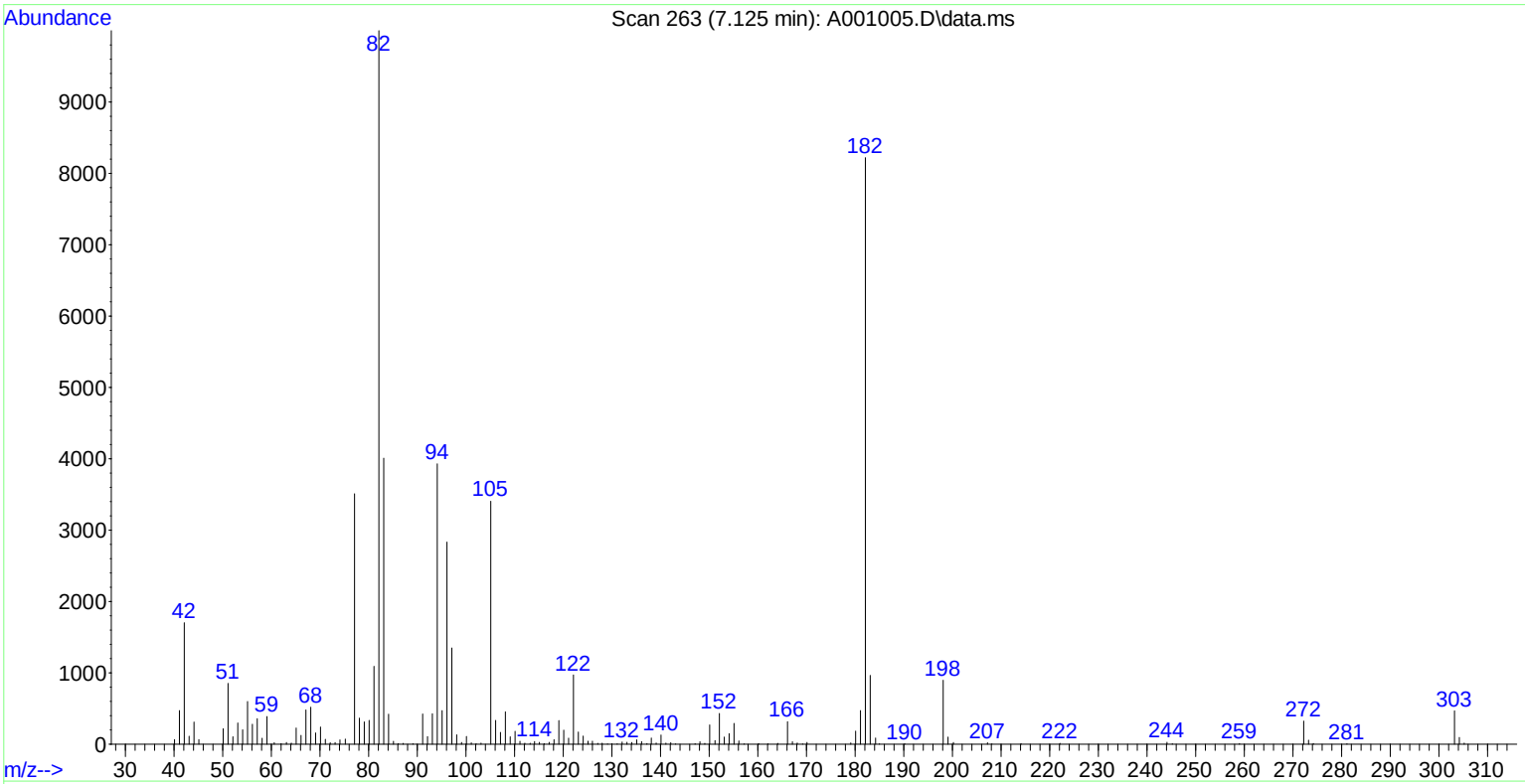


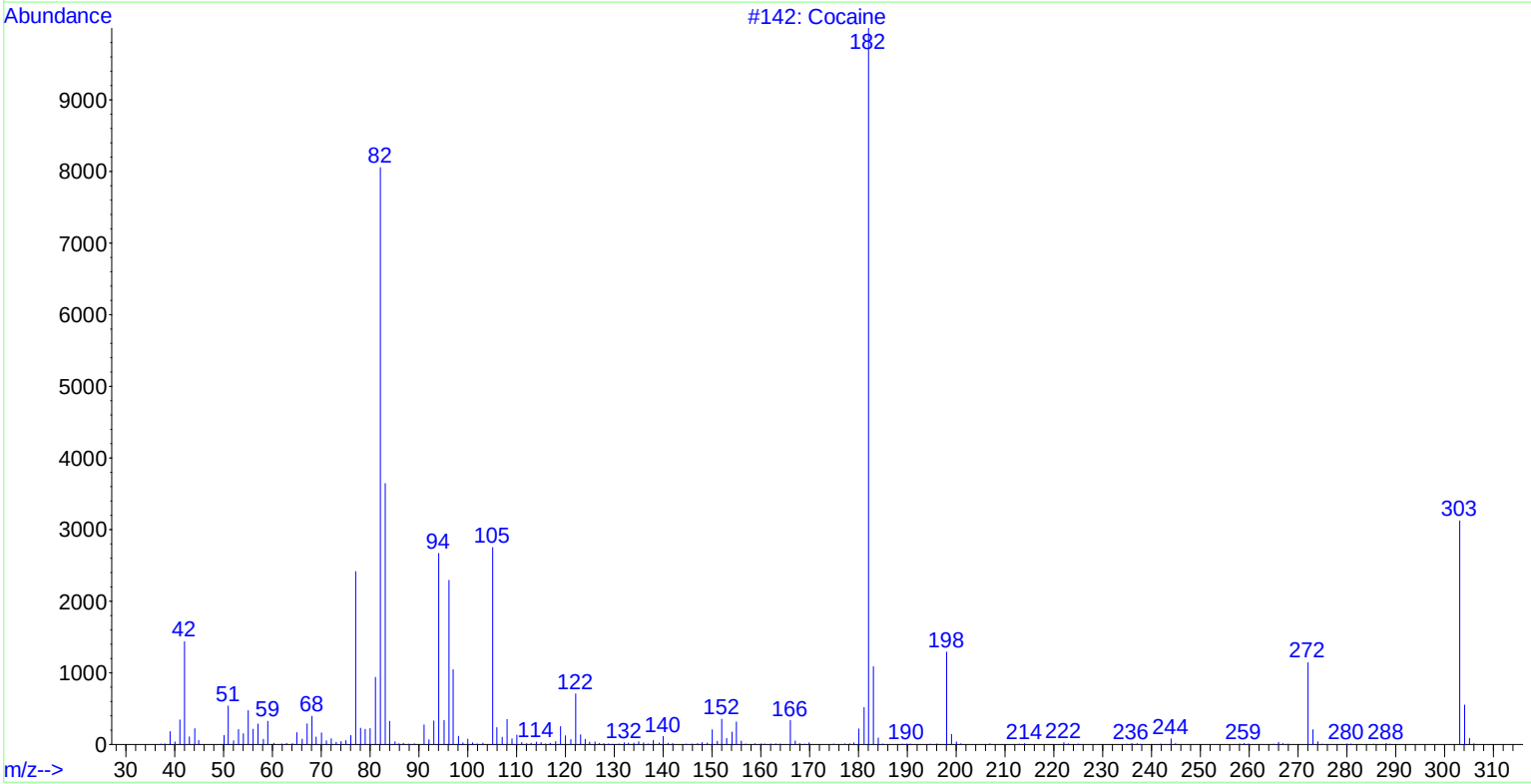
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 14 Apr 2025 12:27 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



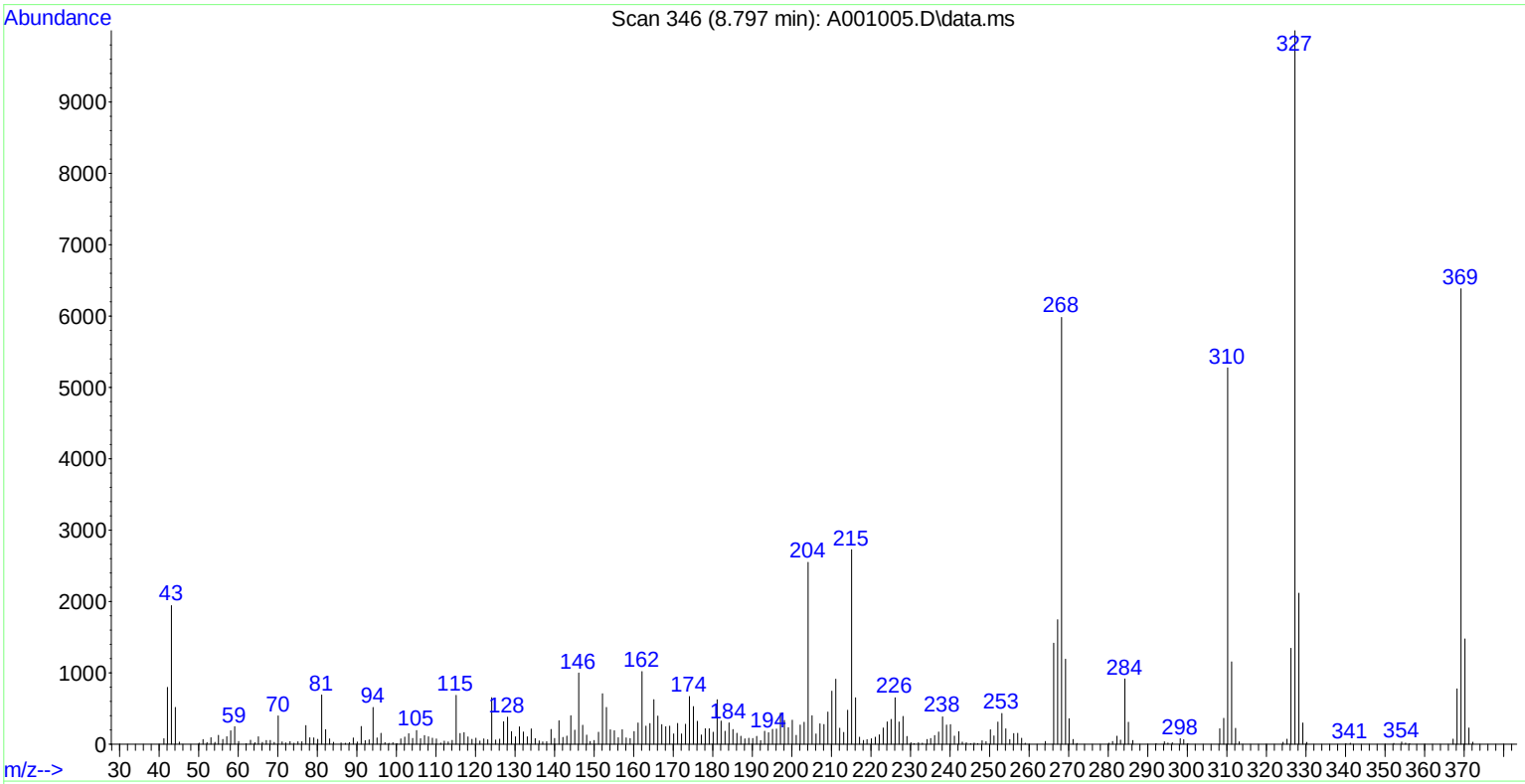


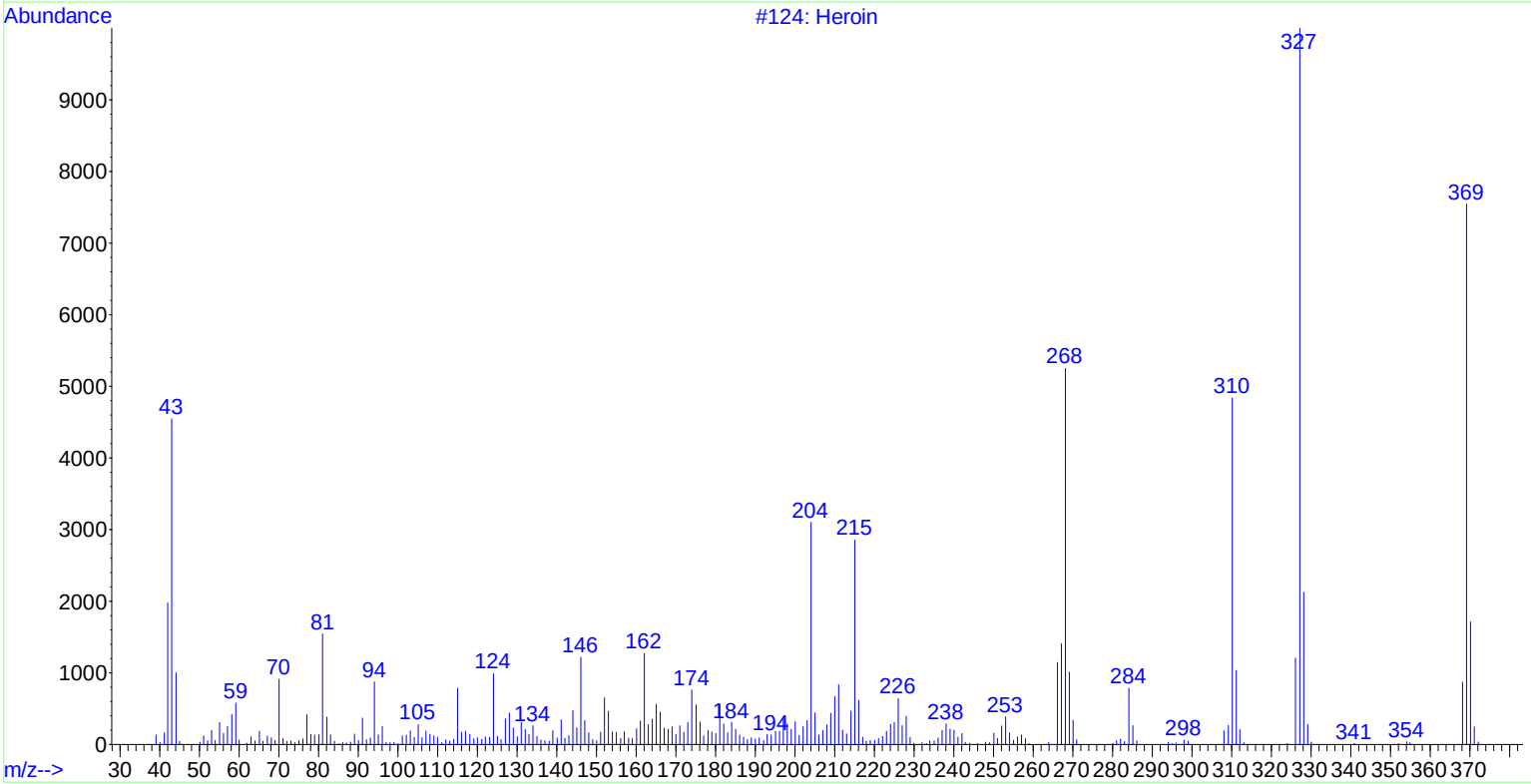
File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\041425\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 14 Apr 2025 12:27 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



