Brazoria County Crime Lab

Seized Drugs Section

GC-MS Maintenance Log

Instrument: GCMS-3 **Month/Year:** February 2025

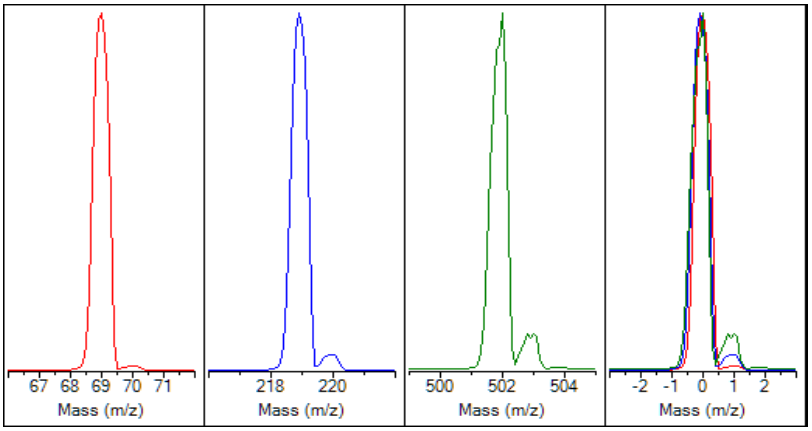
Entry Number	Date	He Tank Pressure	Autotune	Septum Change	Wash Vials Filled	Liner Change	Gold Seal Replaced	Column Cut	Computer Restarted	Maintenance/ PM	Analyst/ Technician	Comments	Initials
1	2/3/2025	N/A	Pass	N/A	✓	N/A	N/A	N/A	N/A	Maintenance	Analyst		DS
2	2/6/2025	2600	Pass	N/A	N/A	N/A	N/A	N/A	N/A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

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

Autotune - 5977

2/3/2025 9:02:51 AM (UTC-6:00) BCCL GCMS #3

D:\MASSHUNTER\GCMS\1\5977\atune.u US1329M205



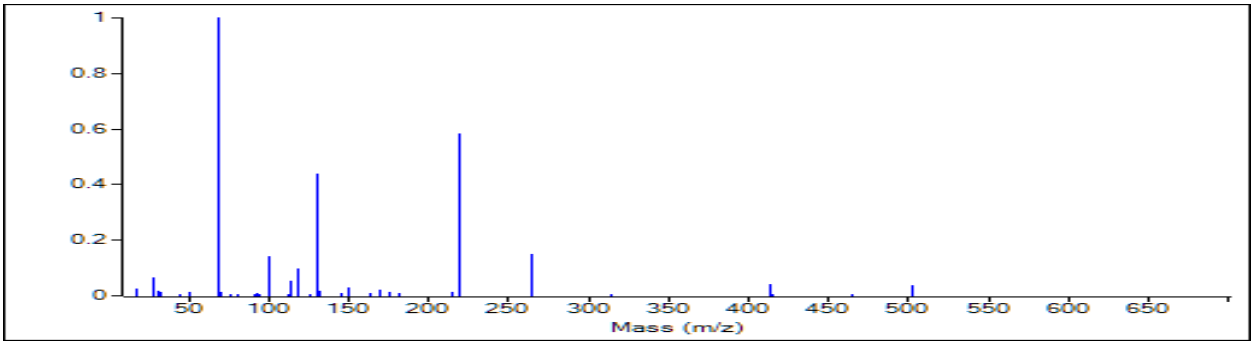
Ion Polarity	Pos	Mass Gain	-358
Emission	34.6	Mass Offset	-35
Electron Energy	70.0	Amu Gain	1671
Filament	1	Amu Offset	119.00
Repeller	34.90	Width219	-0.001
Ion Focus	90.3	DC Polarity	Pos
Entrance Lens	7.5	HED Enable	On
Ent Lens Offset	14.06	EM Volts	1817.6
Ion Body	0.00	Extractor Lens	0.00
		Scan Speed	3
		Averages	3
PFTBA	Open	Step Size	0.10

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	8.10e-06

Mass	Abund	Rel Abund	Pw50
69.00	444,768	100.0%	0.60
218.90	259,025	58.2%	0.61
502.00	16,015	3.6%	0.60

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	94	69.00	435,328	1,264,744



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	435,328	100.00	70.00	4,954	1.14
219.00	253,952	58.34	220.00	11,267	4.44
502.00	15,600	3.58	503.00	1,539	9.87

