Brazoria County Crime Lab

Seized Drugs Section

GC-MS Maintenance Log

Instrument: GCMS-4 **Month/Year:** August 2025

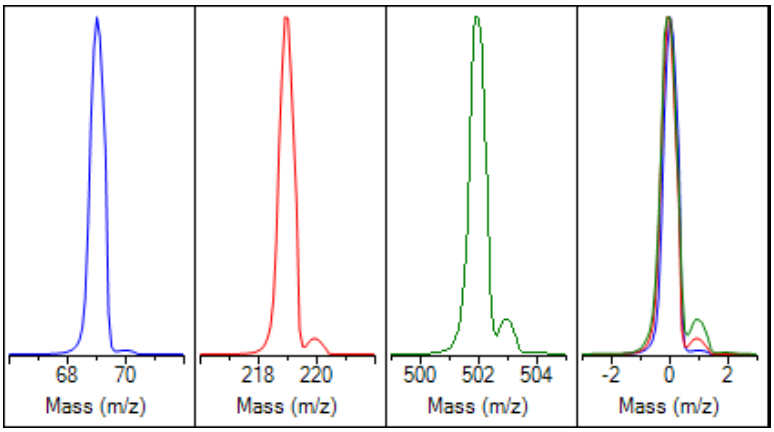
Entry Number	Date	He Tank Pressure	Autotune	Septum Change	Wash Vials Filled	Liner Change	Gold Seal Replaced	Column Cut	Computer Restarted	Maintenance/ PM	Analyst/ Technician	Comments	Initials
1	8/4/2025	650	Pass	N/A	✓	N/A	N/A	N/A	N/A	Maintenance	Analyst		KB
2	8/11/2025	2200	Pass	N/A	✓	N/A	N/A	N/A	N/A	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:** 10/02/2025

High Efficiency Source Autotune - 5977

Tune timestamp: 8/4/2025 6:46 AM (UTC-05:00) GCMS #4

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



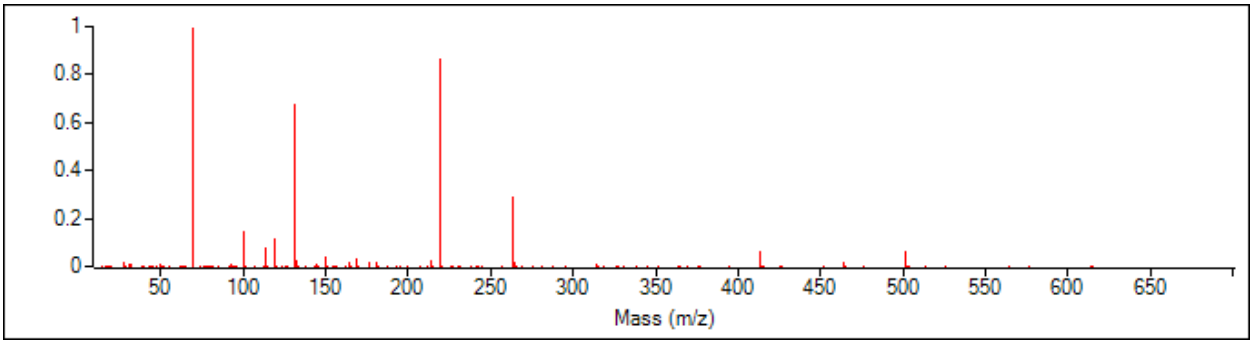
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	89
Electron Energy	70.0	Mass Offset	-28
Filament	1	Amu Gain	2443
Repeller	13.69	Amu Offset	138.06
Ion Focus	149.6	Width219	0.000
Entrance Lens	7.5	DC Polarity	Pos
Ent Lens Offset	18.23	HED Enable	On
Ion Body	4.75	EM Volts	1944.7
Post Extractor 1	12	Extractor Lens	12.20
Post Extractor 2	33	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	521,443	100.0%	0.59
218.90	455,660	87.4%	0.61
501.90	35,028	6.7%	0.65

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	7.70e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	133	69.00	482,752	1,820,561



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	482,752	100.0%	70.00	5,809	1.2%
219.00	219.00	419,968	87.0%	219.90	19,792	4.7%
502.00	502.00	30,792	6.4%	503.00	3,250	10.6%

Air/Water Check: H20 ~0.4% N2 ~1.7% O2 ~0.5% CO2 ~0.1% N2/H20 ~460.0%

Column(1) Flow: 0.70 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 128 volts using ion 502; Electron Multiplier Gain 13109.440

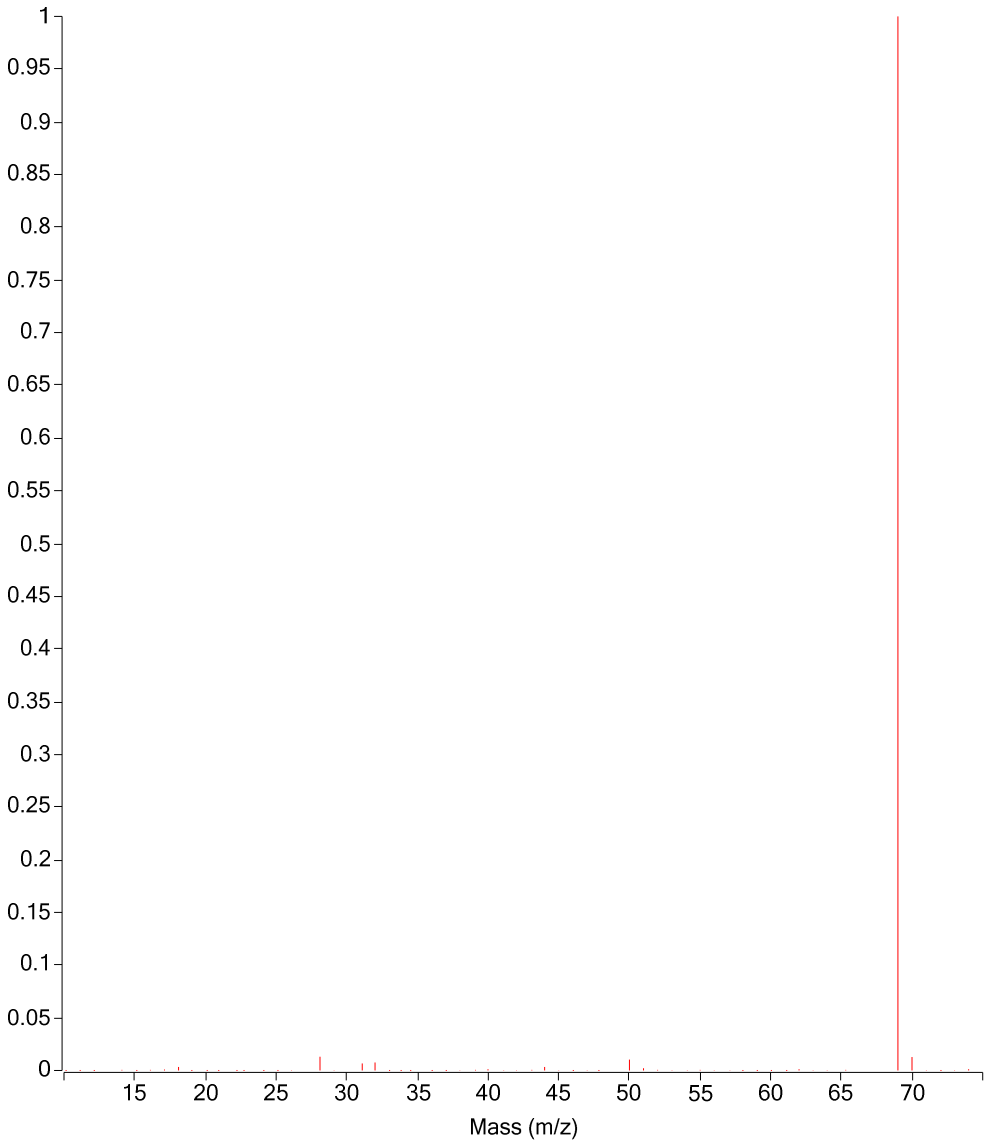
Repeller maximum 35 volts using ion 219; Gain Factor 0.1311

Mass Gain Values(Scan Speed): 94(3) 100(2) 102(1) 124(0) 176(FS1) 175(FS2) 164(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	138.1	138.1	138.1	138.1	138.1	138.1	138.1
Entrance Lens Offset	18.2	18.2	18.2	18.2	18.2	18.2	18.2

597x Air and Water Check

Instrument: GCMS #4
Mon Aug 04 06:35:08 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: HES_Atune.u

Relative abundances:

18/69 =	0.34	Water%	(counts=2762)
28/69 =	1.32	Nitrogen%	(counts=10634)
32/69 =	0.77	Oxygen%	(counts=6181)
44/69 =	0.33	Carbon Dioxide%	(counts=2678)
28/18 =	385.01	Nitrogen/Water%	

Instrument Name : GCMS #4
DC Polarity : Positive
Filament 1
Current Vacuum status :High Vacuum: 5.46E-06 Torr Turbo:100%

BasePeak should be 69 or 219		OK
Position of mass 69	69.00	OK
Position of mass 219	219.00	OK
Position of mass 502	502.00	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	219.98	OK
Position of isotope mass 503	503.00	OK
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.21	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.67	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.14	OK
Ratio of 219 to 69 should be > 40% and is	86.68	OK
Ratio of 502 to 69 should be > 2.4% and is	6.63	OK
Mass 69 Precursor (<= 3%)	0.78	OK
Mass 219 Precursor (<= 6%)	2.71	OK
Mass 502 Precursor (<= 12%)	3.79	OK

597x Air and Water Check
Mon Aug 04 06:56:30 2025 Instrument: GCMS #4
D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002

Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	0.35	OK
Ratio of 28 to 69 (<10%)	1.68	OK
Electron Multiplier Voltage	1945	OK

Tune portion of System Verification passed.

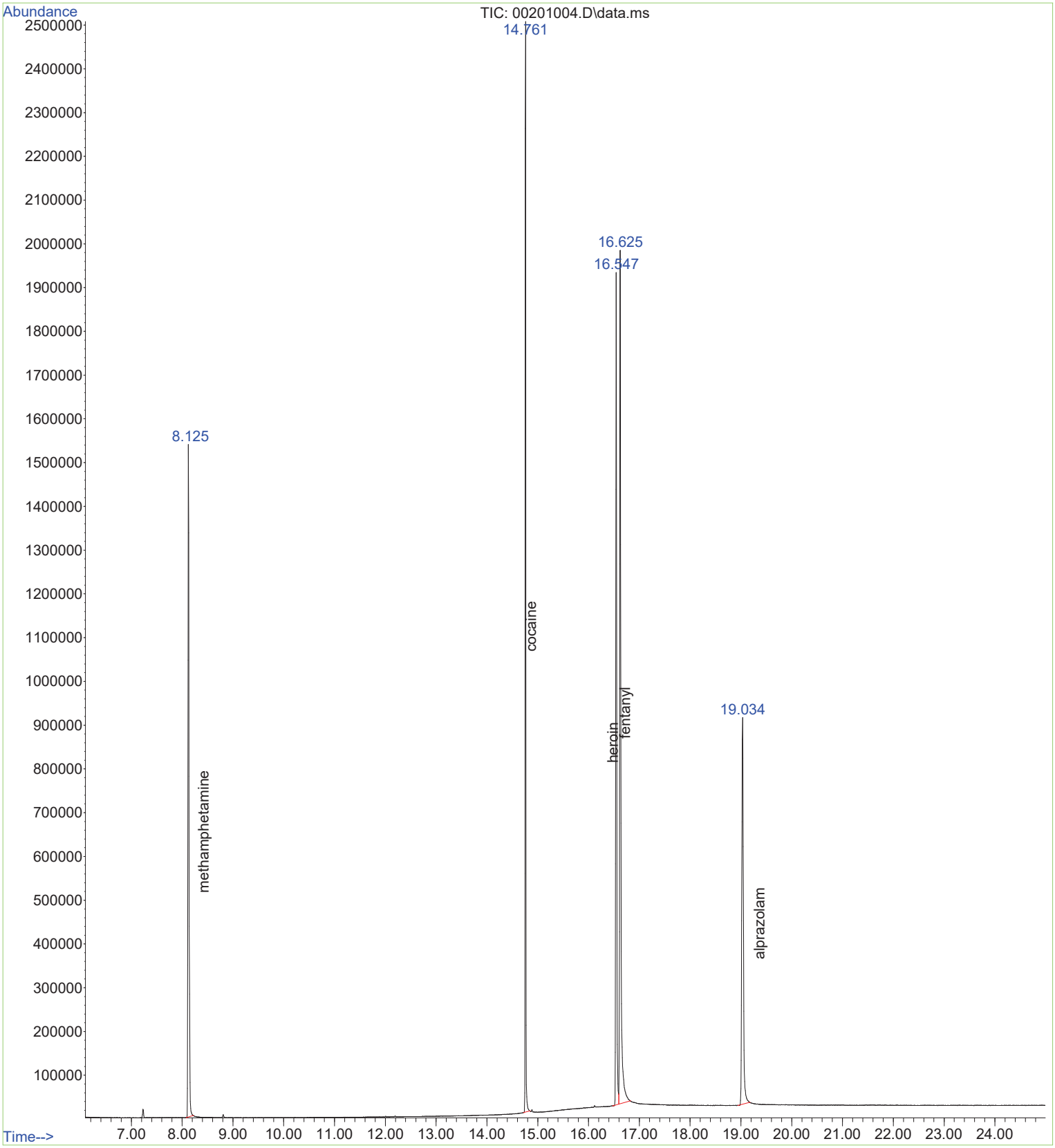
BCCL GC/MS #4
Retention Times for the Week of:

08/04/2025 - 08/10/2025

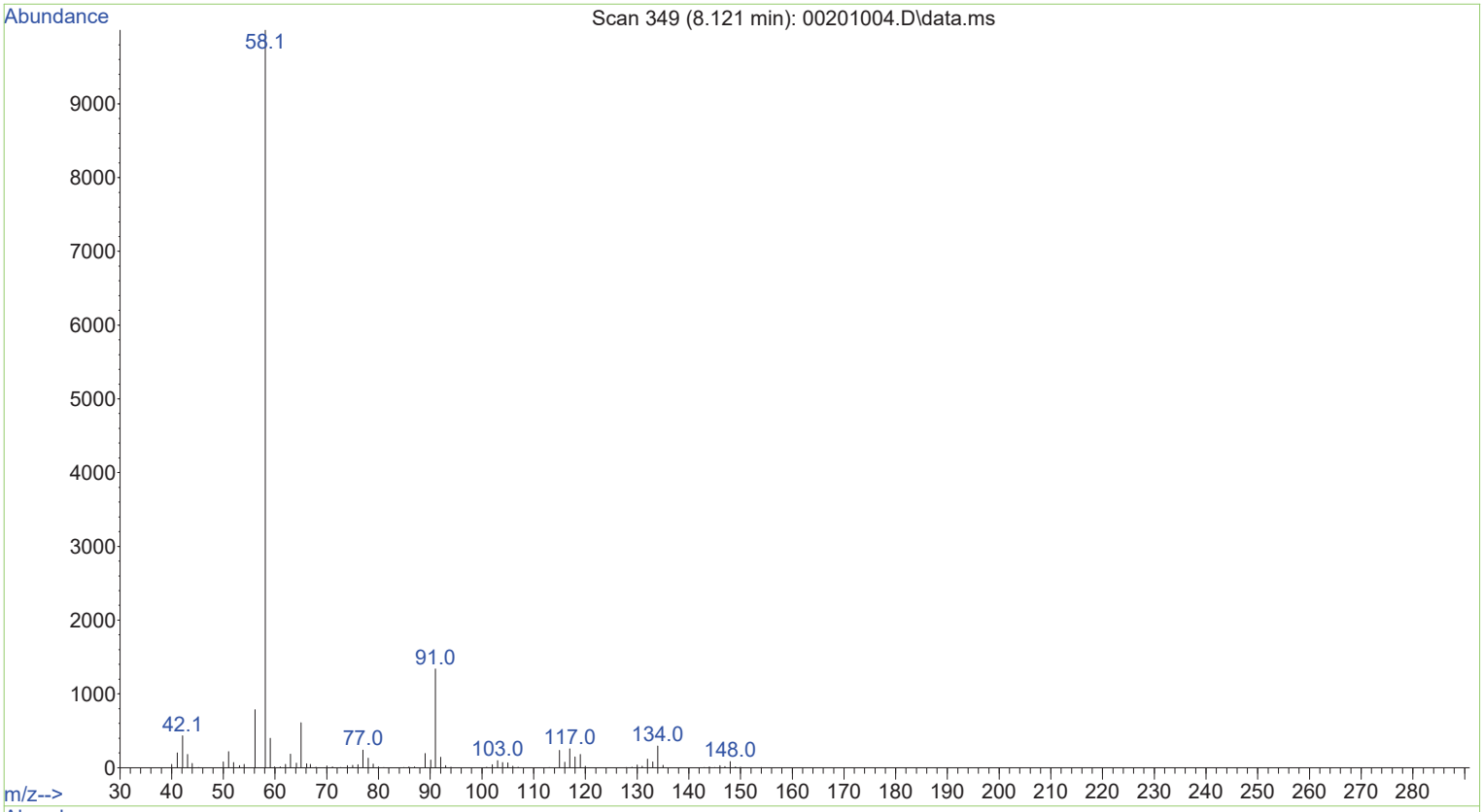
[X] **Tune: KB 08/04/2025 - HES Autotune**

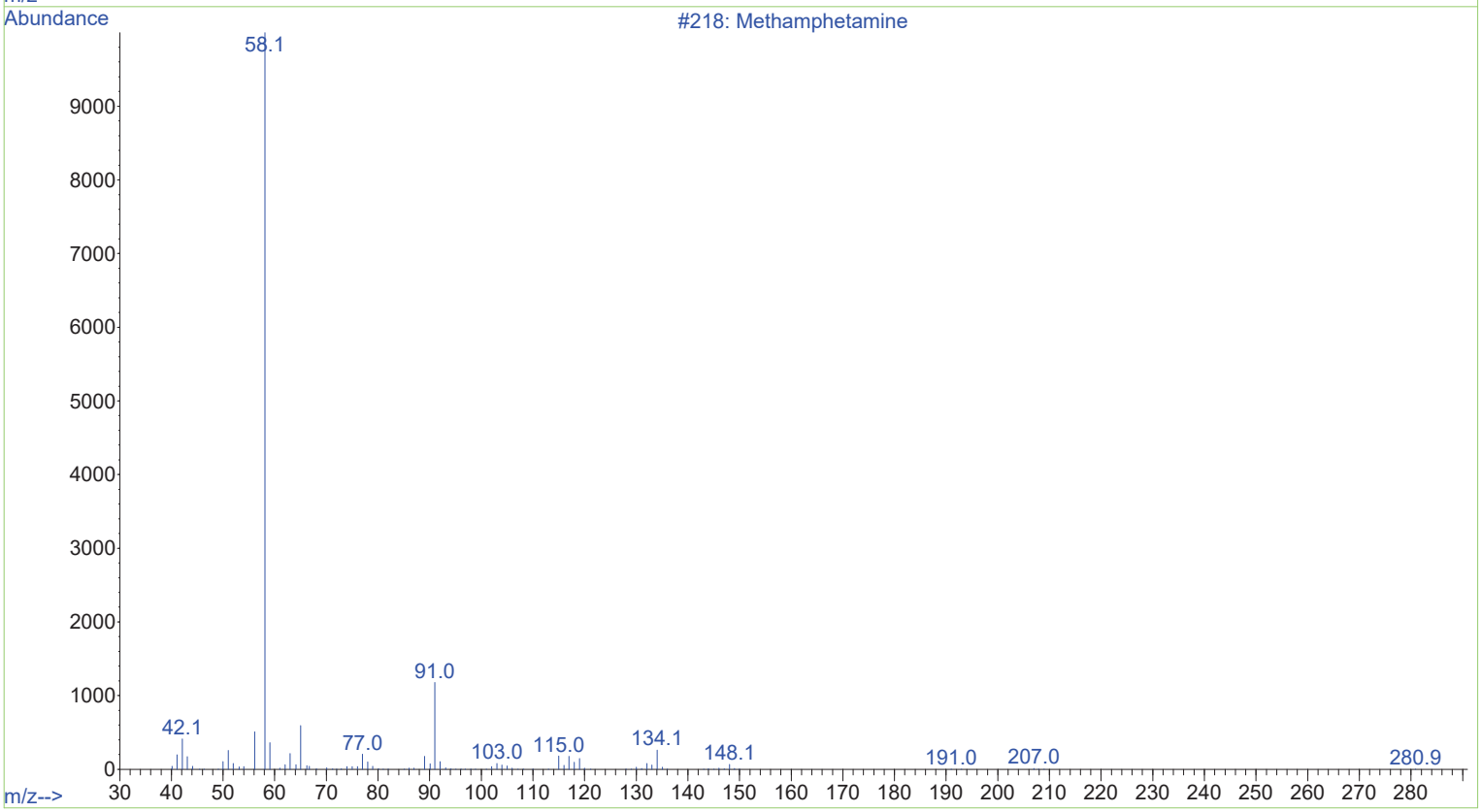
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35MS	8.125	8.043	8.206
Cocaine	R-24-060	DrugTest35MS	14.761	14.613	14.908
Heroin	R-24-060	DrugTest35MS	16.547	16.381	16.712
Fentanyl	R-24-060	DrugTest35MS	16.625	16.458	16.791
Alprazolam	R-24-060	DrugTest35MS	19.034	18.843	19.224

File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\080425\00201004.D
Acquired : 04 Aug 2025 08:18 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2

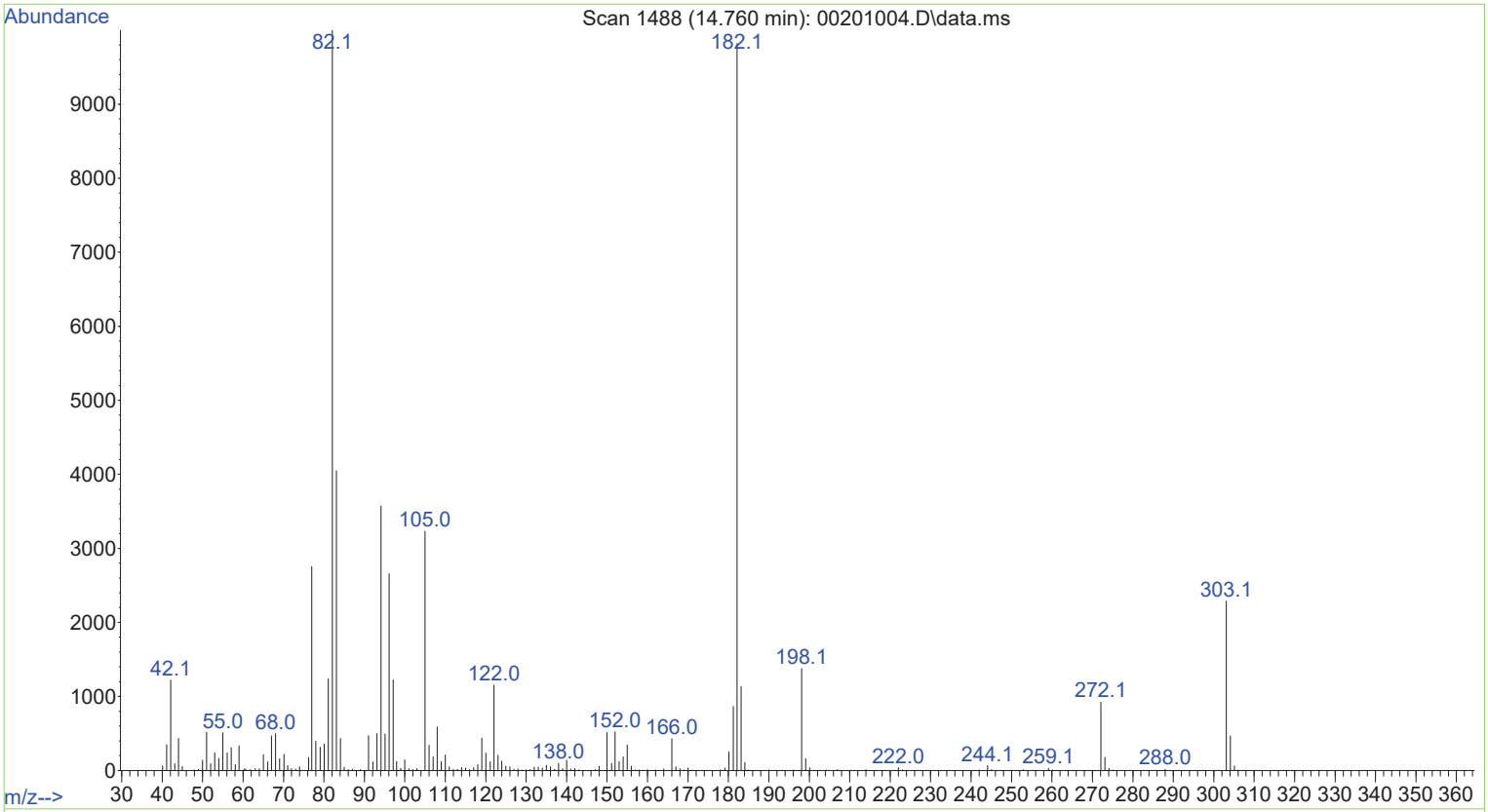


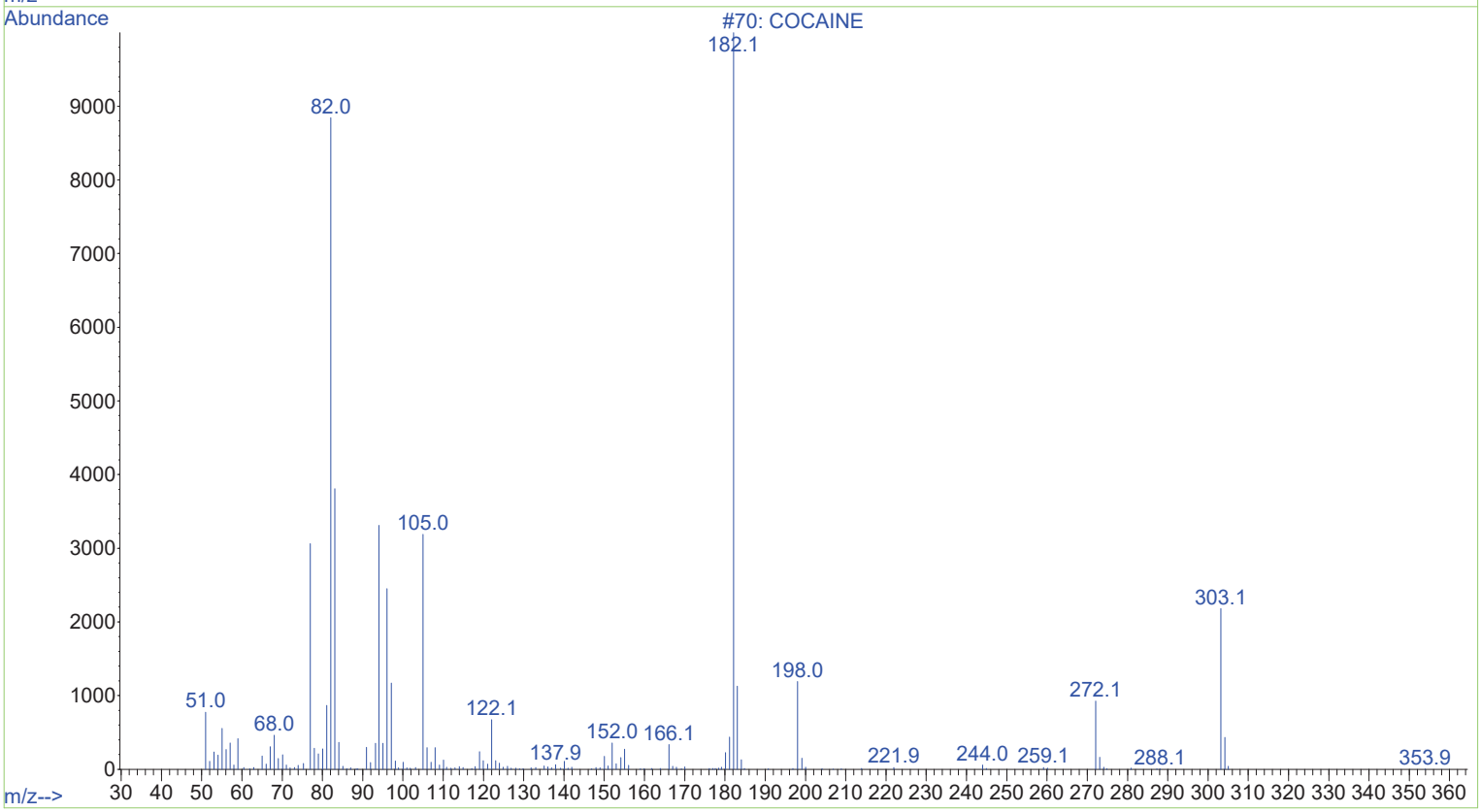
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Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



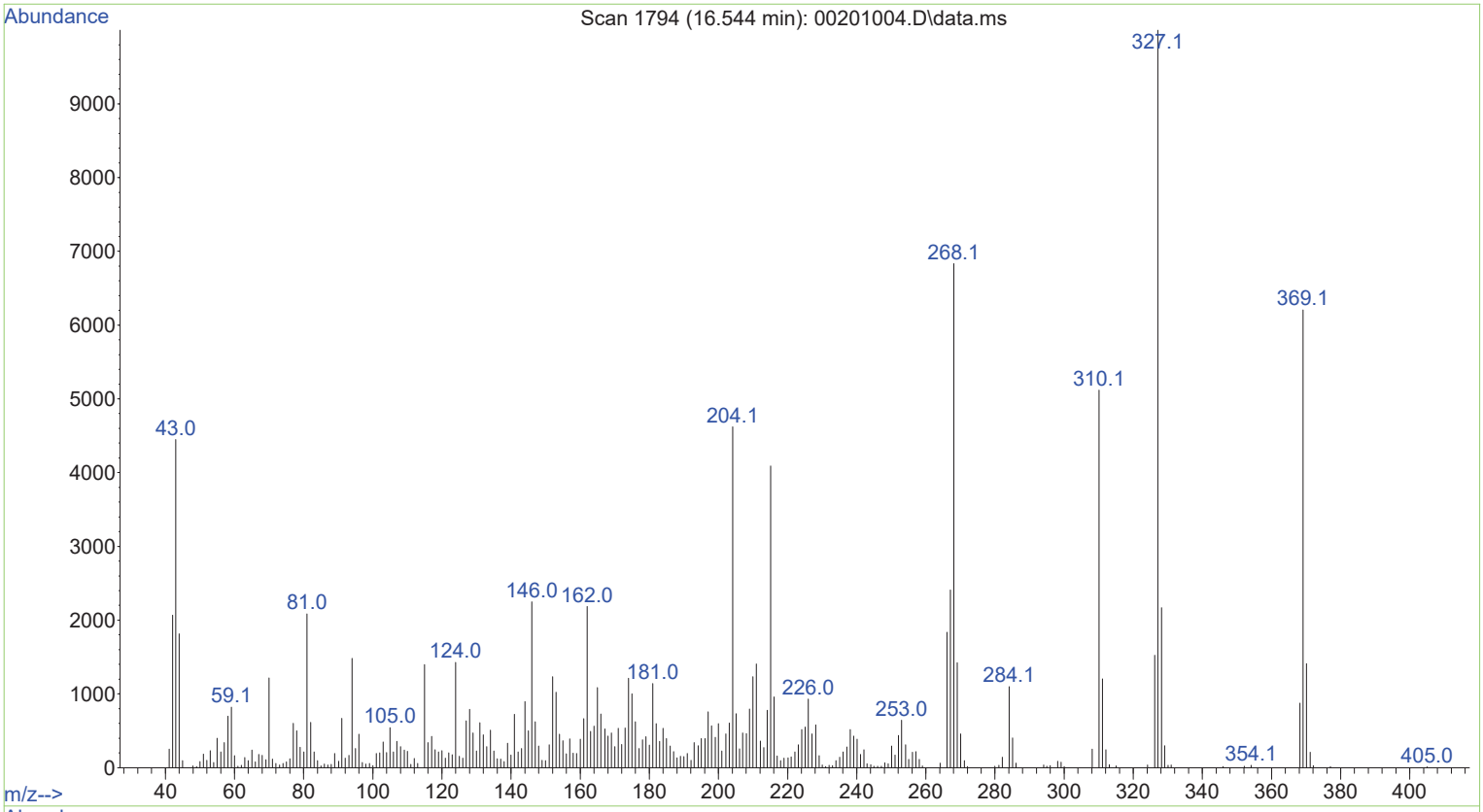


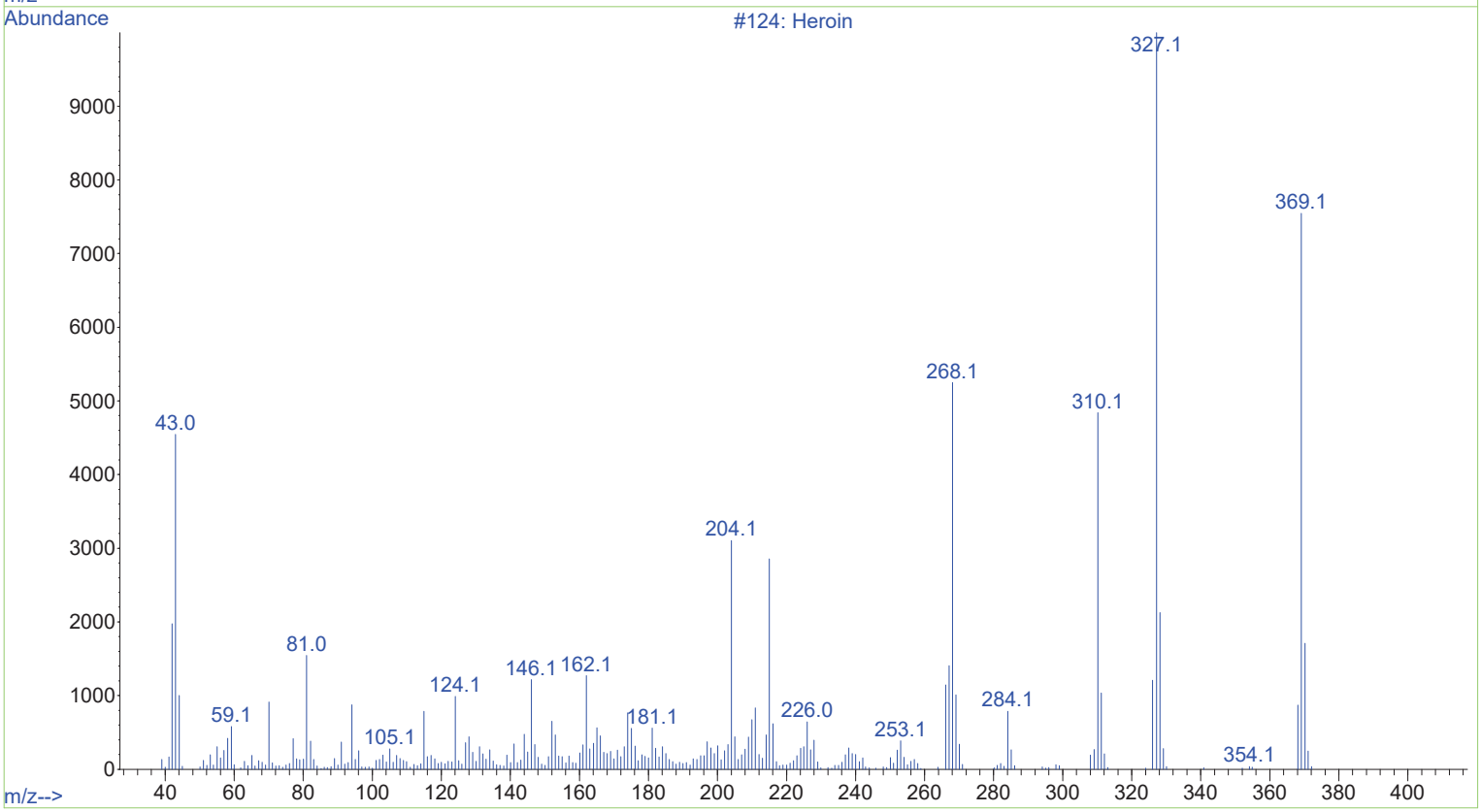
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Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