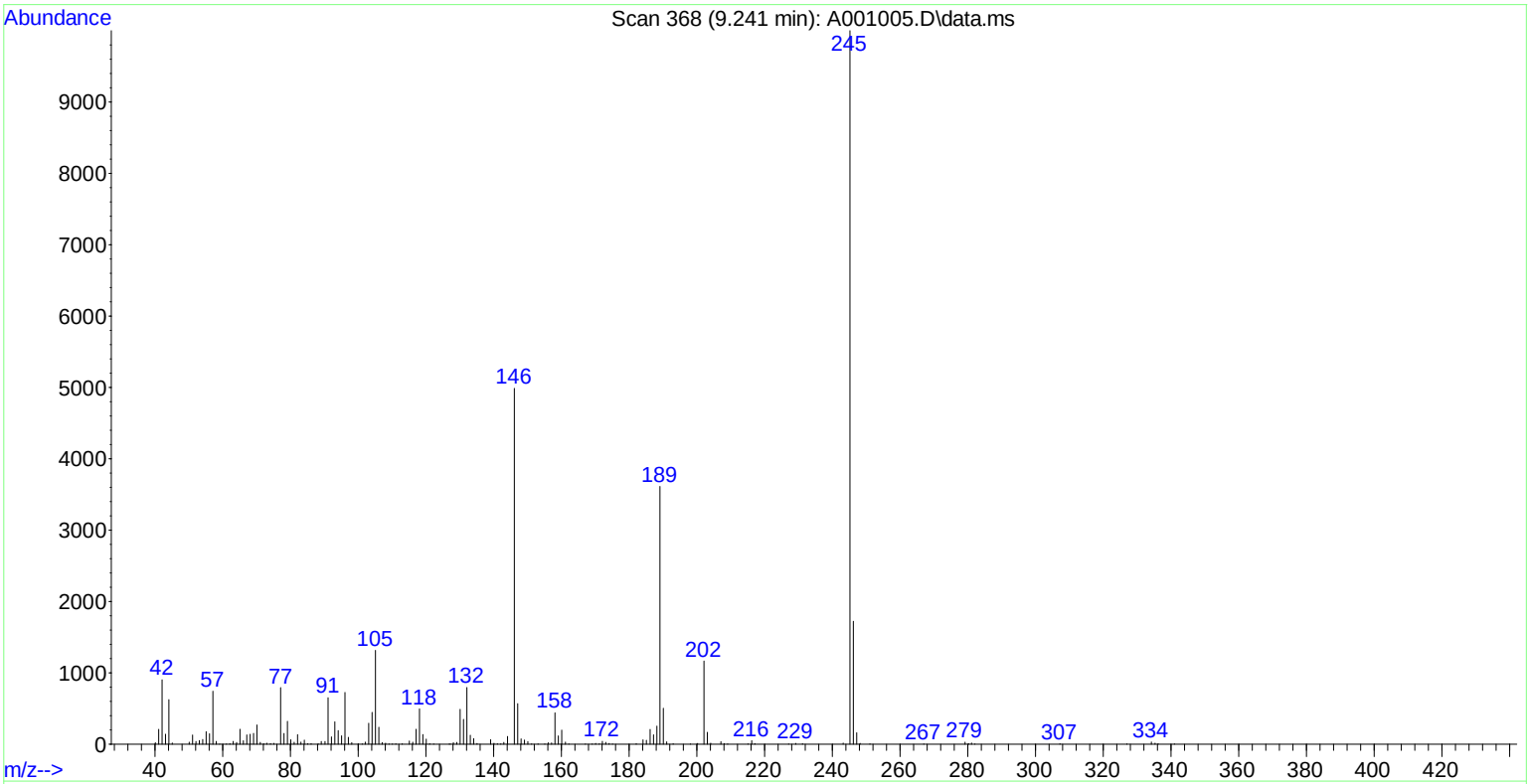


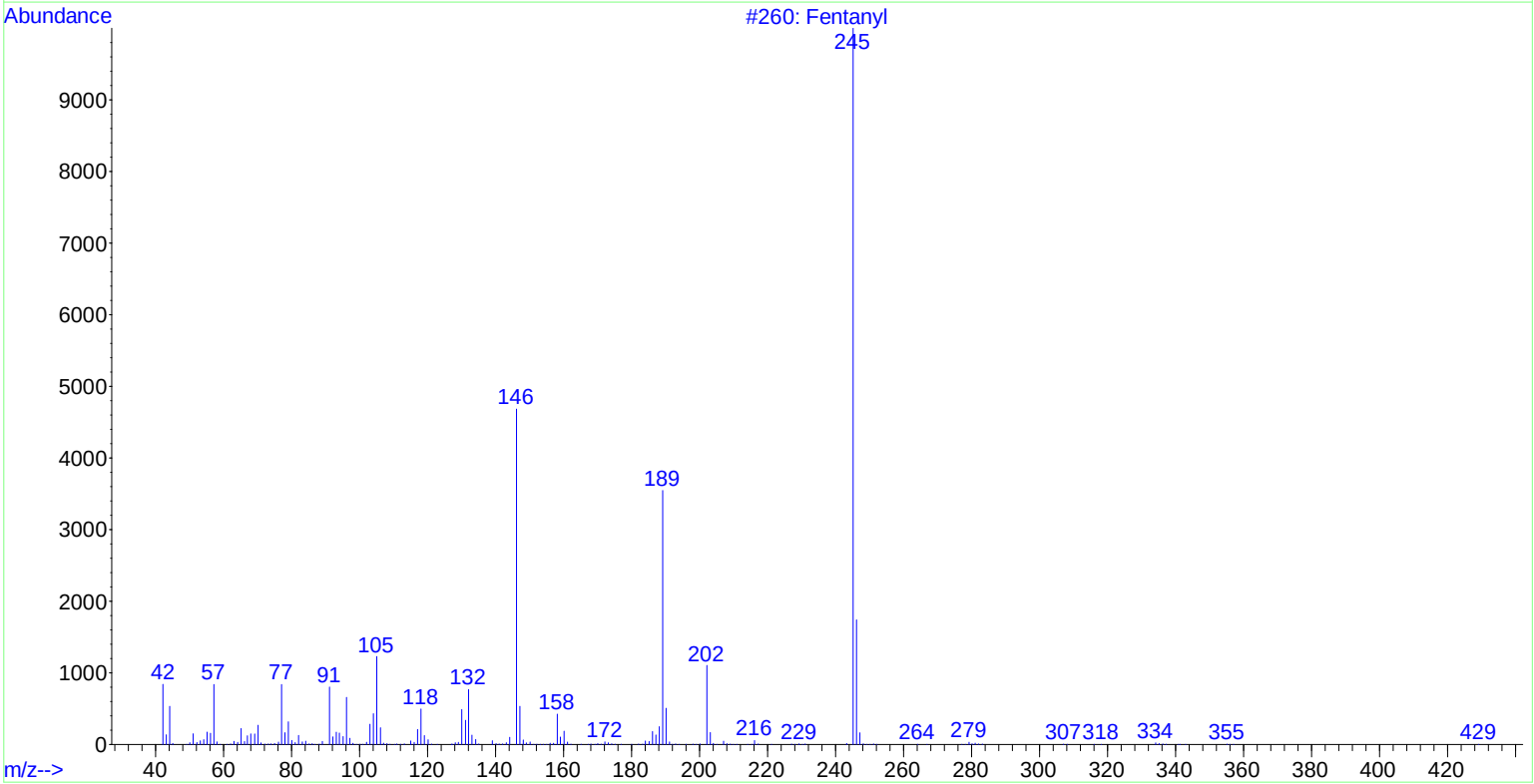
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... 2025\041425\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 14 Apr 2025 12:27 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



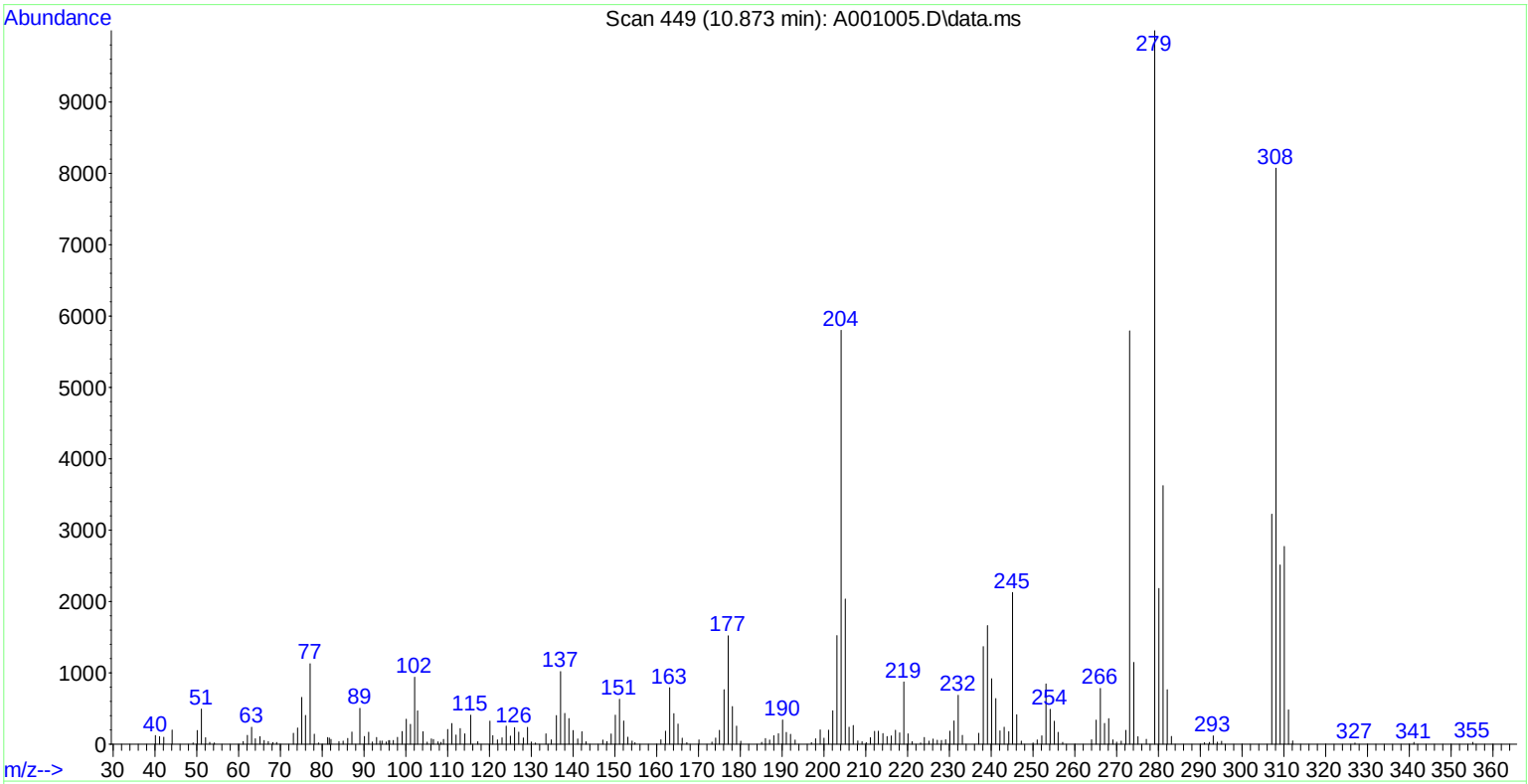


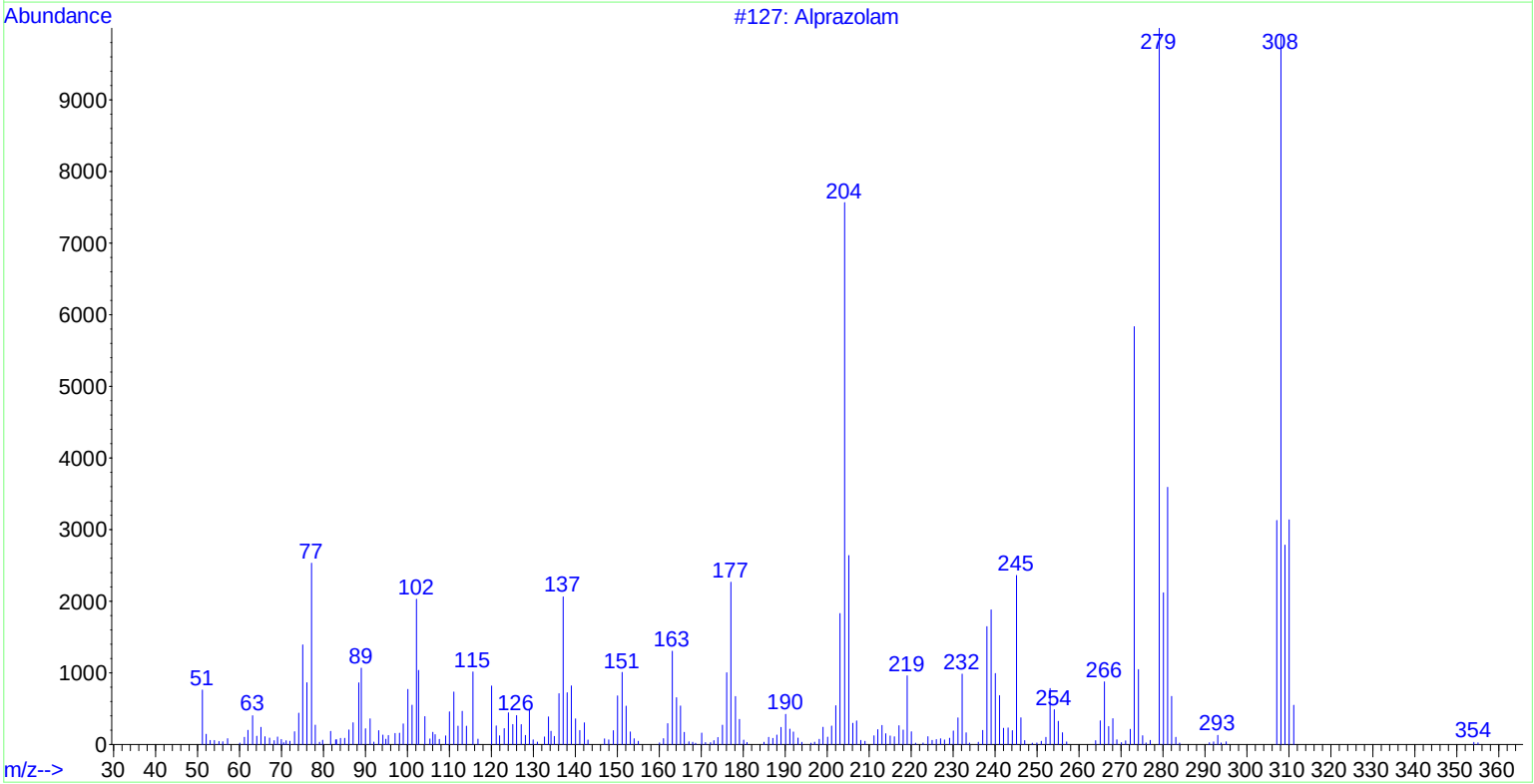
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 14 Apr 2025 12:27 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



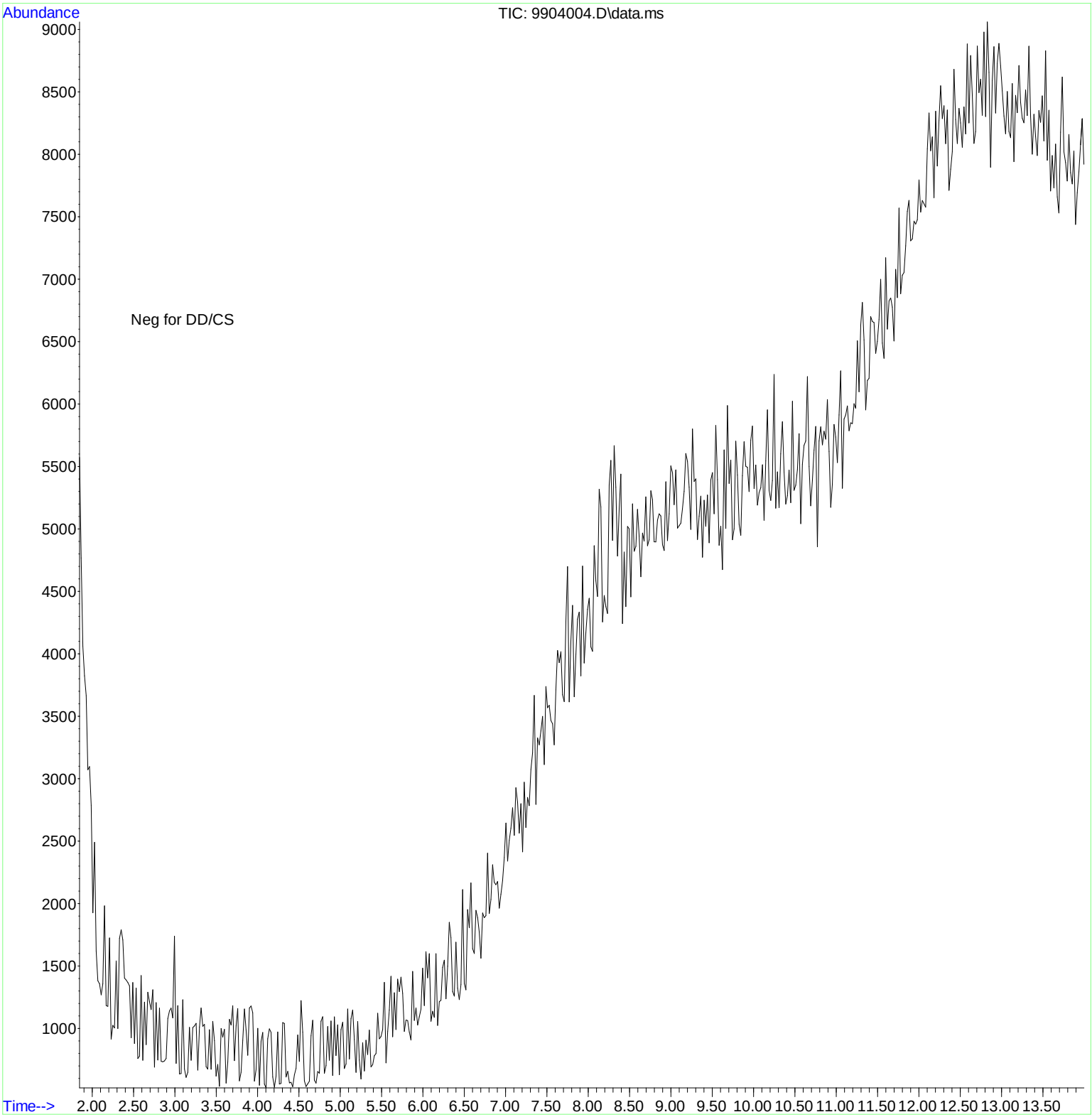


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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 14 Apr 2025 12:27 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN

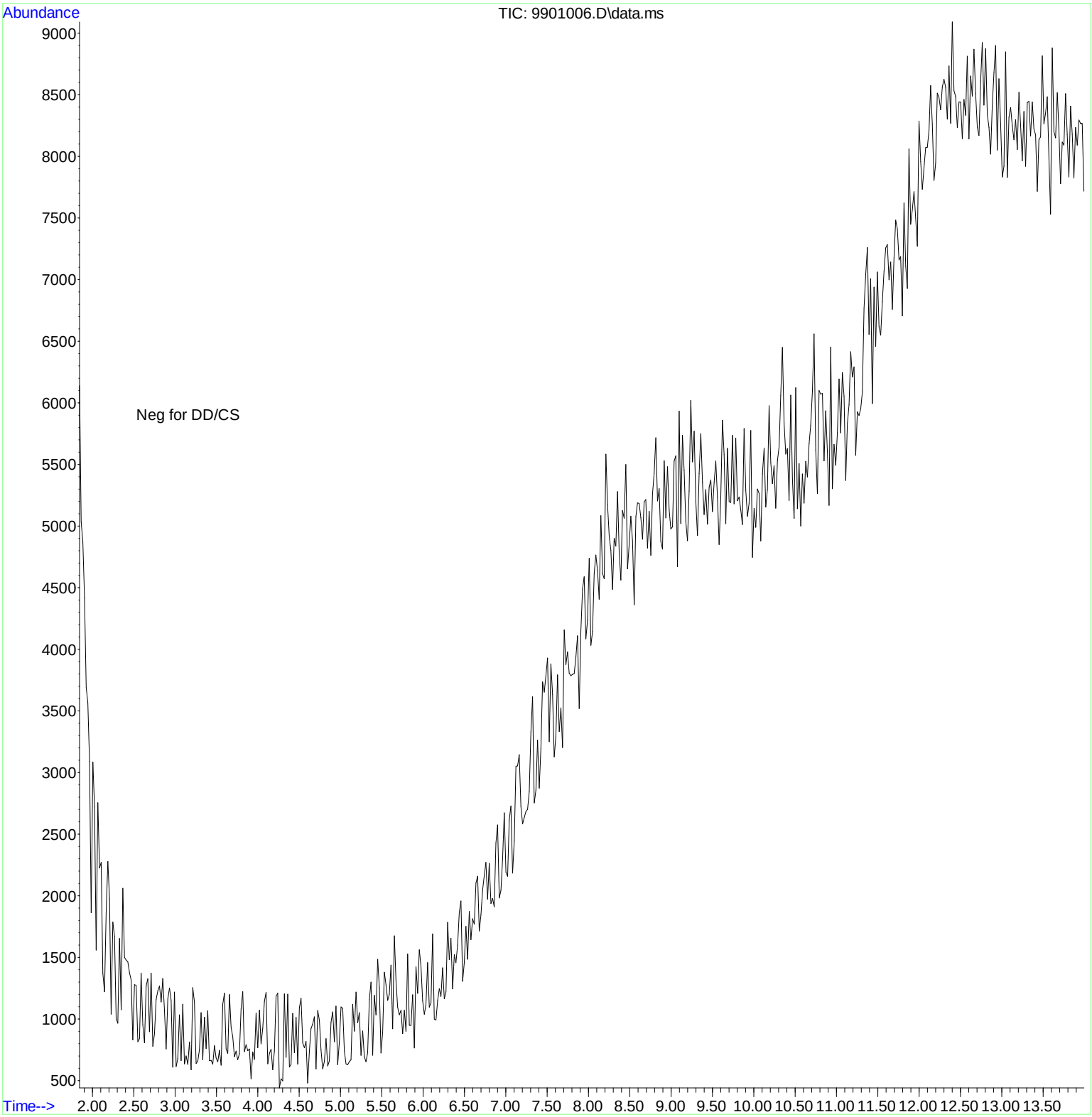




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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 14 Apr 2025 12:10 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK PRIOR TO CAYMAN GC/MS 000002664
Misc Info : ACN (C-19-0068)