Air/Water Check: H20 ~2.4% N2 ~6.3% O2 ~1.3% CO2 ~0.3% N2/H20 ~267.3%

Column(1) Flow: 0.80 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 58625.932

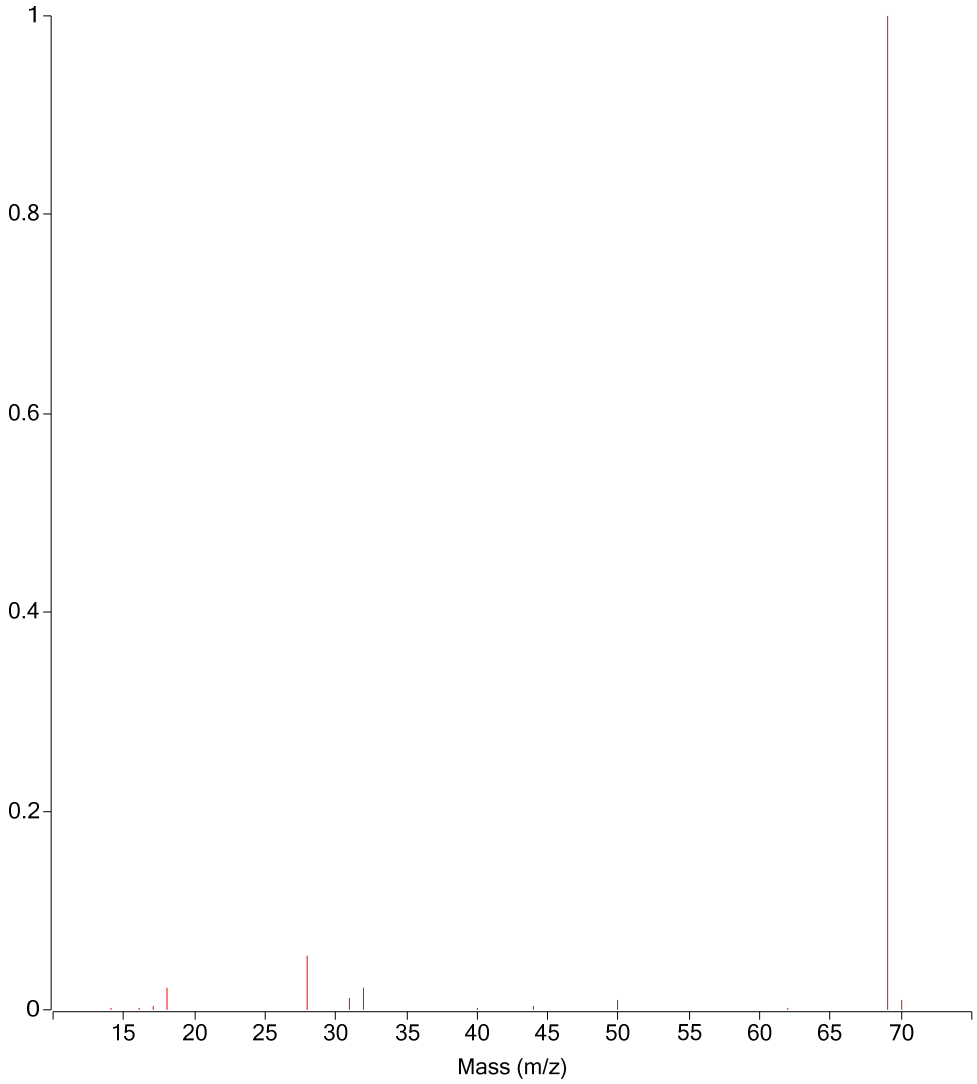
Repeller maximum 35 volts using ion 219; Gain Factor 0.5863

Mass Gain Values(Scan Speed): -351(3) -341(2) -316(1) -282(0) -229(FS1) -228(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	119.0	119.0	119.0	119.0	119.0	119.0	119.0
Entrance Lens Offset	14.1	14.1	14.1	14.1	14.1	14.1	14.1

597x Air and Water Check

Instrument: BCCL GCMS #3
Mon Feb 03 08:56:46 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: atune.u

Relative abundances:

18/69 =	2.15	Water%	(counts=17832)
28/69 =	5.34	Nitrogen%	(counts=44328)
32/69 =	2.23	Oxygen%	(counts=18520)
44/69 =	0.44	Carbon Dioxide%	(counts=3688)
28/18 =	248.59	Nitrogen/Water%	