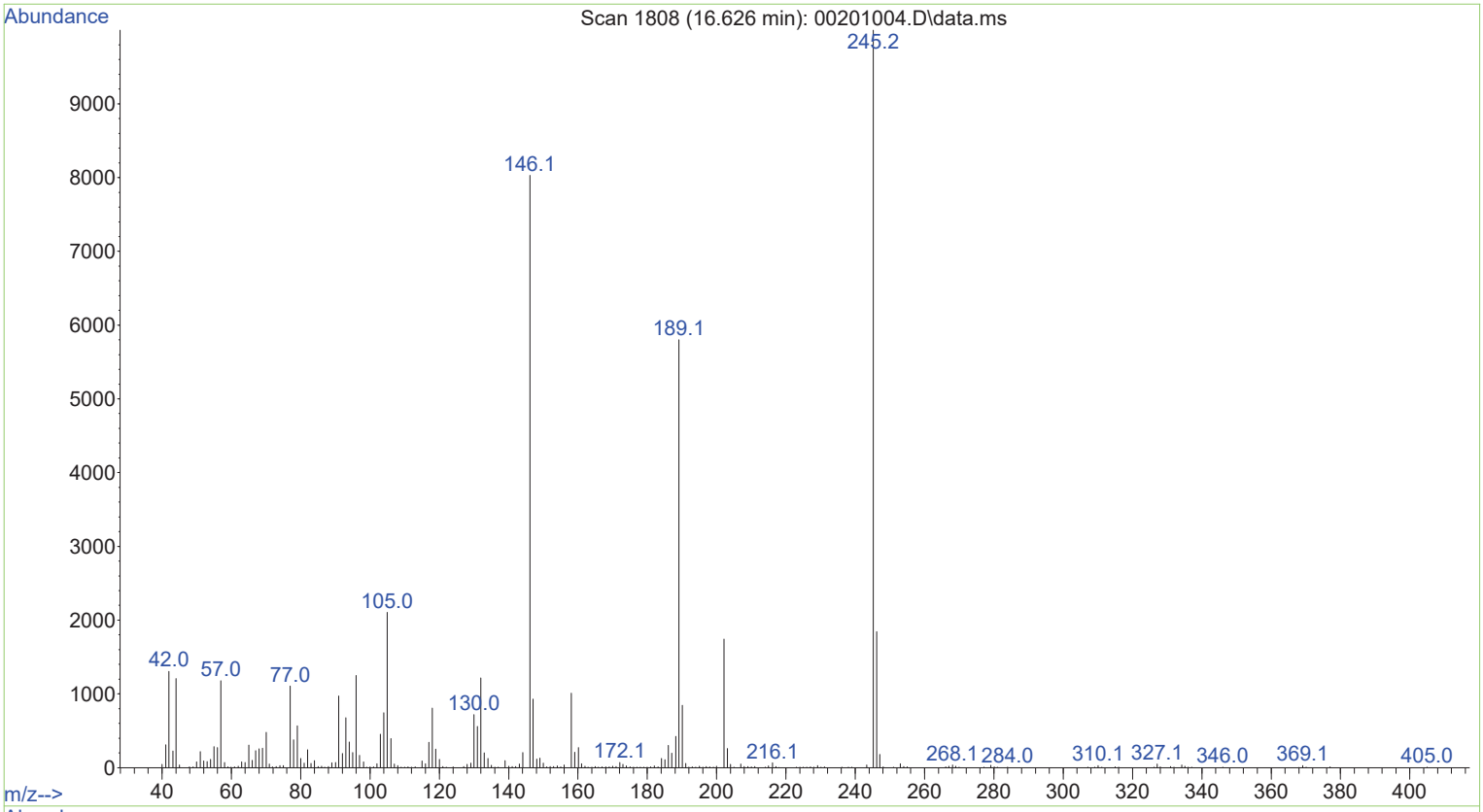


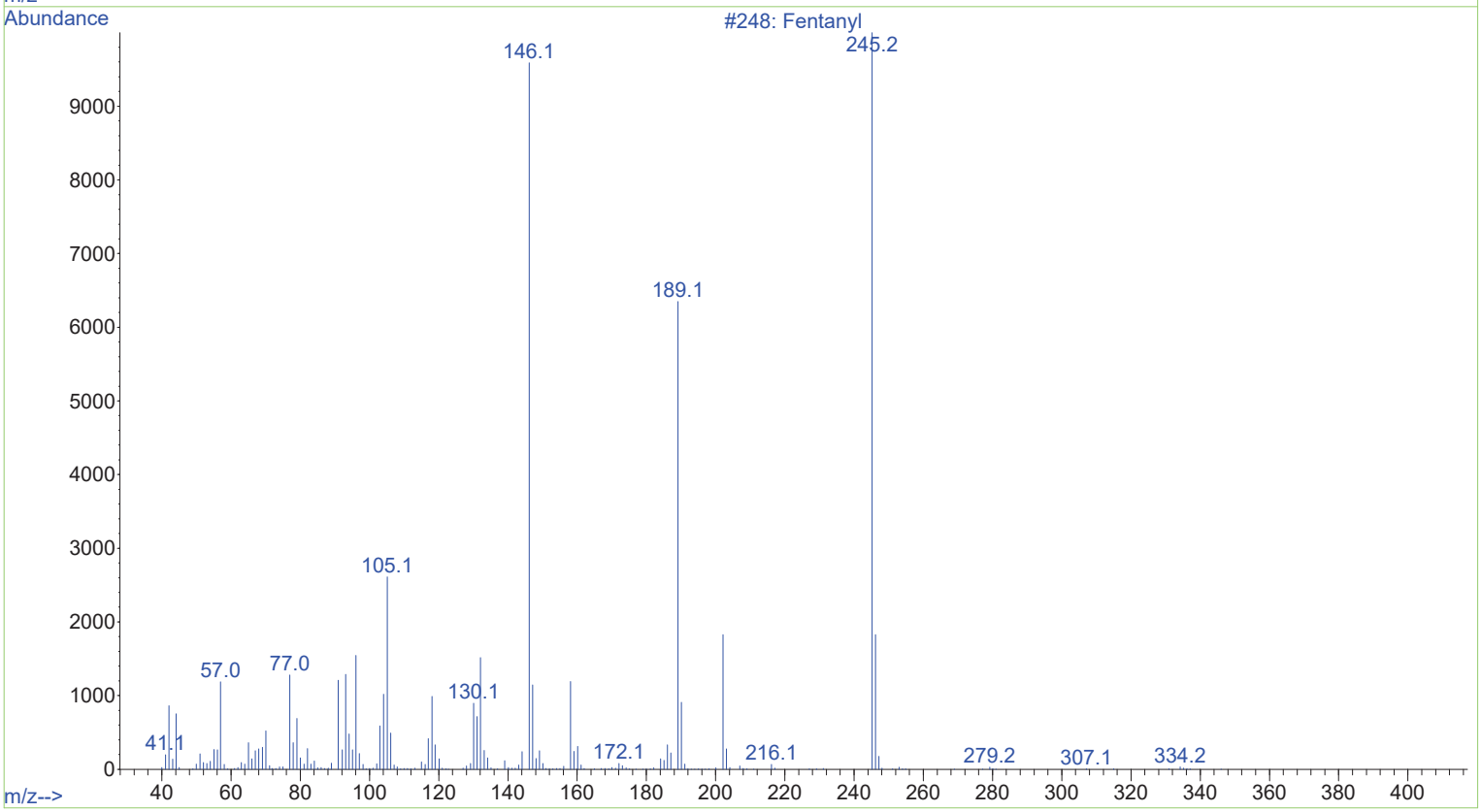
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Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



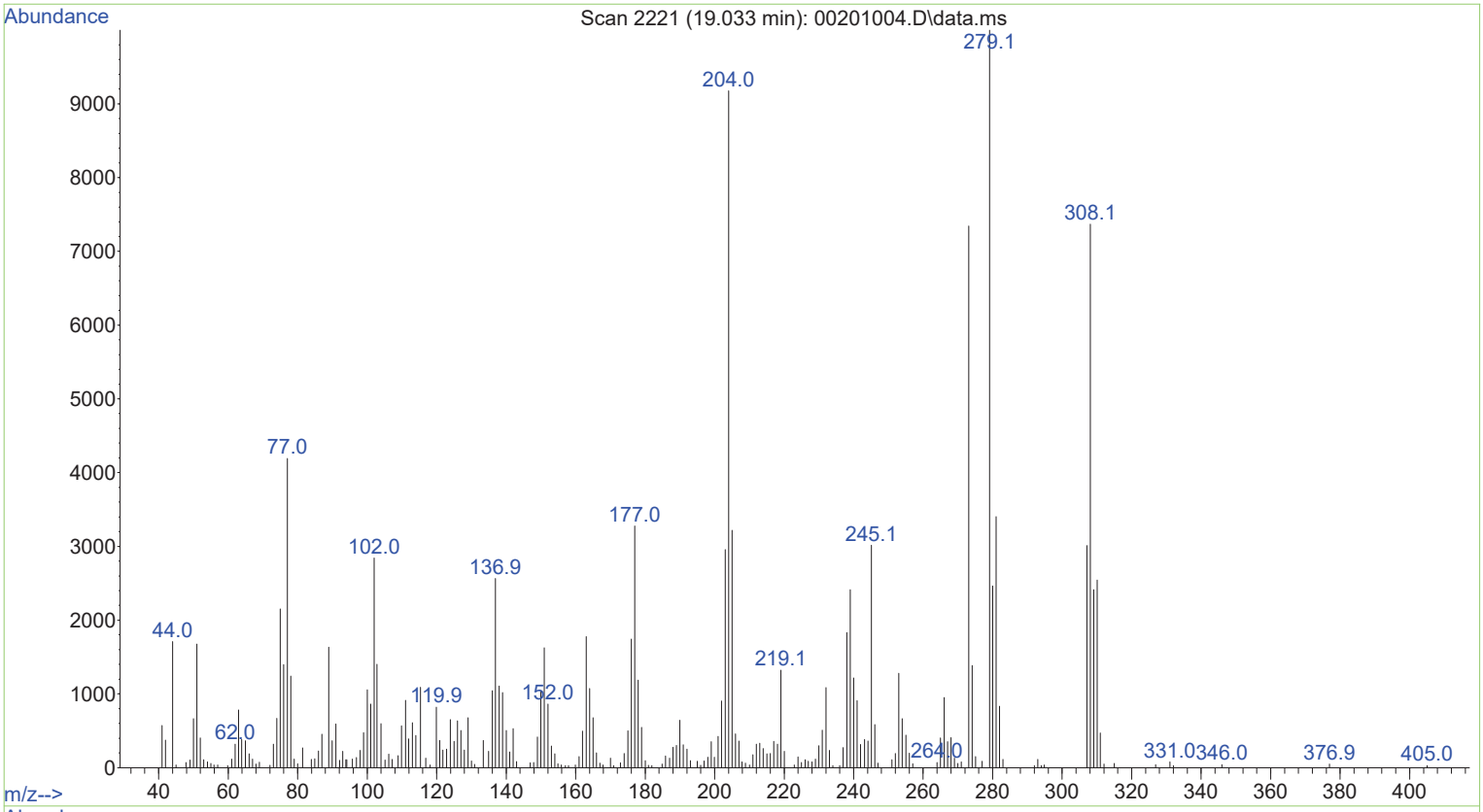


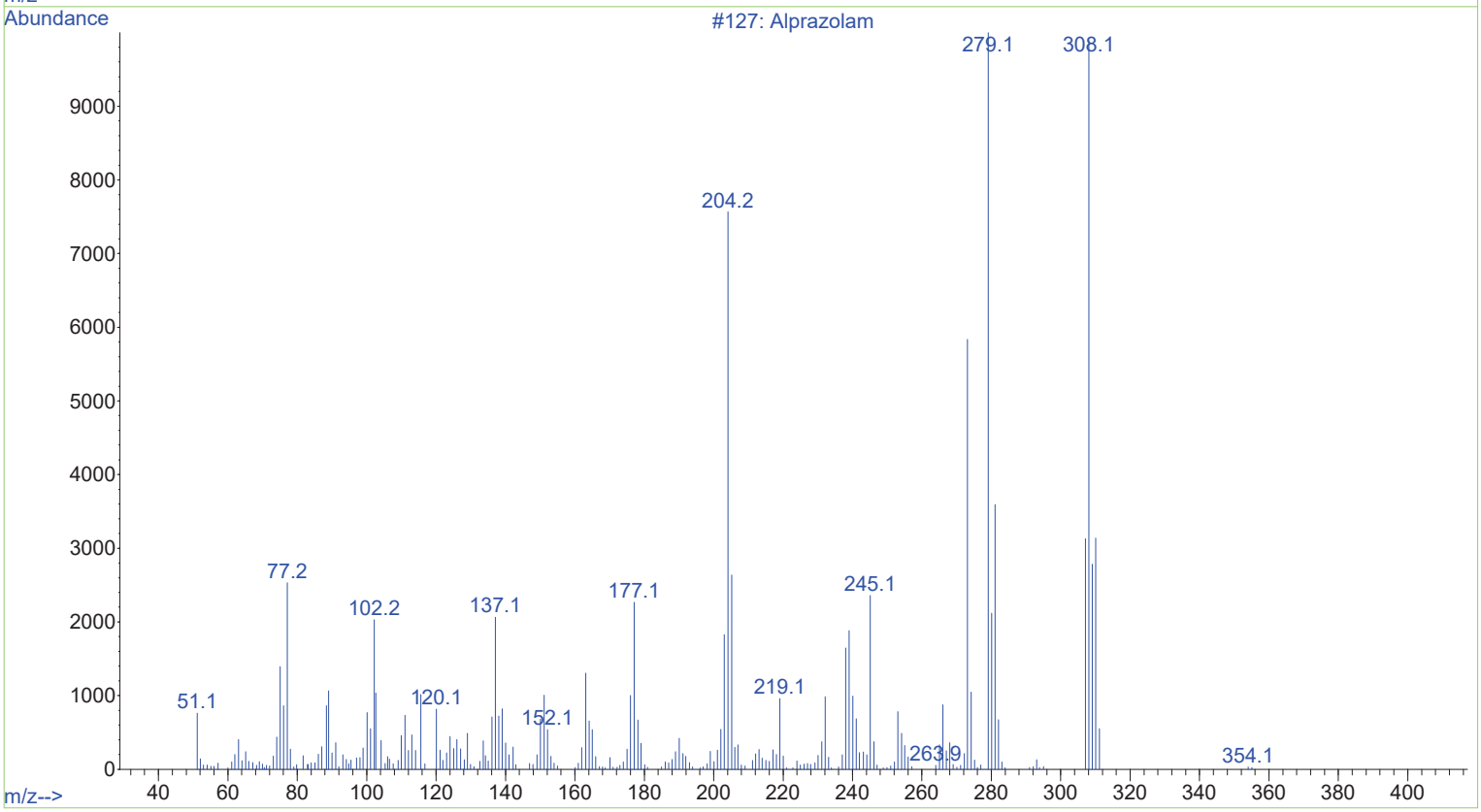
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Acquired : 04 Aug 2025 08:18 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



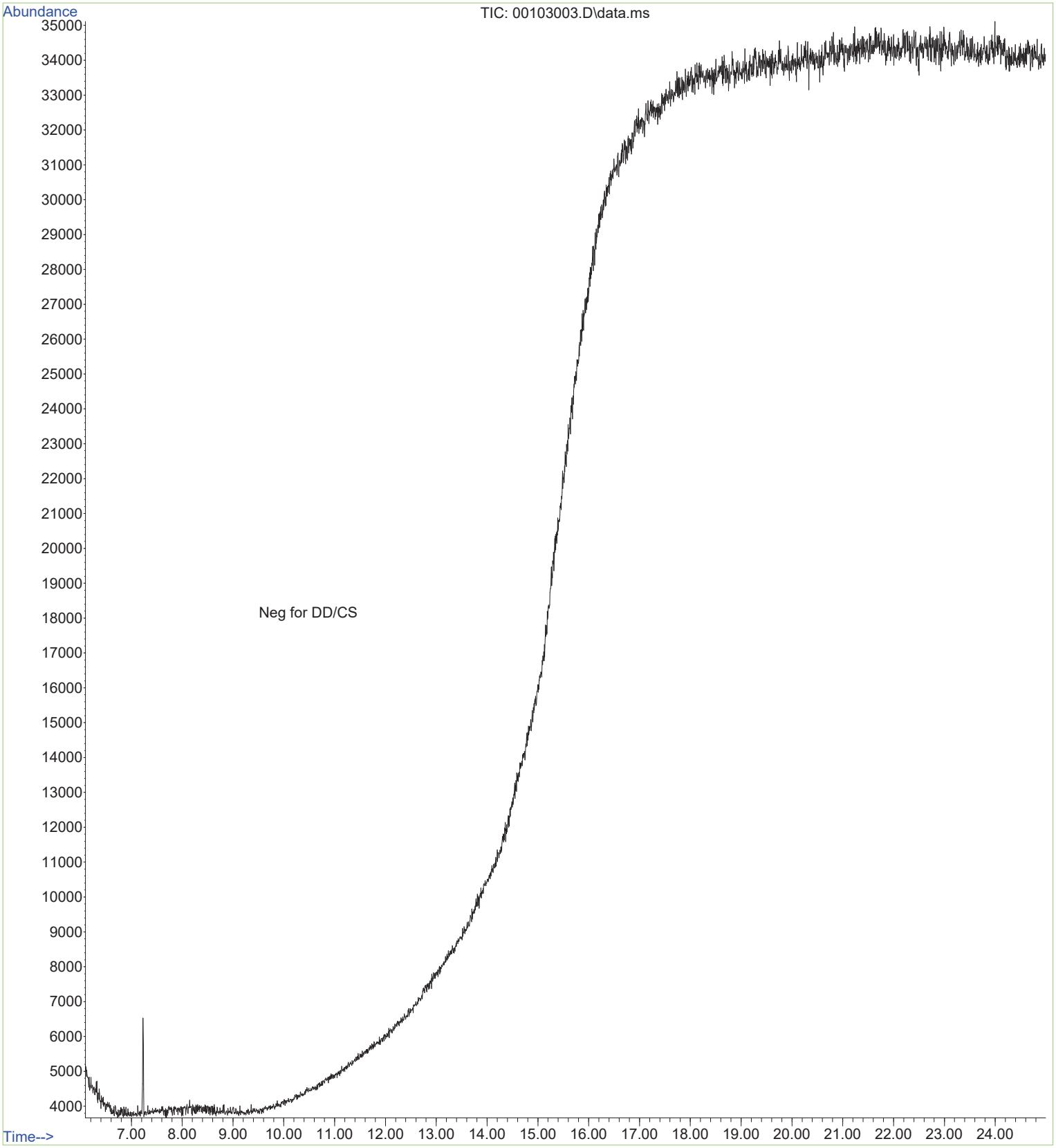


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...         2025 Data\080425\00201004.D
Acquired   : 04 Aug 2025  08:18     using AcqMethod DrugTest35MS.M
Instrument :   GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060)                  000002669
Misc Info  : in ACN                                         000002669
Vial Number: 2
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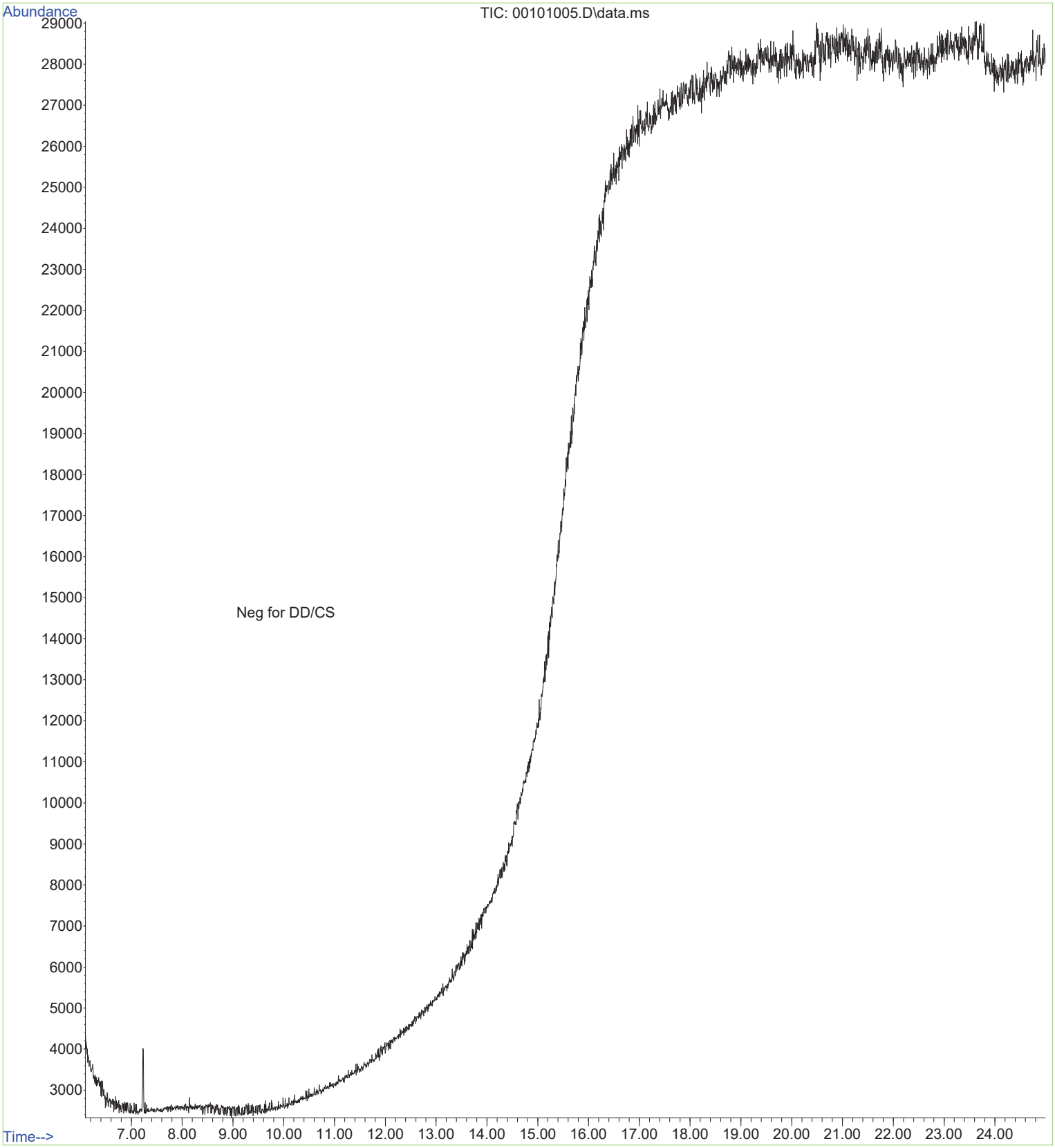




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... 2025 Data\080425\00103003.D
Acquired : 04 Aug 2025 07:49 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: BLANK (C-19-0068) prior to Cayman GC/MS mix 3 (R-24-060) 000002668
Misc Info : ACN 000002668
Vial Number: 1



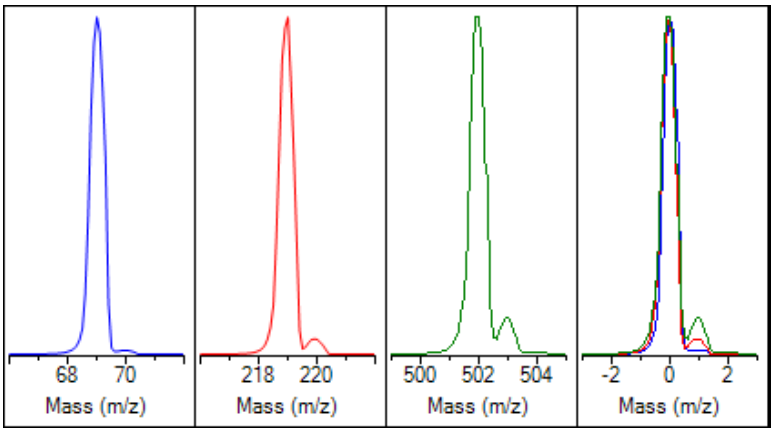
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Acquired : 04 Aug 2025 08:47 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Blank (C-19-0068) - Instrument ready 000002668
Misc Info : ACN 000002668
Vial Number: 1



High Efficiency Source Autotune - 5977

Tune timestamp: 8/11/2025 8:52 AM (UTC-05:00) GCMS #4

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



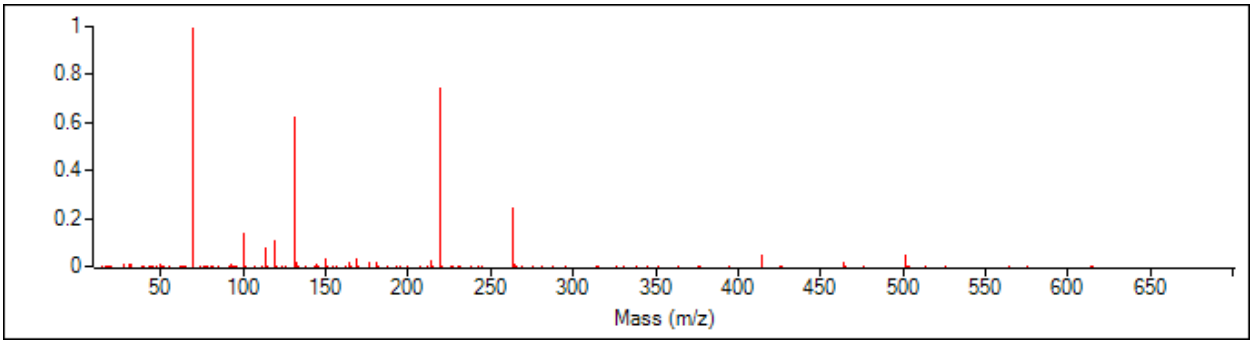
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	88
Electron Energy	70.0	Mass Offset	-28
Filament	1	Amu Gain	2457
Repeller	13.33	Amu Offset	137.31
Ion Focus	149.6	Width219	0.000
Entrance Lens	12.6	DC Polarity	Pos
Ent Lens Offset	18.93	HED Enable	On
Ion Body	4.75	EM Volts	1943.8
Post Extractor 1	17	Extractor Lens	11.50
Post Extractor 2	20	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	473,929	100.0%	0.59
219.00	366,911	77.4%	0.58
501.90	25,319	5.3%	0.65

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	7.66e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	122	69.00	441,408	1,524,549



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	441,408	100.0%	70.00	5,305	1.2%
219.00	218.90	329,472	74.6%	219.90	15,588	4.7%
502.00	501.90	21,680	4.9%	503.00	2,214	10.2%

Air/Water Check: H20 ~0.4% N2 ~1.4% O2 ~0.4% CO2 ~0.1% N2/H20 ~393.9%

Column(1) Flow: 0.70 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 128 volts using ion 502; Electron Multiplier Gain 14281.150

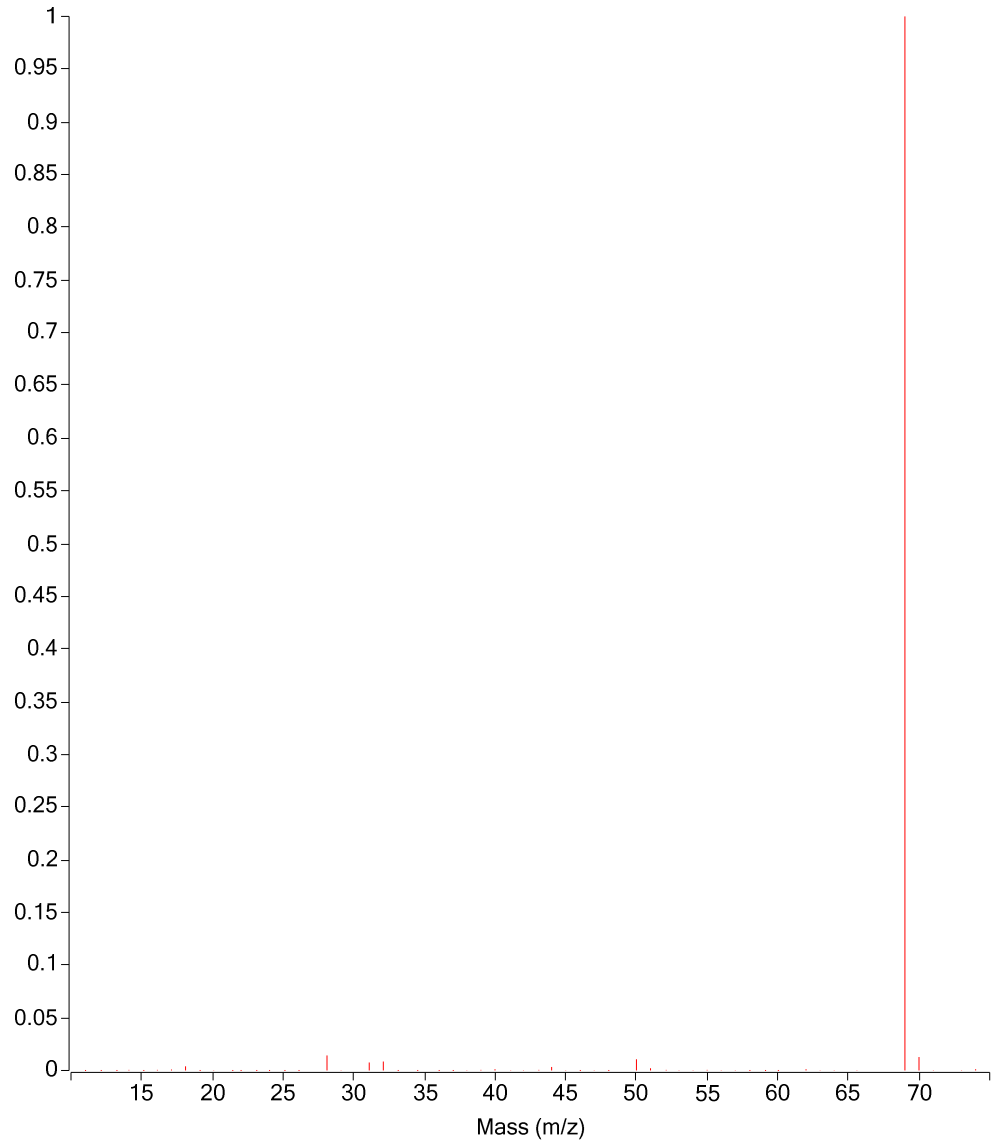
Repeller maximum 35 volts using ion 219; Gain Factor 0.1428

Mass Gain Values(Scan Speed): 90(3) 102(2) 102(1) 123(0) 176(FS1) 175(FS2) 142(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	137.3	137.3	137.3	137.3	137.3	137.3	137.3
Entrance Lens Offset	18.9	18.9	18.9	18.9	18.9	18.9	18.9

597x Air and Water Check

Instrument: GCMS #4
Mon Aug 11 08:41:24 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: HES_Atune.u

Relative abundances:

18/69 =	0.39	Water%	(counts=3238)
28/69 =	1.41	Nitrogen%	(counts=11588)
32/69 =	0.85	Oxygen%	(counts=7009)
44/69 =	0.33	Carbon Dioxide%	(counts=2697)
28/18 =	357.88	Nitrogen/Water%	

Instrument Name : GCMS #4
DC Polarity : Positive
Filament 1
Current Vacuum status :High Vacuum: 5.43E-06 Torr Turbo:100%

BasePeak should be 69 or 219		OK
Position of mass 69	69.00	OK
Position of mass 219	218.98	OK
Position of mass 502	501.99	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	219.91	OK
Position of isotope mass 503	502.99	OK
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.20	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.80	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	9.97	OK
Ratio of 219 to 69 should be > 40% and is	77.11	OK
Ratio of 502 to 69 should be > 2.4% and is	5.50	OK
Mass 69 Precursor (<= 3%)	0.78	OK
Mass 219 Precursor (<= 6%)	2.47	OK
Mass 502 Precursor (<= 12%)	3.62	OK

597x Air and Water Check
Mon Aug 11 09:00:44 2025 Instrument: GCMS #4
D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002

Testing for a leak in the system

Ratio of 18 to 69 (<20%)	0.36	OK
Ratio of 28 to 69 (<10%)	1.42	OK
Electron Multiplier Voltage	1944	OK

Tune portion of System Verification passed.