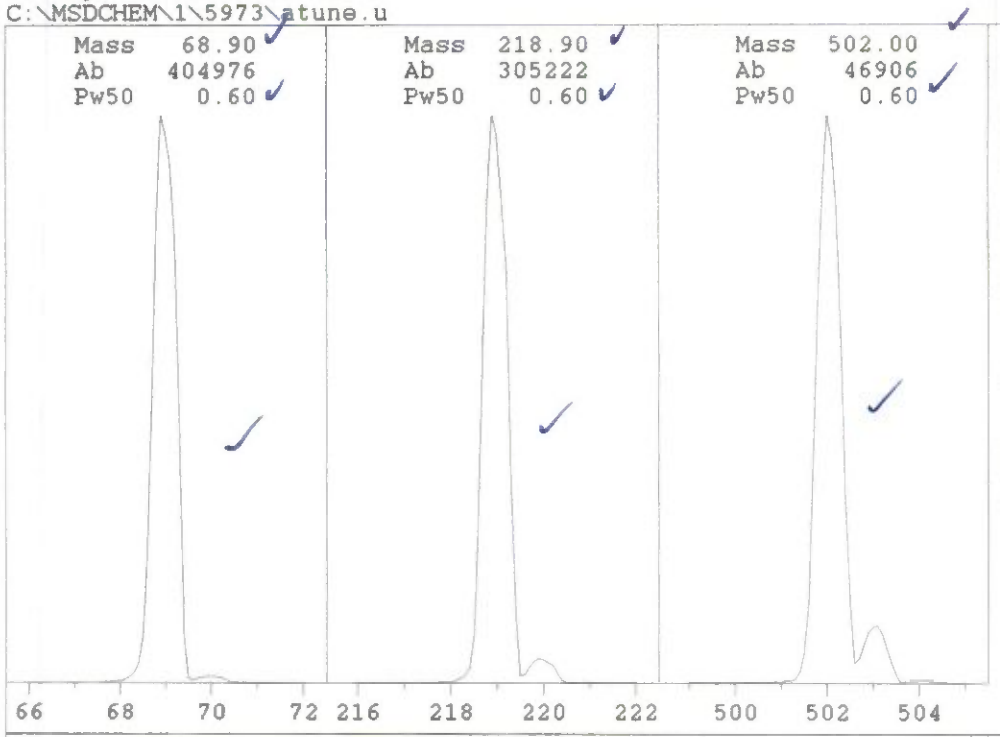
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 14 Apr 2025 12:45 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK - INSTRUMENT READY 000002664
Misc Info : ACN (C-19-0068)



5973 Autotune

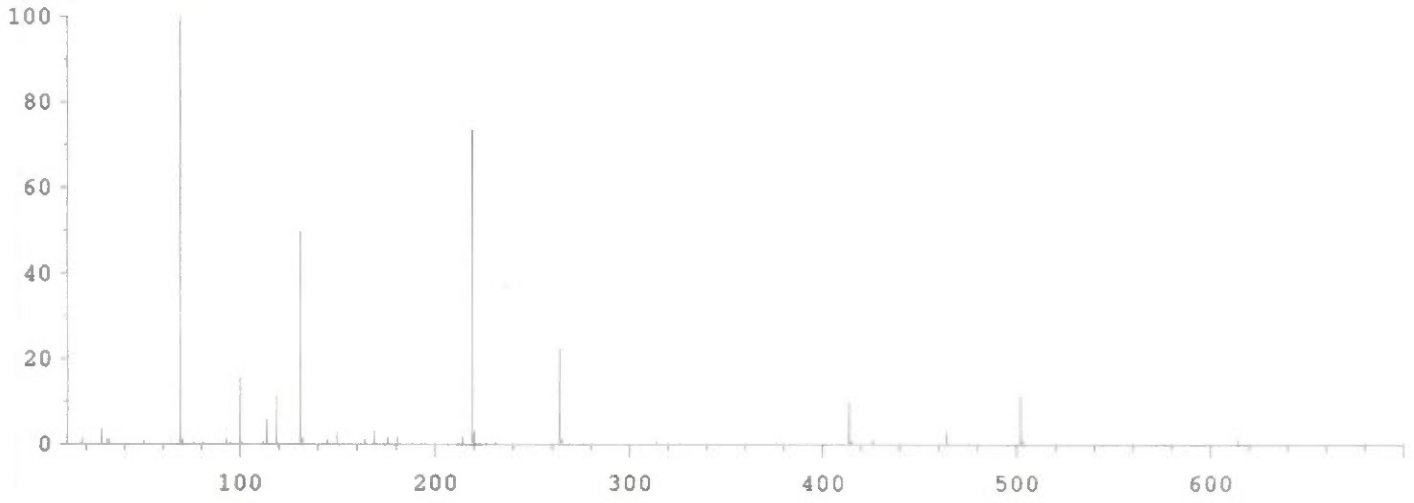
Tue Apr 22 09:14:45 2025 Instrument: SD GCMS 1

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



Ion Pol	POS	MassGain	378
		MassOffs	-12
Emission	34.6	AmuGain	2443
EIEnrgy	69.9	AmuOffs	124
Filament	1	Wid219	-0.031
		DC Pol	POS
Repeller	30.63		
IonFcus	90.2	HEDEnab	ON
EntLens	14.5	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
131 peaks Base: 69.00 Abundance: 367872



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	367872	100.00	70.00	4264	1.16
219.00	271488	73.80	220.00	11754	4.33
502.00	42952	11.68	503.00	4461	10.39

Air/Water Check: H2O~1.30% N2~3.72% O2~1.19% CO2~0.09% N2/H2O~285.98%

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

Ramp Criteria:
Ion Focus Maximum 90 volts using ion 502: EM Gain 102190
Repeller Maximum 35 volts using ion 219:

MassGain Values @Samples: 377@3 377@2 377@1 377@0 378@FS

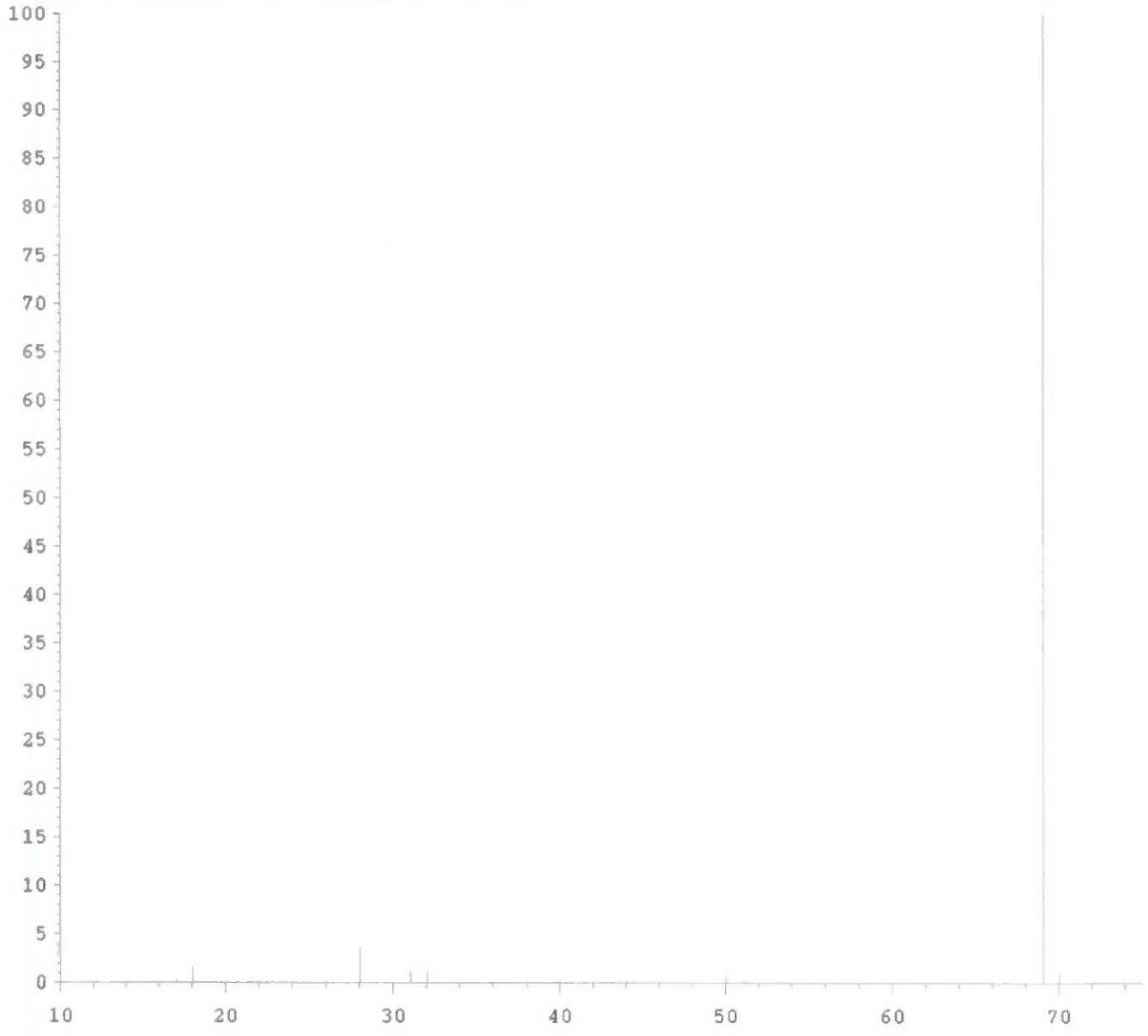
TARGET MASS:	50	69	131	219	414	502	800
Amu Offset:	124.0	124.0	124.0	124.0	124.0	124.0	124.0
Entrance Lens Offset:	19.1	19.1	19.1	19.1	19.1	19.1	19.1

25

597x Air and Water Check

Instrument: SD GCMS 1
Tue Apr 22 09:07:27 2025 C:\MSDCHEM\1\5973\

Scan: 10.00 - 75.00 Samples: 8 Thresh: 0 Step: 0.10
73 peaks Base: 69.05 Abundance: 438784



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.05	438784	100.00	70.05	4945	1.13
18.05	7509	1.71	19.15	56	0.75
28.05	16480	3.76	29.05	267	1.62

Current Params used: atune.u

Relative abundances:
18/69 = 1.71 Water%
28/69 = 3.76 Nitrogen%
32/69 = 1.20 Oxygen%
44/69 = 0.12 Carbon Dioxide%
28/18 = 219.47 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	219.00	Ok
Position of mass 502	502.00	Ok
Position of isotope mass 70	70.00	Ok
Position of isotope mass 220	219.99	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%)	4.31	Ok
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.22	Ok
Ratio of 219 to 69 should be > 40% and is	74.43	Ok
Ratio of 502 to 69 should be > 2.4% and is	11.52	Ok
Mass 69 Precursor (<= 3%)	0.22	Ok
Mass 219 Precursor (<= 6%)	0.38	Ok
Mass 502 Precursor (<= 12%)	0.45	Ok
Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	1.30	Ok
Ratio of 28 to 69 (<10%)	3.78	Ok
Electron Multiplier Voltage	1576	Ok

Tune portion of System Verification passed.

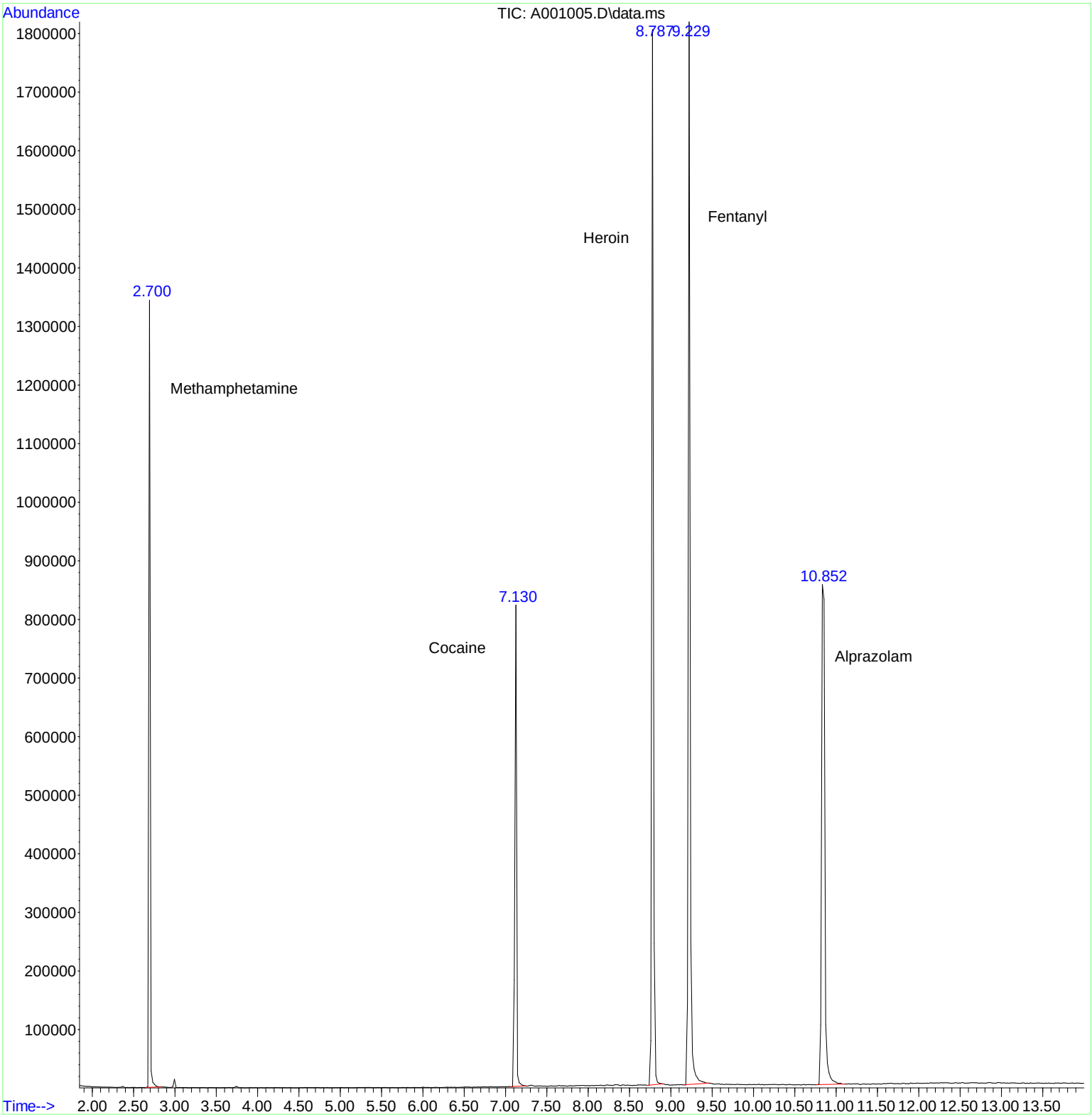
BCCL GC/MS #1
Retention Times for the Week of:

04/21/2025 - 04/27/2025

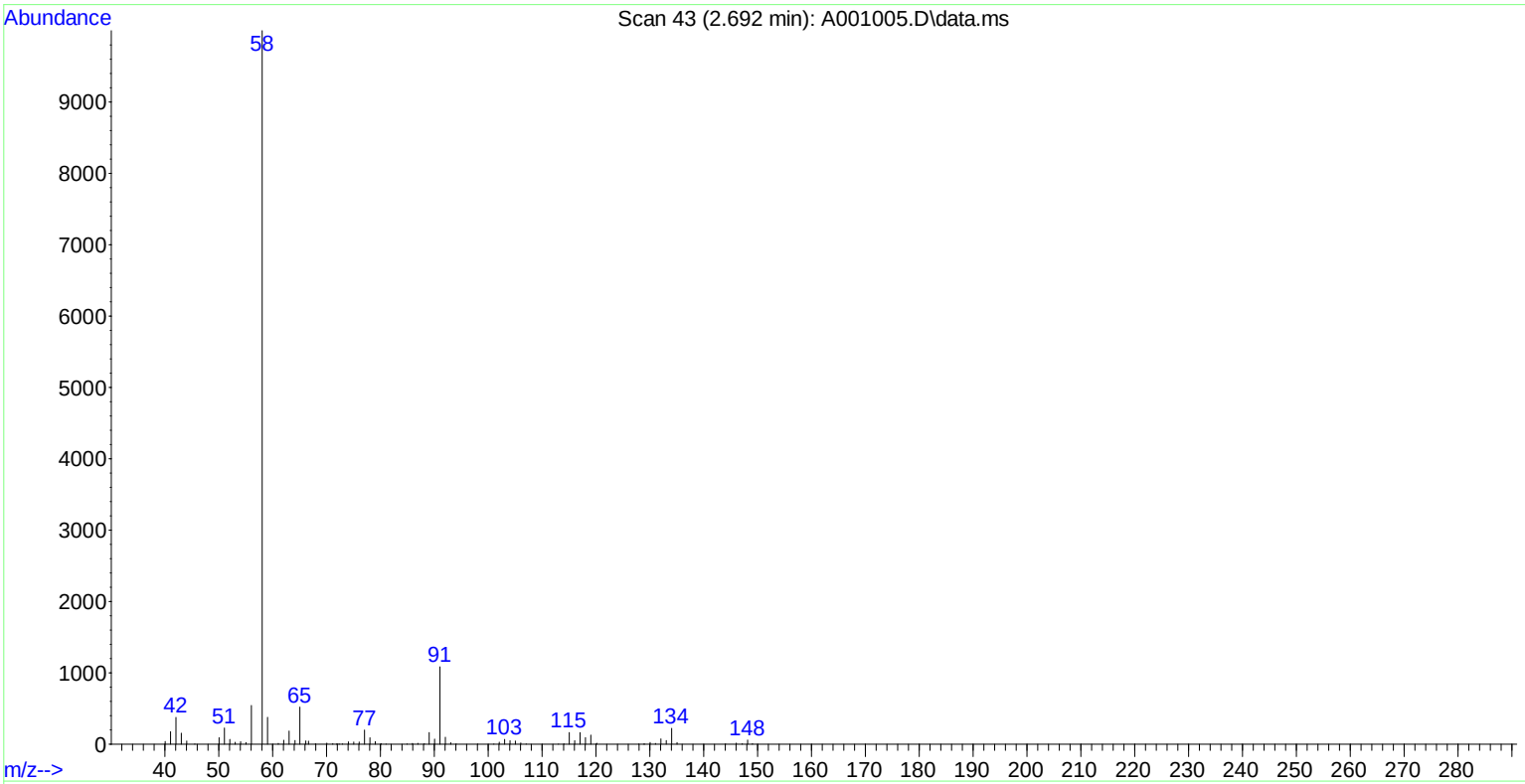
[x] **Tune: 04/22/2025 - Autotune DS**

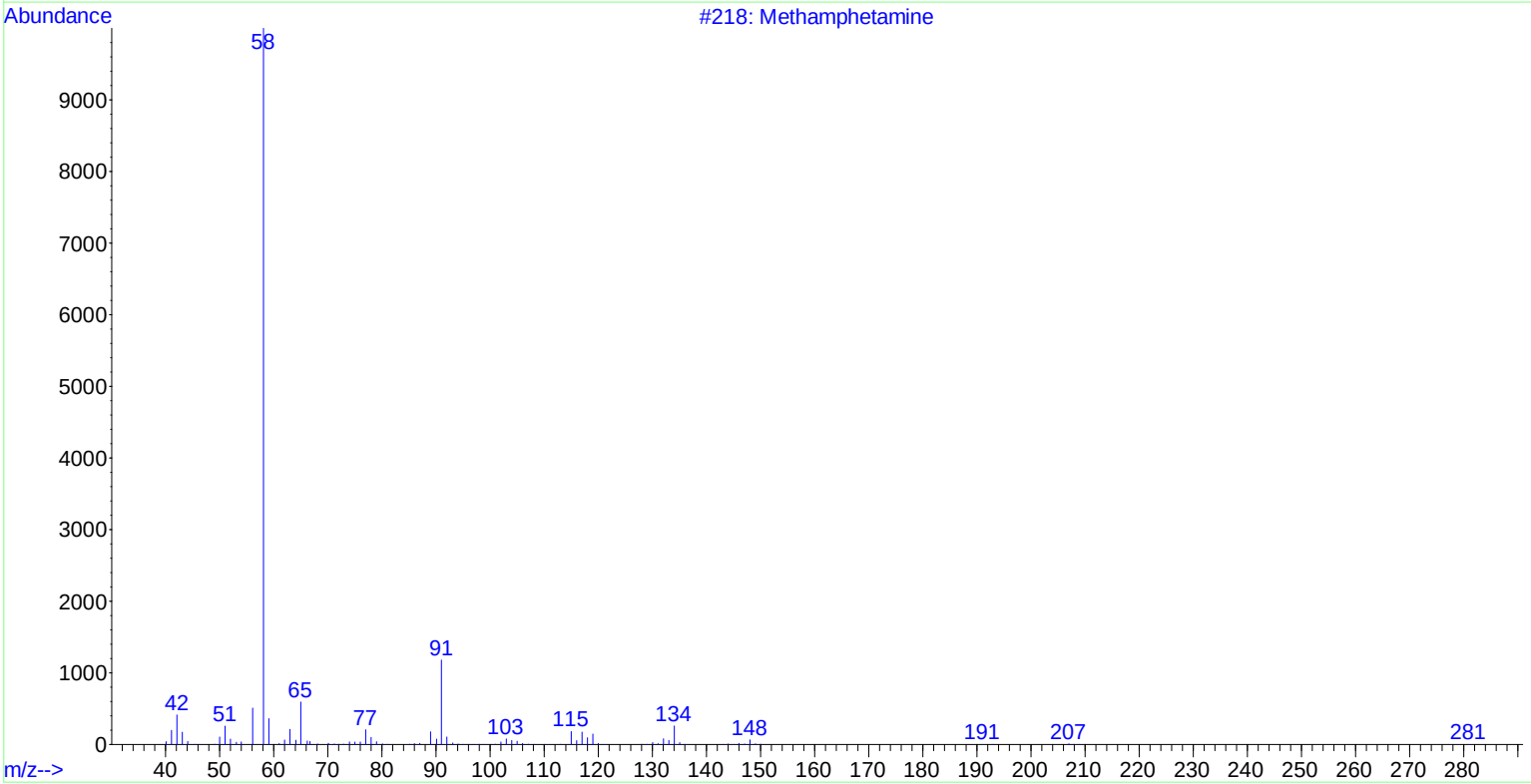
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	BCCL GenDrug	2.700	2.673	2.727
Cocaine	R-24-060	BCCL GenDrug	7.130	7.058	7.201
Heroin	R-24-060	BCCL GenDrug	8.787	8.699	8.874
Fentanyl	R-24-060	BCCL GenDrug	9.229	9.136	9.321
Alprazolam	R-24-060	BCCL GenDrug	10.852	10.743	10.960

File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\042225\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 22 Apr 2025 10:15 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN

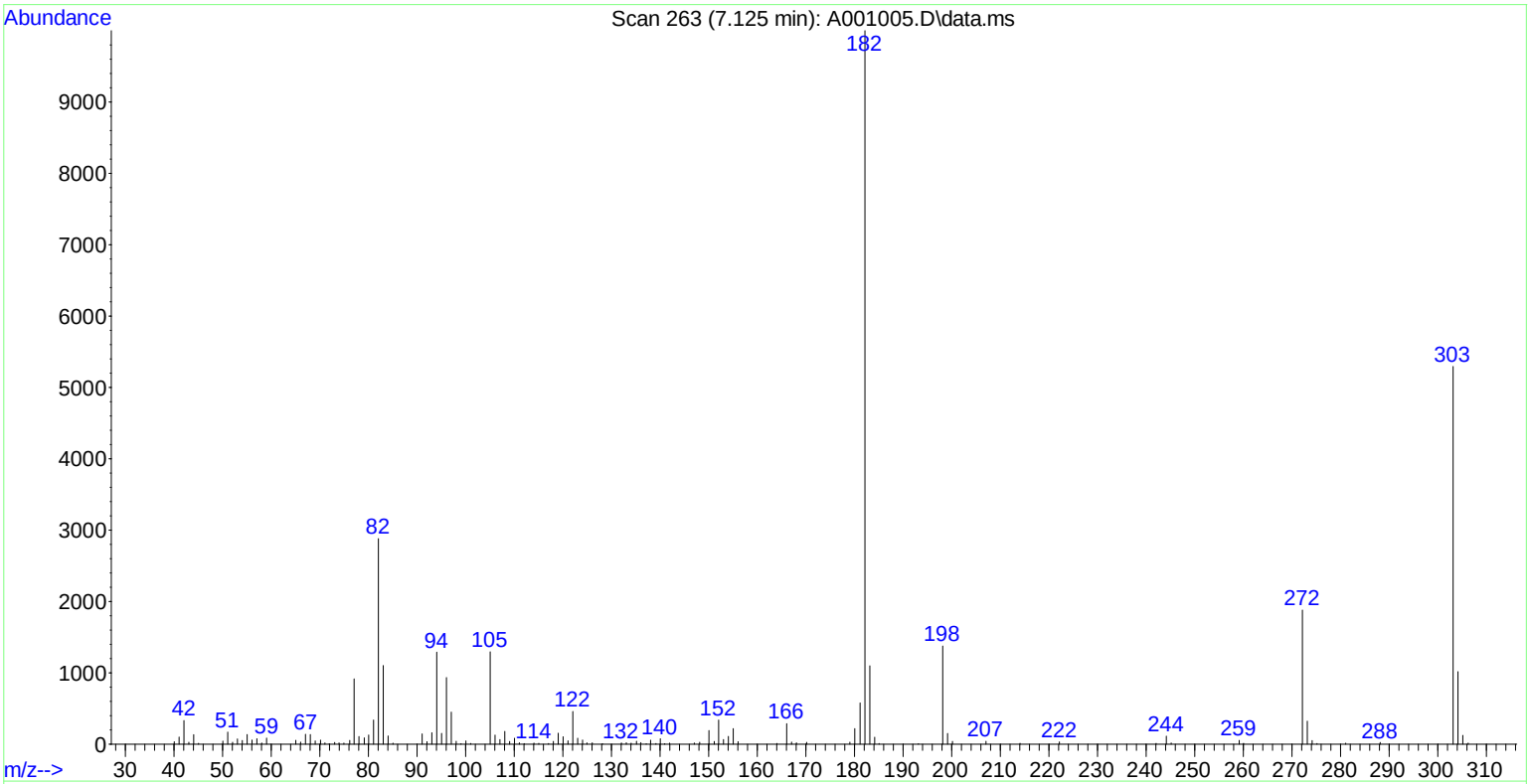


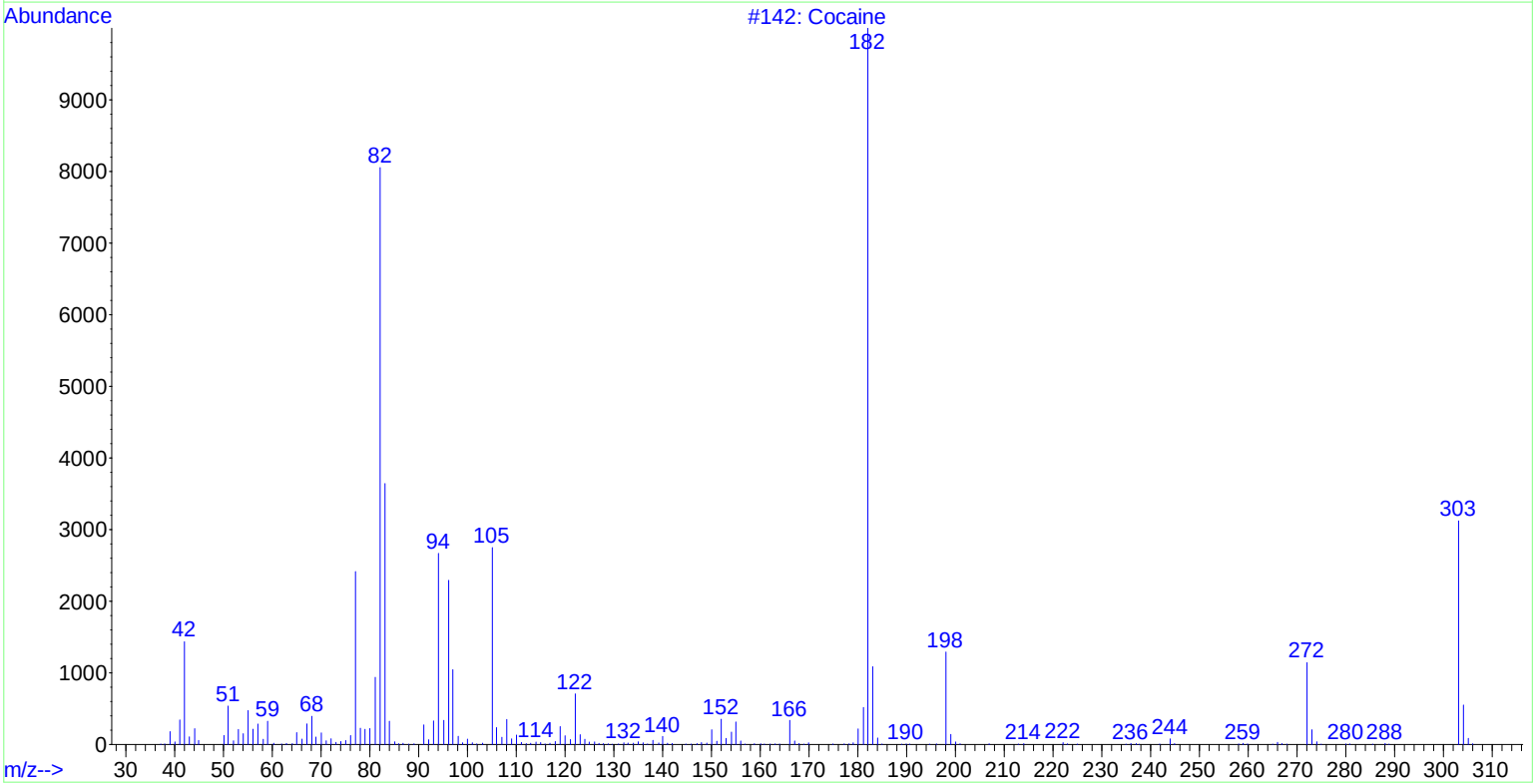
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
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Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



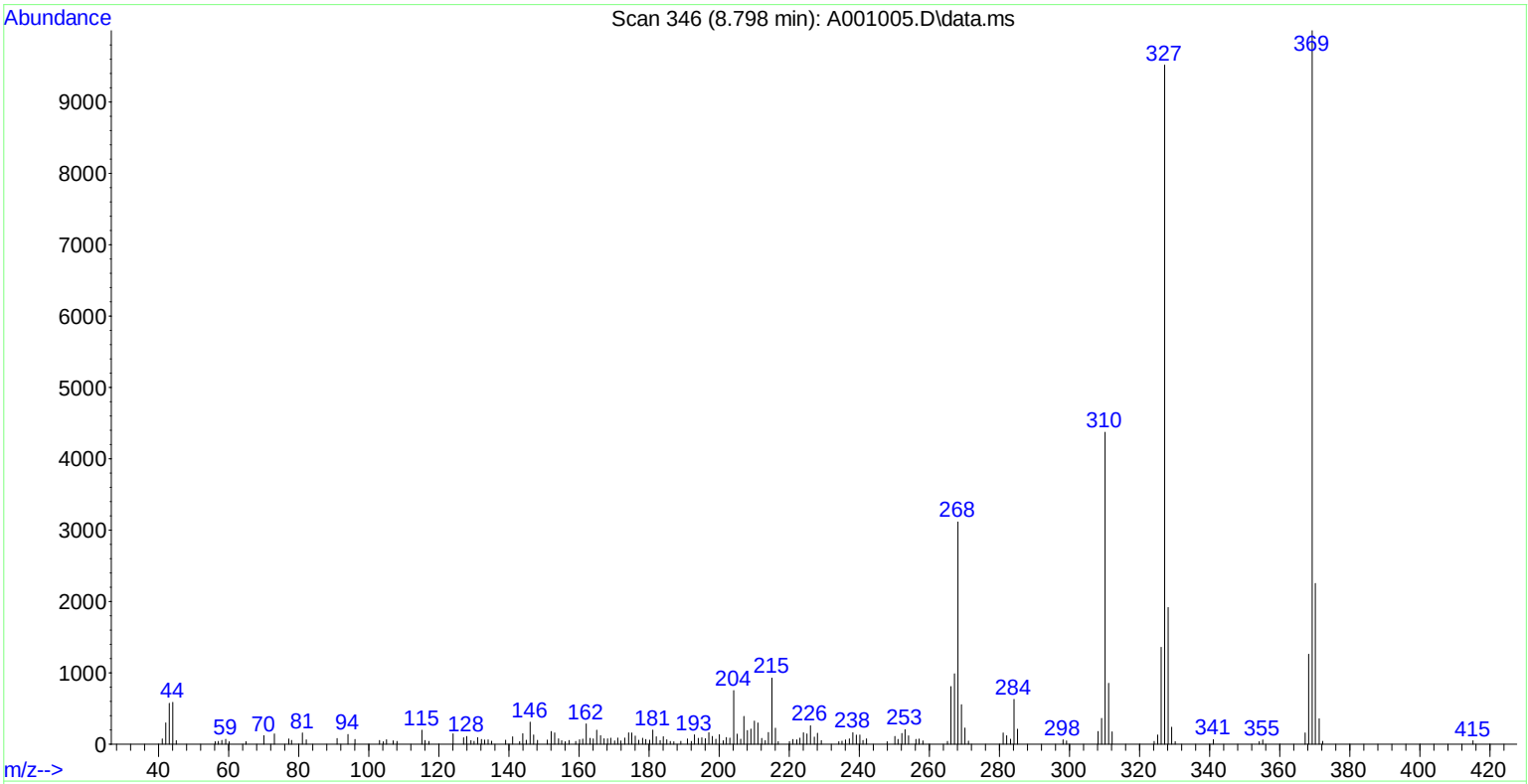


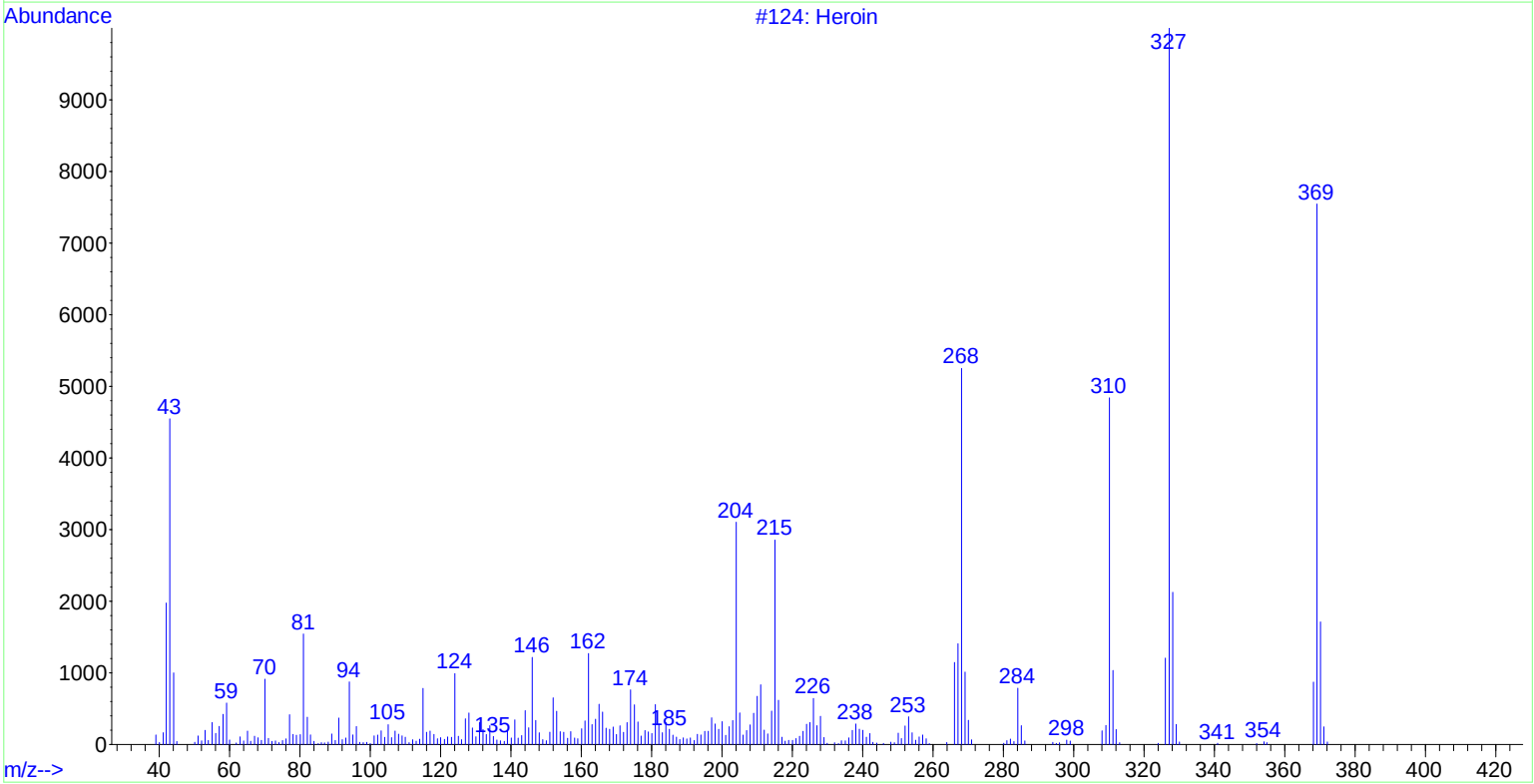
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... 2025\042225\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 22 Apr 2025 10:15 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



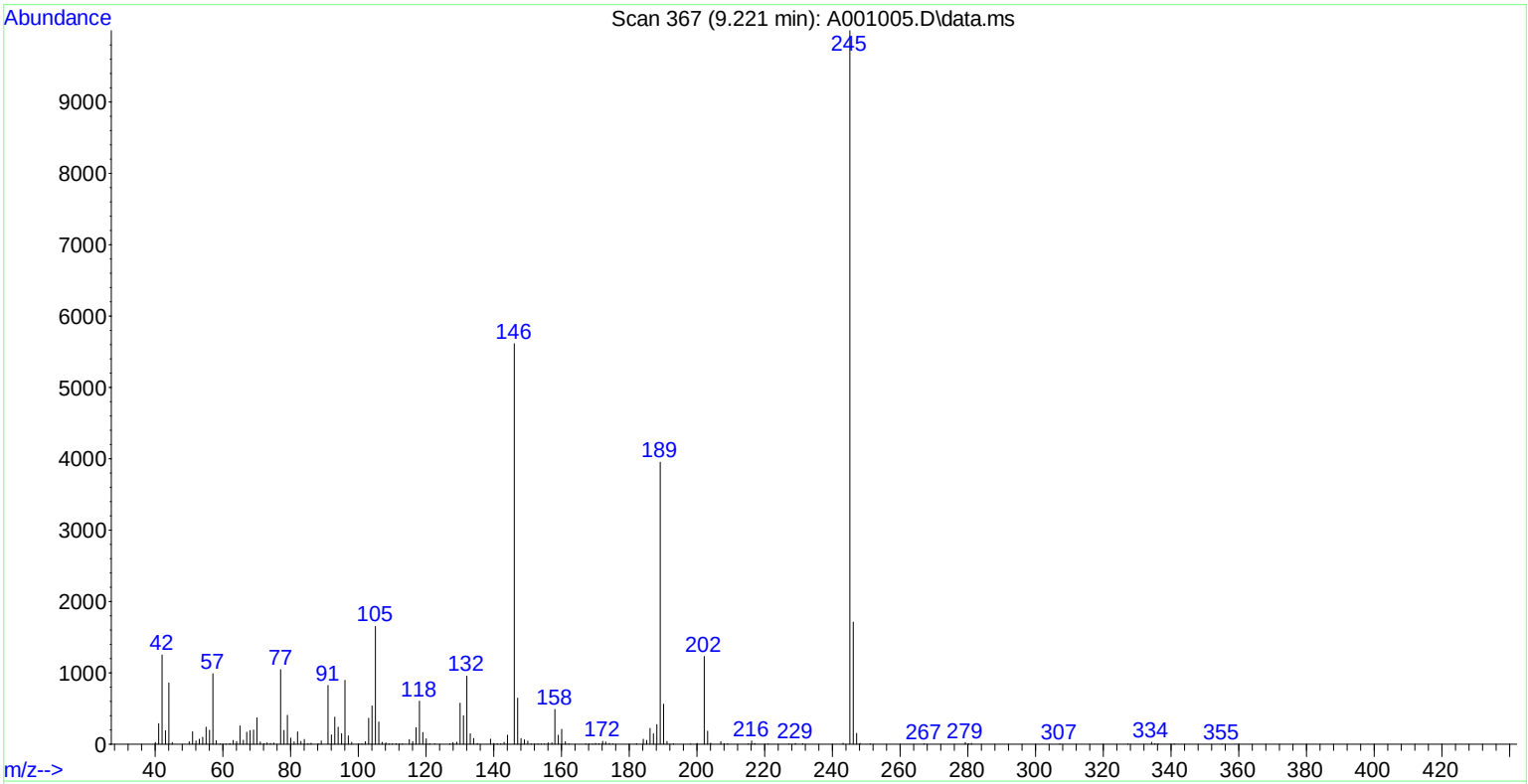


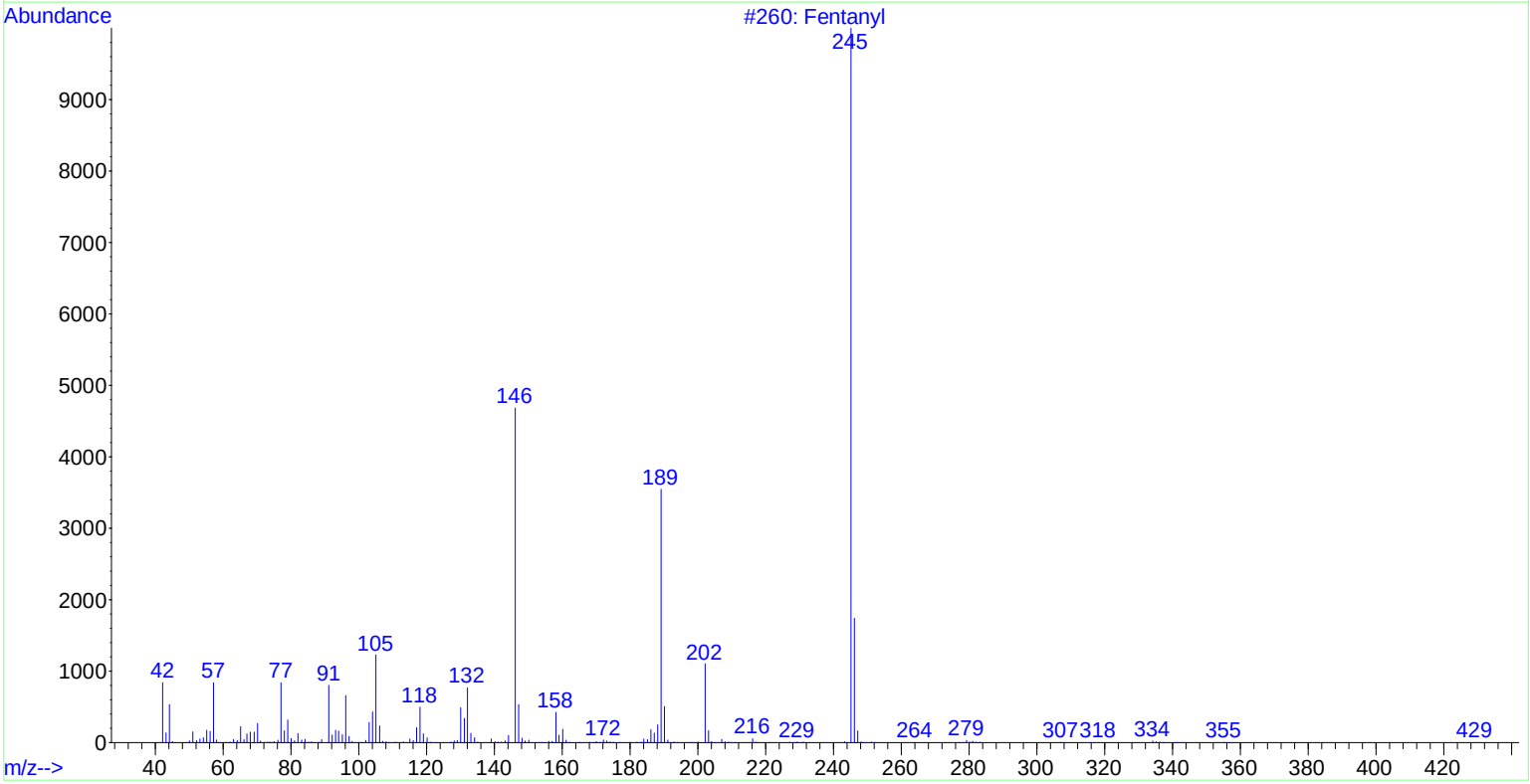
File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\042225\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 22 Apr 2025 10:15 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



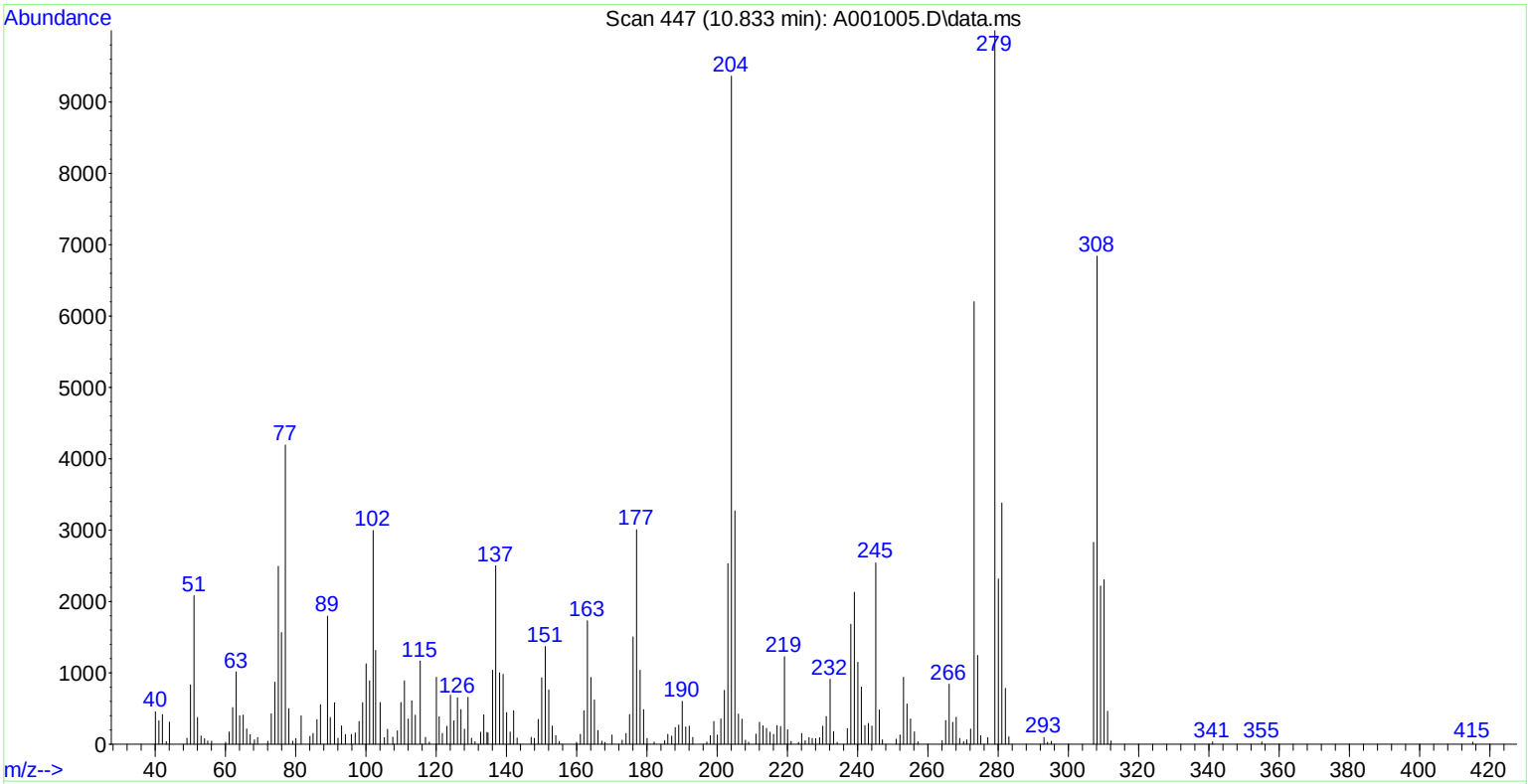


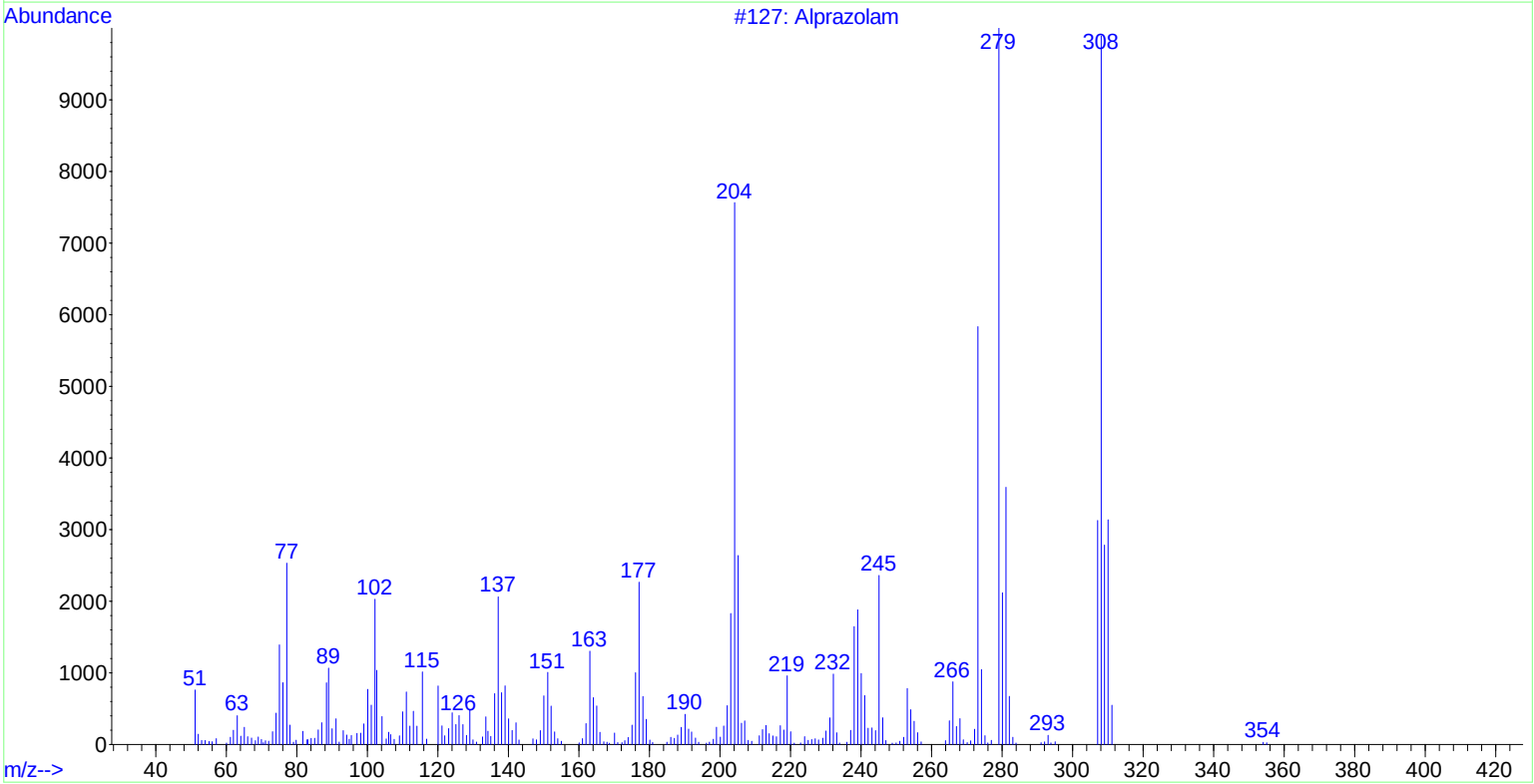
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... 2025\042225\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 22 Apr 2025 10:15 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



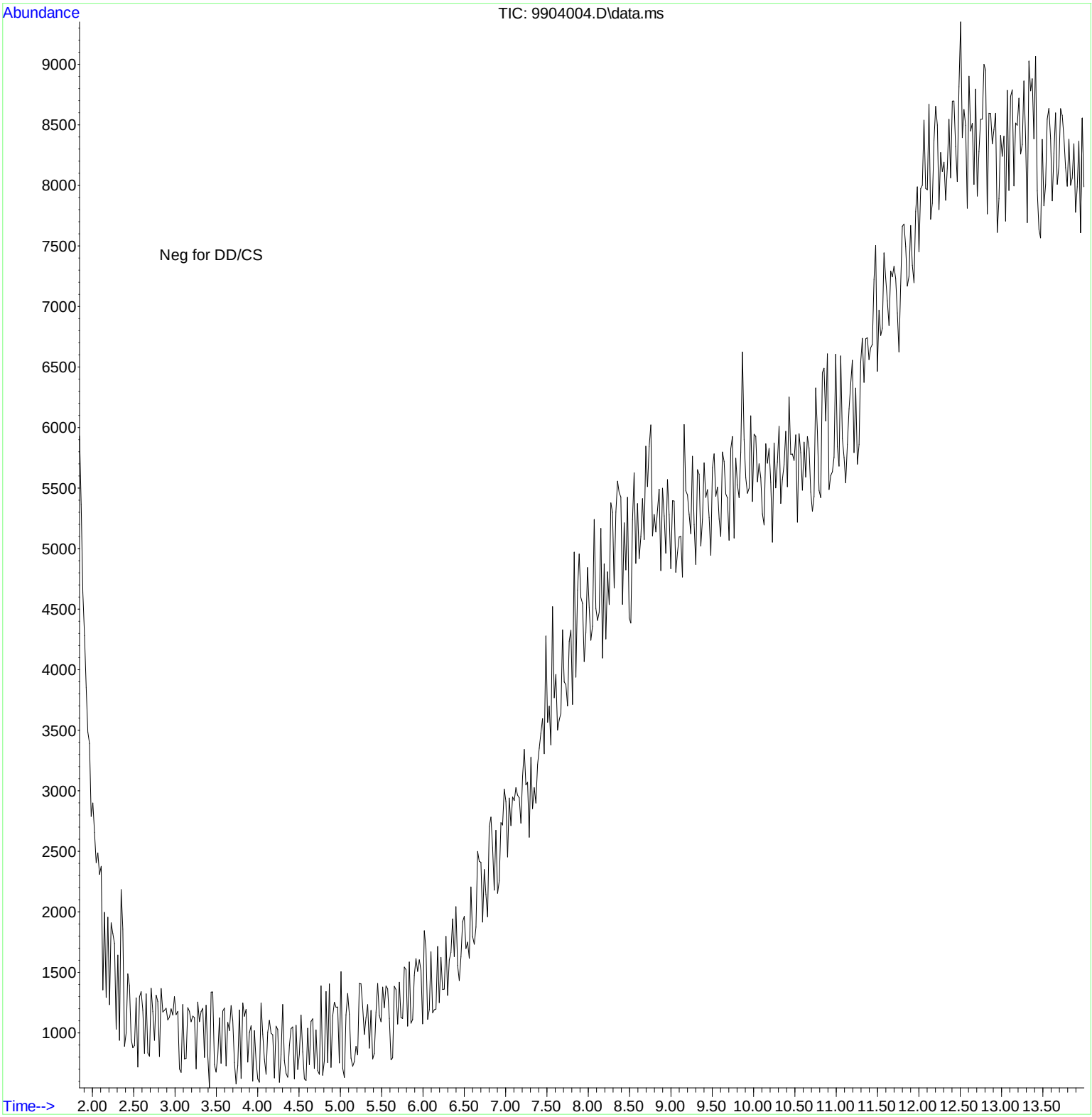


File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\042225\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 22 Apr 2025 10:15 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN