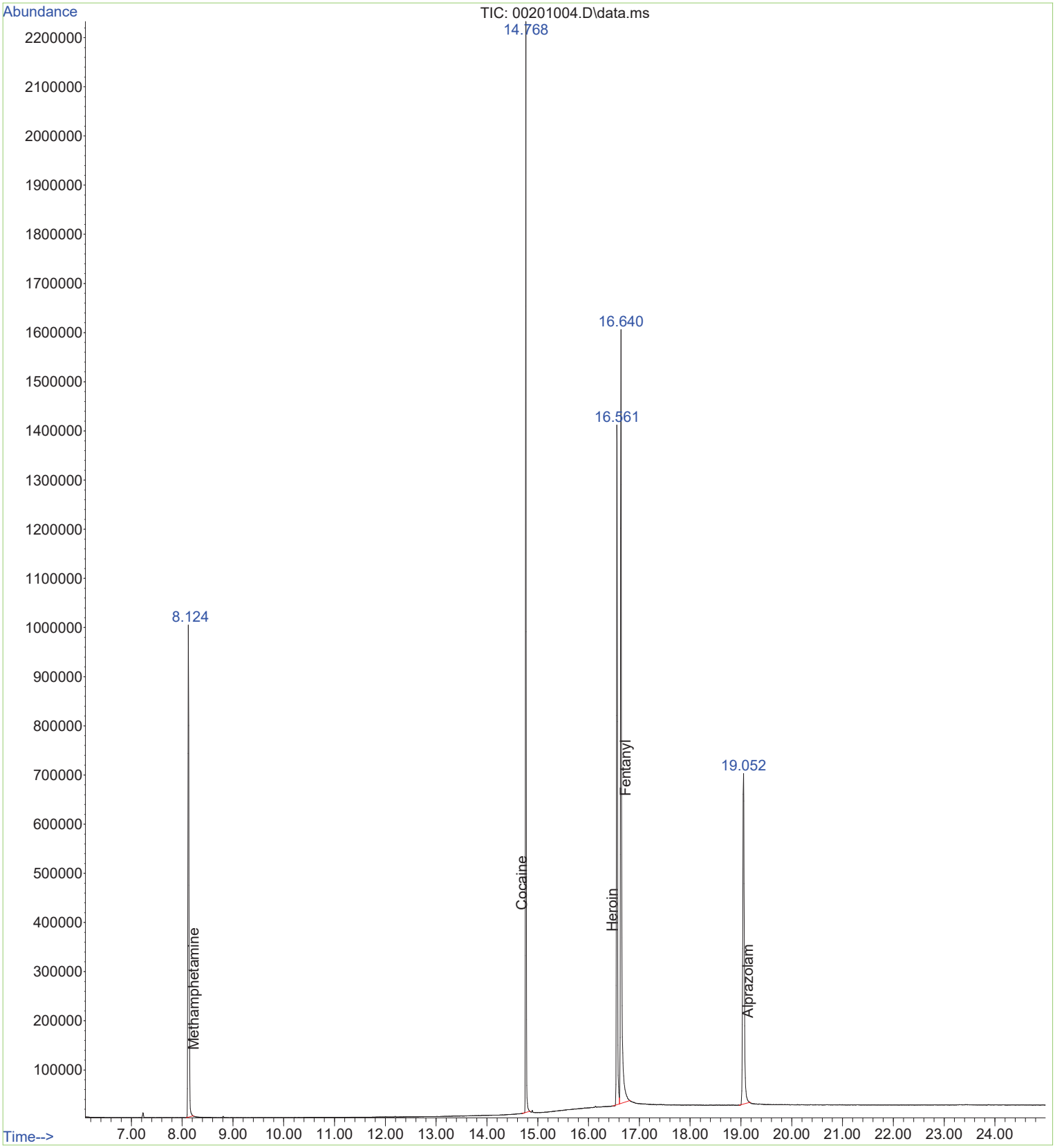
BCCL GC/MS #4
Retention Times for the Week of:

08/11/2025 - 08/17/2025

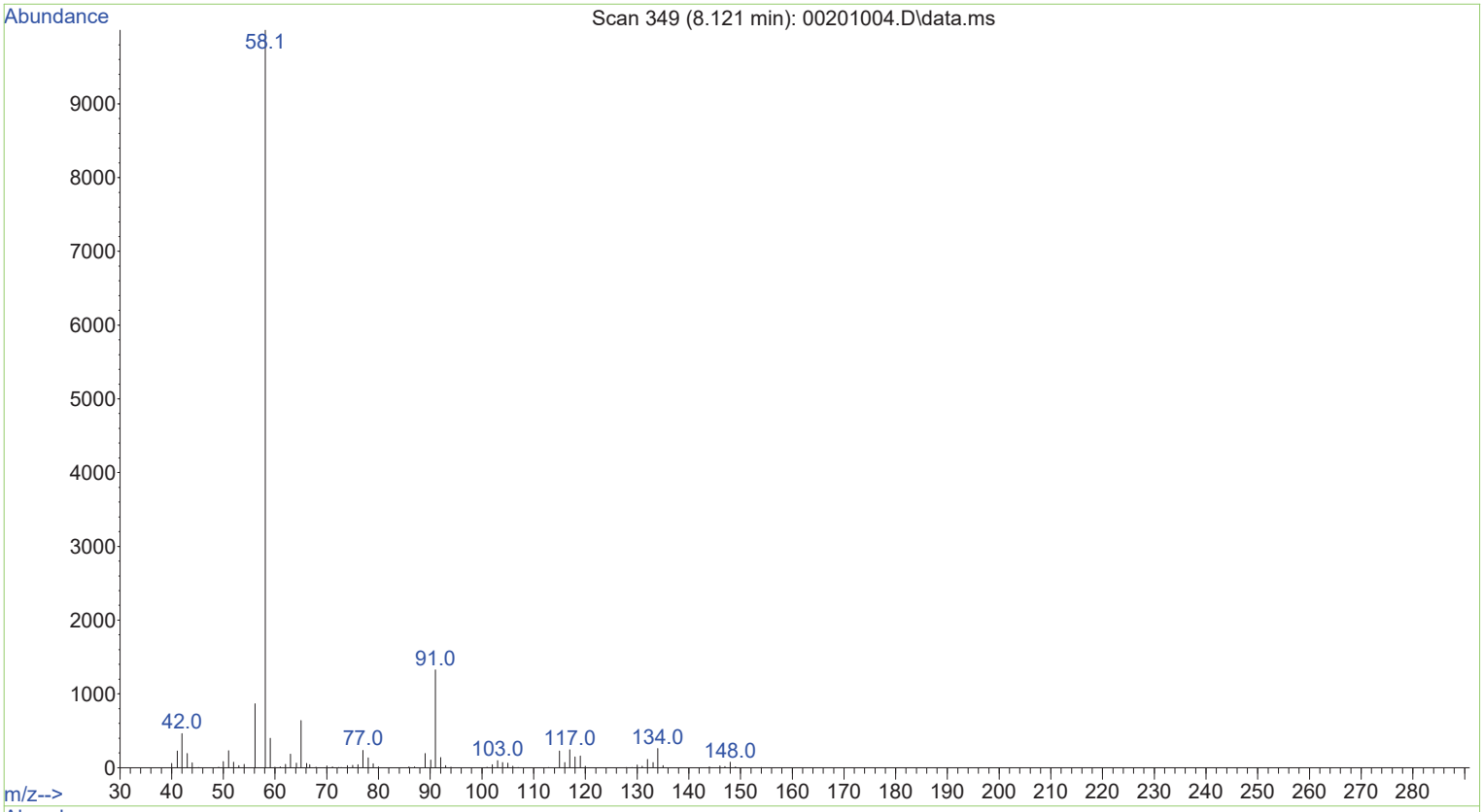
[X] **Tune: _DS_ 08/11/2025 - HES_Autotune**

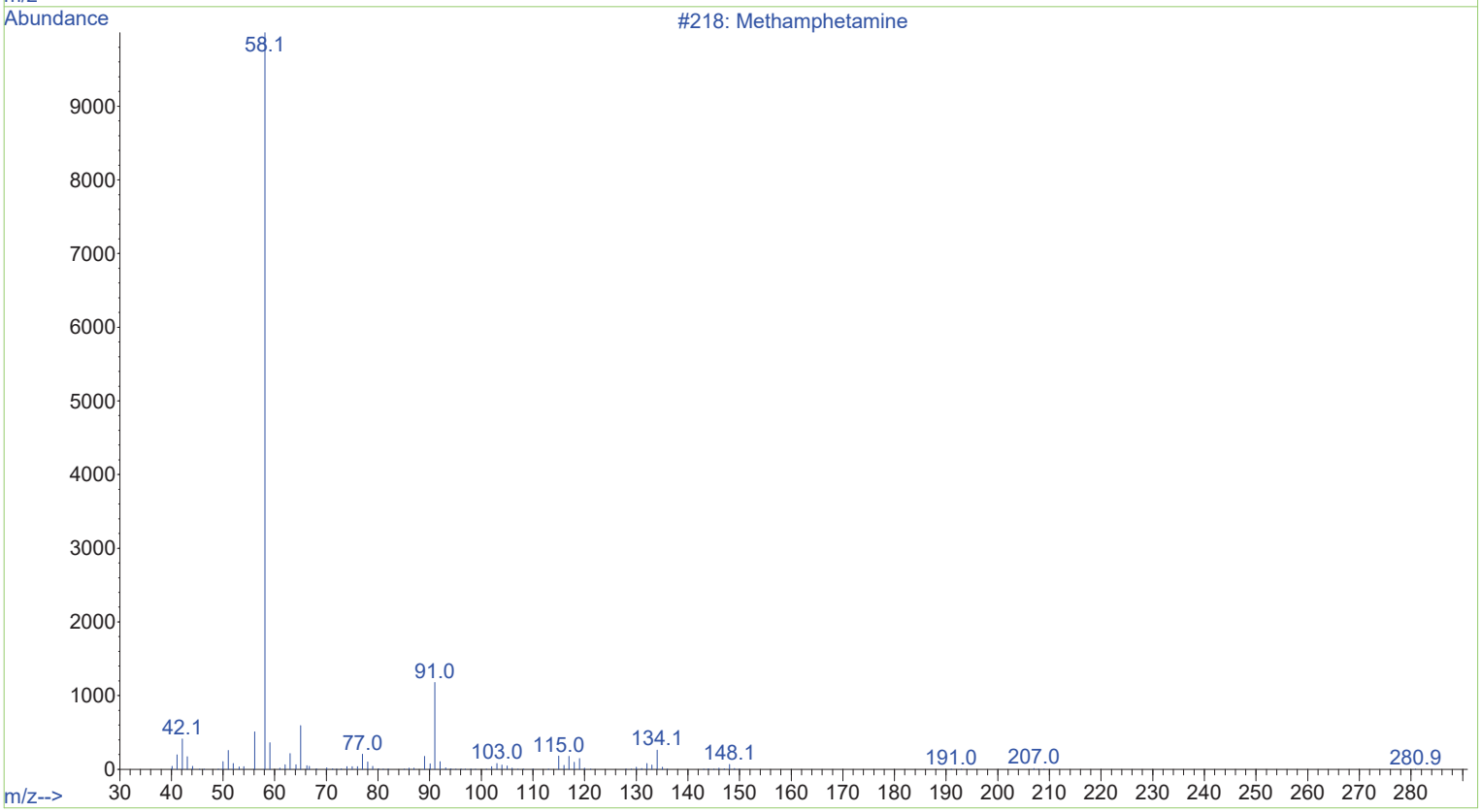
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35MS	8.124	8.042	8.205
Cocaine	R-24-060	DrugTest35MS	14.768	14.620	14.915
Heroin	R-24-060	DrugTest35MS	16.561	16.395	16.726
Fentanyl	R-24-060	DrugTest35MS	16.640	16.473	16.806
Alprazolam	R-24-060	DrugTest35MS	19.052	18.861	19.242
delta-9 THC	R-24-025	DrugTest35MS	15.444	15.289	15.598

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... 2025 Data\081125\00201004.D
Acquired : 11 Aug 2025 10:21 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2

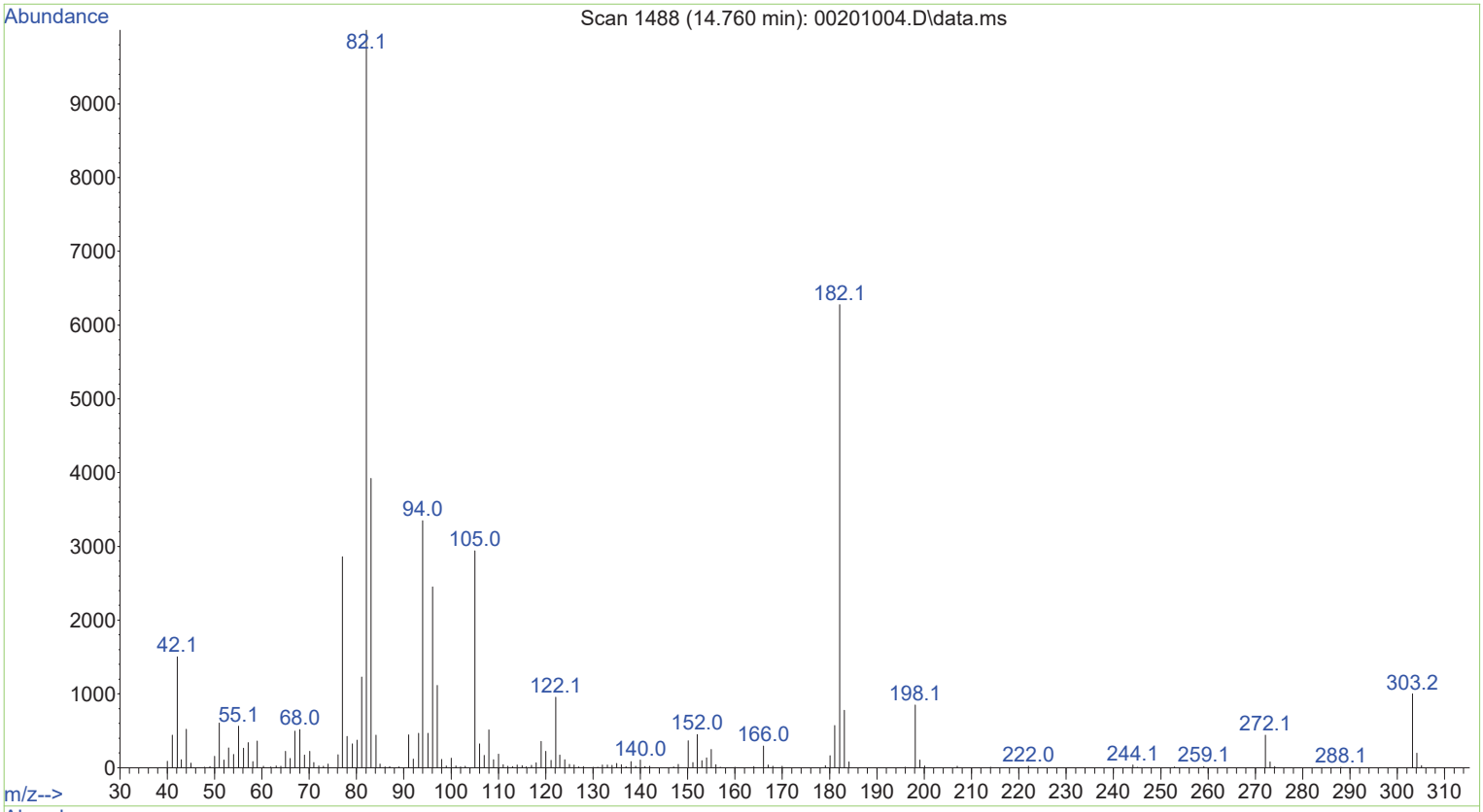


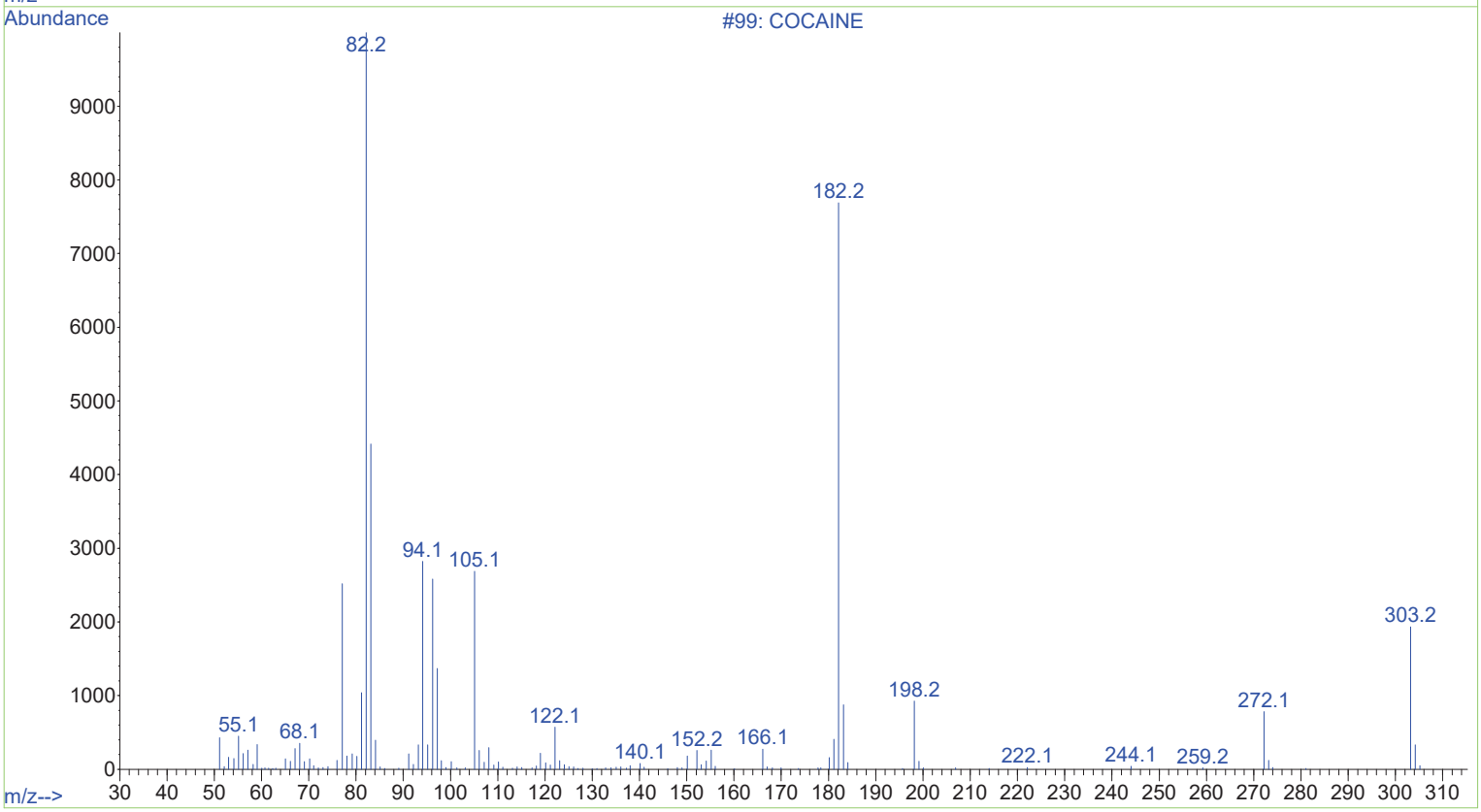
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... 2025 Data\081125\00201004.D
Acquired : 11 Aug 2025 10:21 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



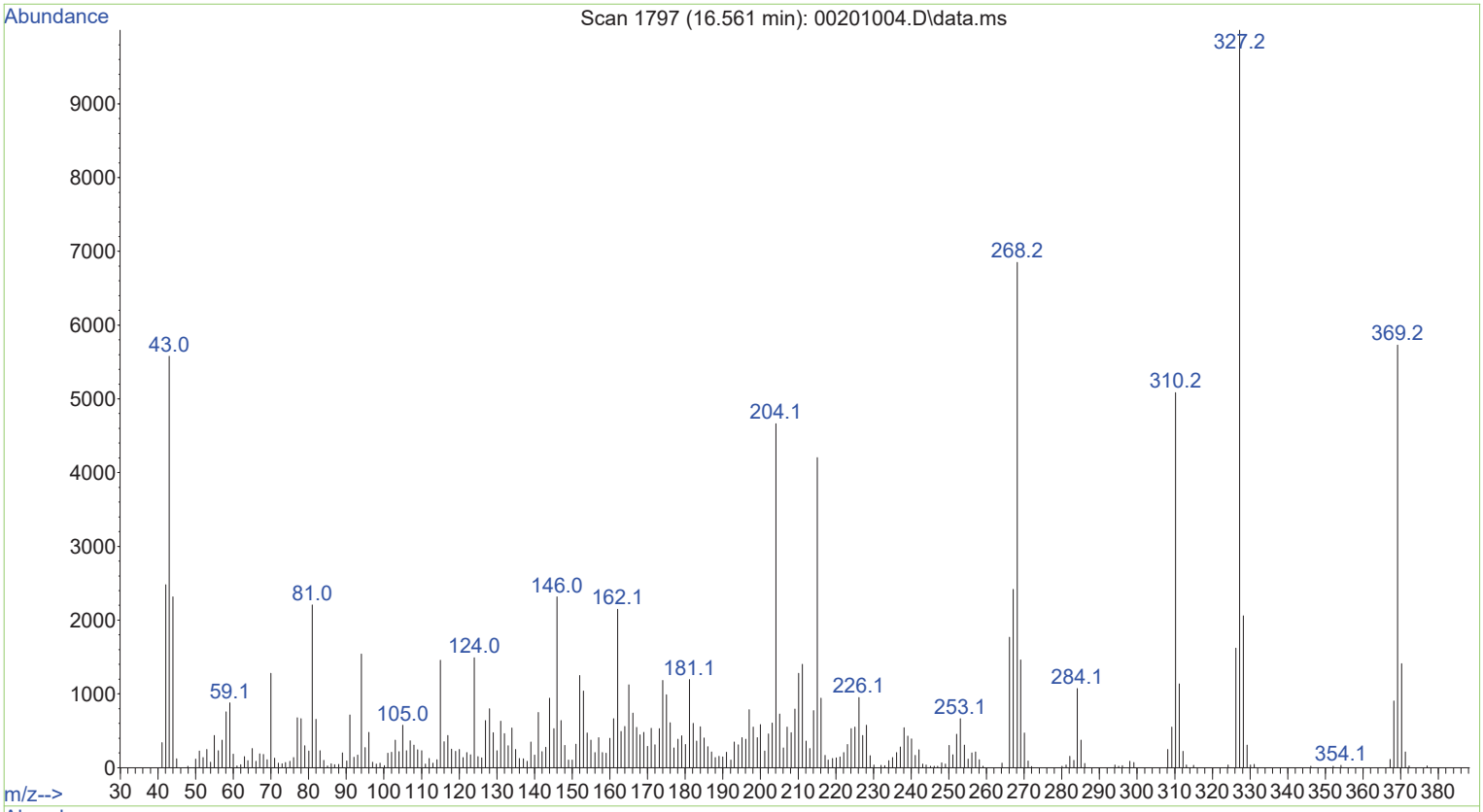


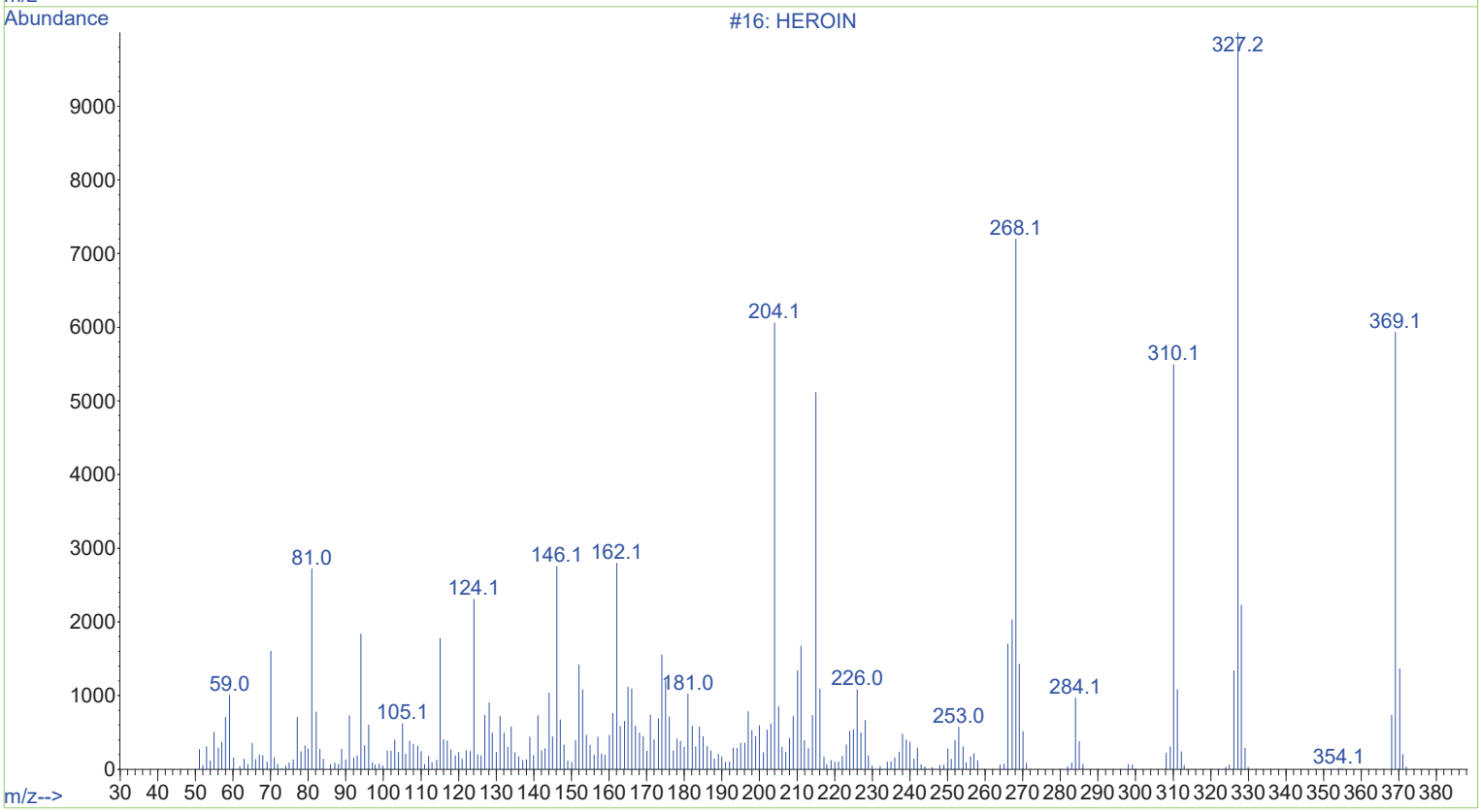
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... 2025 Data\081125\00201004.D
Acquired : 11 Aug 2025 10:21 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



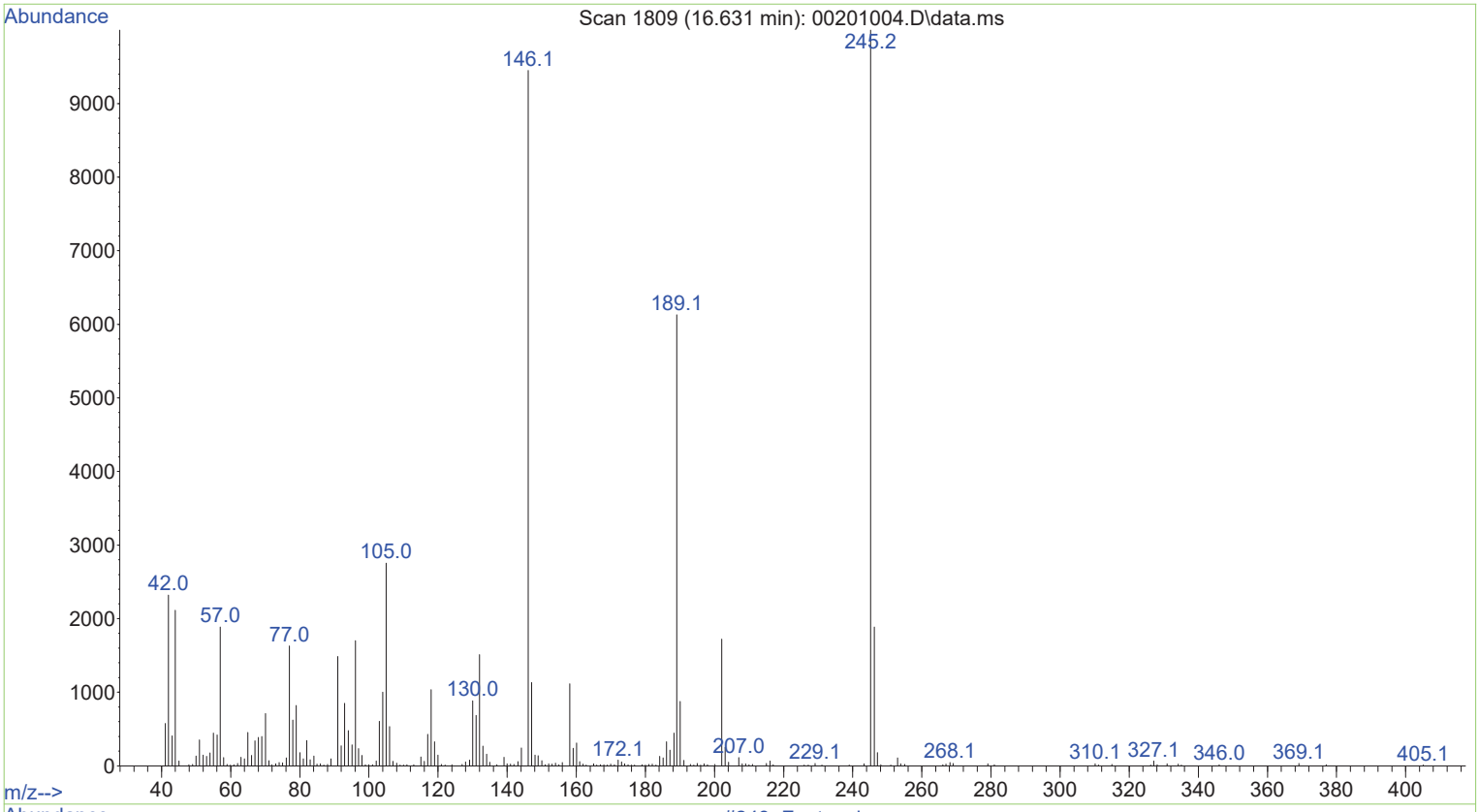


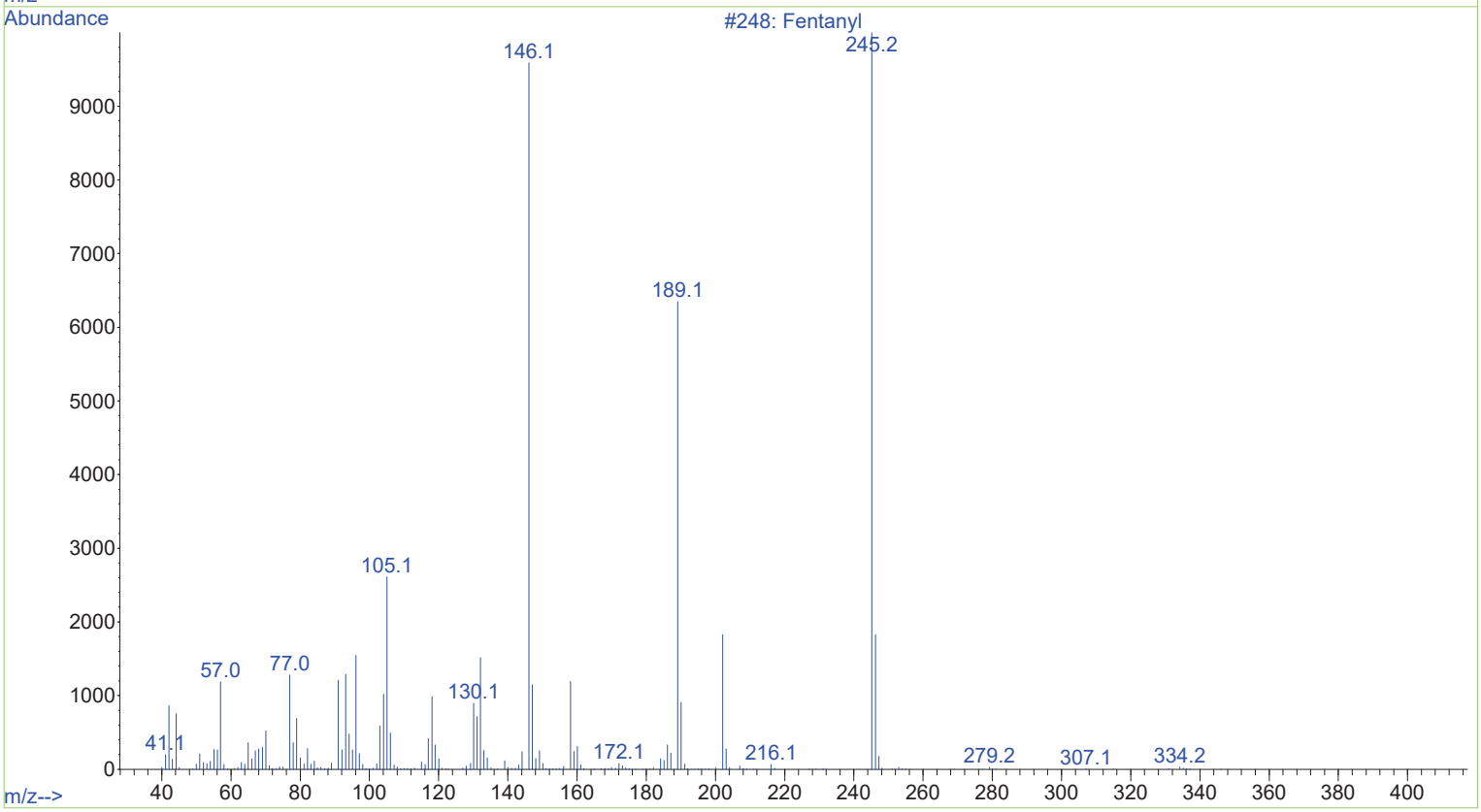
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Acquired : 11 Aug 2025 10:21 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