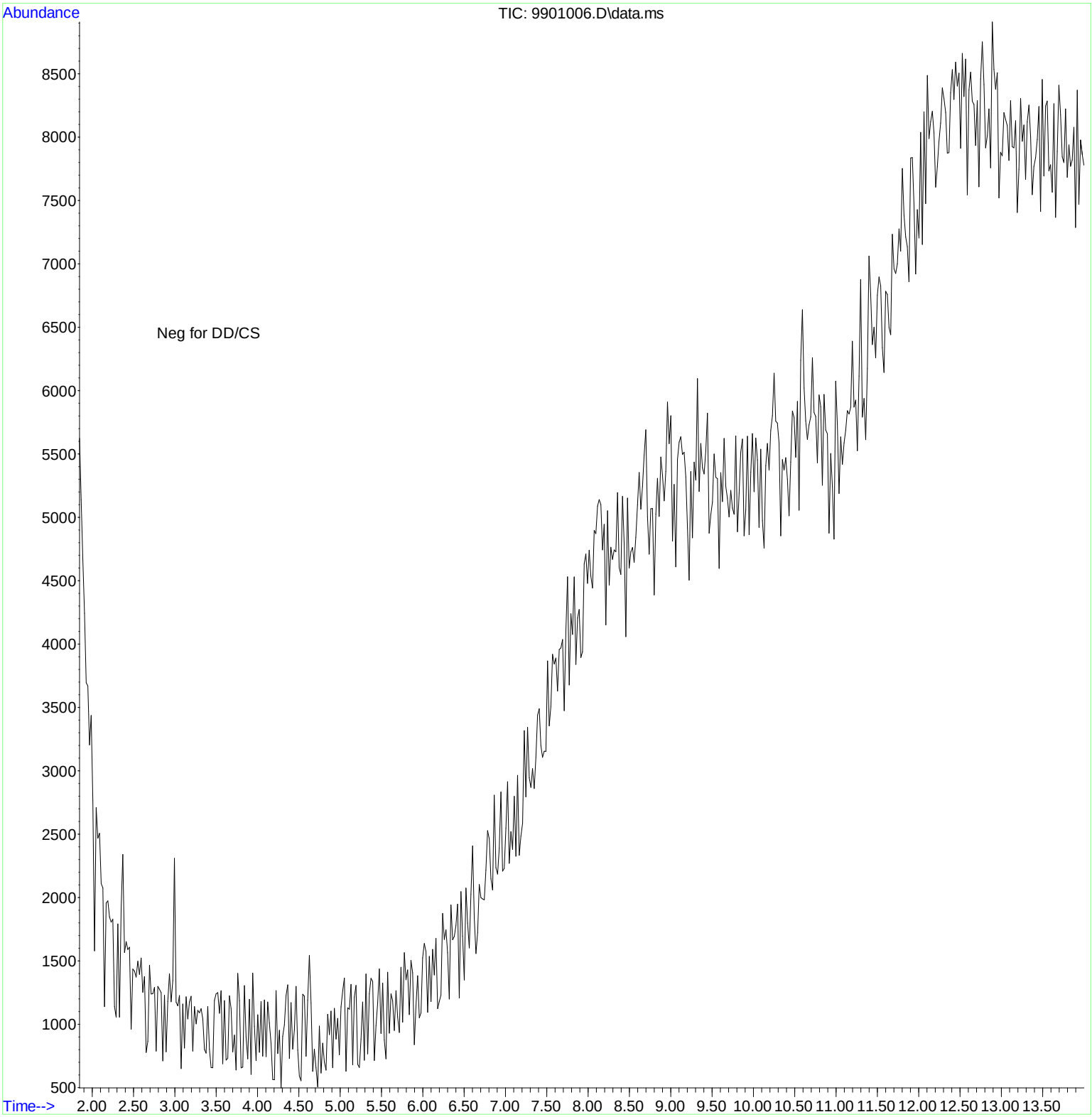




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... 2025\042225\9904004.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 22 Apr 2025 9:58 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK PRIOR TO CAYMAN GC/MS 000002664
Misc Info : ACN (C-19-0068)



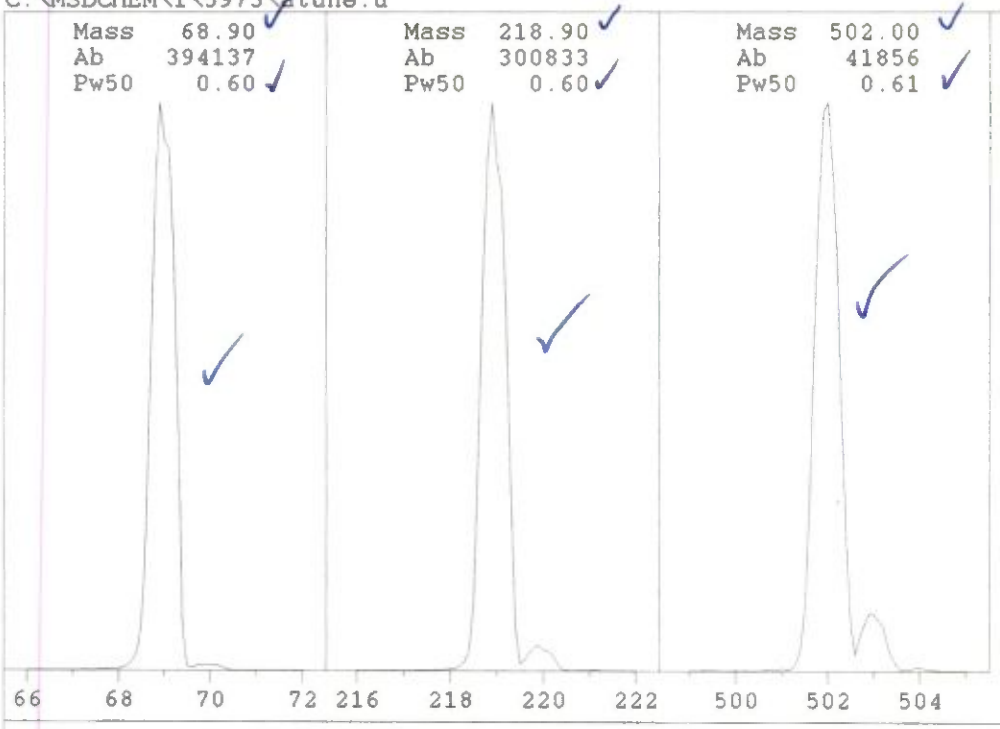
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... 2025\042225\9901006.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 22 Apr 2025 10:33 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK - INSTRUMENT READY 000002664
Misc Info : ACN (C-19-0068)



5973 Autotune

Mon Apr 28 09:42:06 2025 Instrument: SD GCMS 1

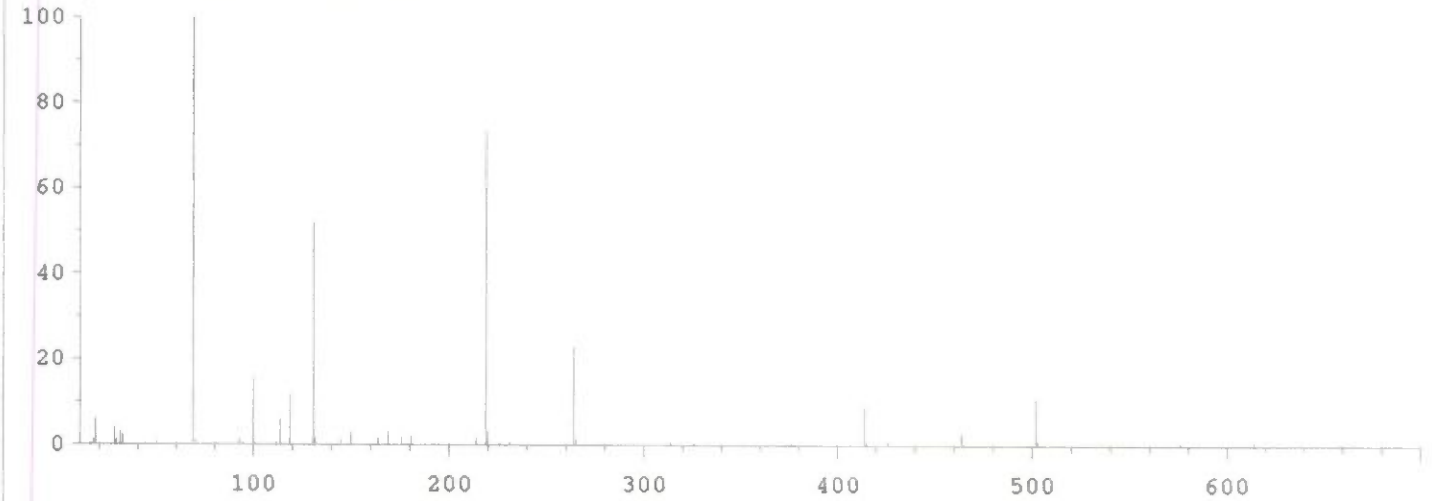
C:\MSDCHEM\1\5973\atune.u



Ion Pol	POS	MassGain	364
		MassOffs	-12
Emission	34.6	AmuGain	2443
EIEnrgy	69.9	AmuOffs	124
Filament	1	Wid219	-0.022
		DC Pol	POS
Repeller	30.96		
IonFcus	89.2	HEDEnab	ON
EntLens	16.5	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

139 peaks Base: 69.00 Abundance: 361216



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	361216	100.00	70.00	3922	1.09
218.90	265536	73.51	219.90	11673	4.40
502.00	38776	10.73	502.90	3825	9.86

Air/Water Check: H2O~5.99% N2~4.15% O2~2.40% CO2~0.27% N2/H2O~69.34%

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

Ramp Criteria:

Ion Focus Maximum 90 volts using ion 502; EM Gain 133252

Repeller Maximum 35 volts using ion 219;

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

TARGET MASS:	50	69	131	219	414	502	800
Amu Offset:	124.0	124.0	124.0	124.0	124.0	124.0	124.0
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
Mon Apr 28 09:33:15 2025 C:\MSDCHEM\1\5973\

Scan: 10.00 - 75.00 Samples: 8 Thresh: 0 Step: 0.10
69 peaks Base: 69.00 Abundance: 405632



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	405632	100.00	70.00	4499	1.11
18.10	27816	6.86	19.00	151	0.54
28.00	16164	3.98	29.00	6139	37.98

Current Params used: atune.u

Relative abundances: ✓

18/69 =	6.86 ✓	Water%
28/69 =	3.98 ✓	Nitrogen%
32/69 =	2.97 ✓	Oxygen%
44/69 =	0.54	Carbon Dioxide%
28/18 =	58.11	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	69.00	Ok
Position of mass 219	218.90	Ok
Position of mass 502	502.00	Ok
Position of isotope mass 70	69.98	Ok
Position of isotope mass 220	219.93	Ok
Position of isotope mass 503	503.00	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%)	4.34	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	74.20	Ok
Ratio of 502 to 69 should be > 2.4% and is	10.91	Ok
Mass 69 Precursor (<= 3%)	0.22	Ok
Mass 219 Precursor (<= 6%)	0.44	Ok
Mass 502 Precursor (<= 12%)	0.61	Ok
Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	5.41	Ok
Ratio of 28 to 69 (<10%)	4.06	Ok
Electron Multiplier Voltage	1624	Ok

Tune portion of System Verification passed.

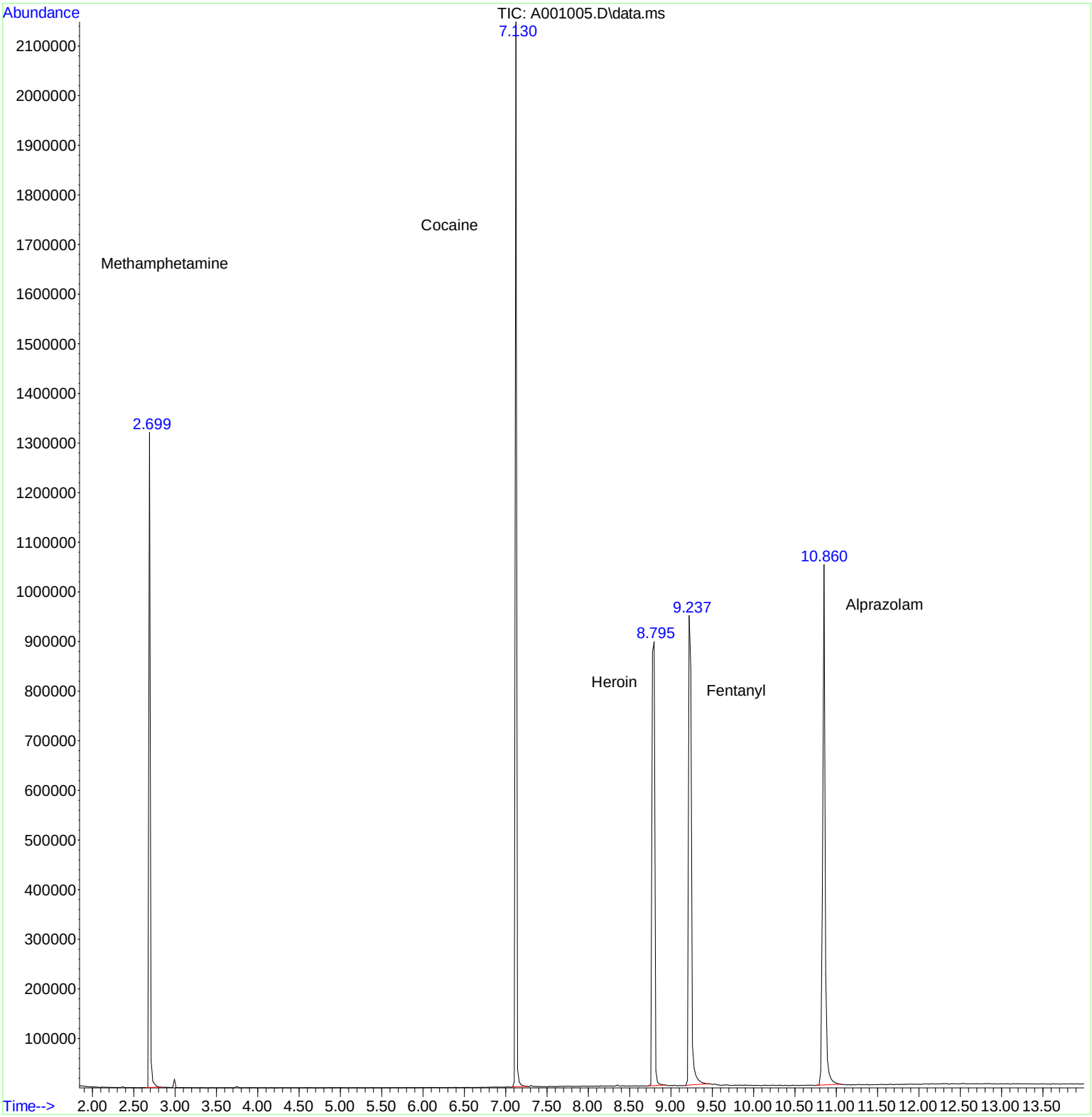
BCCL GC/MS #1
Retention Times for the Week of:

04/28/2025 - 05/04/2025

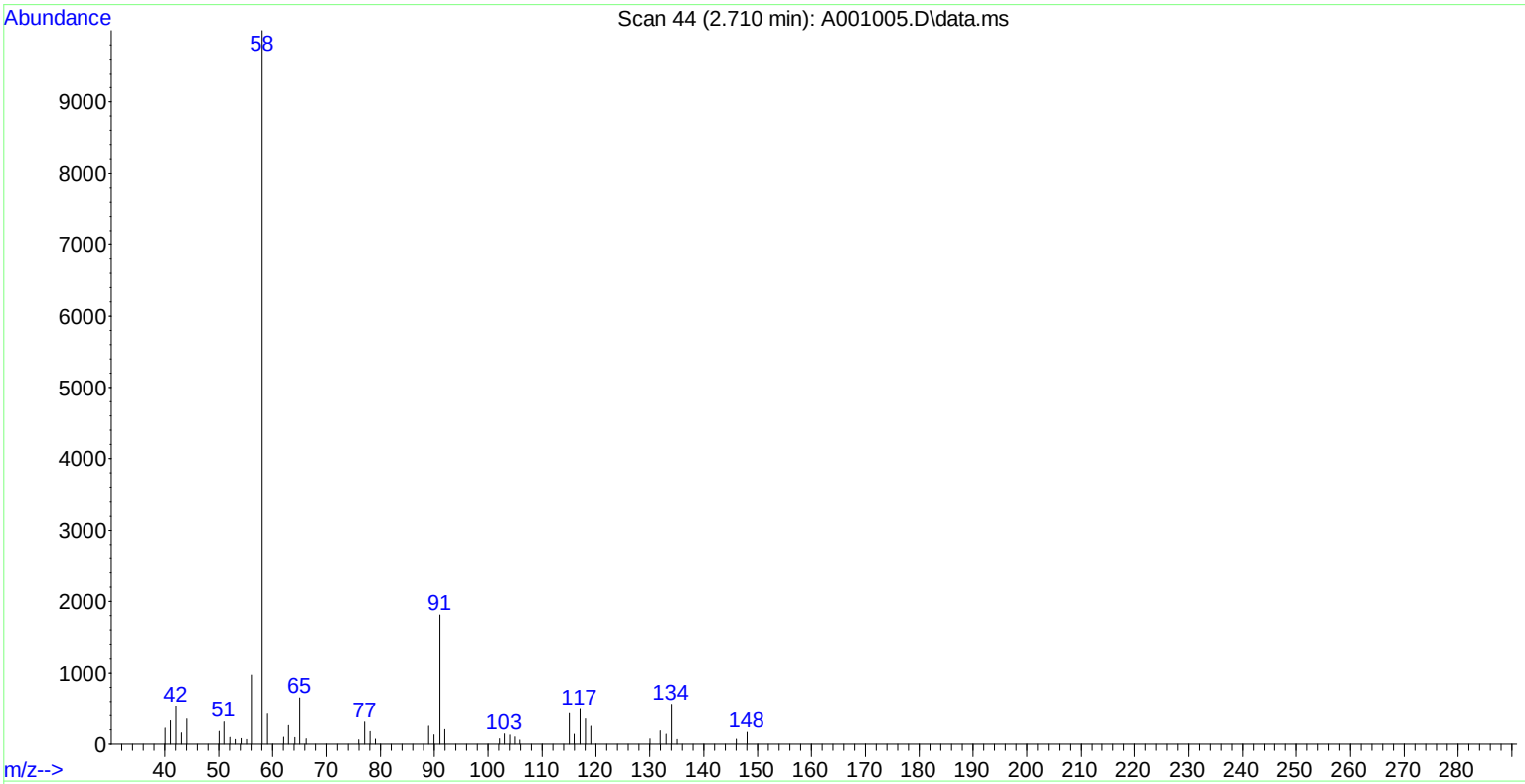
[x] **Tune: 04/28/2025 - Autotune DS/DN**