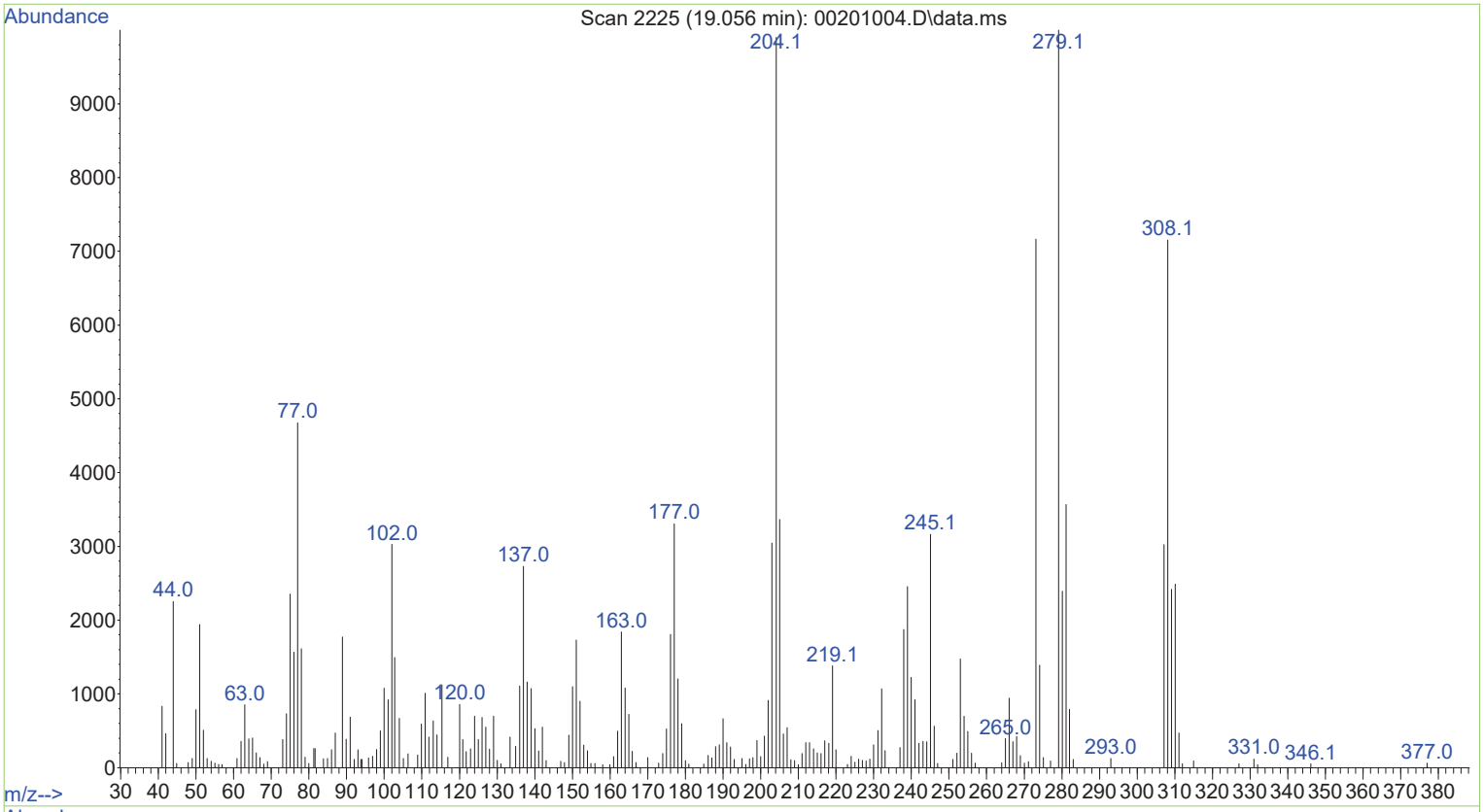


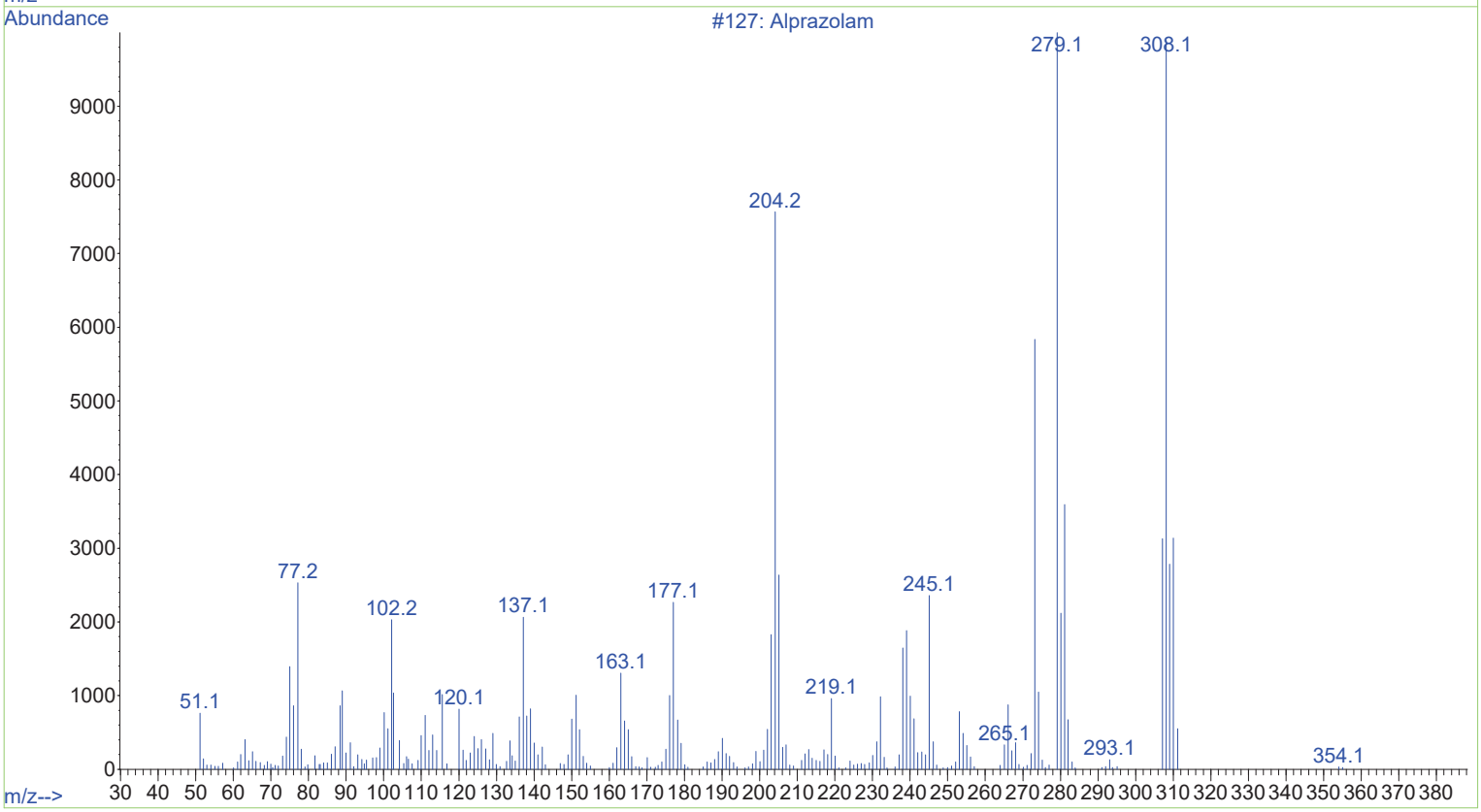
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... 2025 Data\081125\00201004.D
Acquired : 11 Aug 2025 10:21 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



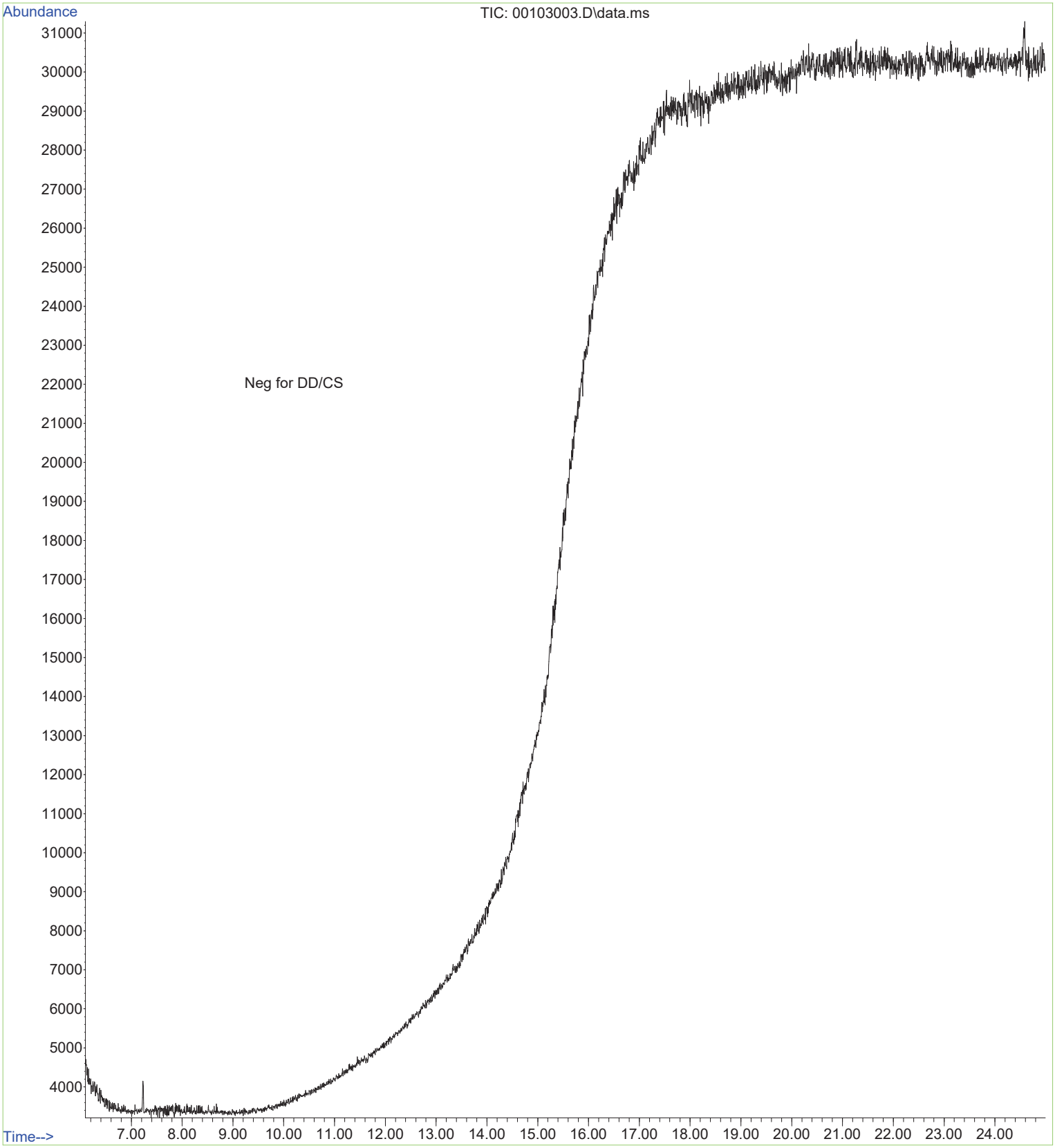


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...         2025 Data\081125\00201004.D
Acquired   : 11 Aug 2025  10:21     using AcqMethod DrugTest35MS.M
Instrument :   GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060)                  000002669
Misc Info  : in ACN                                         000002669
Vial Number: 2
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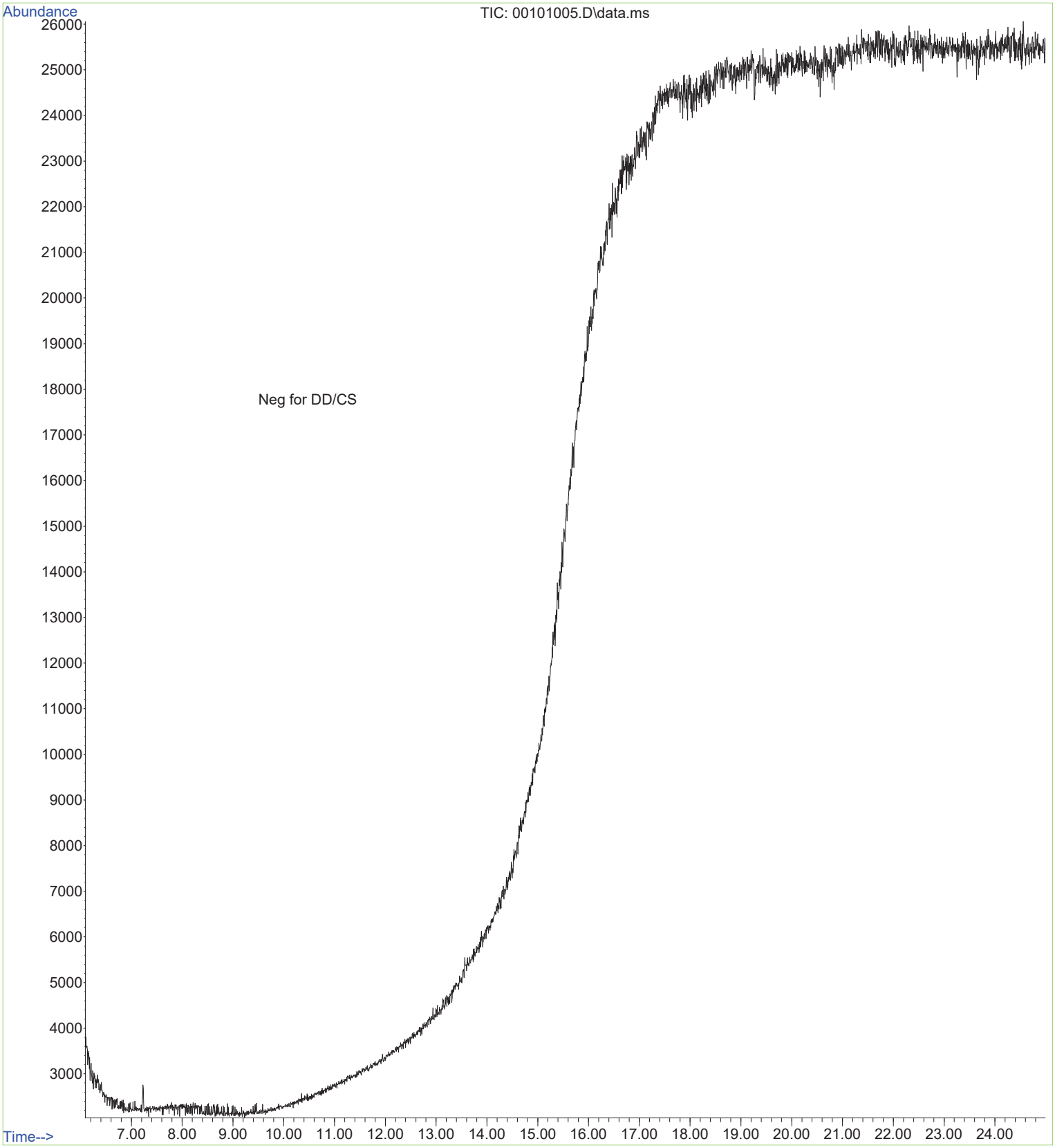




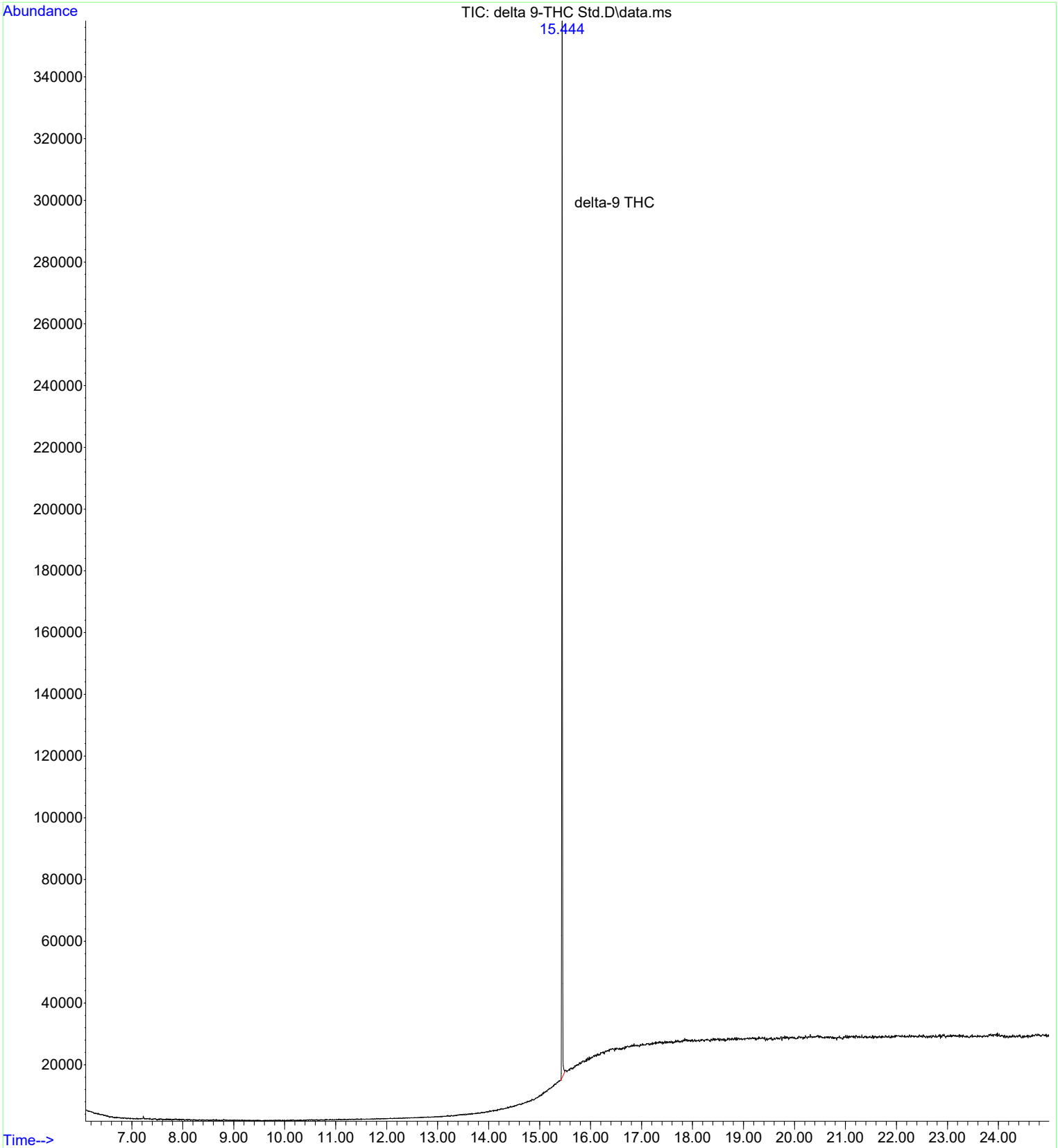
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Instrument : GCMS #4
Sample Name: BLANK (C-19-0068) prior to Cayman GC/MS mix 3 (R-24-060) 000002668
Misc Info : ACN 000002668
Vial Number: 1



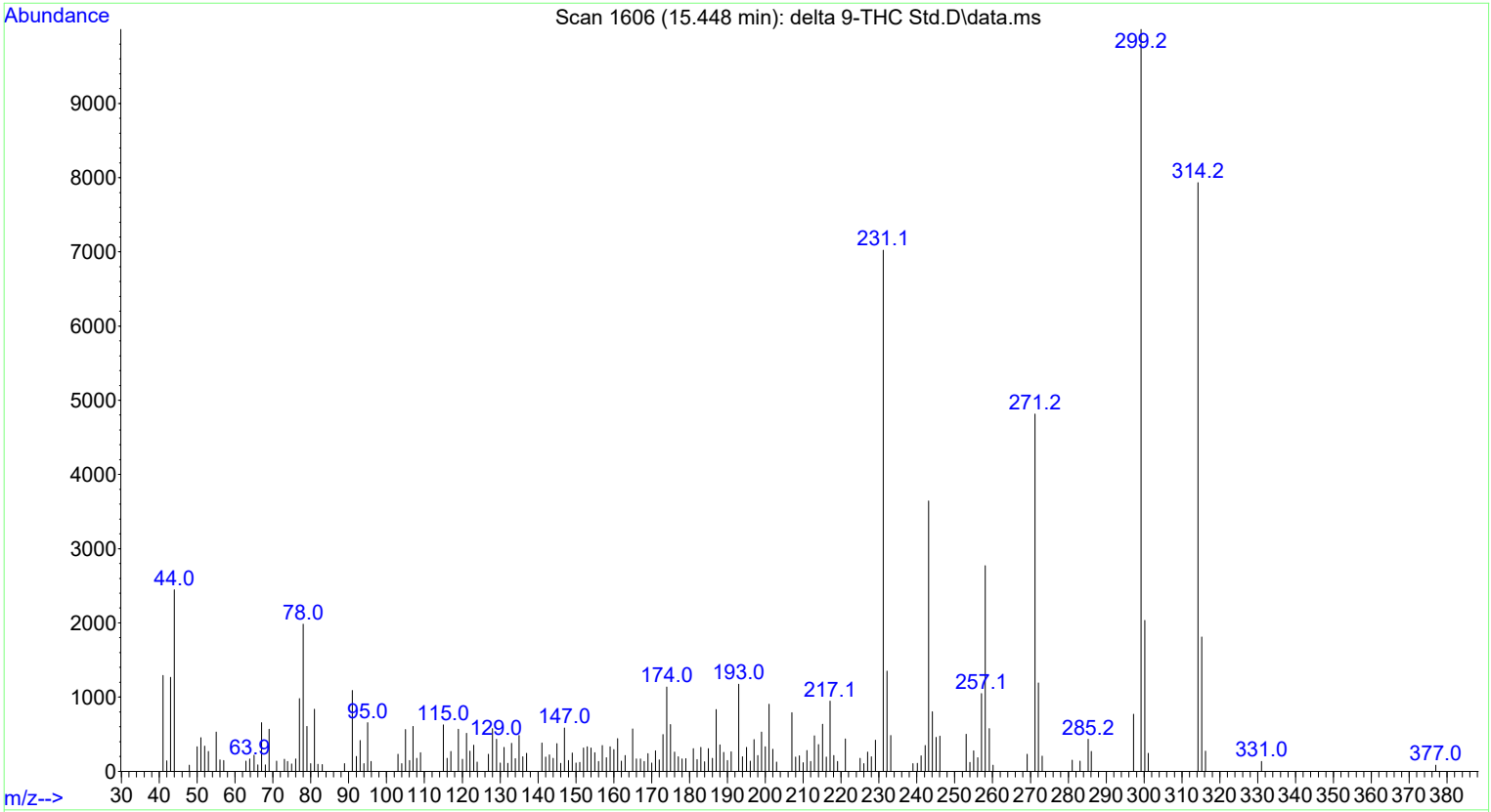
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... 2025 Data\081125\00101005.D
Acquired : 11 Aug 2025 10:50 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Blank (C-19-0068) - Instrument ready 000002668
Misc Info : ACN 000002668
Vial Number: 1

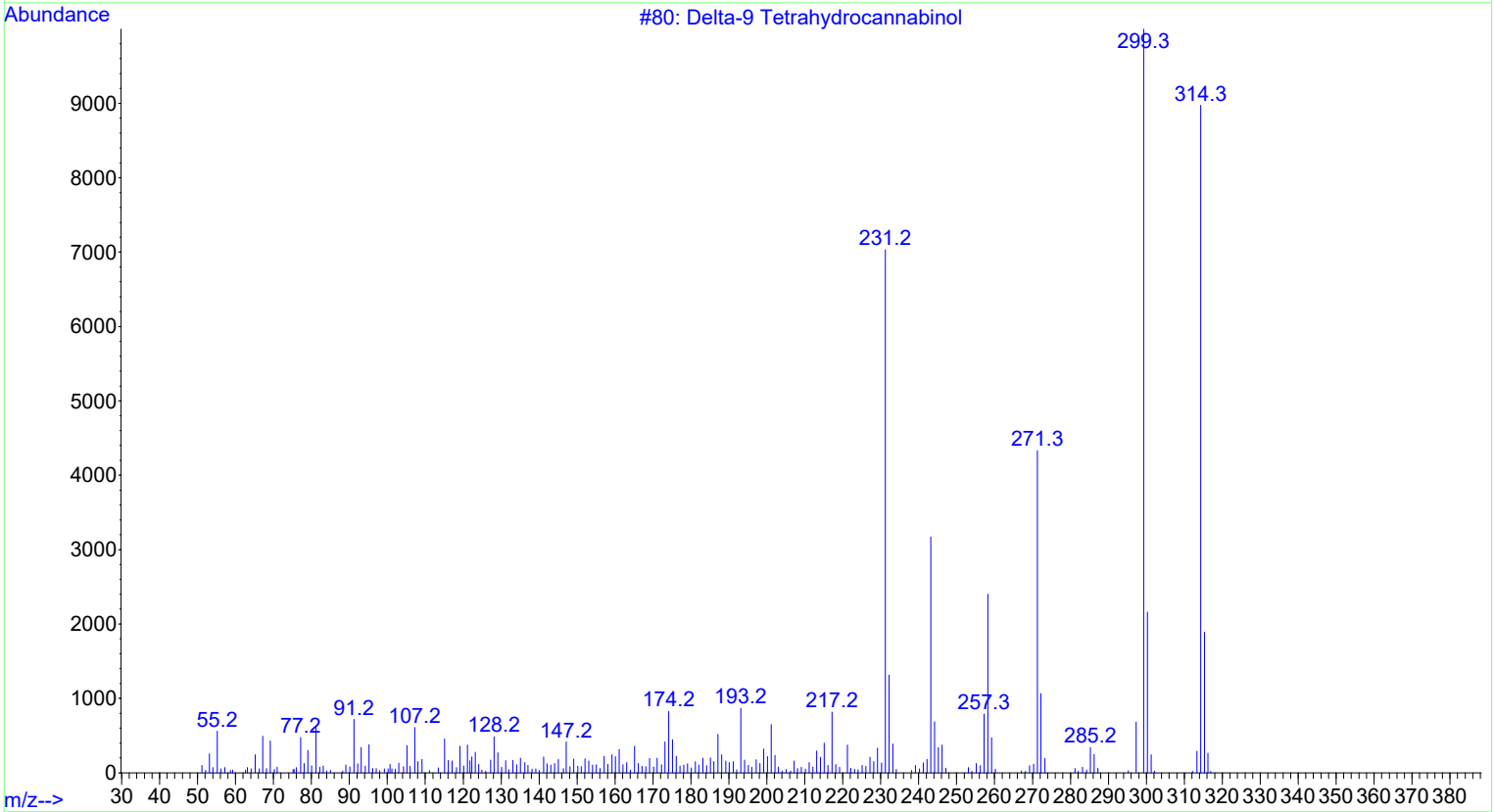


File :D:\MassHunter\GCMS\1\GCMS 4 data\2025 Data\081525\delta 9-TH
... C Std.D
Acquired : 15 Aug 2025 11:56 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: delta 9-THC (R-24-025) Std 000002993
Misc Info : Rt determination 000002993
Vial Number: 55

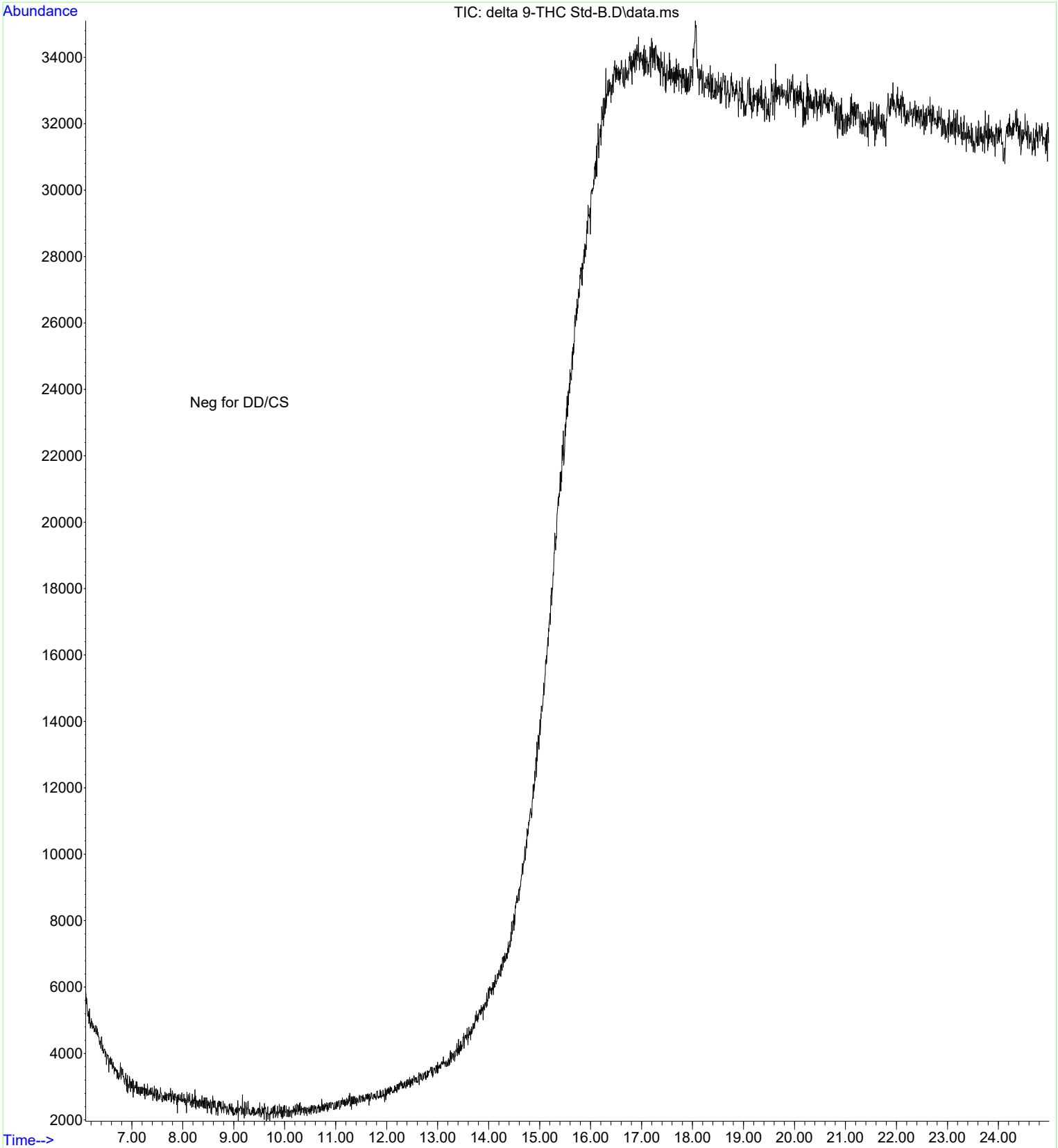


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Acquired : 15 Aug 2025 11:56 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: delta 9-THC (R-24-025) Std 000002993
Misc Info : Rt determination 000002993
Vial Number: 55