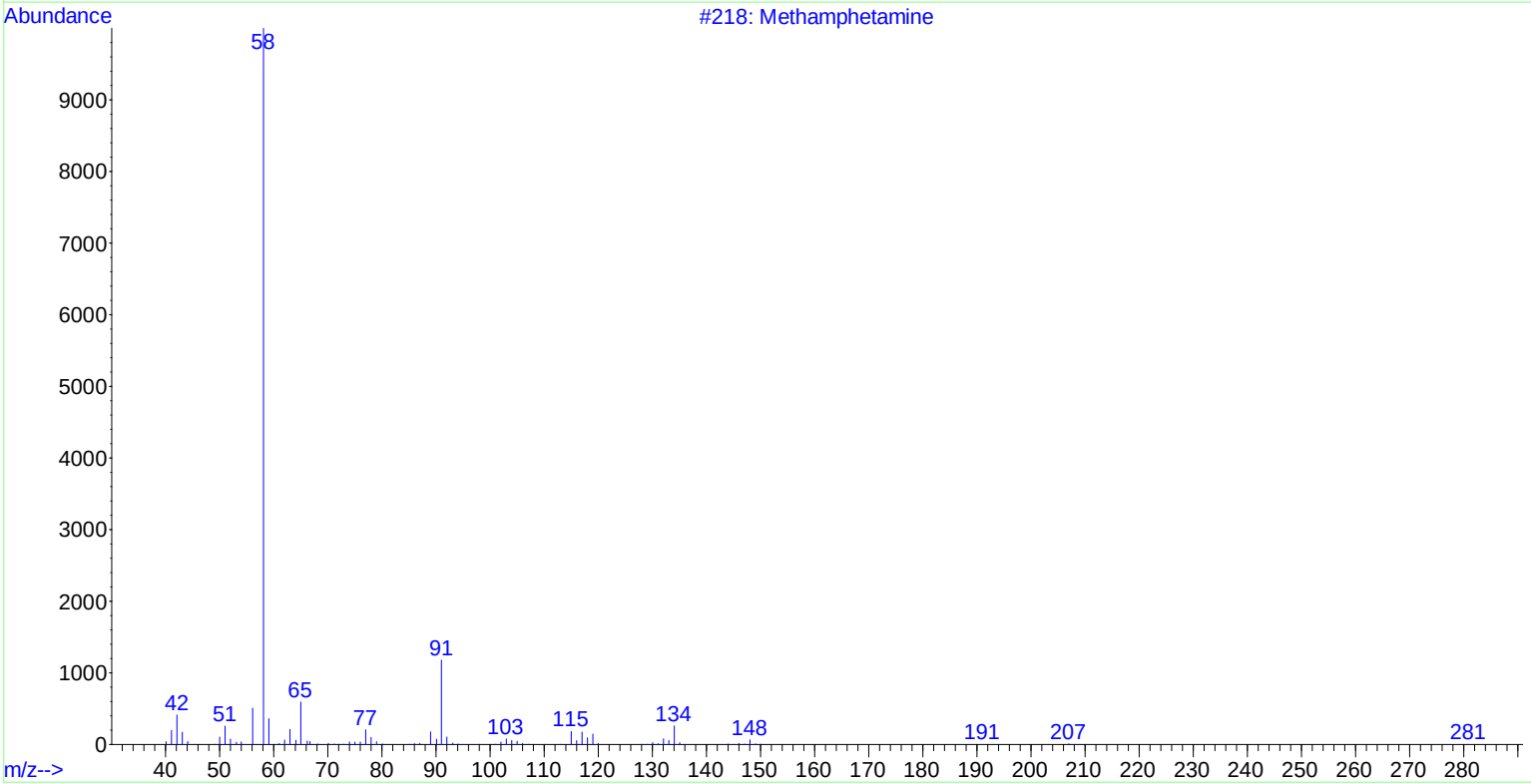
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	BCCL GenDrug	2.699	2.672	2.725
Cocaine	R-24-060	BCCL GenDrug	7.130	7.058	7.201
Heroin	R-24-060	BCCL GenDrug	8.795	8.707	8.882
Fentanyl	R-24-060	BCCL GenDrug	9.237	9.144	9.329
Alprazolam	R-24-060	BCCL GenDrug	10.860	10.751	10.968

File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\042825\A001005.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 28 Apr 2025 11:30 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN

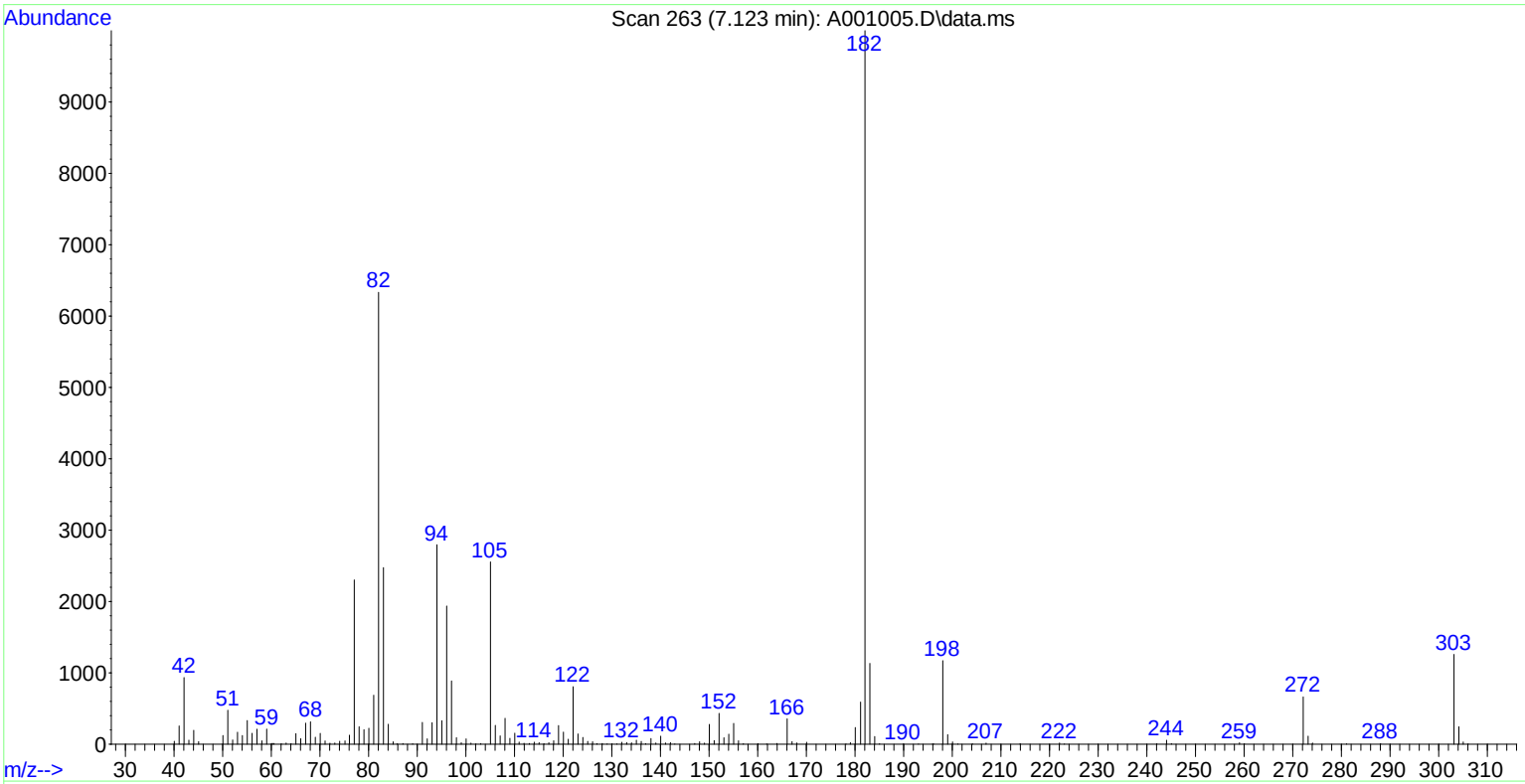


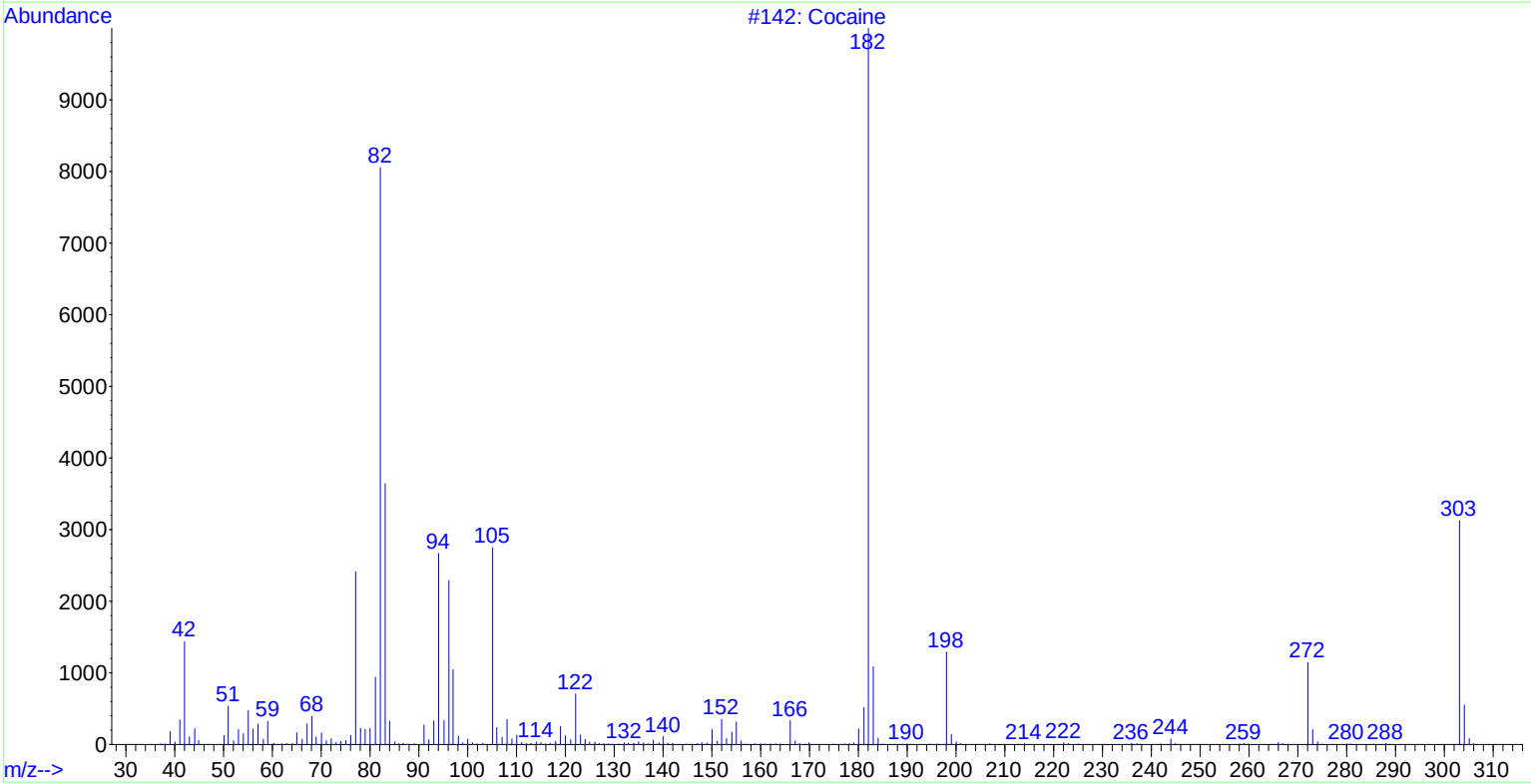
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Instrument : SD GCMS 1
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Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



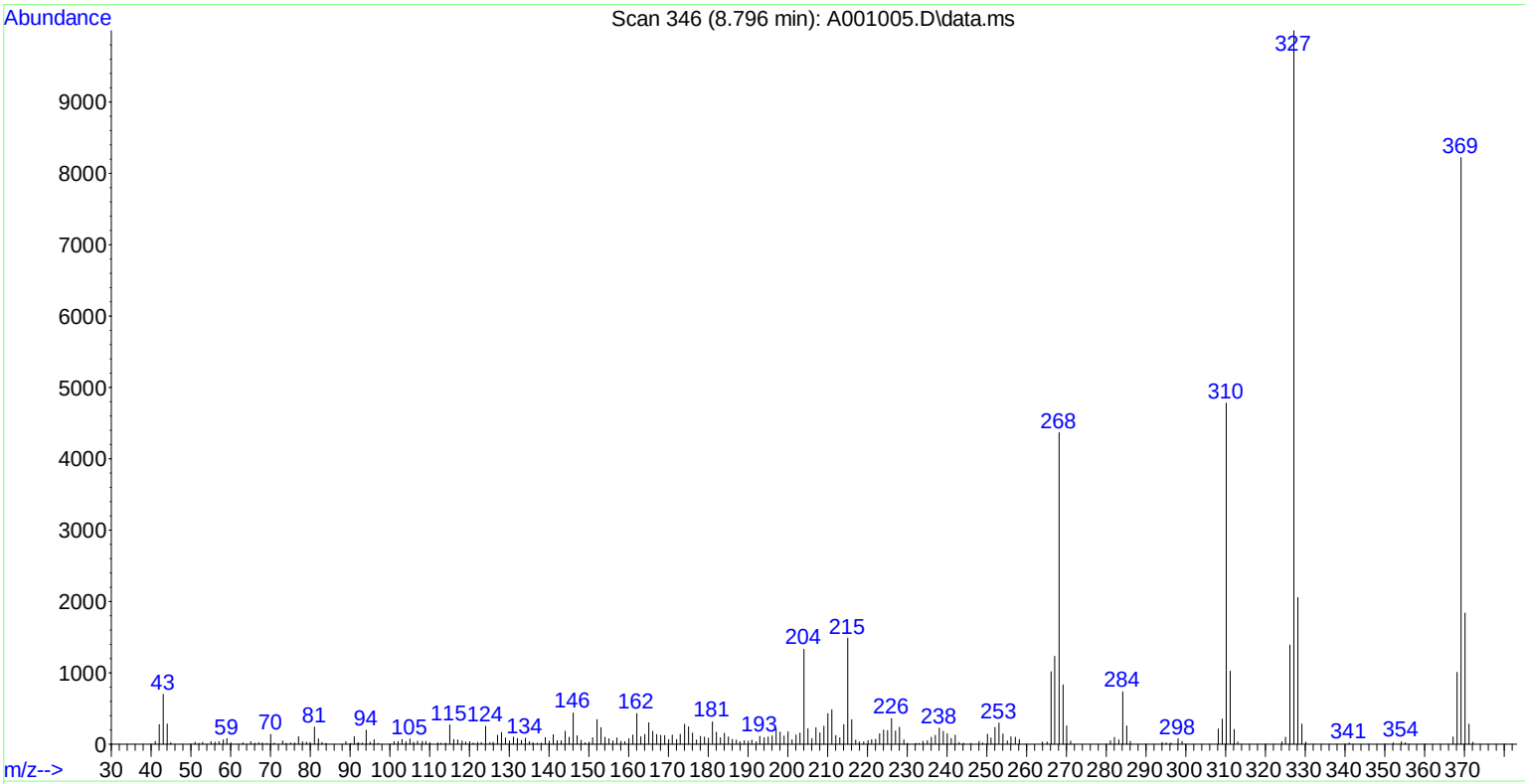


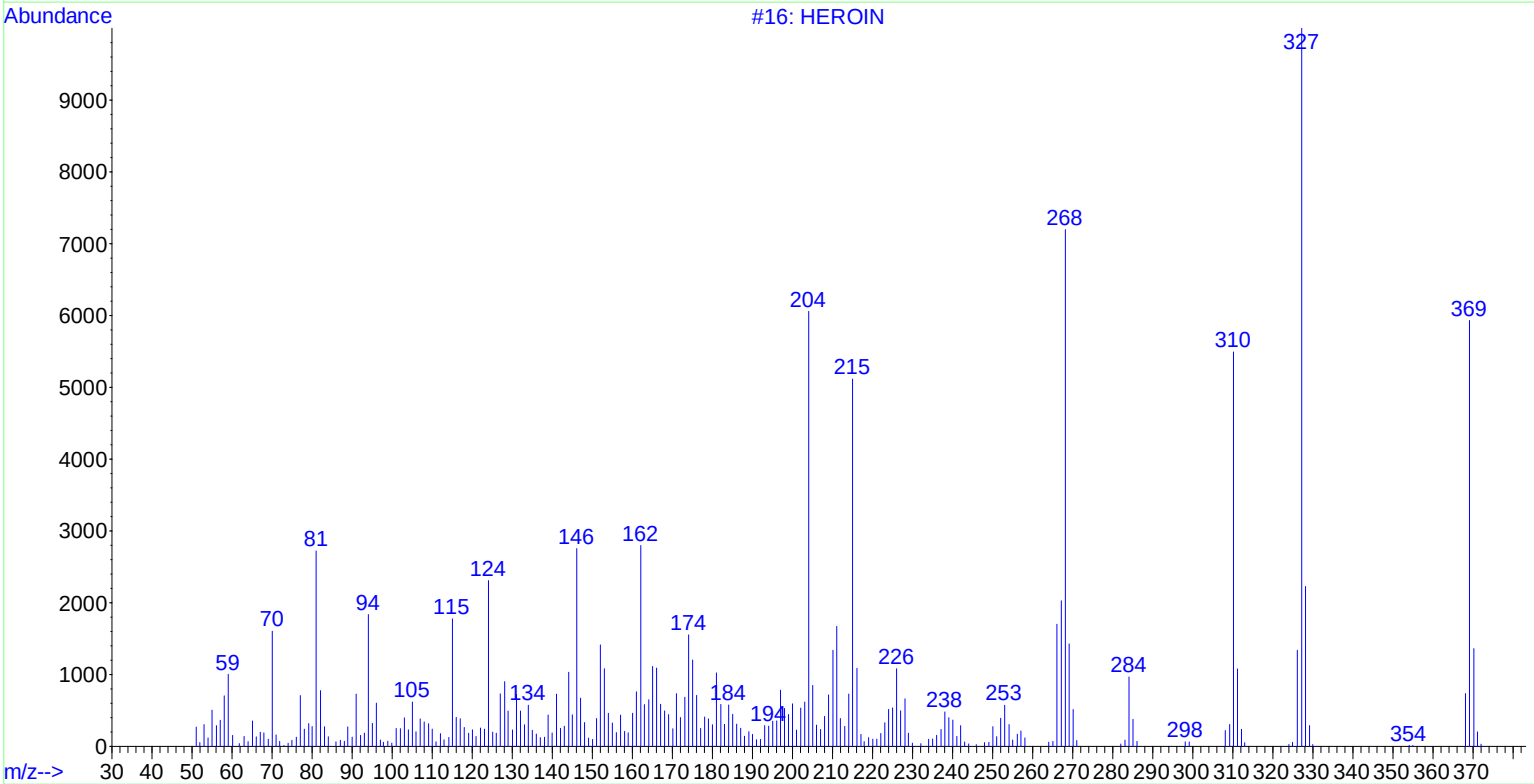
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 28 Apr 2025 11:30 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



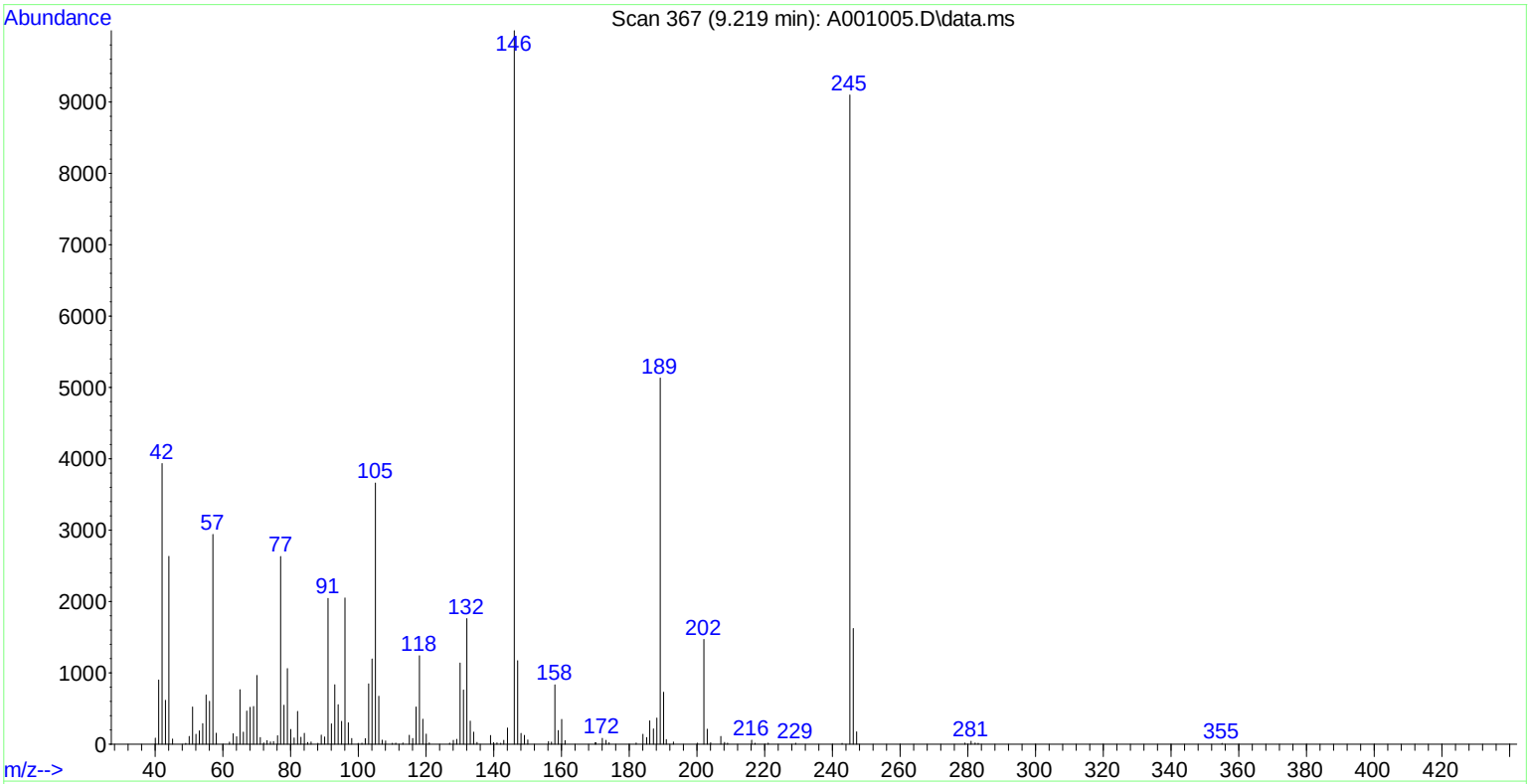


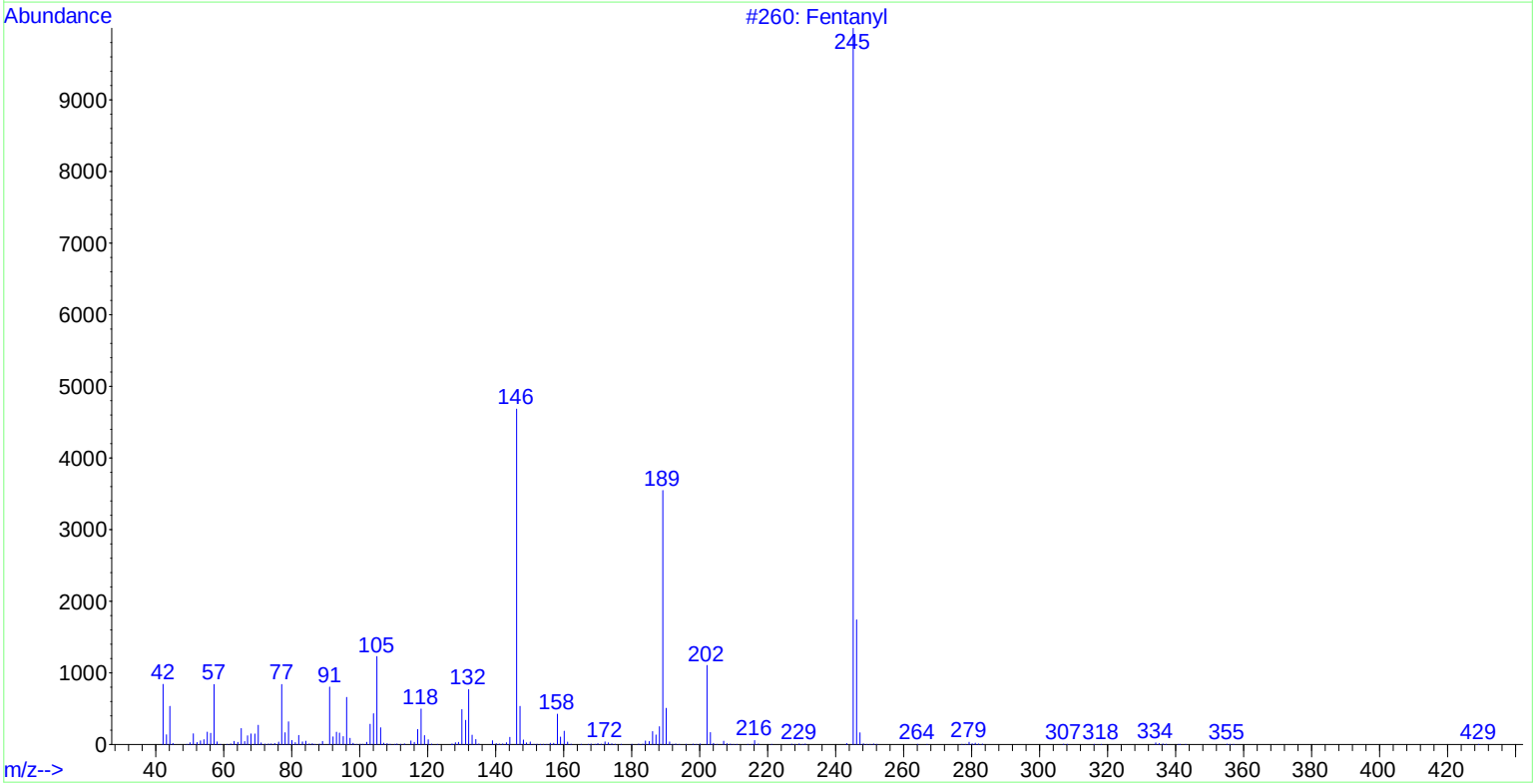
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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 28 Apr 2025 11:30 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN



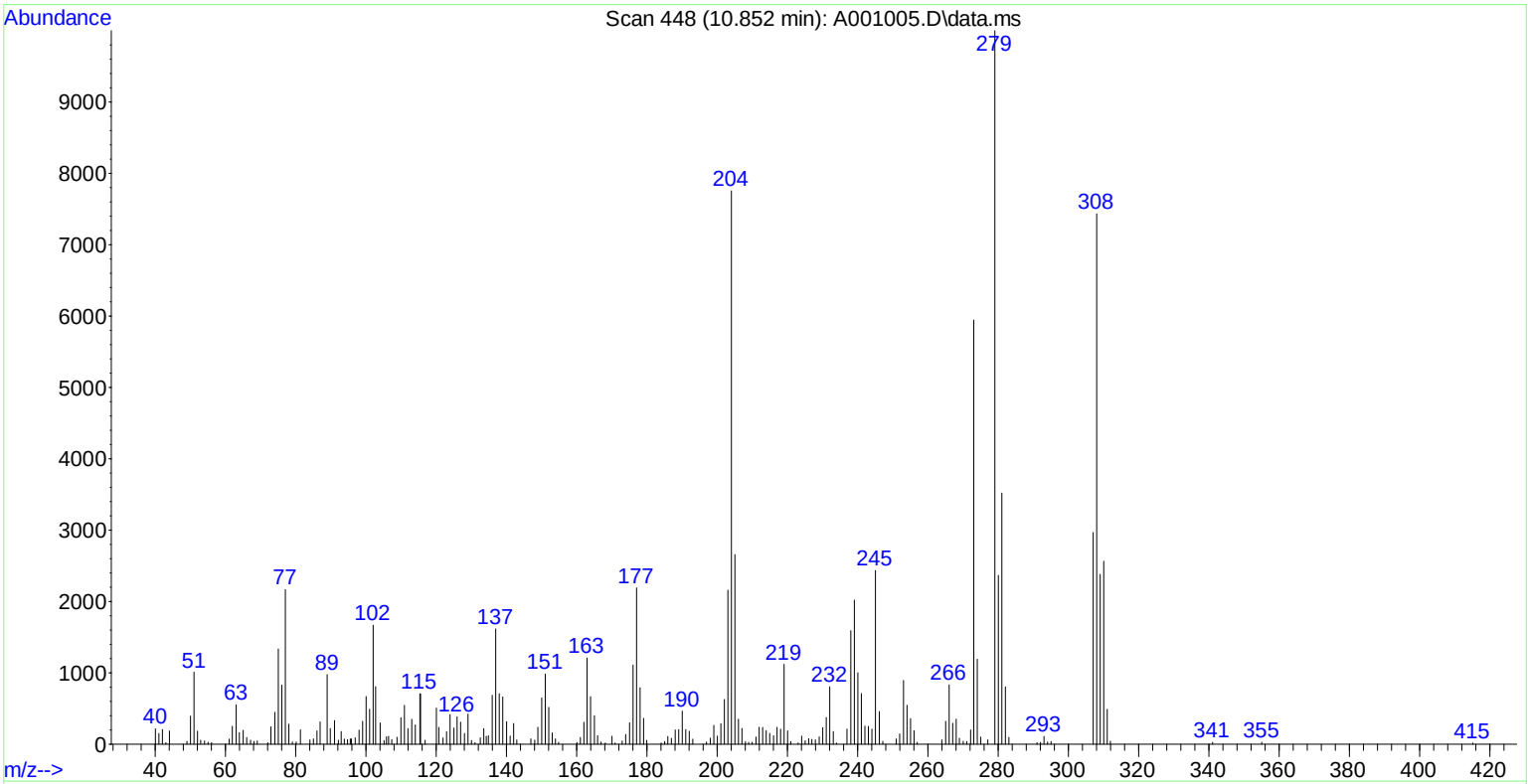


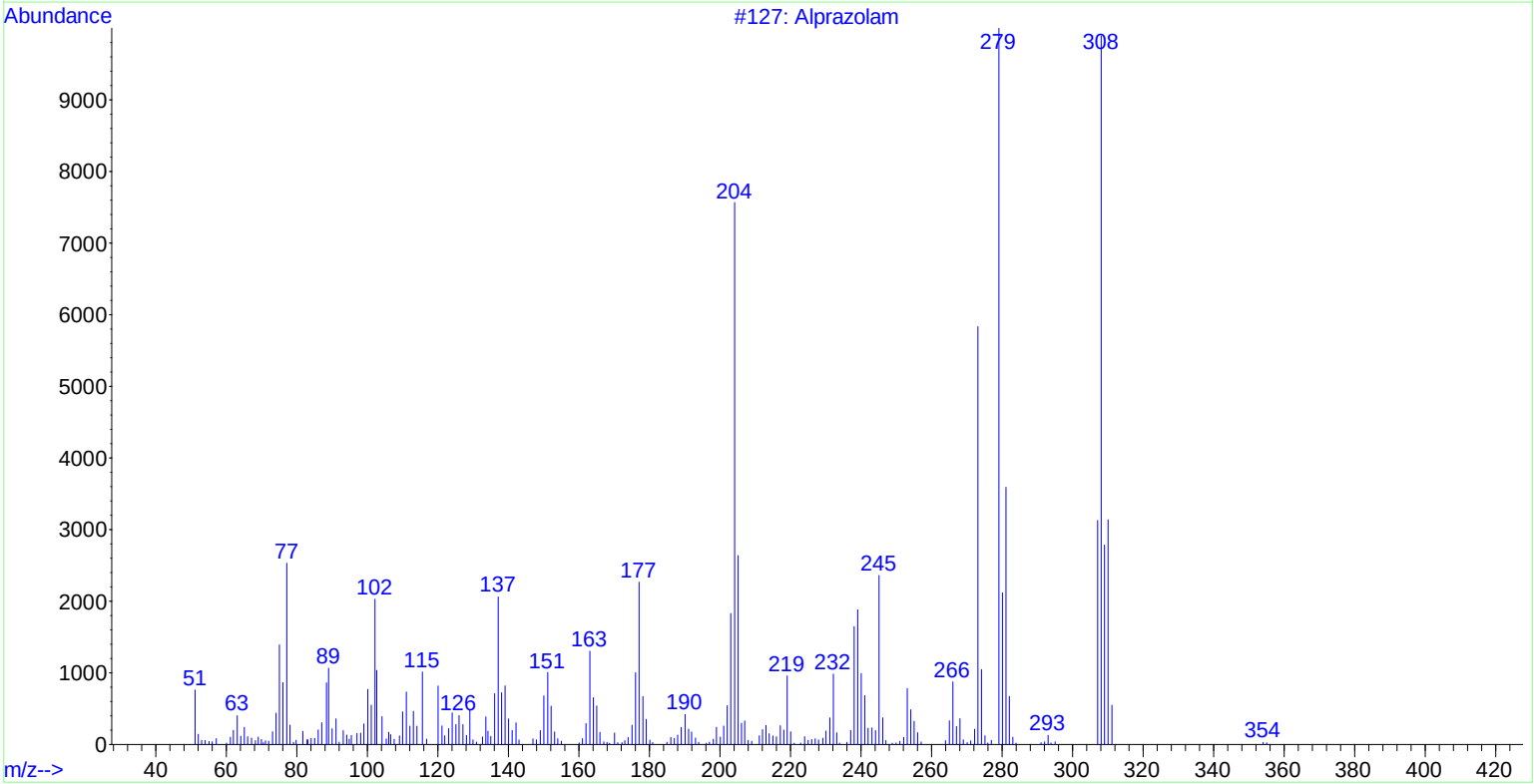
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Instrument : SD GCMS 1
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Misc Info : In ACN



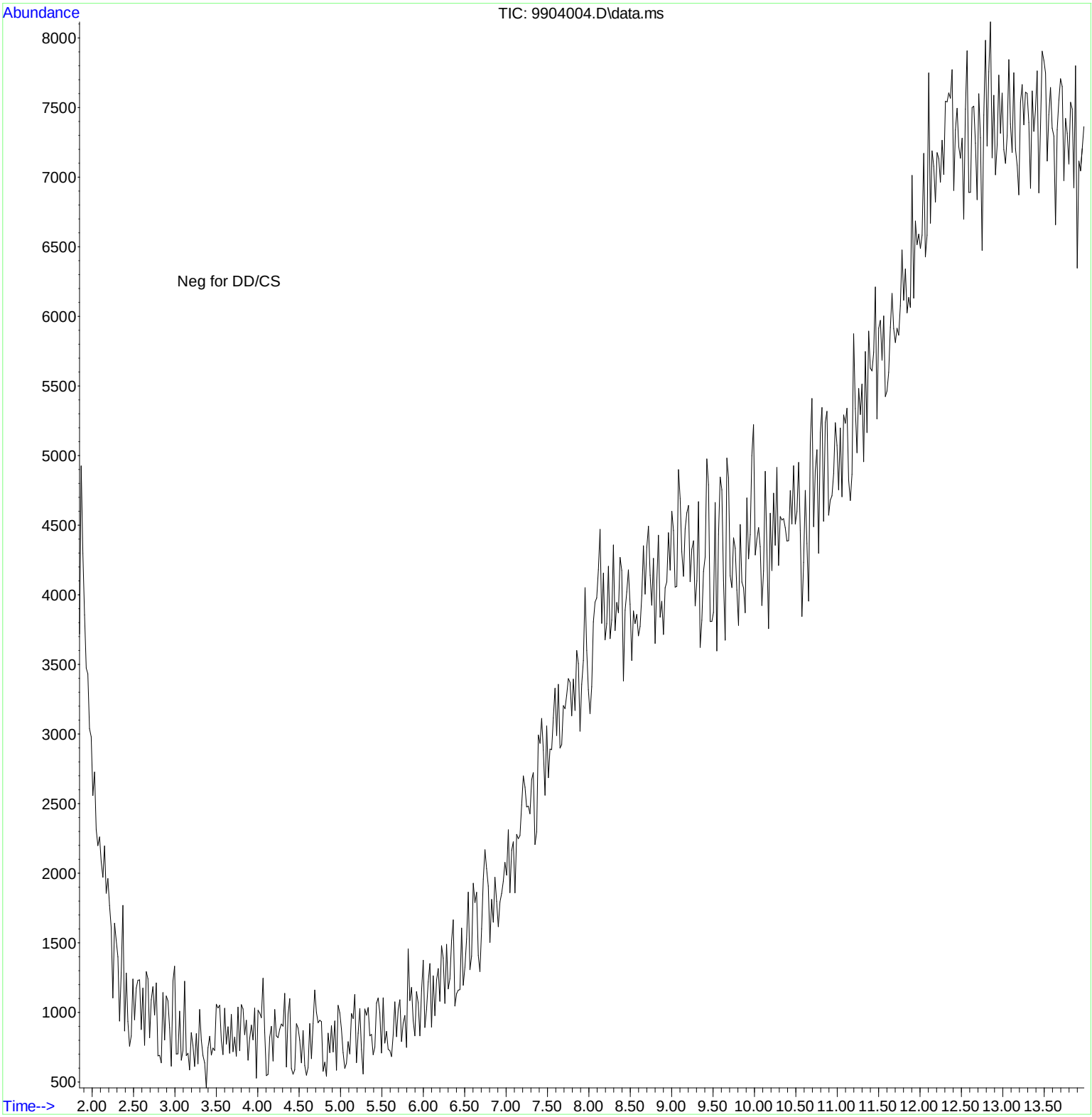


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Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 28 Apr 2025 11:30 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002665
Misc Info : In ACN





File :D:\GCMS1Data\Stds and Chemical Verification\Weekly Check Mix
... 2025\042825\9904004.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 28 Apr 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\042825\9901006.D
Operator : AGILENT SD GCMS #1
Instrument : SD GCMS 1
Acquired : 28 Apr 2025 11:48 using AcqMethod BCCL GENDRUG METHOD.M
Sample Name: BLANK - INSTRUMENT READY 000002664
Misc Info : ACN (C-19-0068)