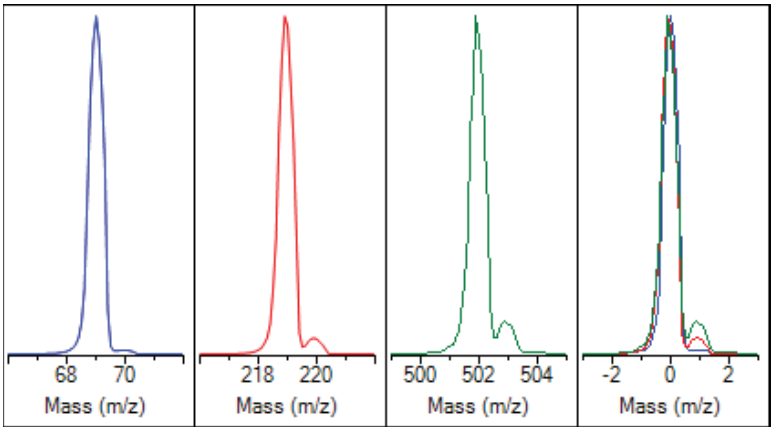
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... C Std-B.D
Acquired : 15 Aug 2025 11:27 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: blank prior to delta 9-THC (R-24-025) Std 000002709
Misc Info : EtAc (C-22-0063A) 000002709
Vial Number: 54



High Efficiency Source Autotune - 5977

Tune timestamp: 8/18/2025 7:00 AM (UTC-05:00) GCMS #4

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



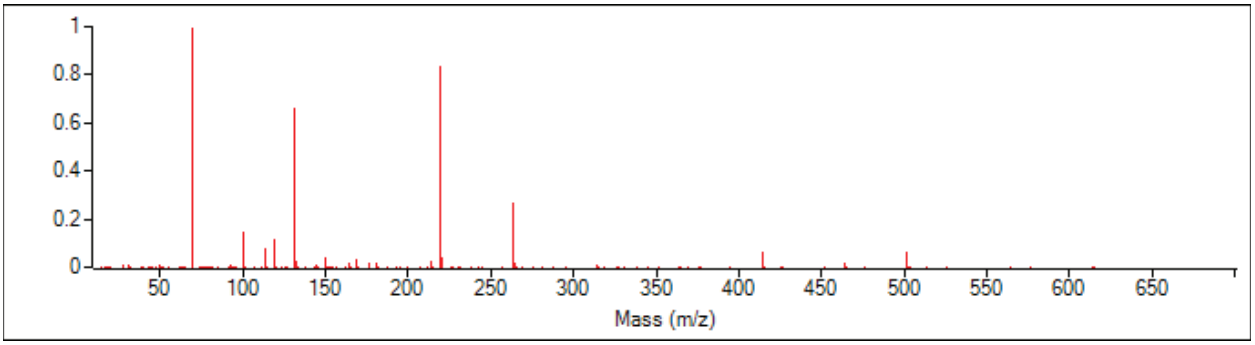
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	86
Electron Energy	70.0	Mass Offset	-28
Filament	1	Amu Gain	2456
Repeller	14.24	Amu Offset	136.44
Ion Focus	149.6	Width219	0.000
Entrance Lens	10.1	DC Polarity	Pos
Ent Lens Offset	18.06	HED Enable	On
Ion Body	4.75	EM Volts	1949.1
Post Extractor 1	12	Extractor Lens	12.20
Post Extractor 2	33	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	516,524	100.0%	0.60
218.90	433,388	83.9%	0.60
501.90	33,353	6.5%	0.61

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	7.66e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	134	69.00	483,520	1,777,460



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	483,520	100.0%	70.00	5,853	1.2%
219.00	219.00	403,648	83.5%	220.00	19,048	4.7%
502.00	502.00	30,184	6.2%	503.00	3,066	10.2%

Air/Water Check: H20 ~0.3% N2 ~1.2% O2 ~0.4% CO2 ~0.1% N2/H20 ~394.6%

Column(1) Flow: 0.70 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 128 volts using ion 502; Electron Multiplier Gain 11878.328

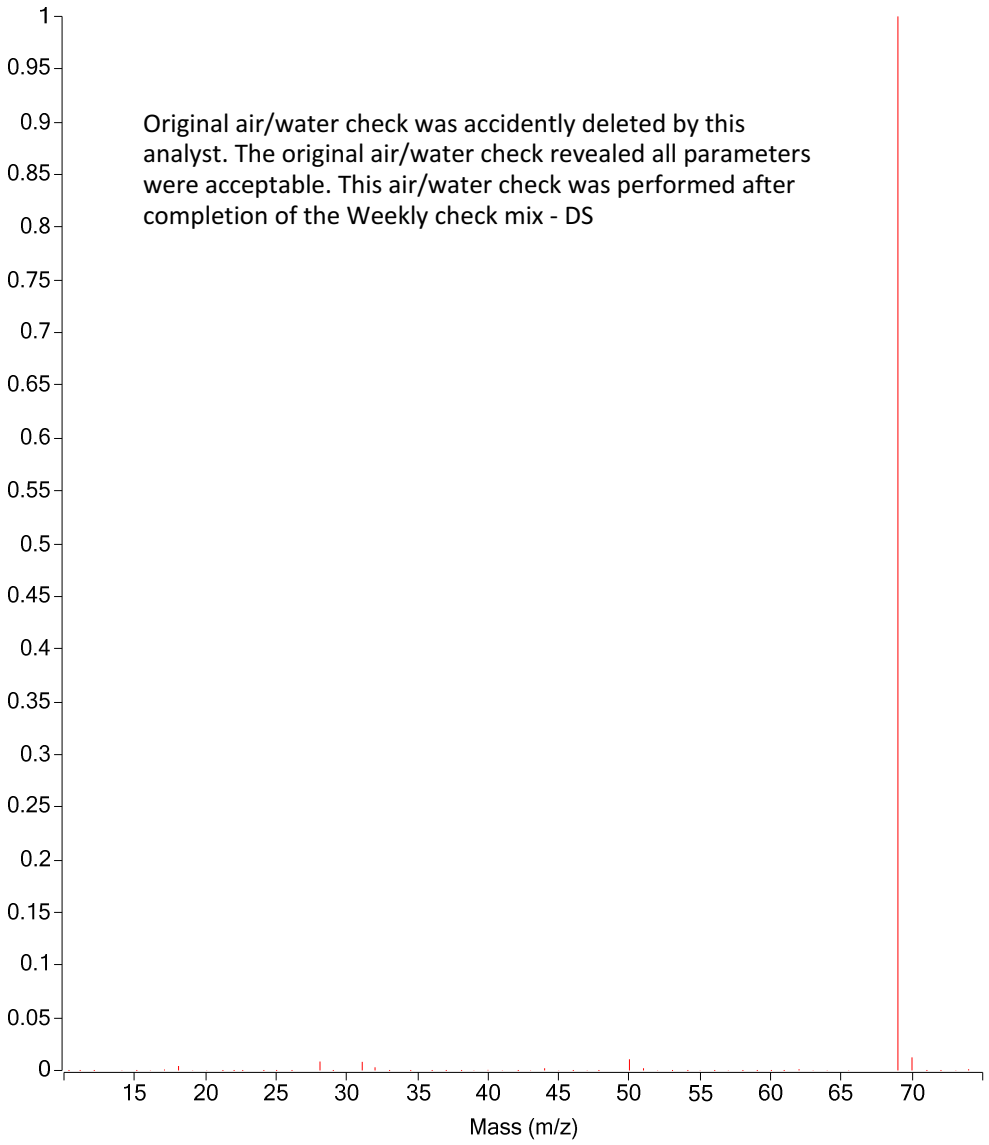
Repeller maximum 35 volts using ion 219; Gain Factor 0.1188

Mass Gain Values(Scan Speed): 95(3) 101(2) 105(1) 120(0) 172(FS1) 172(FS2) 172(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	136.4	136.4	136.4	136.4	136.4	136.4	136.4
Entrance Lens Offset	18.1	18.1	18.1	18.1	18.1	18.1	18.1

597x Air and Water Check

Instrument: GCMS #4
Mon Aug 18 13:12:16 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: HES_Atune.u

Relative abundances:

18/69 =	0.42	Water%	(counts=2360)
28/69 =	0.86	Nitrogen%	(counts=4853)
32/69 =	0.31	Oxygen%	(counts=1762)
44/69 =	0.21	Carbon Dioxide%	(counts=1185)
28/18 =	205.64	Nitrogen/Water%	

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

BasePeak should be 69 or 219		OK
Position of mass 69	69.00	OK
Position of mass 219	219.00	OK
Position of mass 502	502.02	OK
Position of isotope mass 70	70.00	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%)	1.20	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.61	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.18	OK
Ratio of 219 to 69 should be > 40% and is	80.24	OK
Ratio of 502 to 69 should be > 2.4% and is	5.41	OK
Mass 69 Precursor (<= 3%)	0.86	OK
Mass 219 Precursor (<= 6%)	2.23	OK
Mass 502 Precursor (<= 12%)	3.48	OK

597x Air and Water Check
Mon Aug 18 13:15:26 2025 Instrument: GCMS #4
D:\MassHunter\GCMS\1\5977\HES_Atune.u US1837D002

Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	0.32	OK
Ratio of 28 to 69 (<10%)	1.28	OK
Electron Multiplier Voltage	1949	OK

Tune portion of System Verification passed.

The original tune evaluation was accidently deleted by this analyst. The original tune evaluation showed all parameters were acceptable. This tune evaluation was performed after the completion of the Weekly check mix - DS

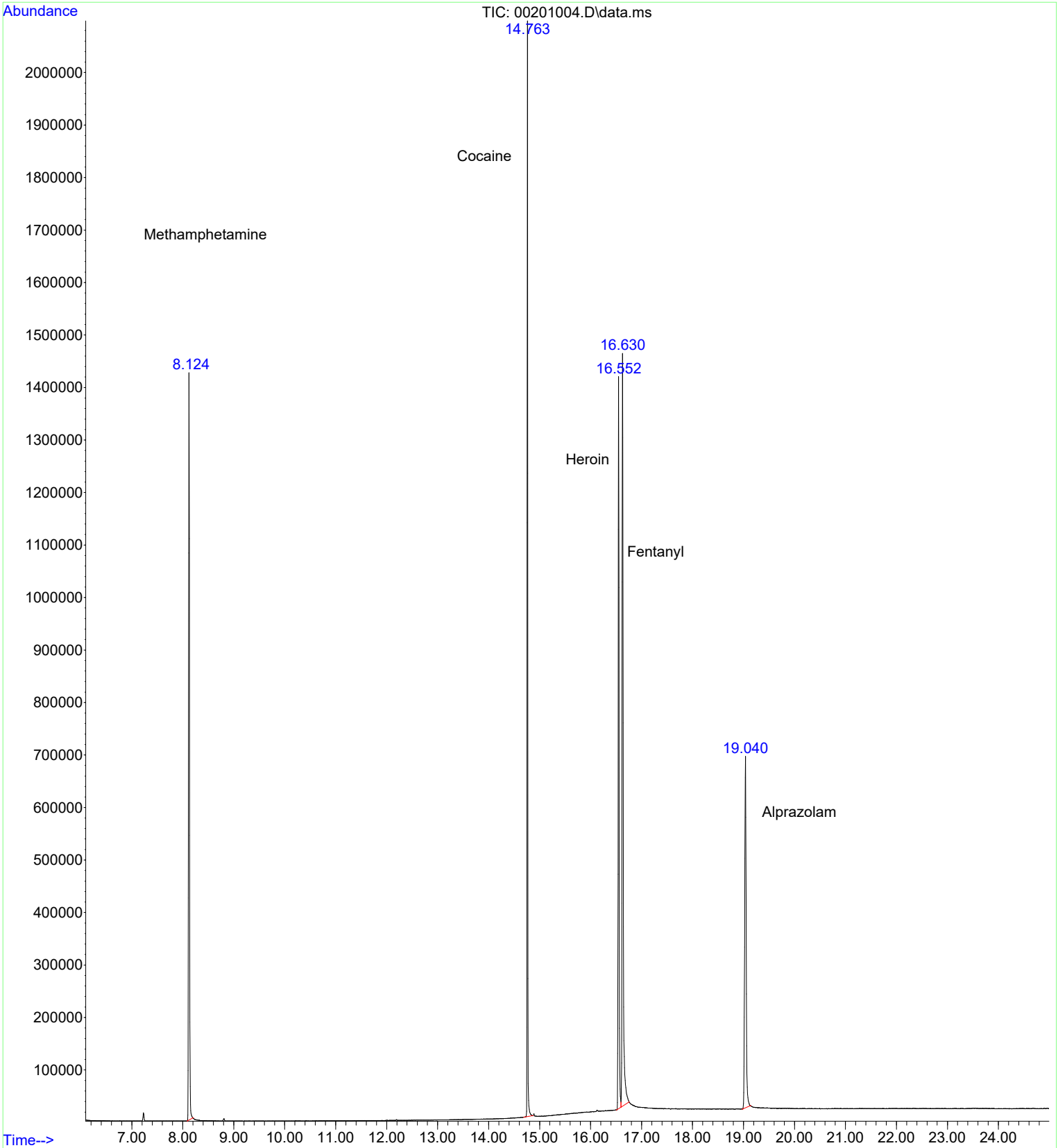
BCCL GC/MS #4
Retention Times for the Week of:

08/18/2025 - 08/24/2025

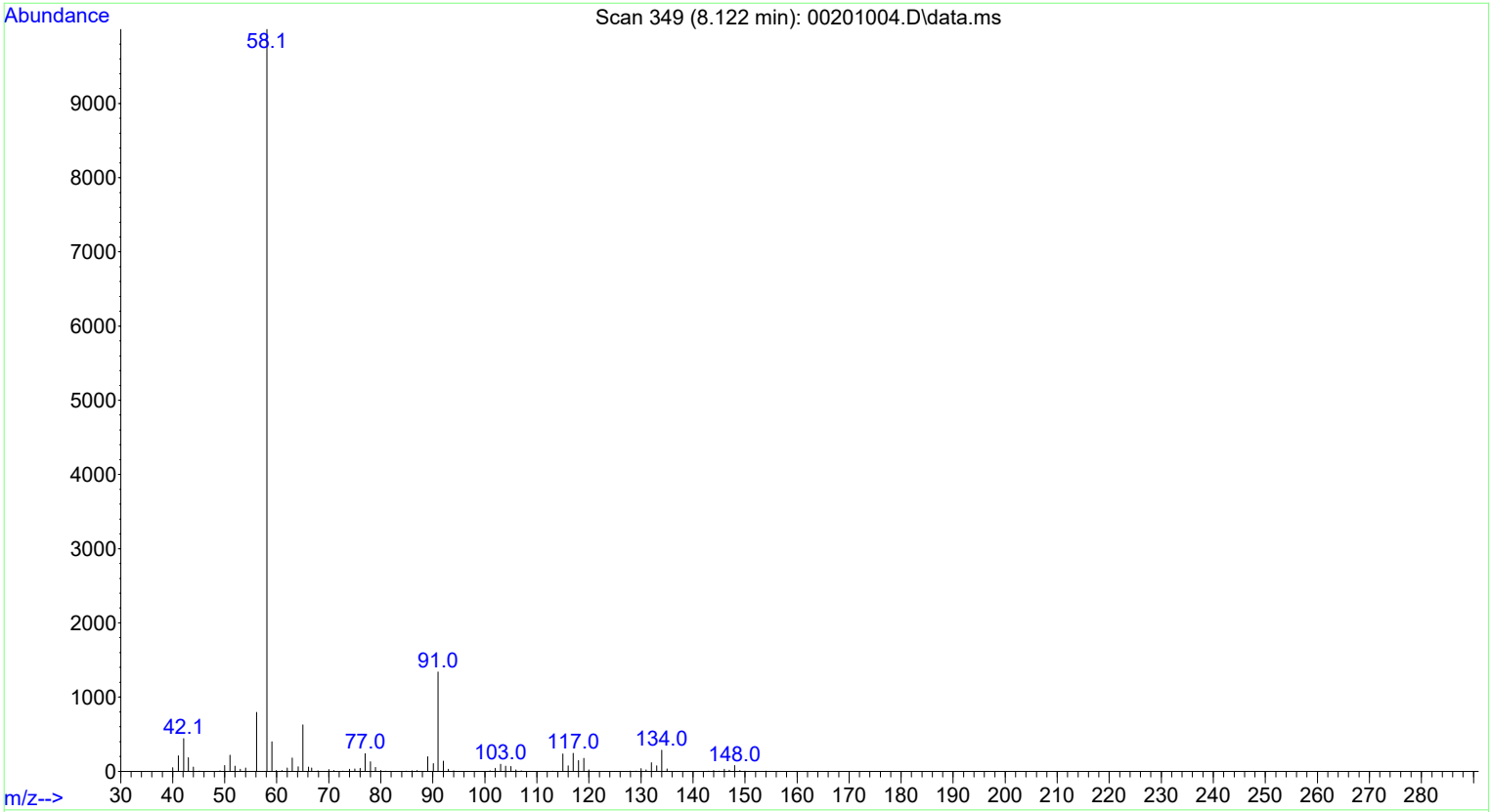
[X] **Tune: KB 08/18/2025 - HES Autotune**

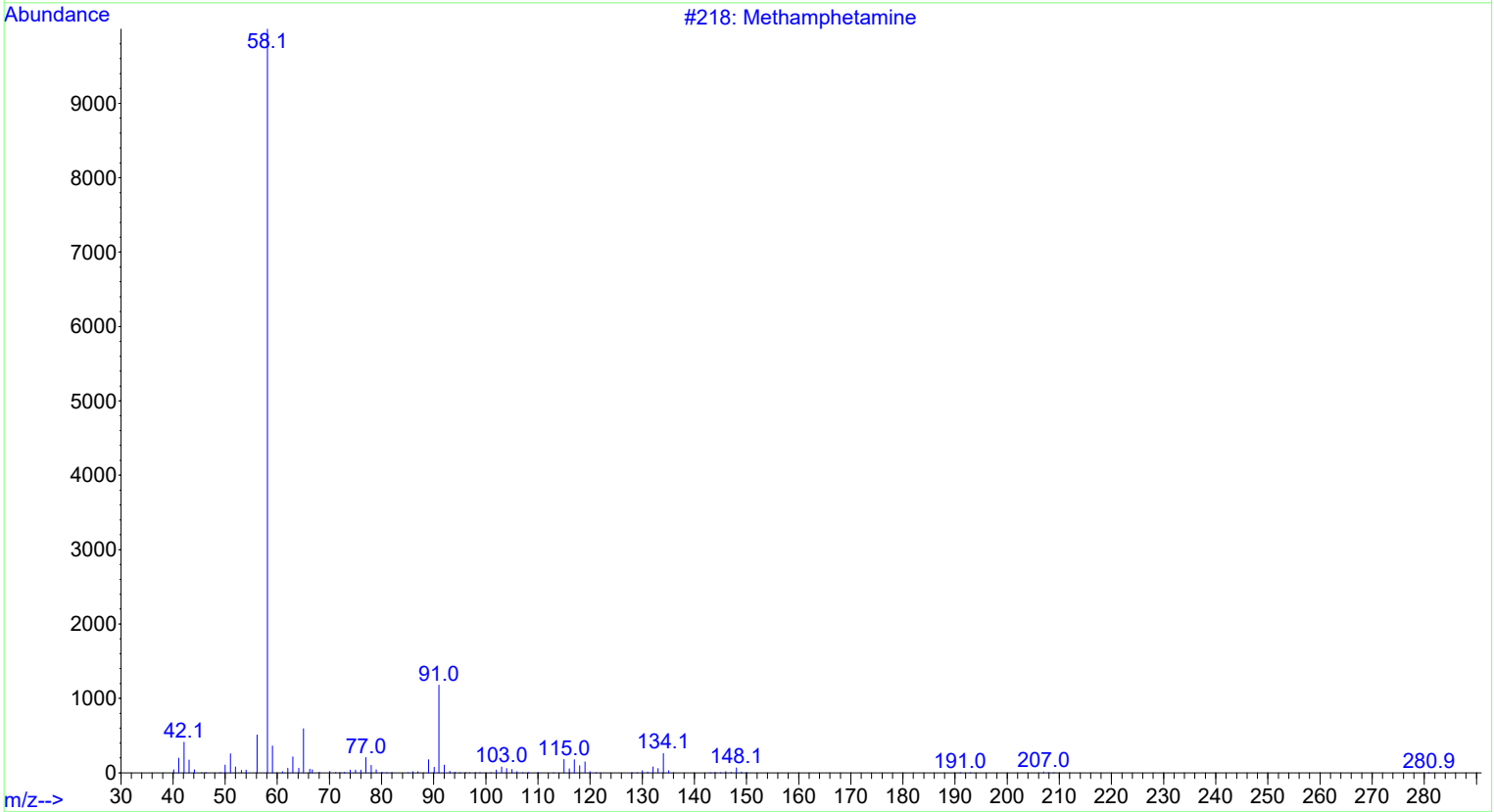
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35MS	8.124	8.042	8.205
Cocaine	R-24-060	DrugTest35MS	14.763	14.615	14.910
Heroin	R-24-060	DrugTest35MS	16.552	16.386	16.717
Fentanyl	R-24-060	DrugTest35MS	16.630	16.463	16.796
Alprazolam	R-24-060	DrugTest35MS	19.040	18.849	19.230

File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\081825\00201004.D
Acquired : 18 Aug 2025 08:32 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2

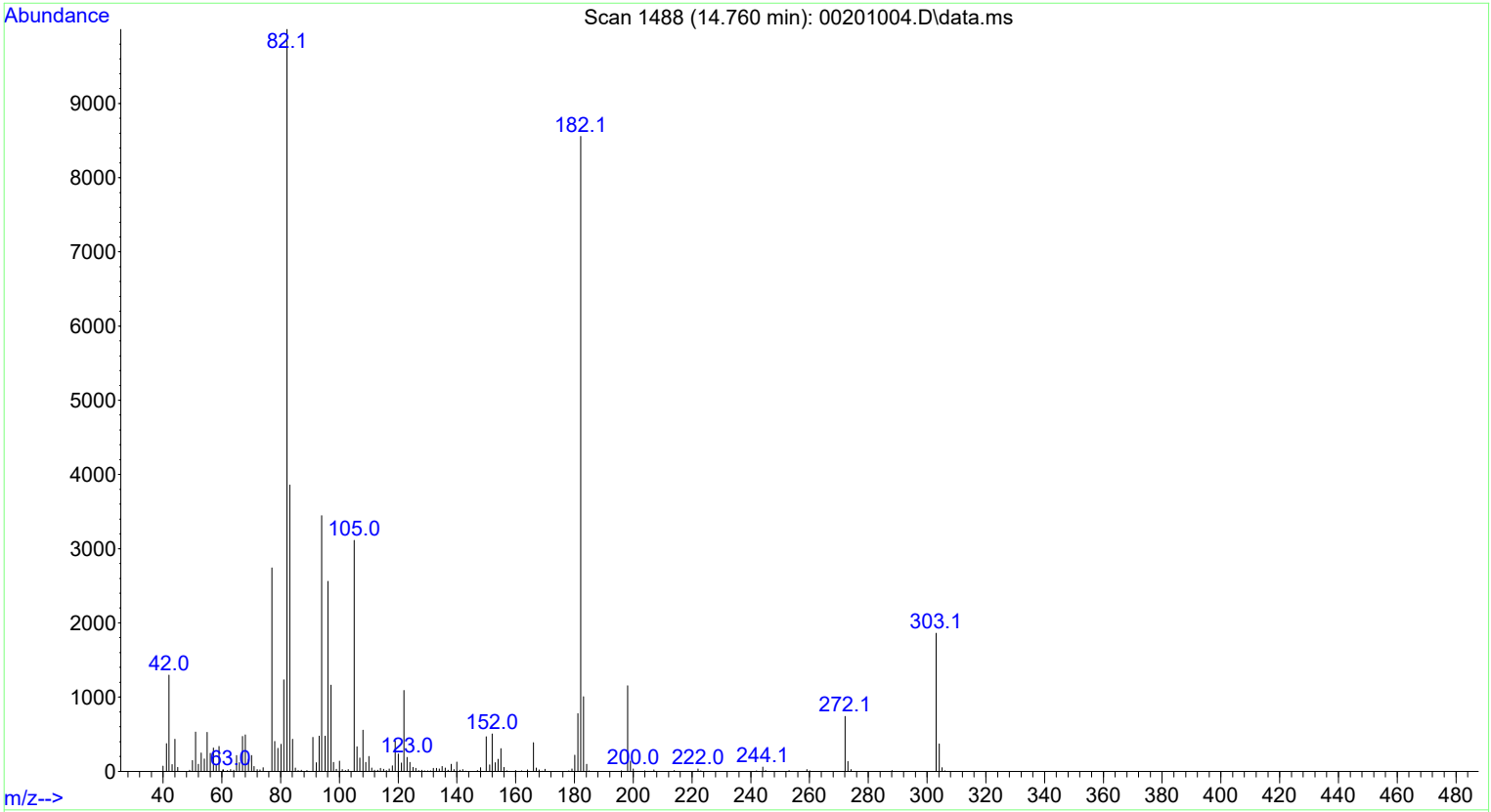


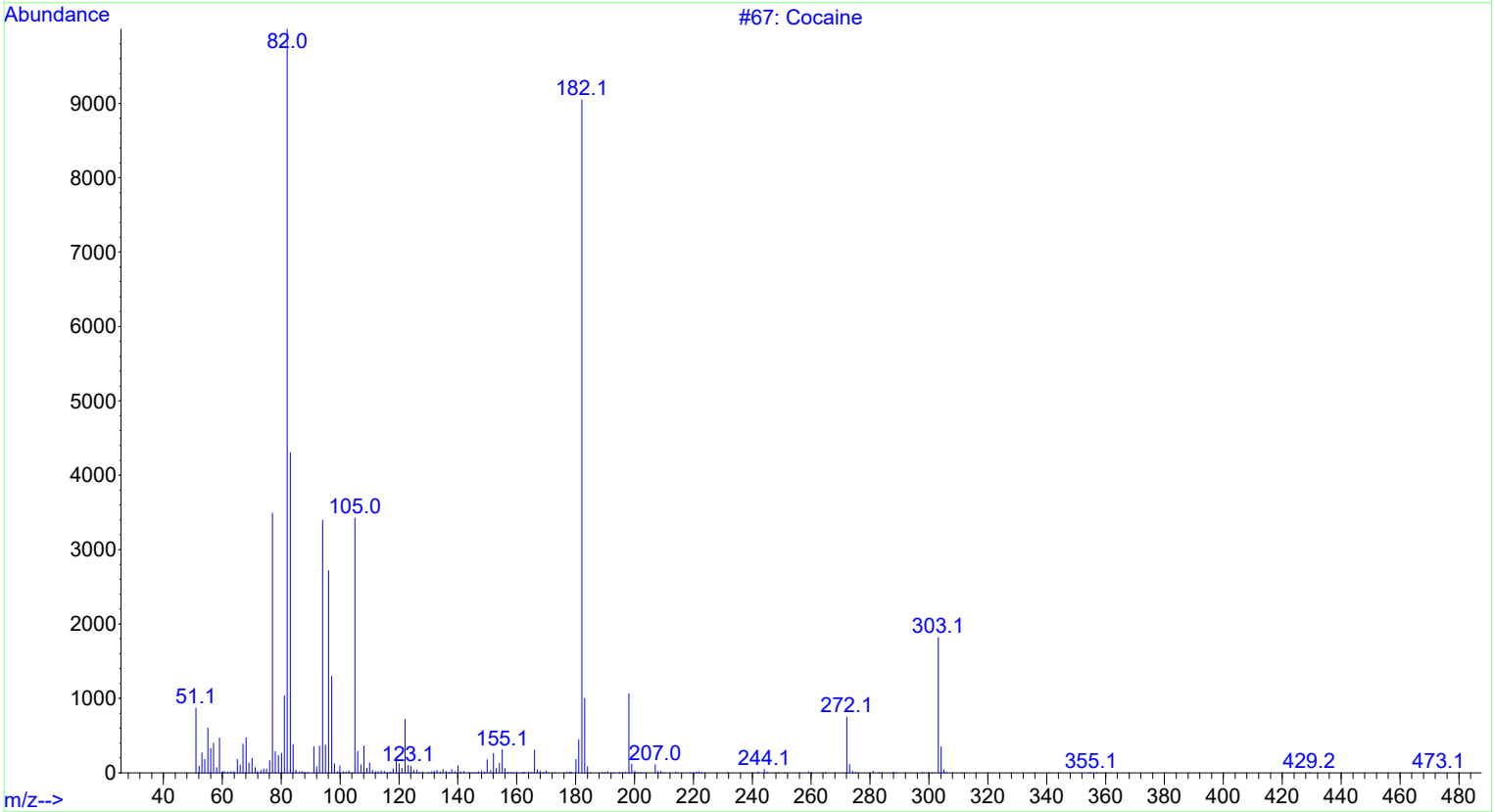
File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\081825\00201004.D
Acquired : 18 Aug 2025 08:32 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



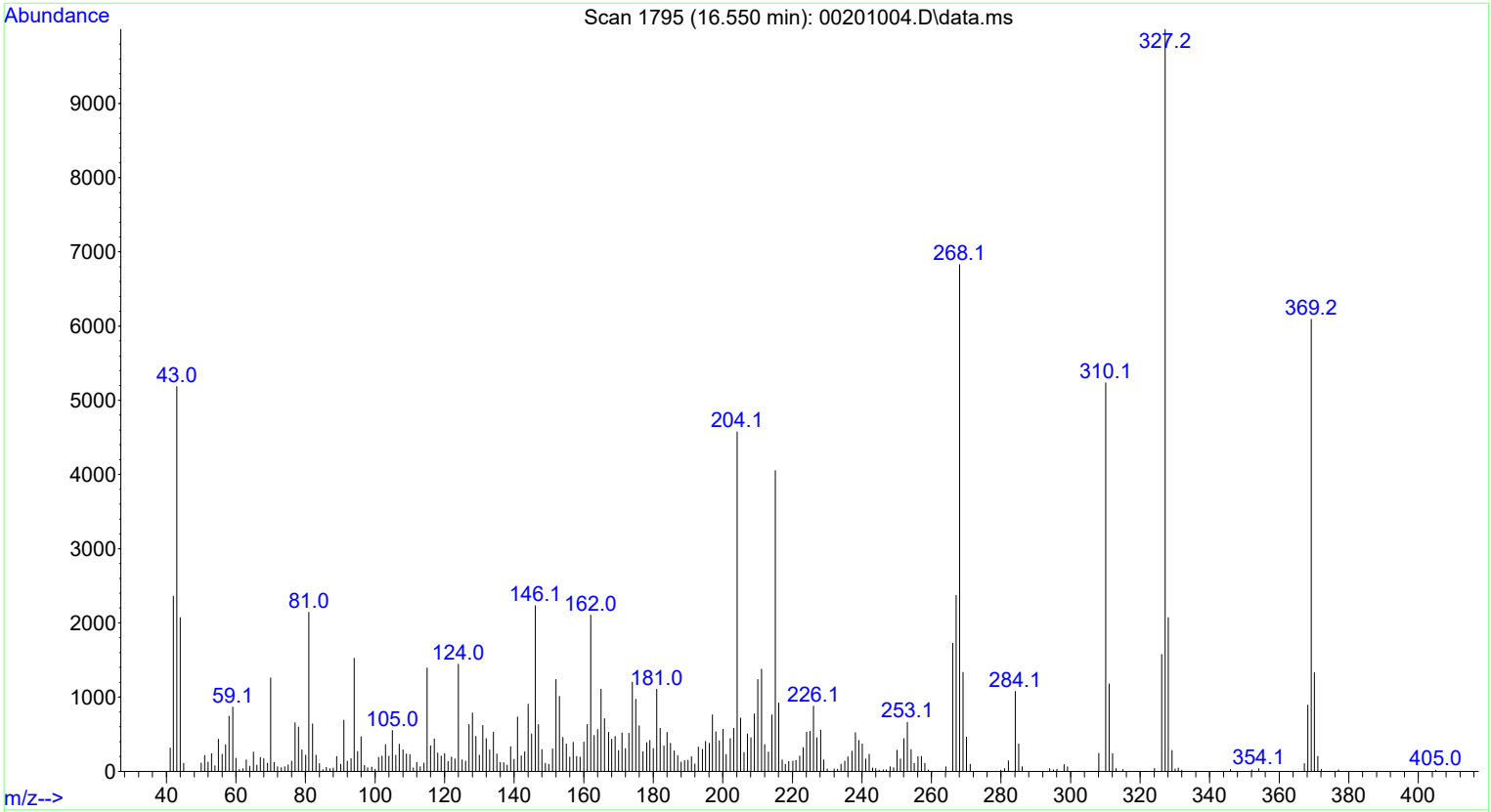


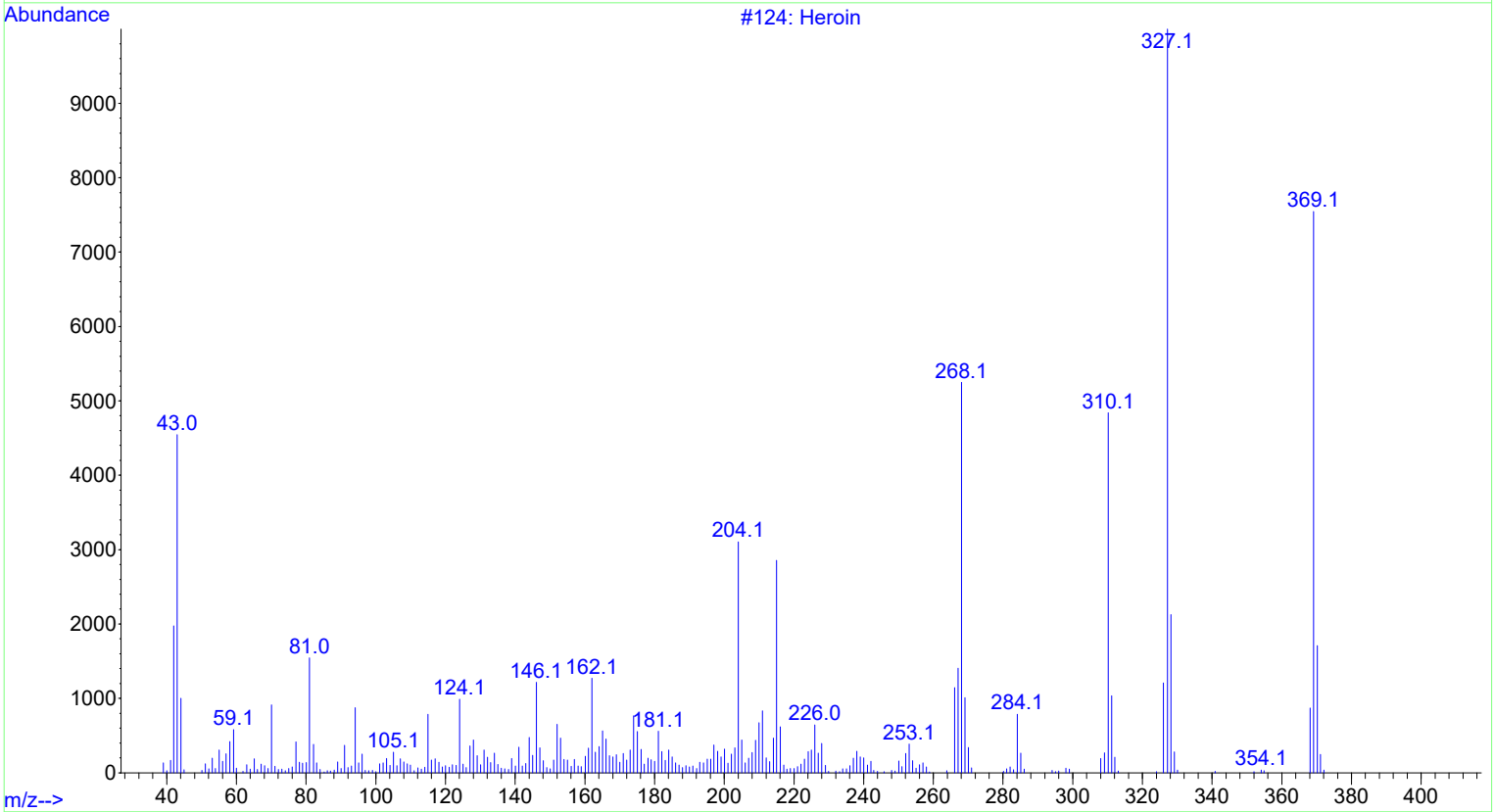
File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\081825\00201004.D
Acquired : 18 Aug 2025 08:32 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



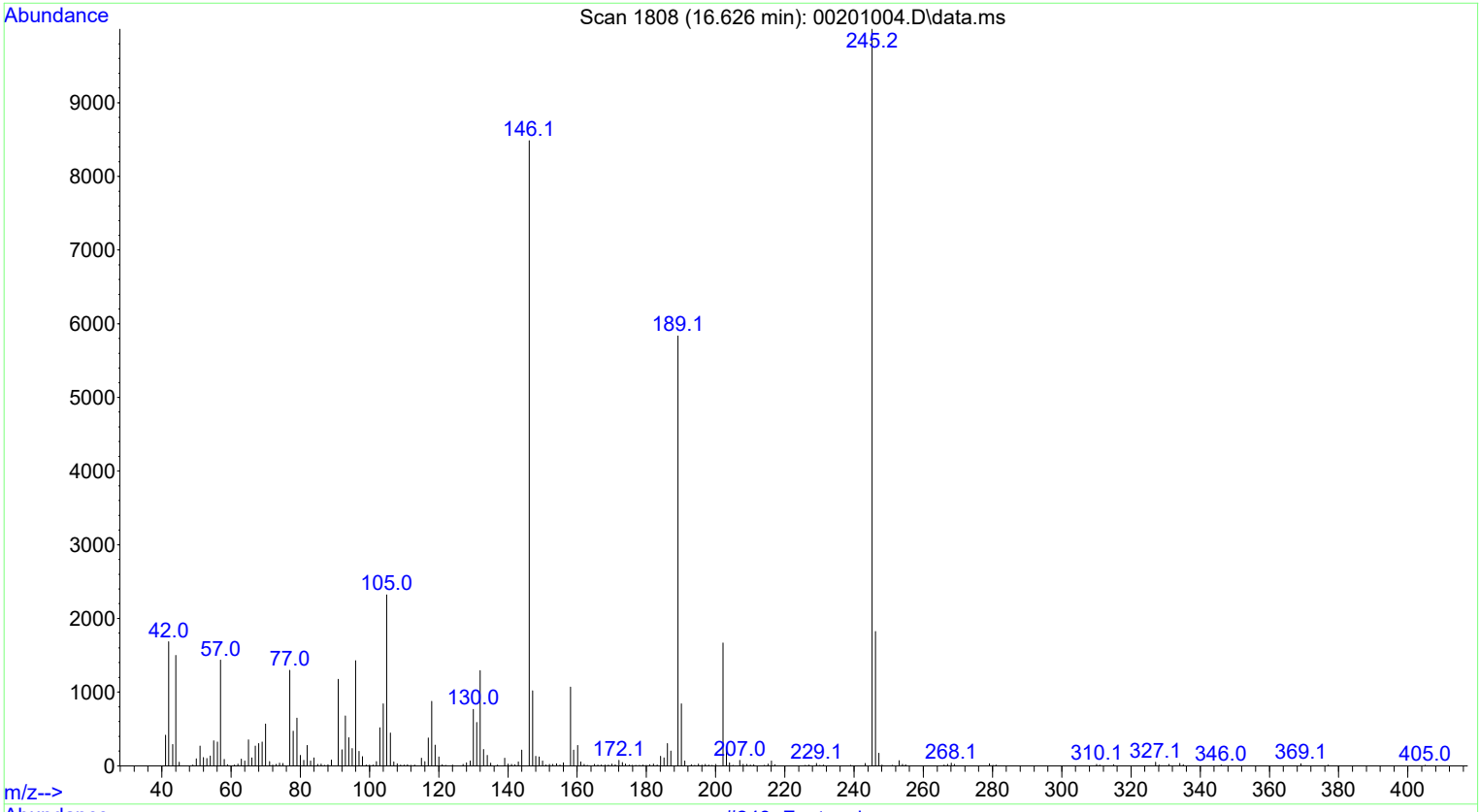


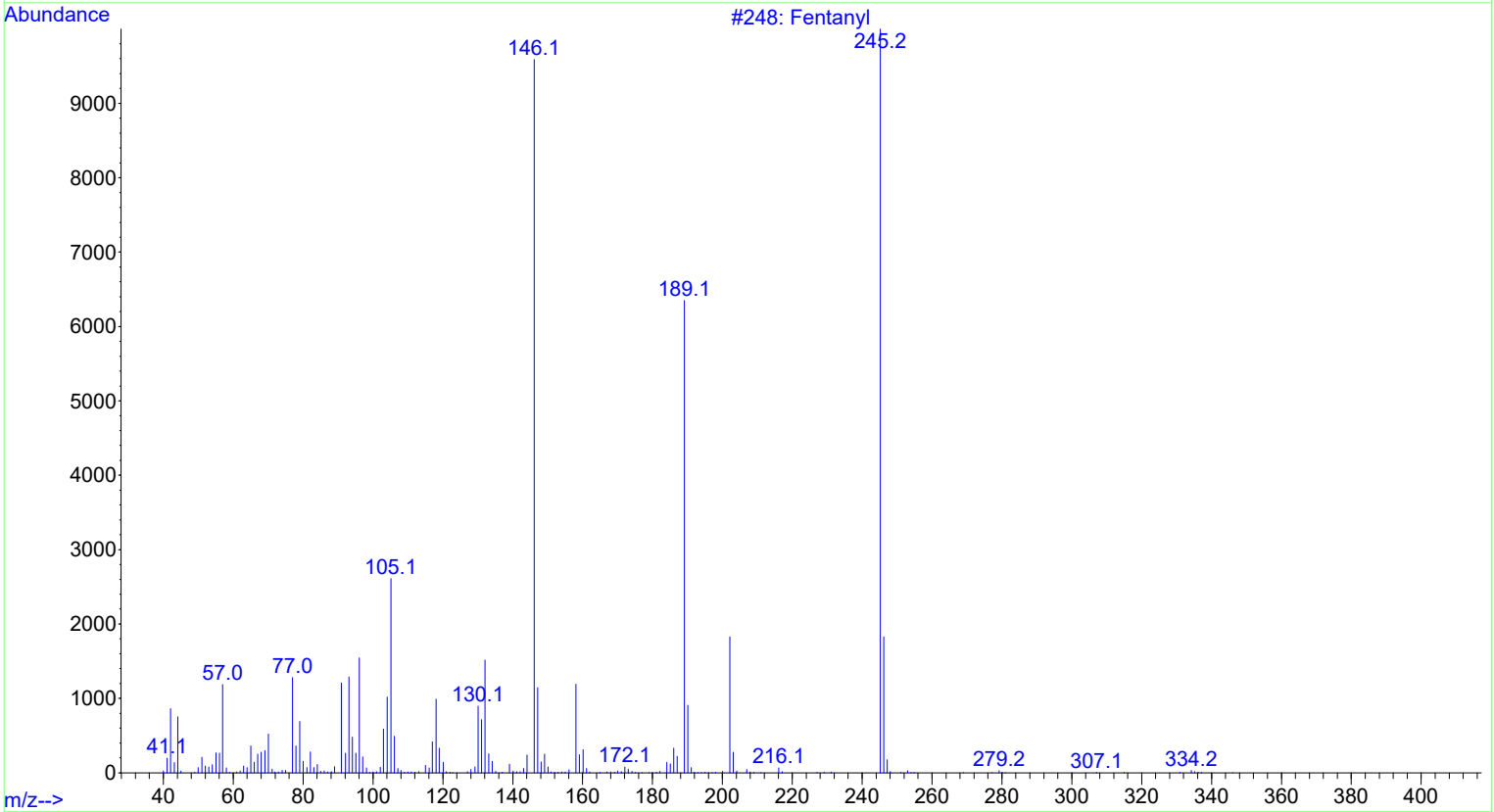
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Acquired : 18 Aug 2025 08:32 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



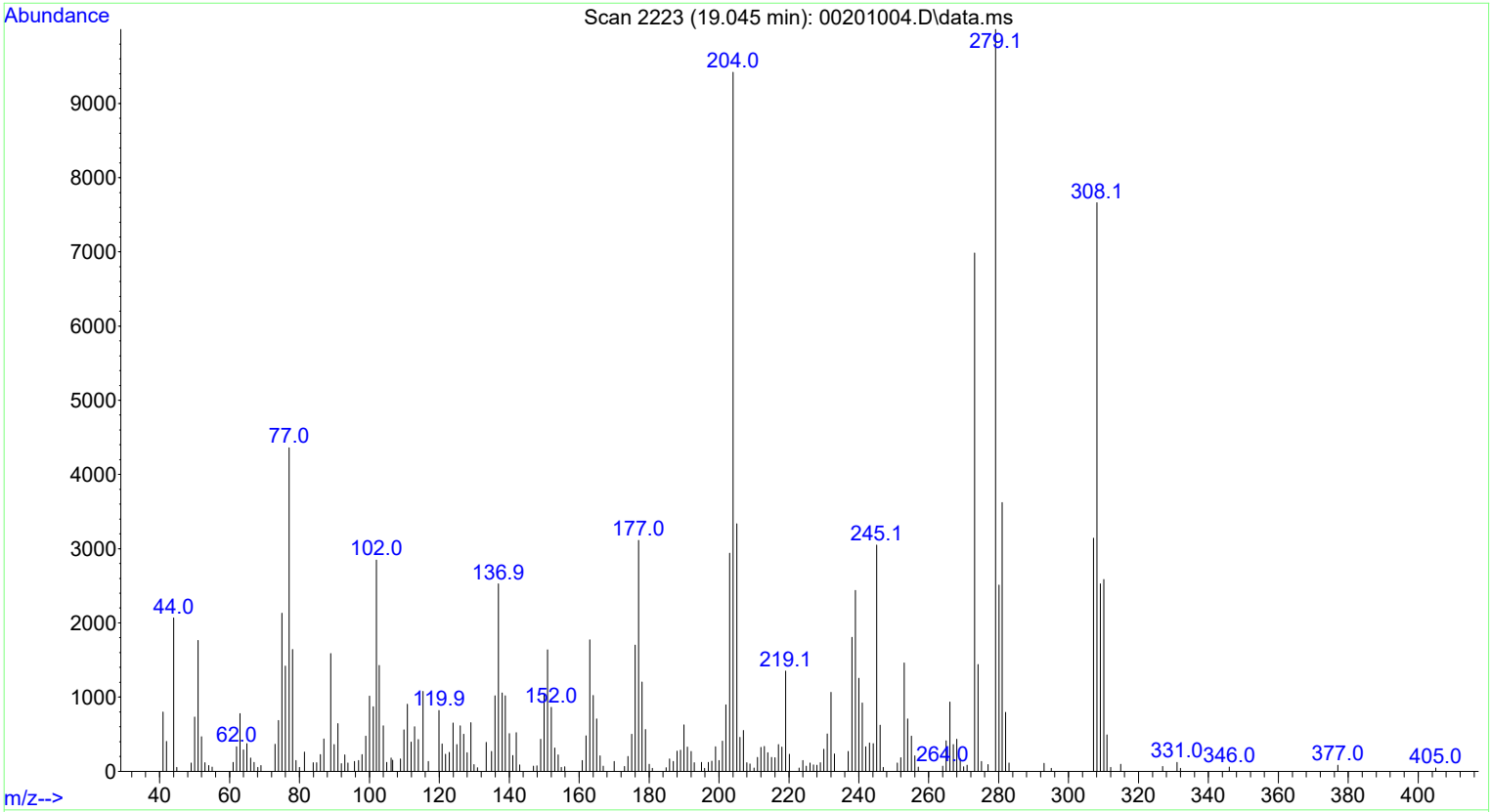


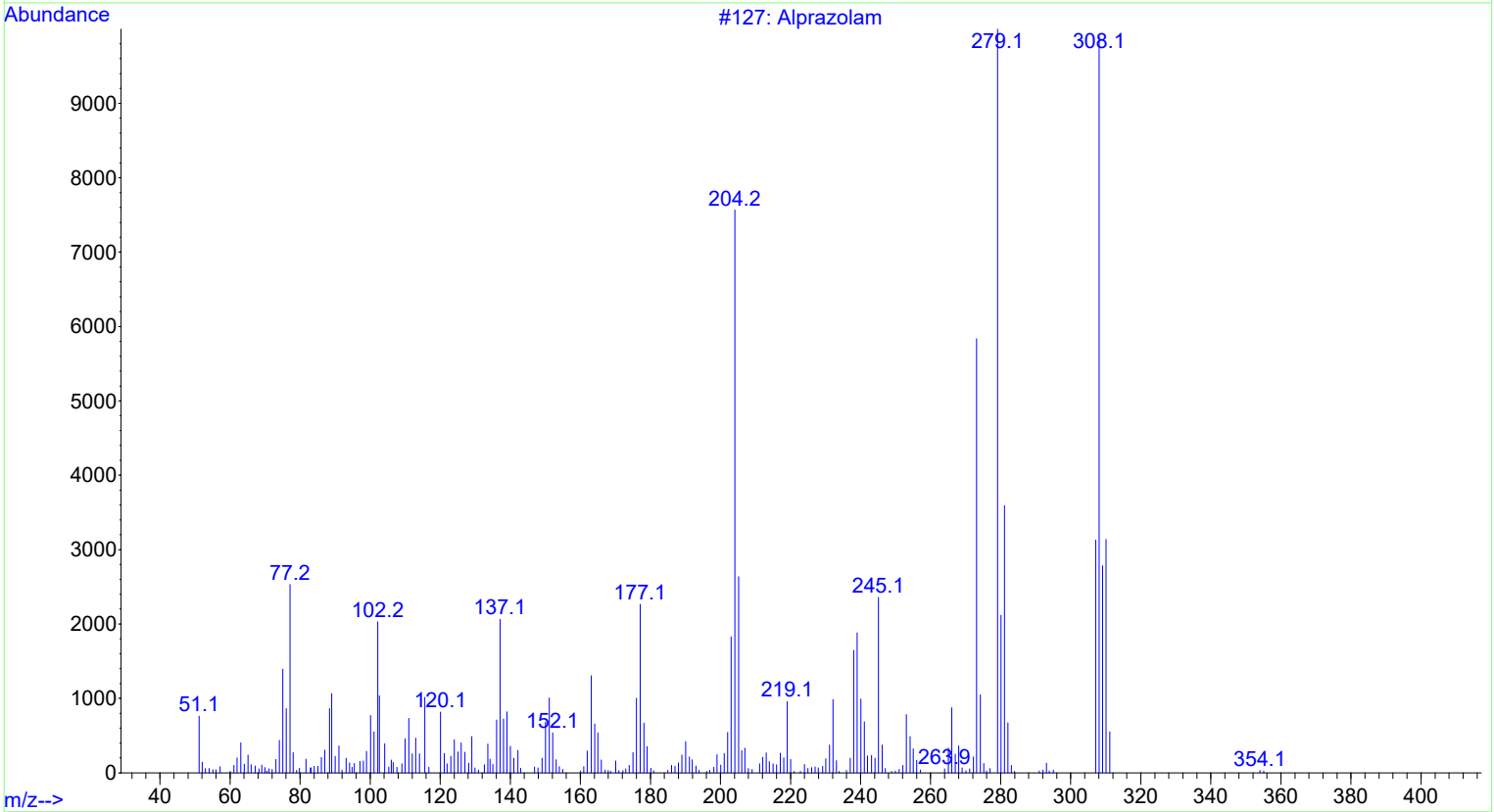
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... 2025 Data\081825\00201004.D
Acquired : 18 Aug 2025 08:32 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2



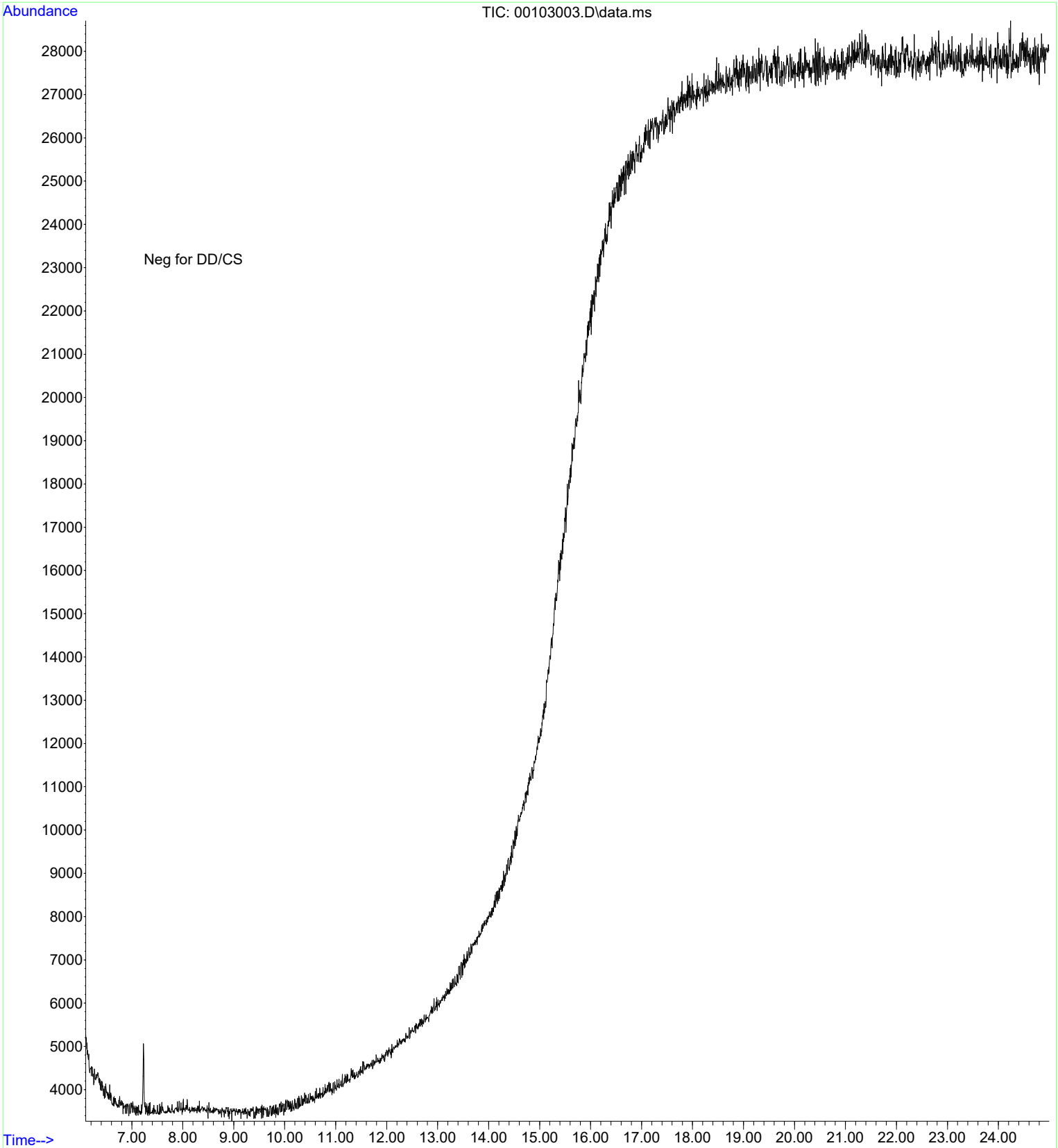


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File       :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
...         2025 Data\081825\00201004.D
Acquired   : 18 Aug 2025  08:32     using AcqMethod DrugTest35MS.M
Instrument :   GCMS #4
Sample Name: Cayman GC/MS mix 3 (R-24-060)                  000002669
Misc Info  : in ACN                                         000002669
Vial Number: 2
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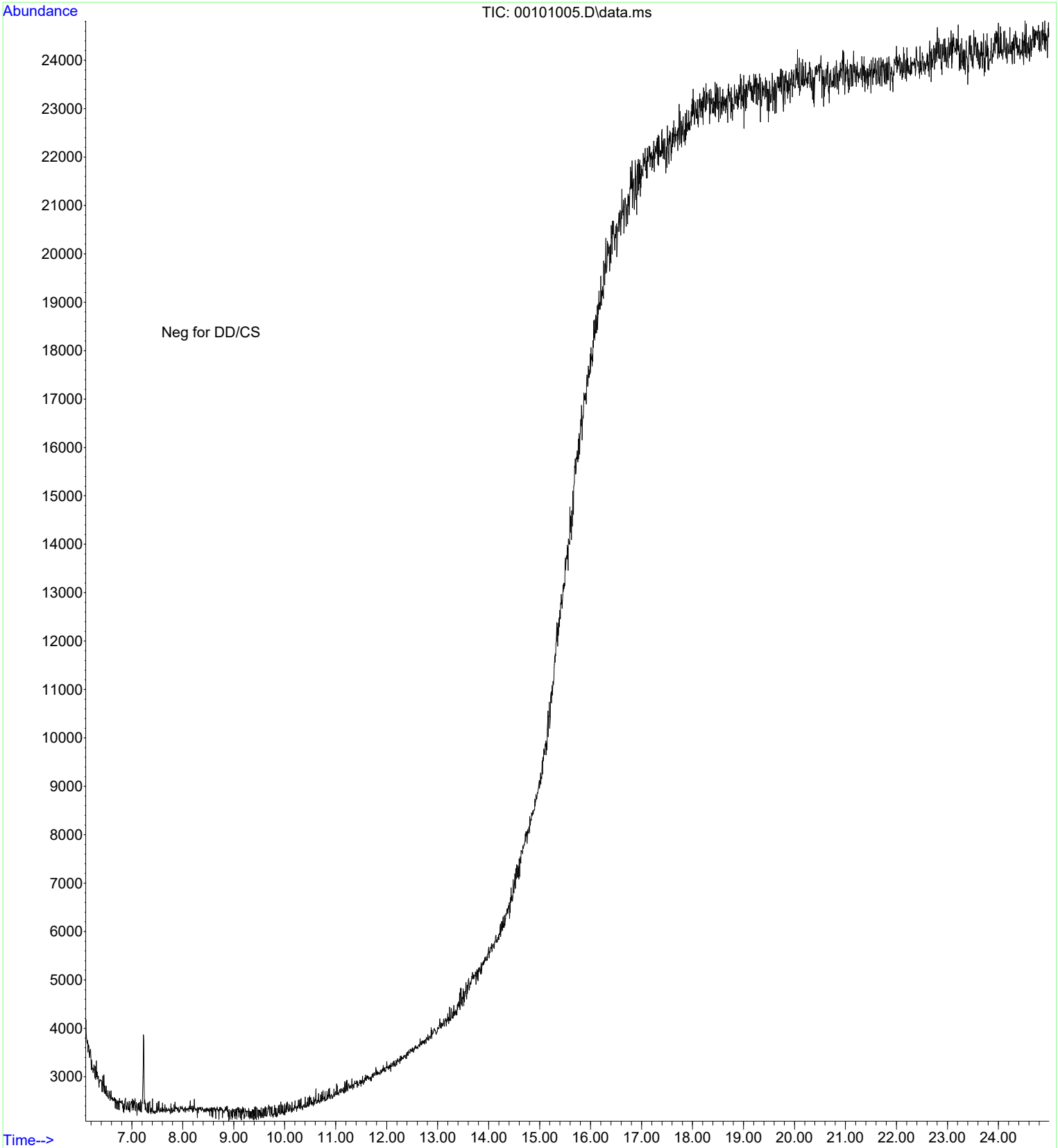




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... 2025 Data\081825\00103003.D
Acquired : 18 Aug 2025 08:03 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: BLANK (C-19-0068) prior to Cayman GC/MS mix 3 (R-24-060) 000002668
Misc Info : ACN 000002668
Vial Number: 1



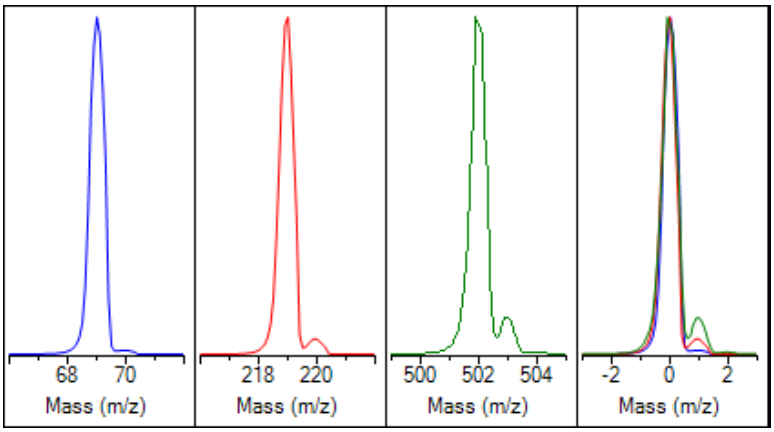
File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\081825\00101005.D
Acquired : 18 Aug 2025 09:01 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Blank (C-19-0068) - Instrument ready 000002668
Misc Info : ACN 000002668
Vial Number: 1



High Efficiency Source Autotune - 5977

Tune timestamp: 8/25/2025 8:44 AM (UTC-05:00) GCMS #4

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



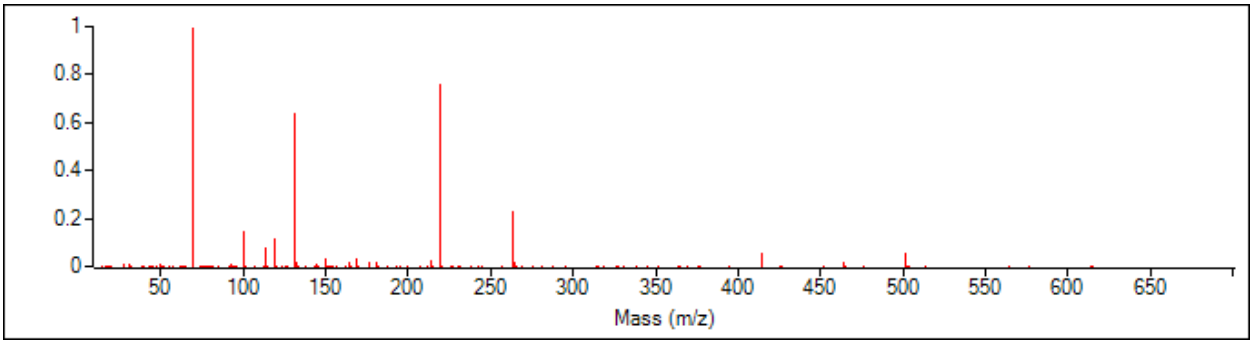
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	88
Electron Energy	70.0	Mass Offset	-28
Filament	1	Amu Gain	2467
Repeller	13.51	Amu Offset	136.44
Ion Focus	149.6	Width219	0.000
Entrance Lens	10.1	DC Polarity	Pos
Ent Lens Offset	19.10	HED Enable	On
Ion Body	5.00	EM Volts	1948.5
Post Extractor 1	16	Extractor Lens	12.80
Post Extractor 2	22	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	503,851	100.0%	0.60
219.00	391,962	77.8%	0.58
501.90	26,929	5.3%	0.61

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	7.66e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	133	69.00	472,960	1,651,943



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	472,960	100.0%	70.00	5,698	1.2%
219.00	219.00	358,528	75.8%	219.90	16,680	4.7%
502.00	502.00	25,640	5.4%	503.00	2,637	10.3%

Air/Water Check: H20 ~0.3% N2 ~1.2% O2 ~0.3% CO2 ~0.1% N2/H20 ~421.4%

Column(1) Flow: 0.70 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 128 volts using ion 502; Electron Multiplier Gain 14784.979

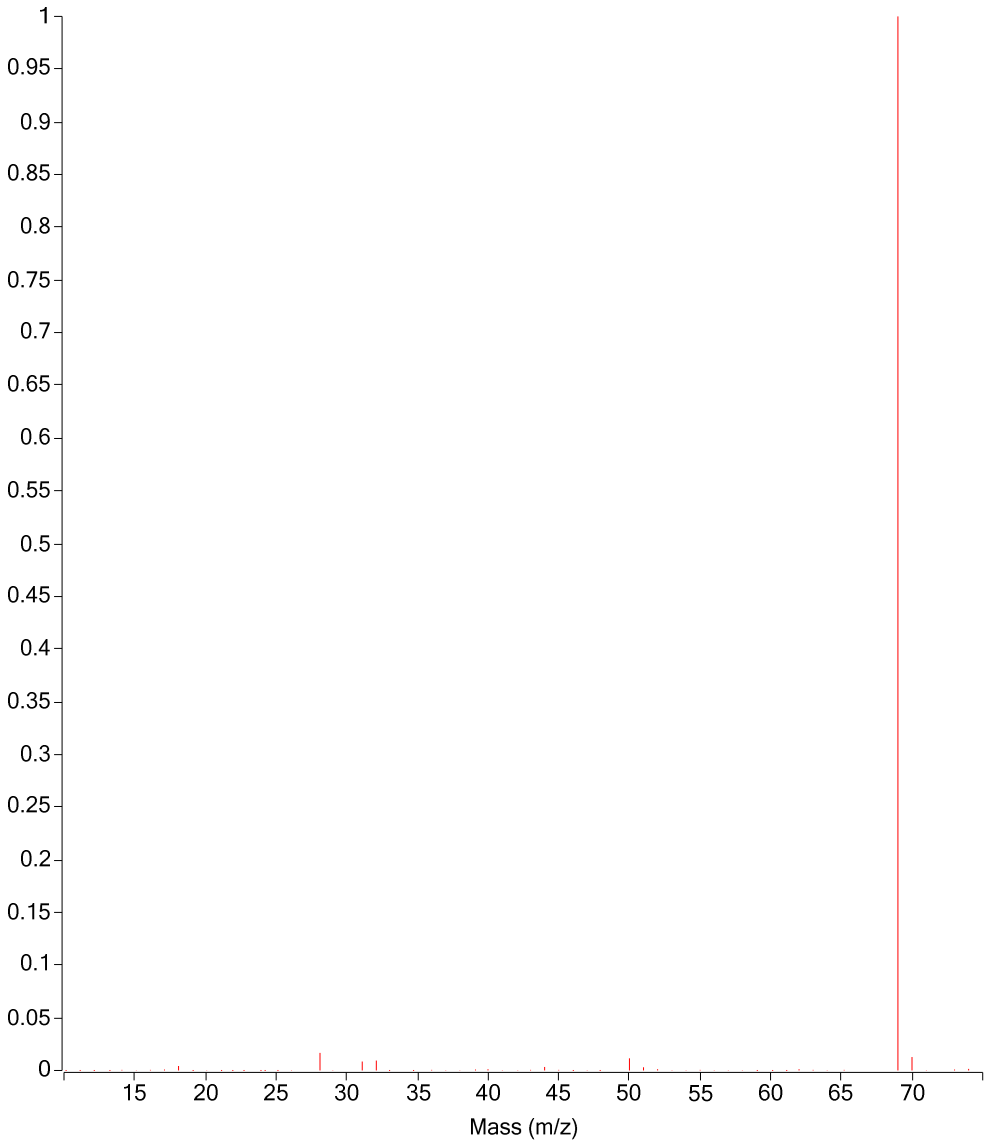
Repeller maximum 35 volts using ion 219; Gain Factor 0.1478

Mass Gain Values(Scan Speed): 89(3) 95(2) 102(1) 121(0) 173(FS1) 172(FS2) 140(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	136.4	136.4	136.4	136.4	136.4	136.4	136.4
Entrance Lens Offset	19.1	19.1	19.1	19.1	19.1	19.1	19.1

597x Air and Water Check

Instrument: GCMS #4
Mon Aug 25 08:34:21 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: HES_Atune.u

Relative abundances:

18/69 =	0.43	Water%	(counts=3757)
28/69 =	1.67	Nitrogen%	(counts=14510)
32/69 =	0.95	Oxygen%	(counts=8243)
44/69 =	0.32	Carbon Dioxide%	(counts=2799)
28/18 =	386.21	Nitrogen/Water%	

Instrument Name : GCMS #4
DC Polarity : Positive
Filament 1
Current Vacuum status :High Vacuum: 5.59E-06 Torr Turbo:100%

BasePeak should be 69 or 219		OK
Position of mass 69	69.00	OK
Position of mass 219	219.00	OK
Position of mass 502	502.00	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	219.91	OK
Position of isotope mass 503	502.99	OK
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.20	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.71	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.14	OK
Ratio of 219 to 69 should be > 40% and is	79.78	OK
Ratio of 502 to 69 should be > 2.4% and is	5.80	OK
Mass 69 Precursor (<= 3%)	0.91	OK
Mass 219 Precursor (<= 6%)	2.82	OK
Mass 502 Precursor (<= 12%)	3.95	OK

597x Air and Water Check
Mon Aug 25 08:47:44 2025 Instrument: GCMS #4
D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002

Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	0.28	OK
Ratio of 28 to 69 (<10%)	1.19	OK
Electron Multiplier Voltage	1949	OK

Tune portion of System Verification passed.

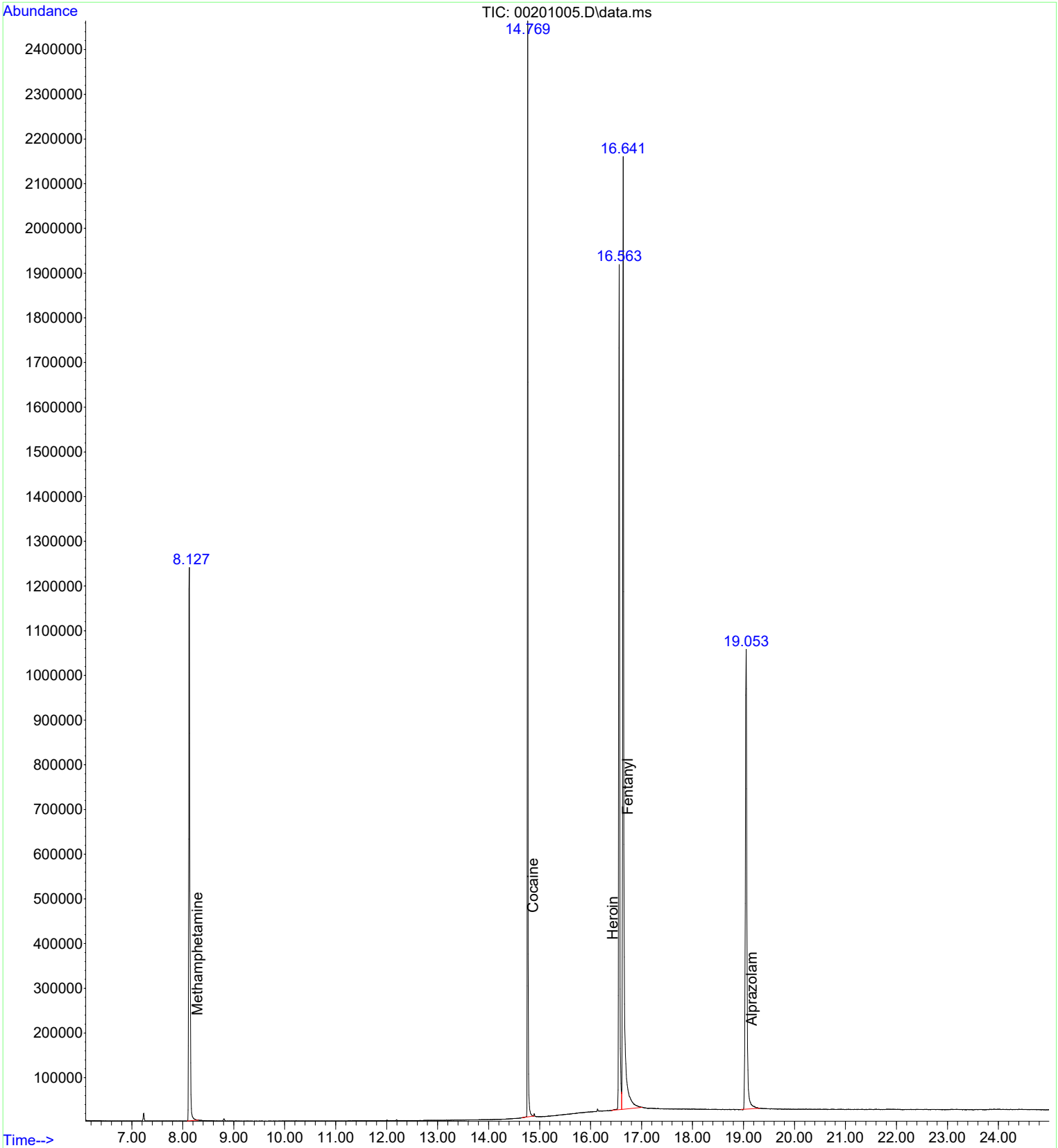
BCCL GC/MS #4
Retention Times for the Week of:

08/25/2025 - 08/31/2025

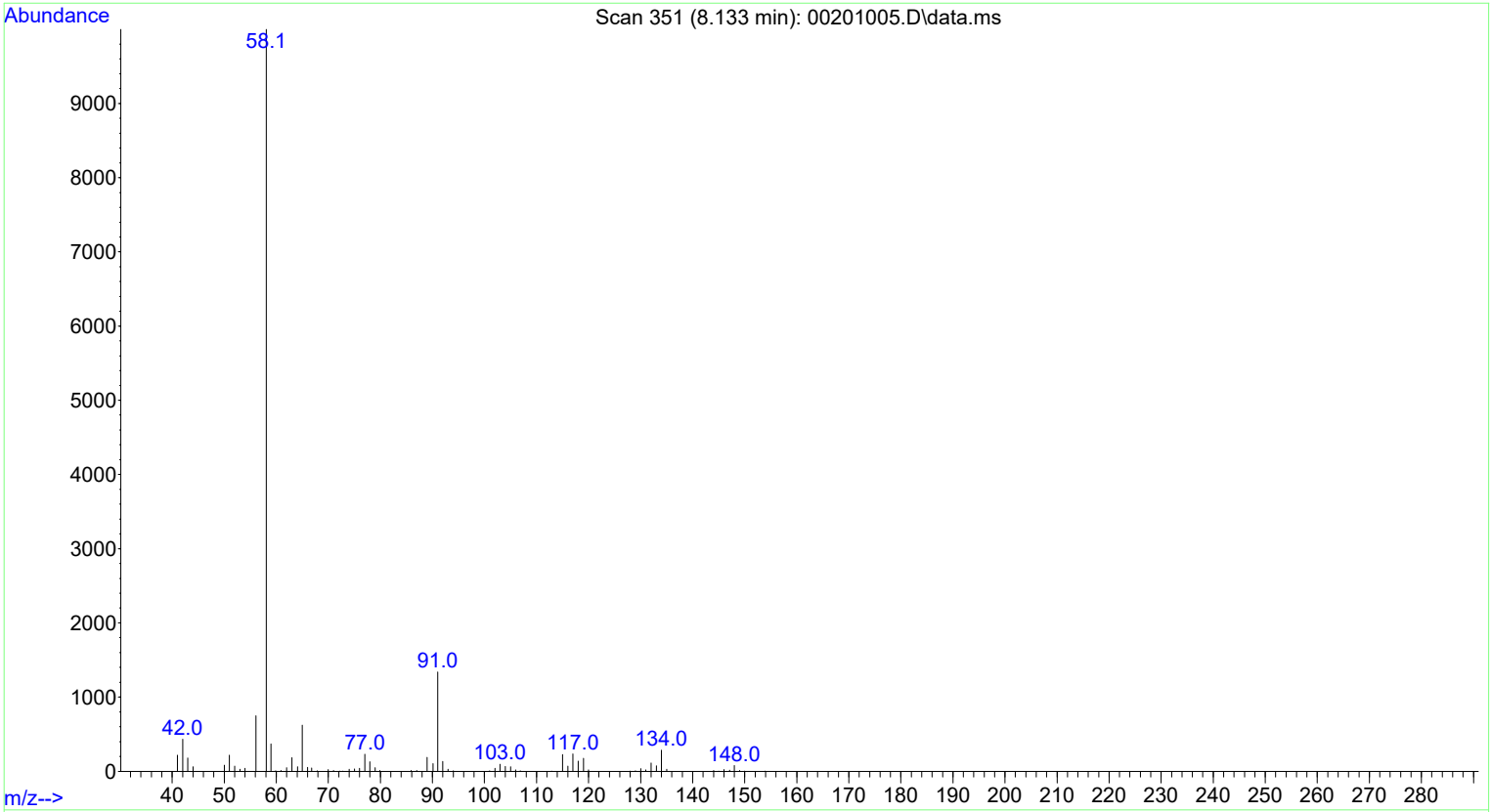
[X] **Tune: _DS_ 08/25/2025 - HES_Autotune**

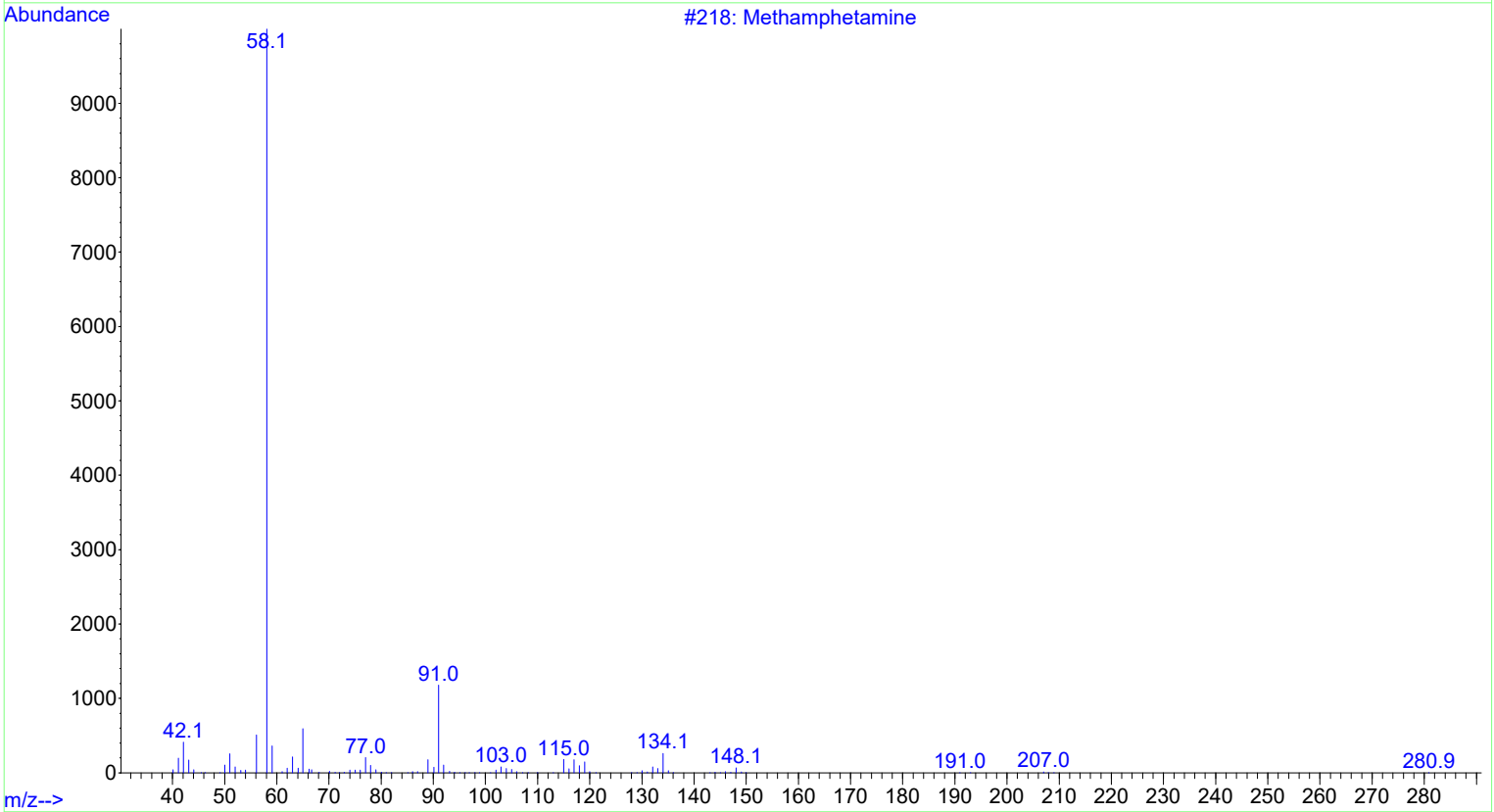
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35MS	8.127	8.045	8.208
Cocaine	R-24-060	DrugTest35MS	14.769	14.621	14.916
Heroin	R-24-060	DrugTest35MS	16.563	16.397	16.728
Fentanyl	R-24-060	DrugTest35MS	16.641	16.474	16.807
Alprazolam	R-24-060	DrugTest35MS	19.053	18.862	19.243
Psilocin	S-24-0005	DrugTest35MS	14.350	14.206	14.493

File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\082525\00201005.D
Acquired : 25 Aug 2025 10:56 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman Mix 3 (R-24-060) 000002669
Misc Info : in ACN 000002669
Vial Number: 2

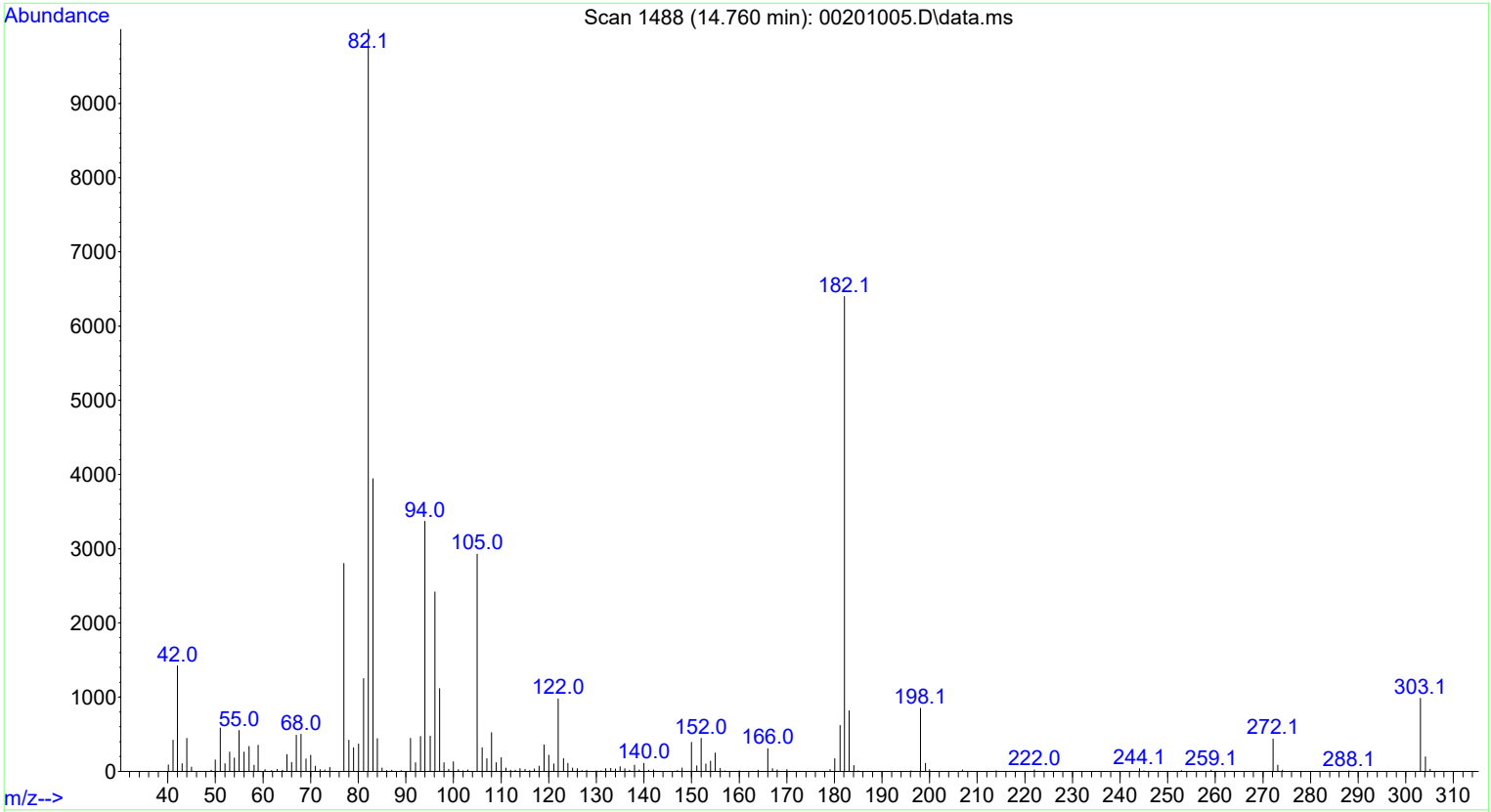


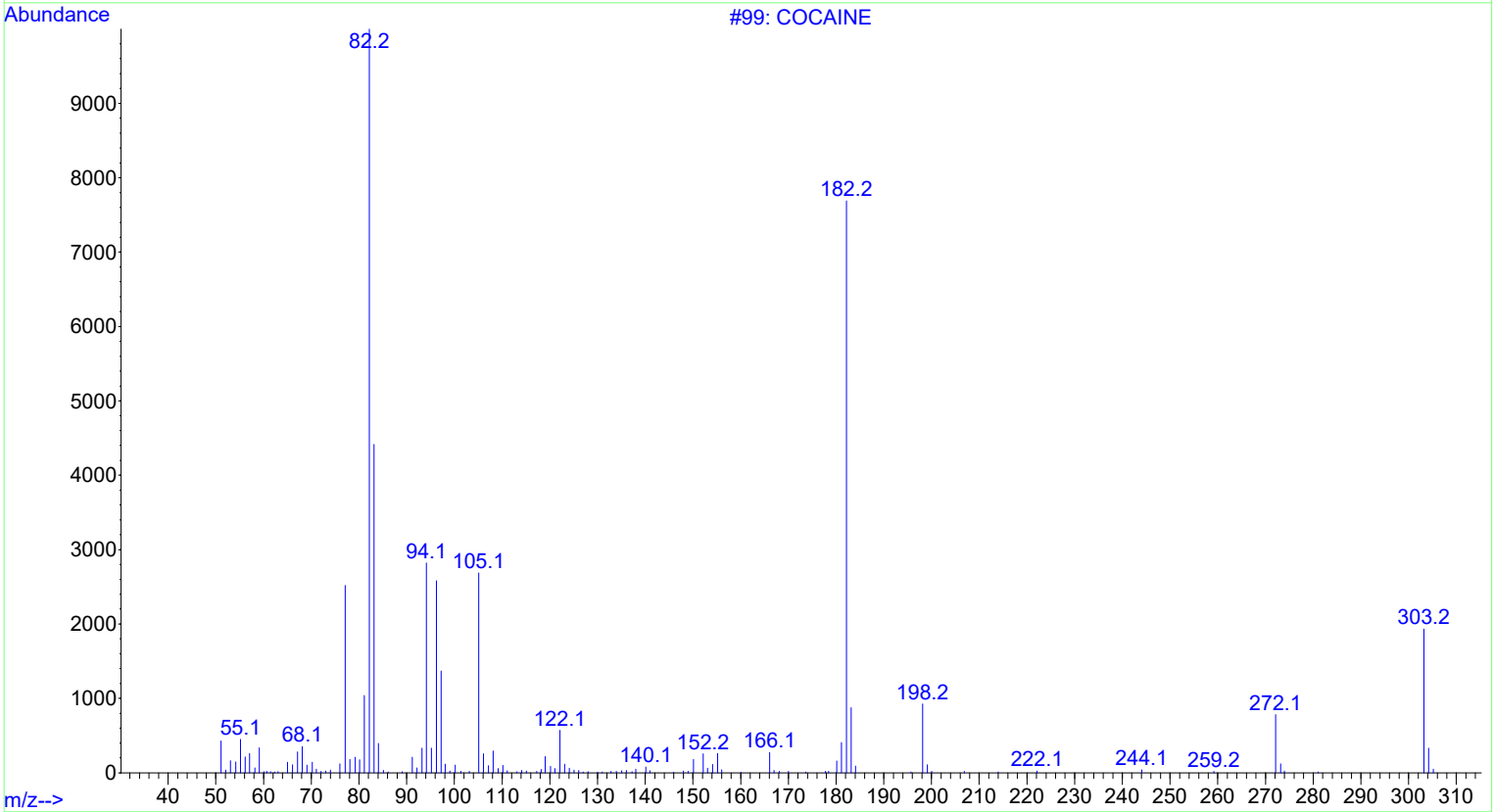
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... 2025 Data\082525\00201005.D
Acquired : 25 Aug 2025 10:56 using AcqMethod DrugTest35MS.M
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Misc Info : in ACN 000002669
Vial Number: 2



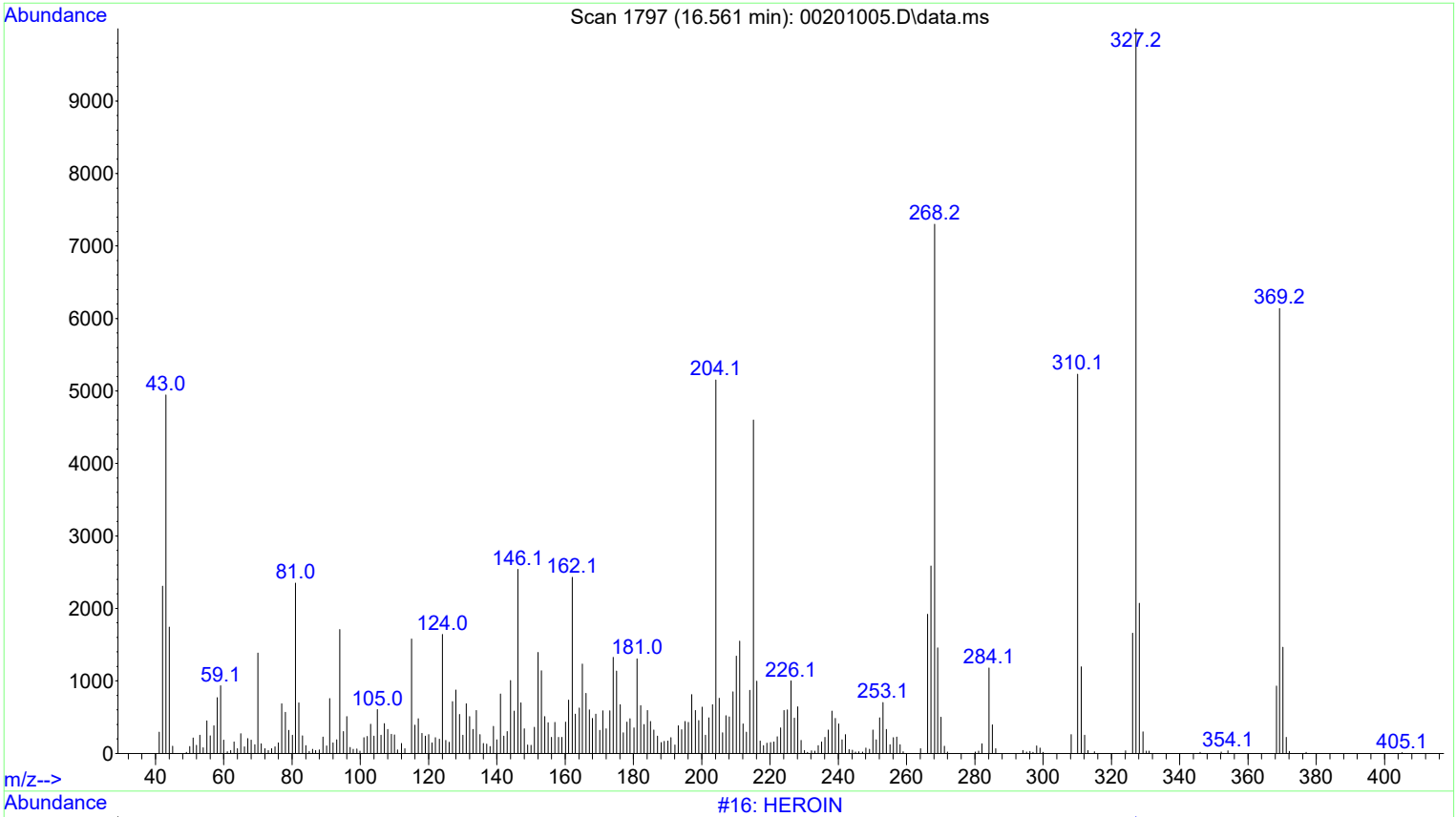


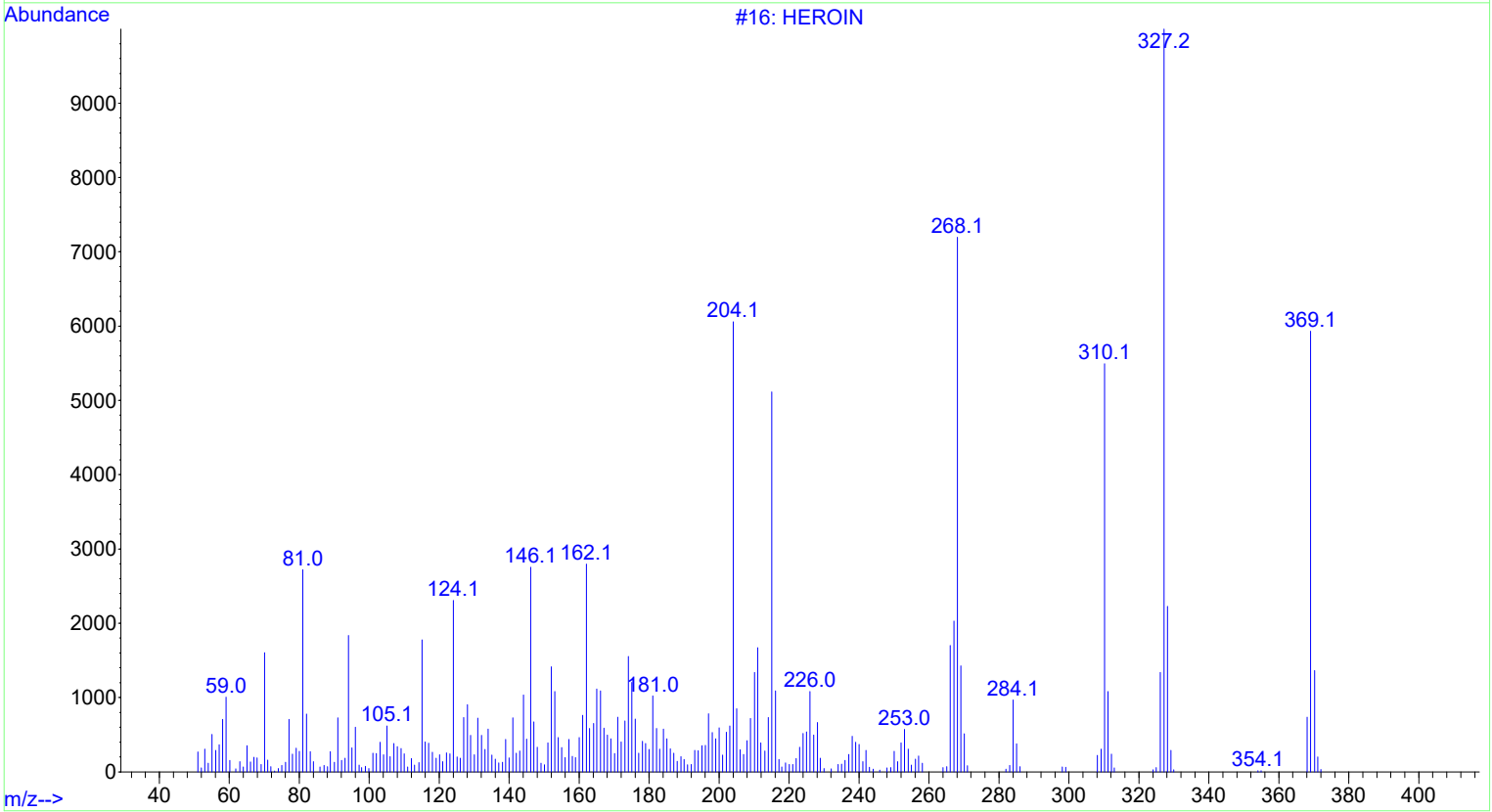
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... 2025 Data\082525\00201005.D
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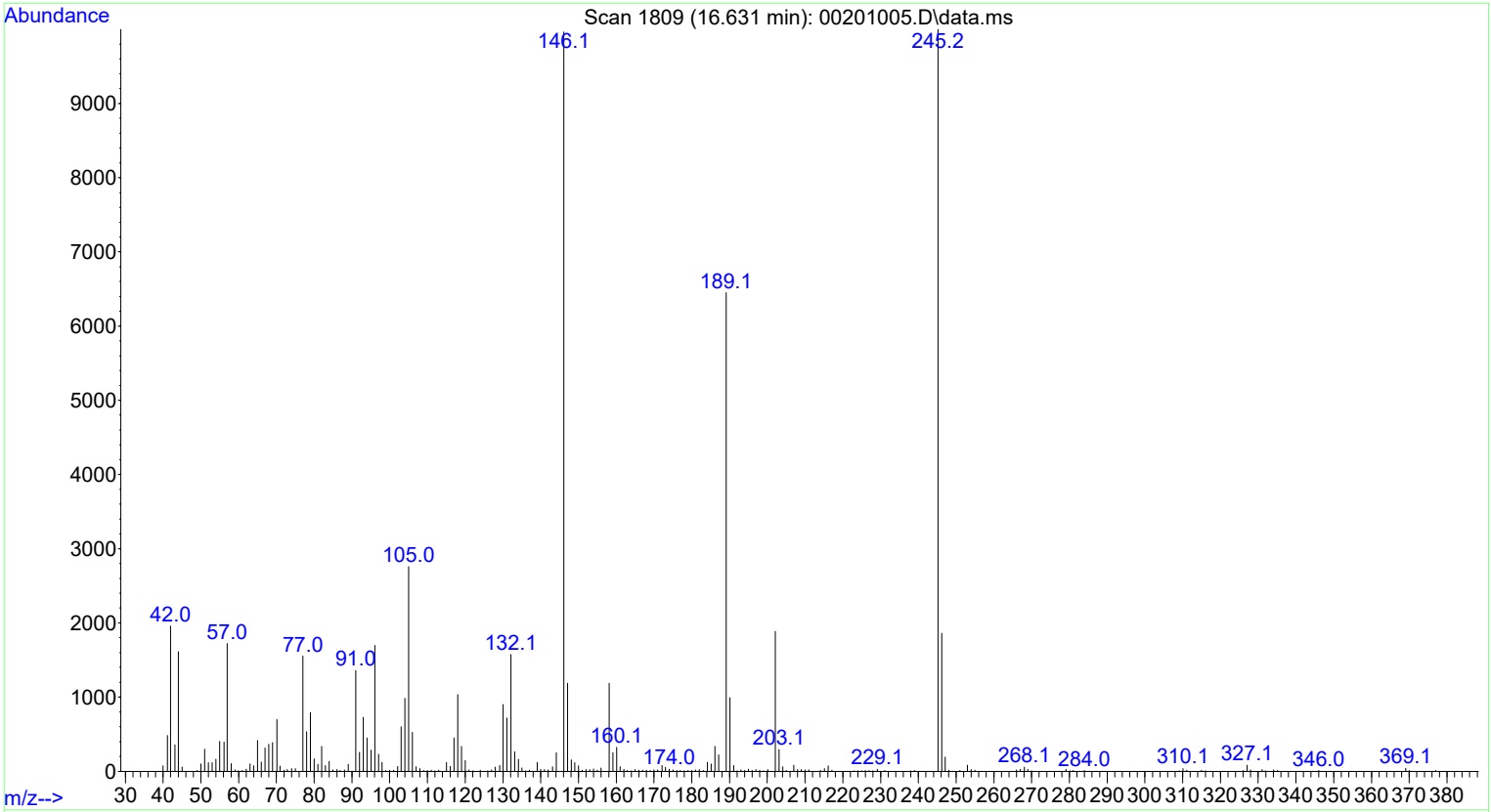


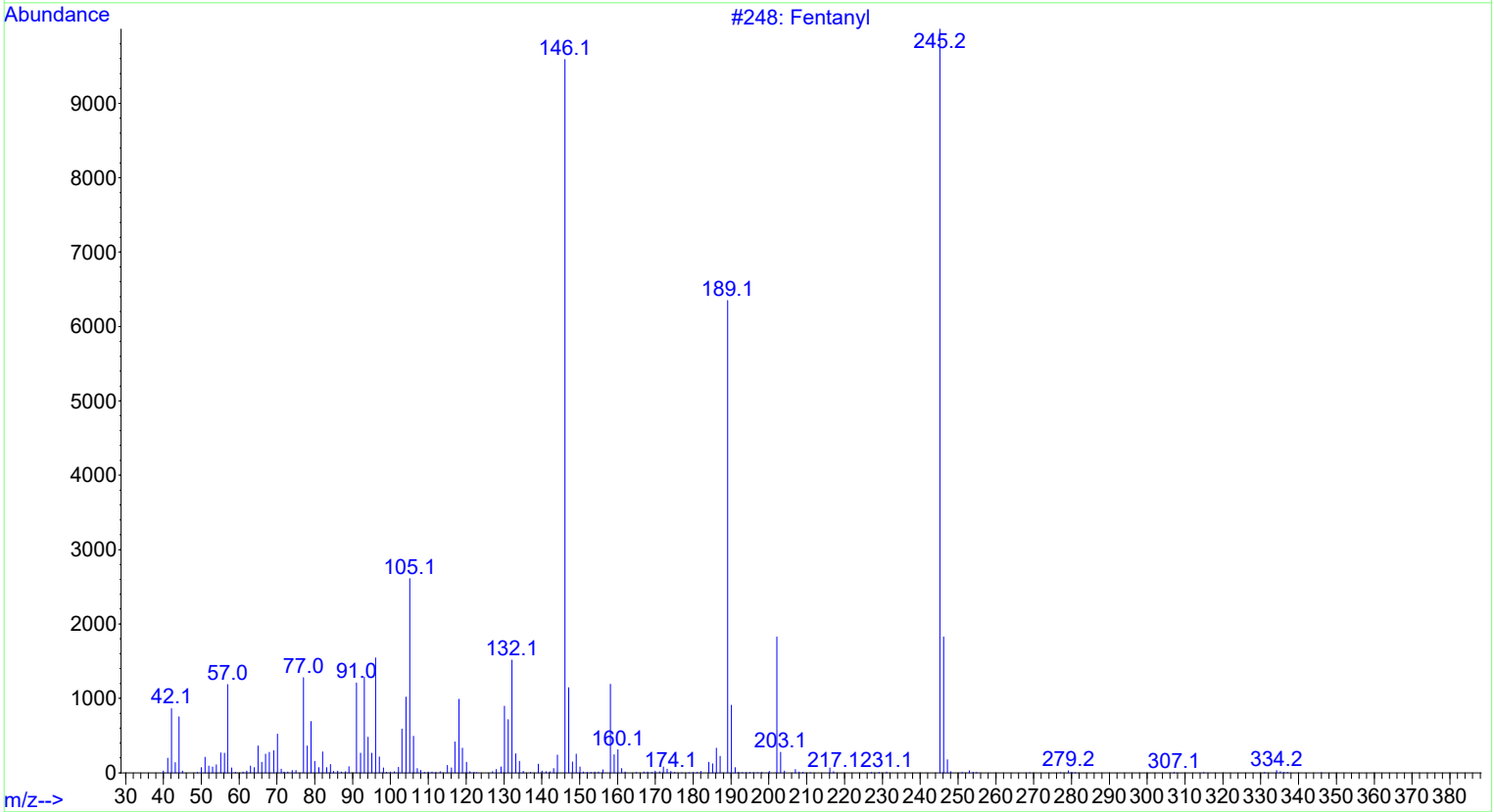
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... 2025 Data\082525\00201005.D
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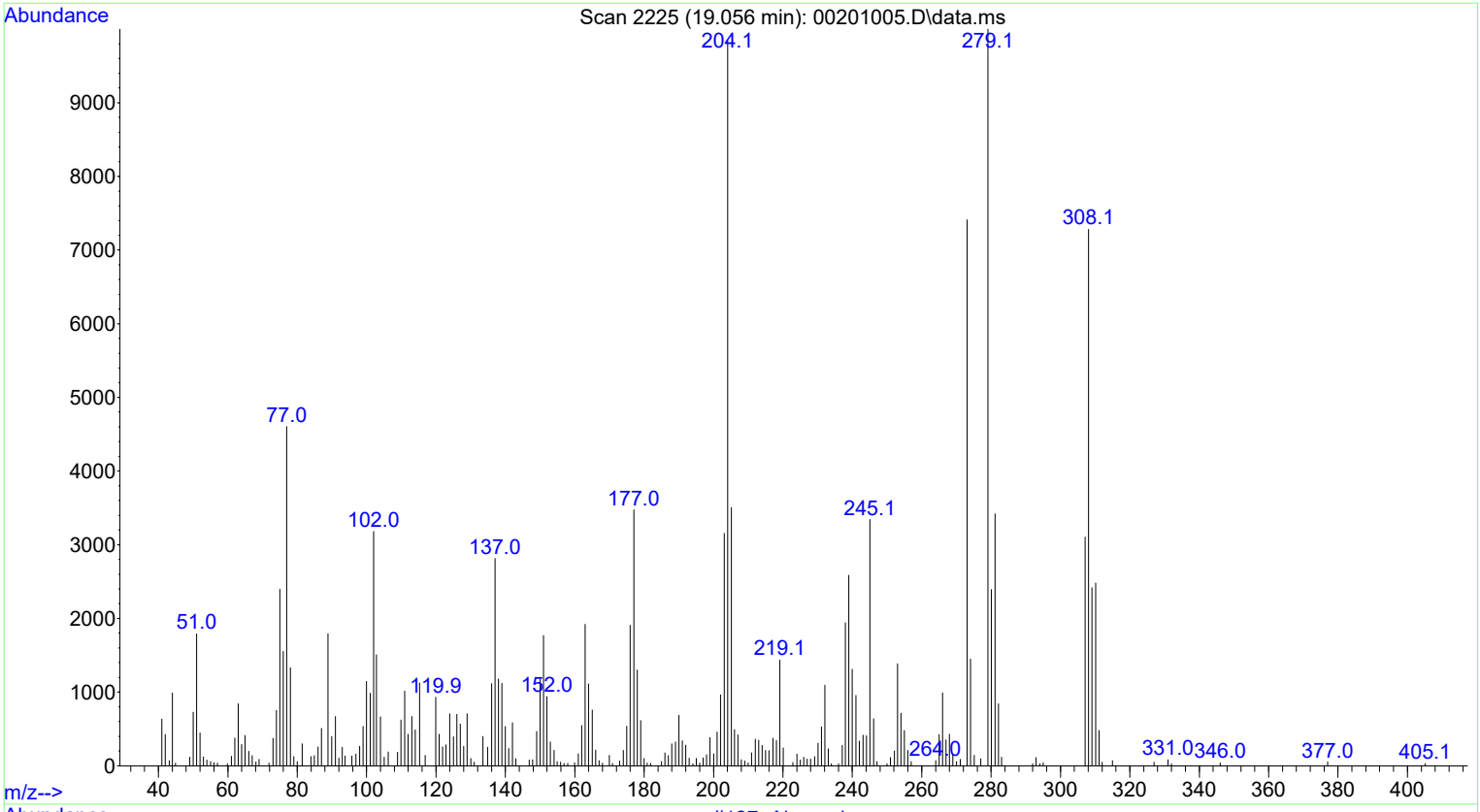


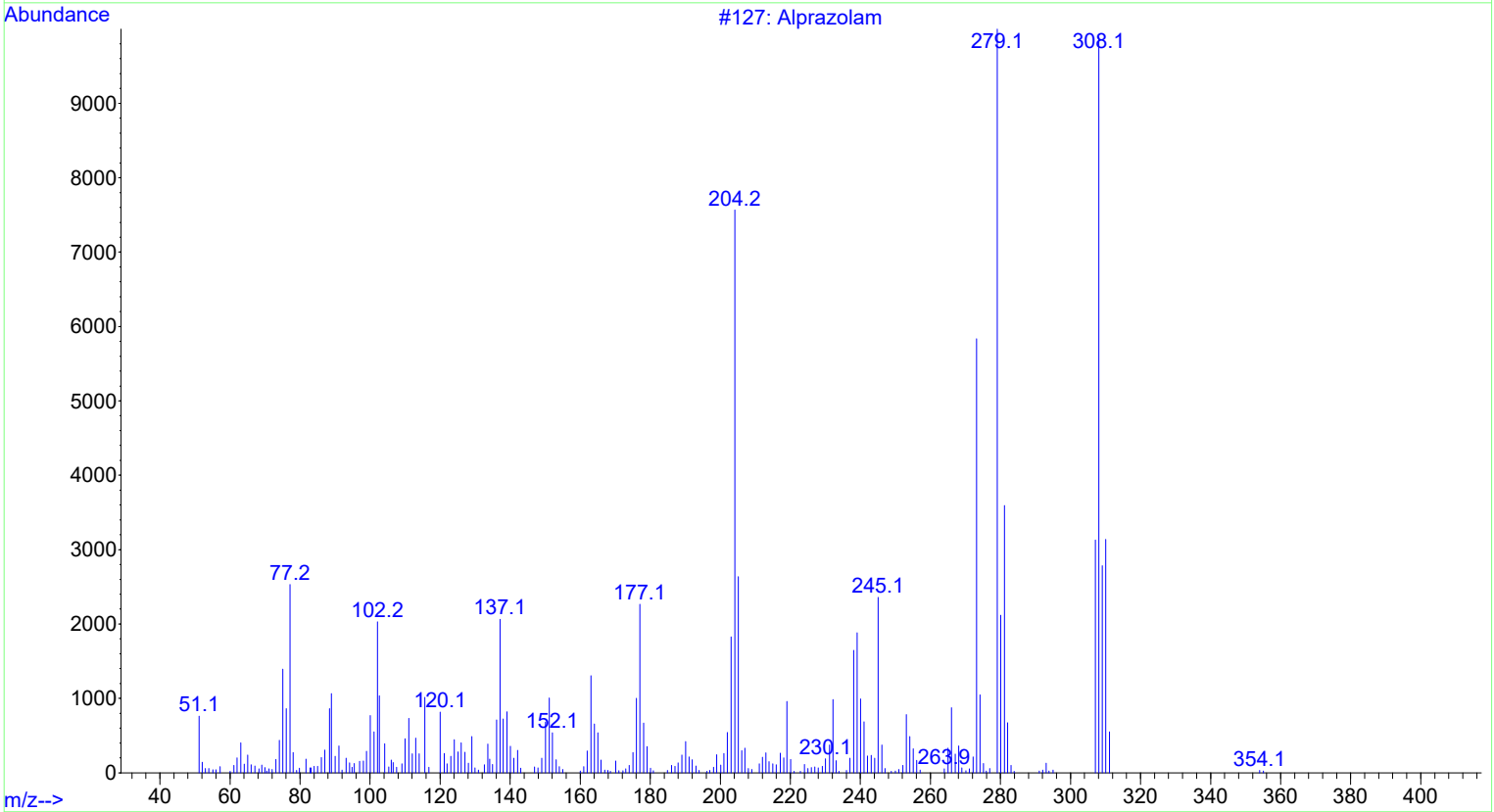
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... 2025 Data\082525\00201005.D
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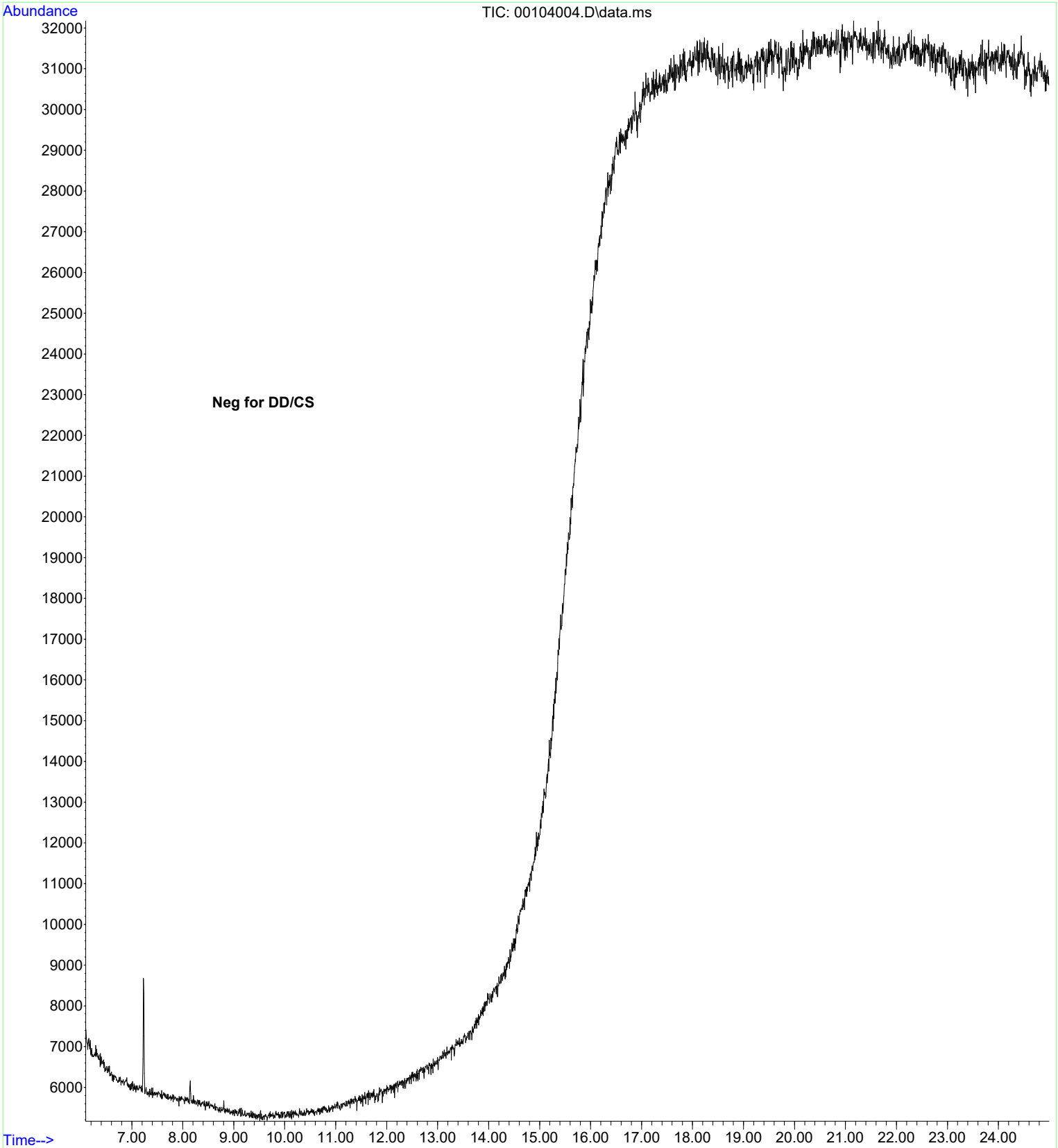


File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\082525\00201005.D
Acquired : 25 Aug 2025 10:56 using AcqMethod DrugTest35MS.M
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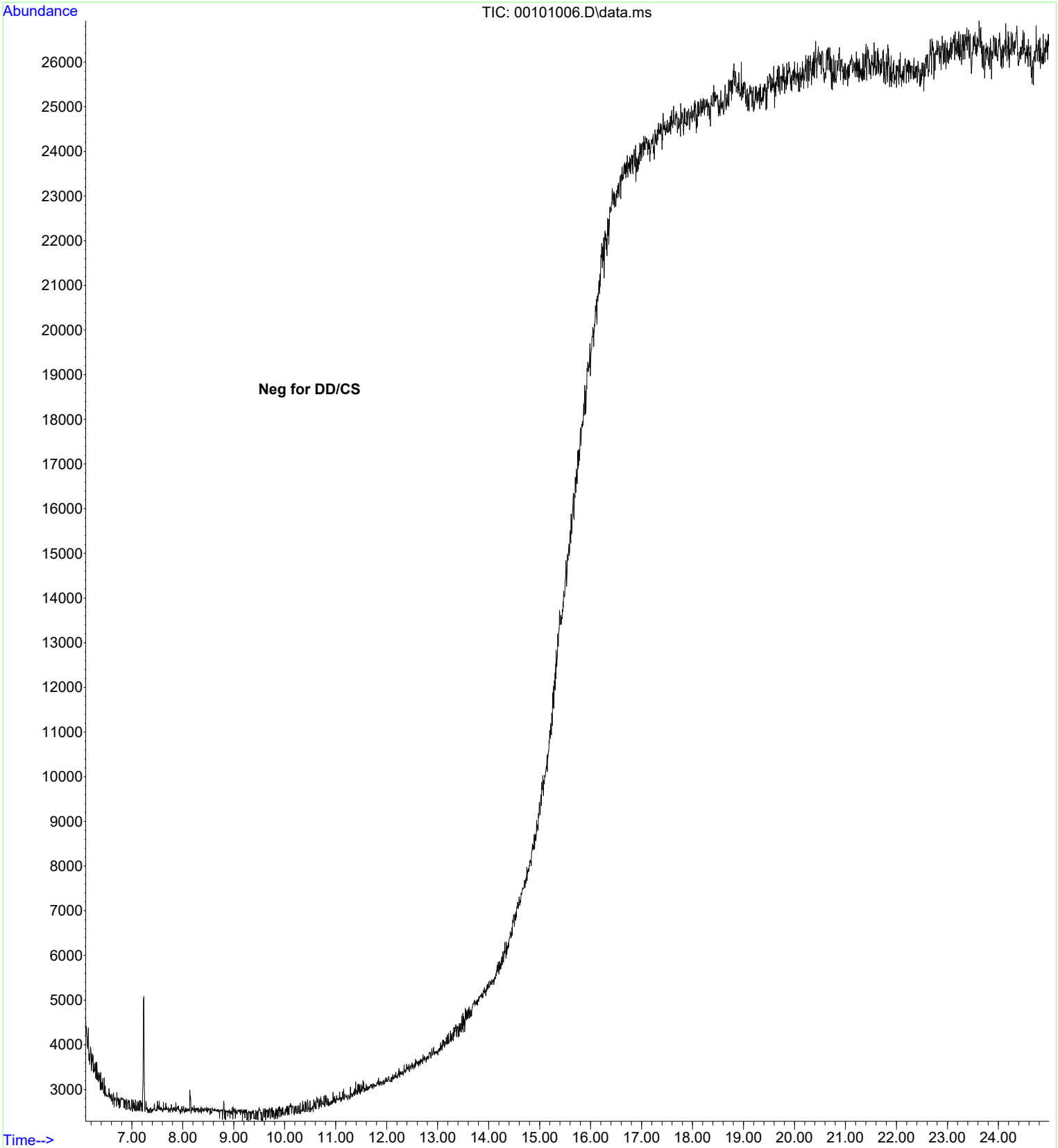




File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\082525\00104004.D
Acquired : 25 Aug 2025 10:27 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: blank prior to Cayman Mix 3 (R-24-060) 000002668
Misc Info : ACN (C-19-0068) 000002668
Vial Number: 1



File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Weekly Check Mix\
... 2025 Data\082525\00101006.D
Acquired : 25 Aug 2025 11:24 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Blank (C-19-0068) - Instrument Ready 000002668
Misc Info : ACN (C-19-0068) 000002668
Vial Number: 1



Brazoria County Crime Lab Area Percent Report

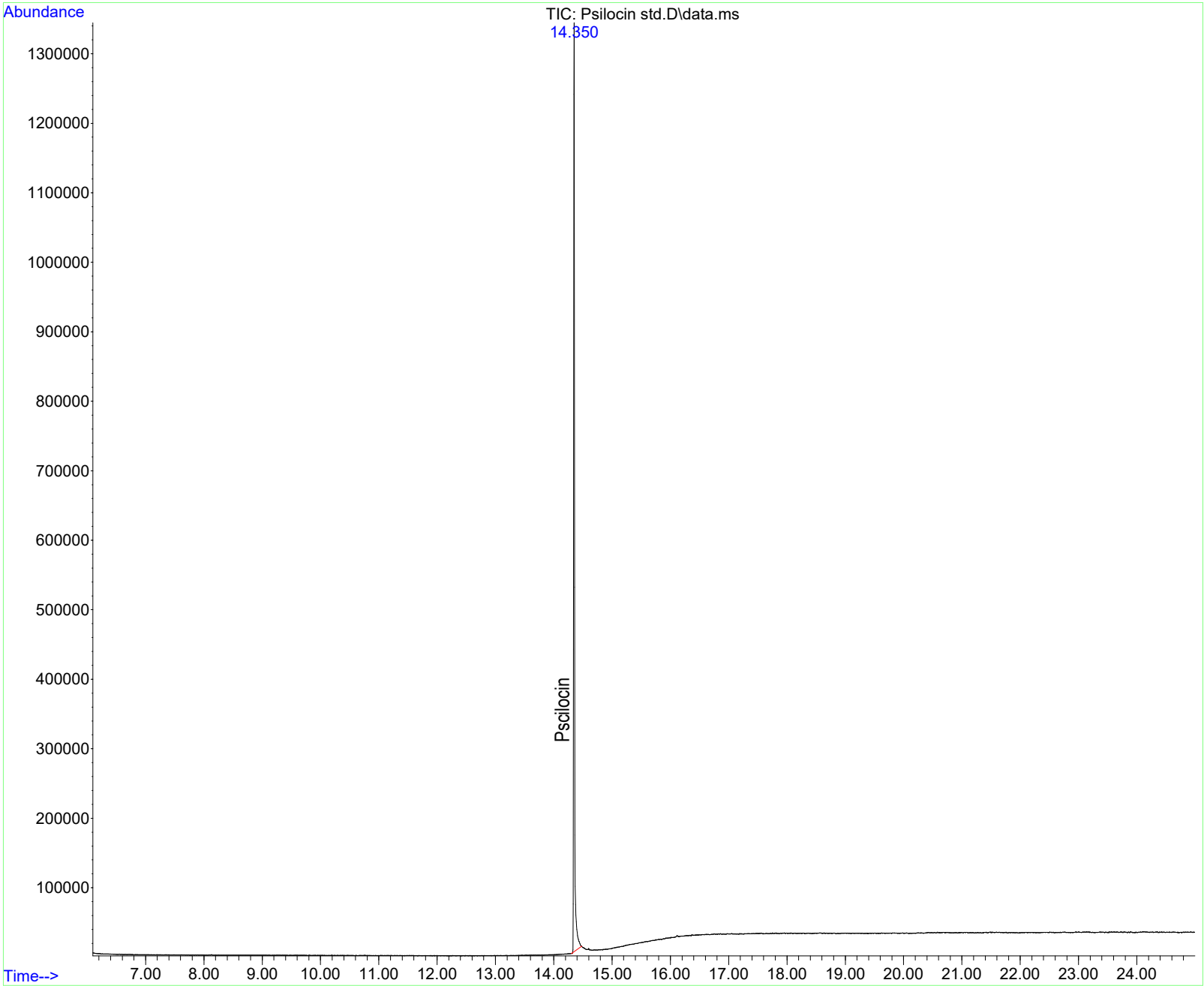
Data File: D:\MassHunter\GCMS\1\GCMS 4 data\2025 Data\082925\Psilocin std.D
Method : D:\MassHunter\GCMS\1\methods\DrugTest35MS.M
Operator : AGILENT 4
Acq On : 29 Aug 2025 21:22
Sample : Psilocin std (S-24-0005)
Misc : RT determination
ALS Vial : 147
ExpBcode : 000002280
ActBcode : 000002280

Signal : TIC: Psilocin std.D\data.ms

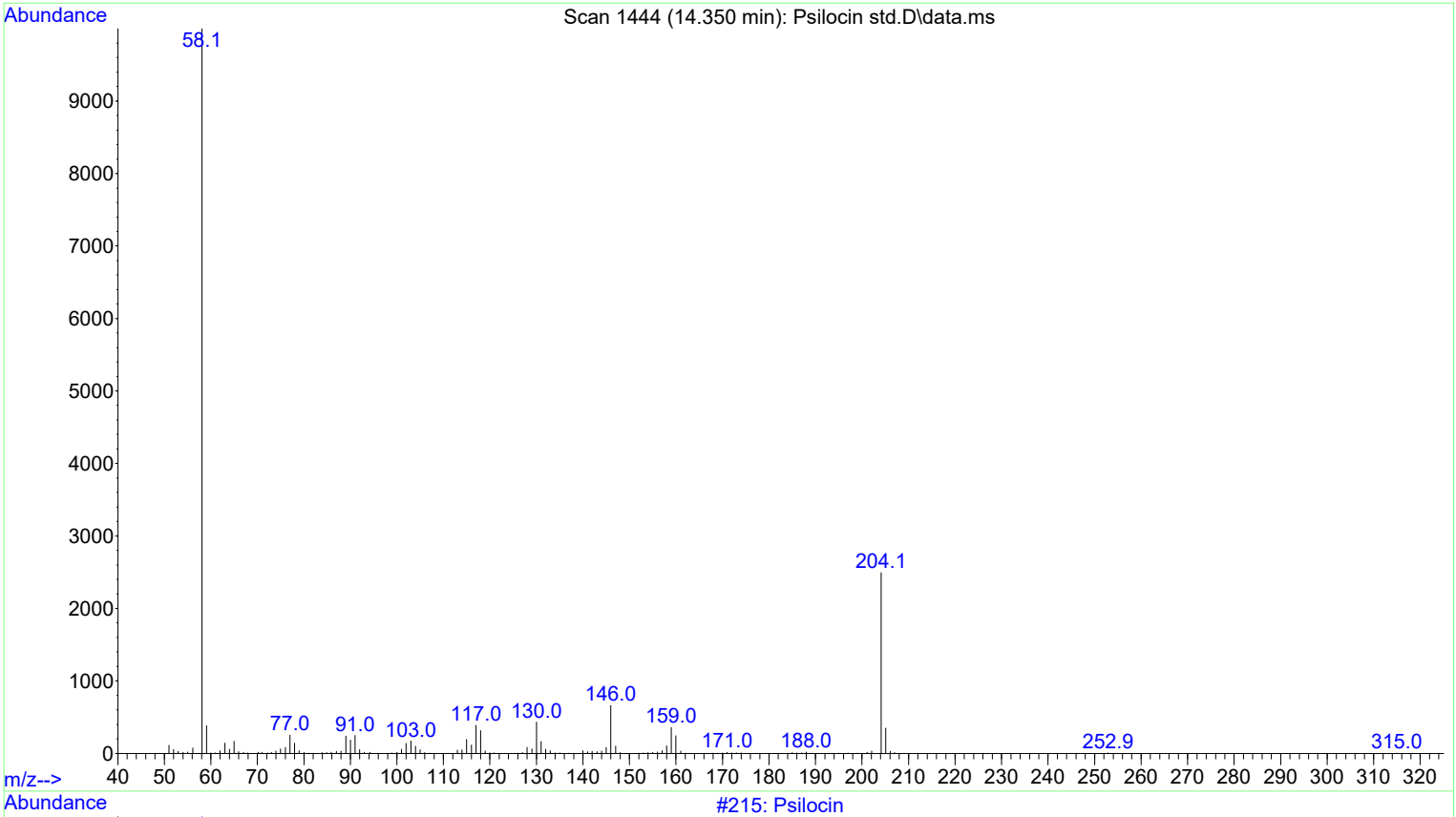
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	14.350	1436	1444	1466	BB	1310485	14464869	100.00%	100.000%

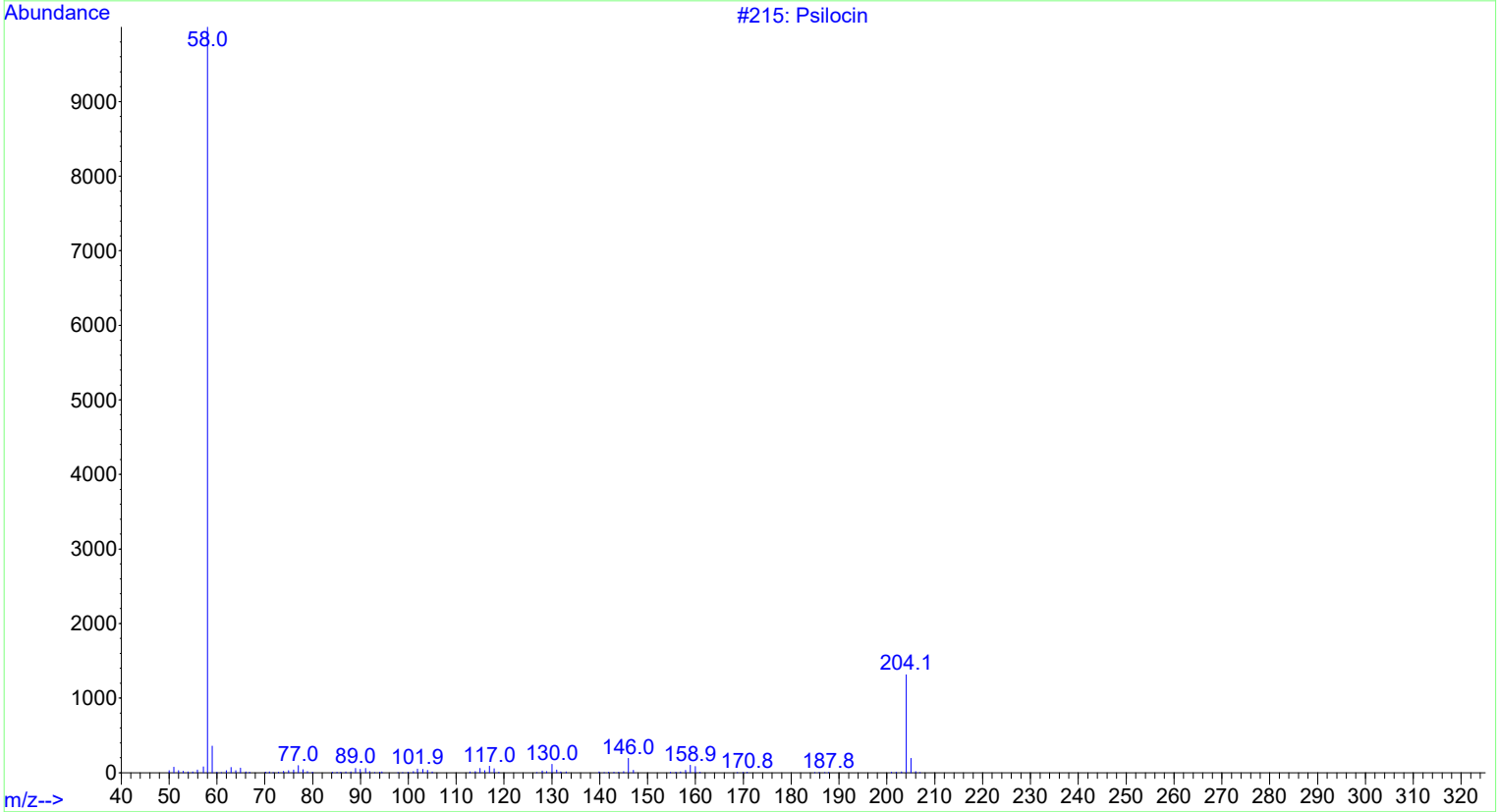
Sum of corrected areas: 14464869

DrugTest35MS.M Tue Sep 02 09:46:18 2025 DRUGS



File :D:\MassHunter\GCMS\1\GCMS 4 data\2025 Data\082925\Psilocin s
... td.D
Acquired : 29 Aug 2025 21:22 using AcqMethod DrugTest35MS_20X.M
Instrument : GCMS #4
Sample Name: Psilocin std (S-24-0005) 000002280
Misc Info : RT determination 000002280
Vial Number: 147





File :D:\MassHunter\GCMS\1\GCMS 4 data\2025 Data\082925\Psilocin s
... td-blk.D
Acquired : 29 Aug 2025 20:54 using AcqMethod DrugTest35MS_20X.M
Instrument : GCMS #4
Sample Name: blank prior to Psilocin std (S-24-0005) 000002794
Misc Info : DCM (C-22-0015B) + MeOH (C-20-0050B) 000002794
Vial Number: 141