Instrument Name : BCCL GCMS #3
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	220.00	OK
Position of isotope mass 503	503.00	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%)	4.34	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.05	OK
Ratio of 219 to 69 should be > 40% and is	58.67	OK
Ratio of 502 to 69 should be > 2.4% and is	3.52	OK
Mass 69 Precursor (<= 3%)	0.12	OK
Mass 219 Precursor (<= 6%)	0.30	OK
Mass 502 Precursor (<= 12%)	2.40	OK

597x Air and Water Check
Mon Feb 03 09:09:08 2025 Instrument: BCCL GCMS #3
D:\MASSHUNTER\GCMS\1\5977\atune.u US1329M205

Testing for a leak in the system

Ratio of 18 to 69 (<20%)	1.98	OK
Ratio of 28 to 69 (<10%)	5.09	OK
Electron Multiplier Voltage	1818	OK

Tune portion of System Verification passed.

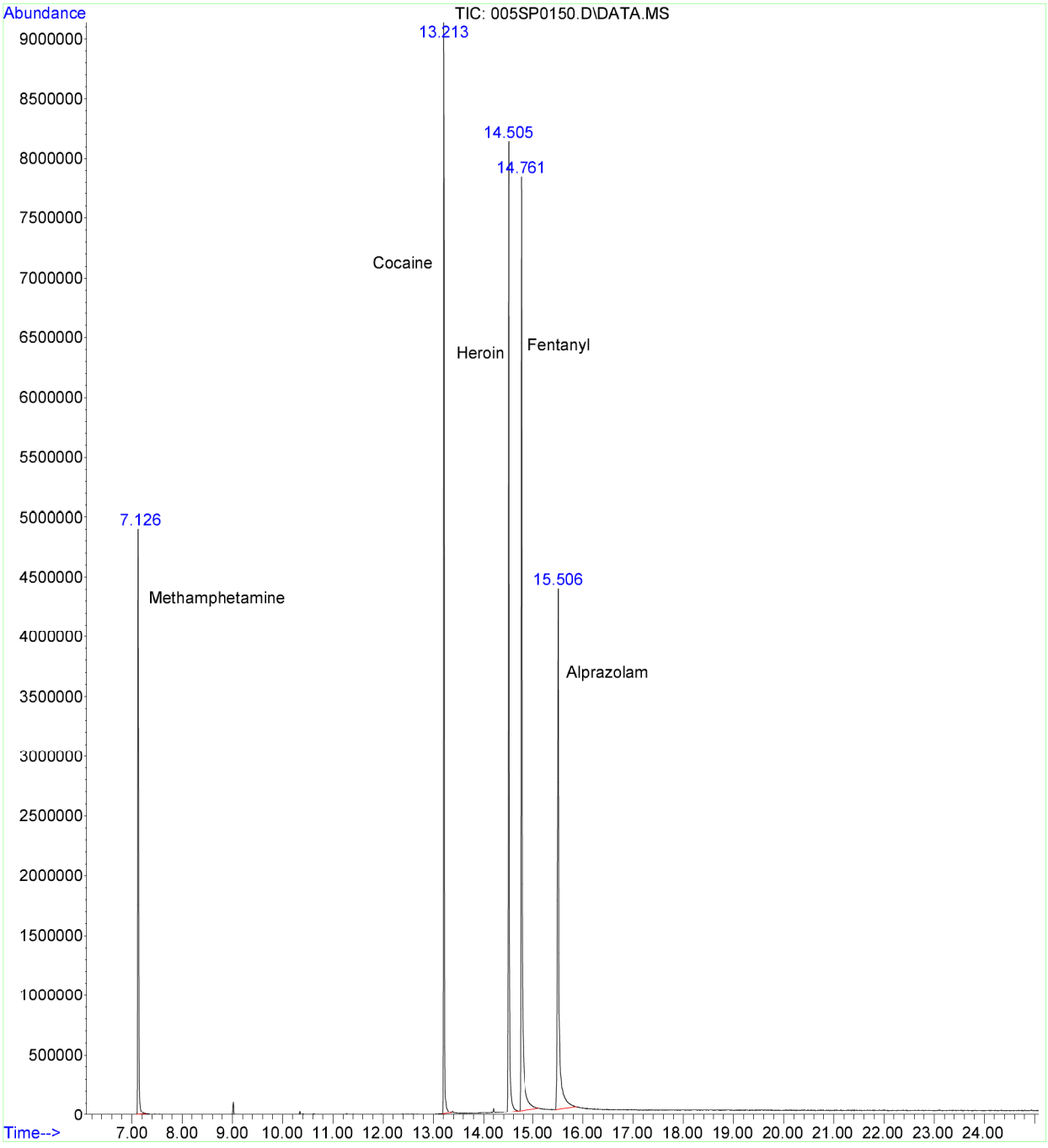
BCCL GC/MS #3
Retention Times for the Week of:

02/03/2025 - 02/09/2025

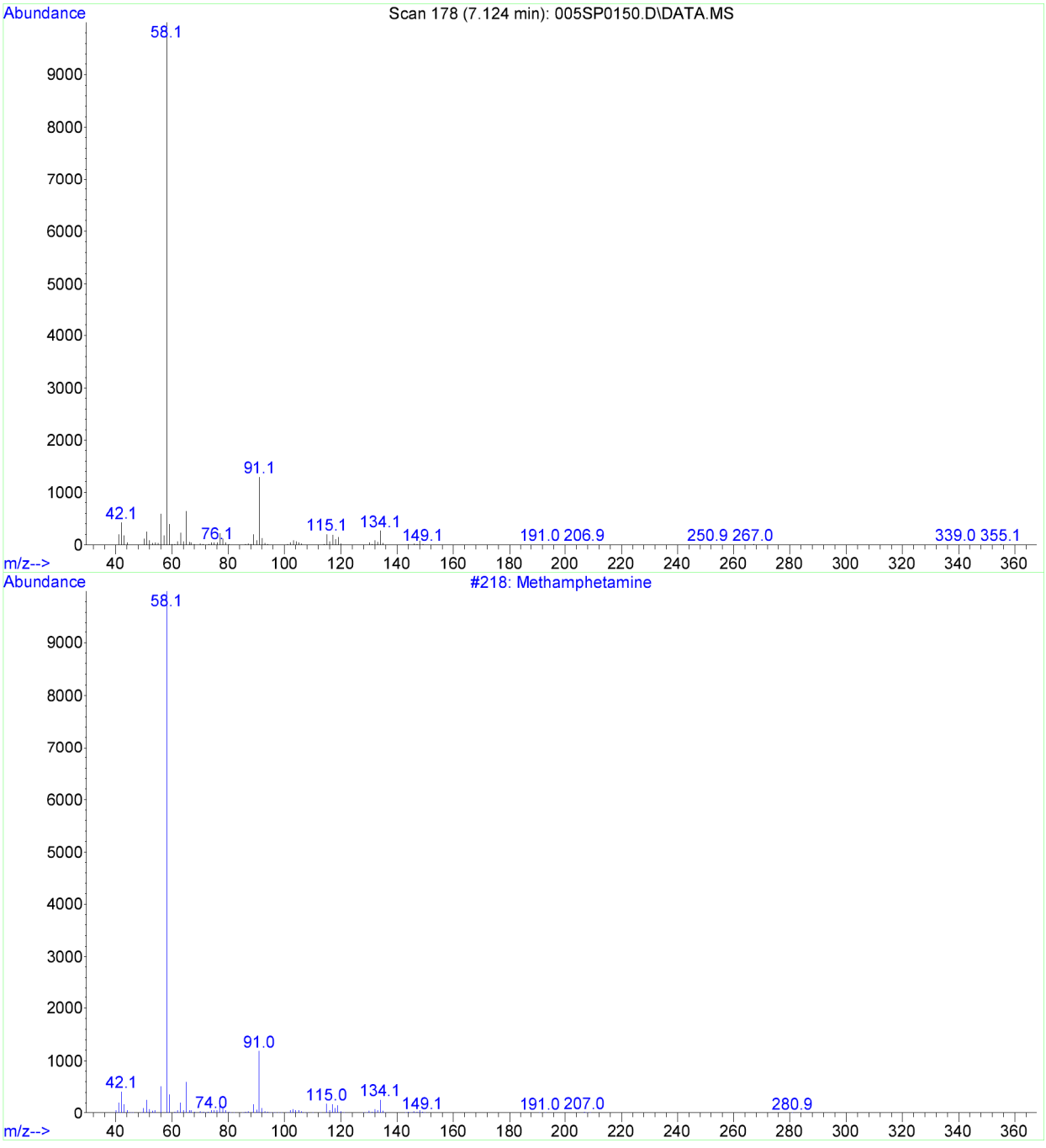
[X] **Tune: _DS__02/03/2025 - Autotune_____**

Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35	7.126	7.054	7.197
Cocaine	R-24-060	DrugTest35	13.213	13.080	13.345
Heroin	R-24-060	DrugTest35	14.505	14.359	14.650
Fentanyl	R-24-060	DrugTest35	14.761	14.613	14.908
Alprazolam	R-24-060	DrugTest35	15.506	15.350	15.661

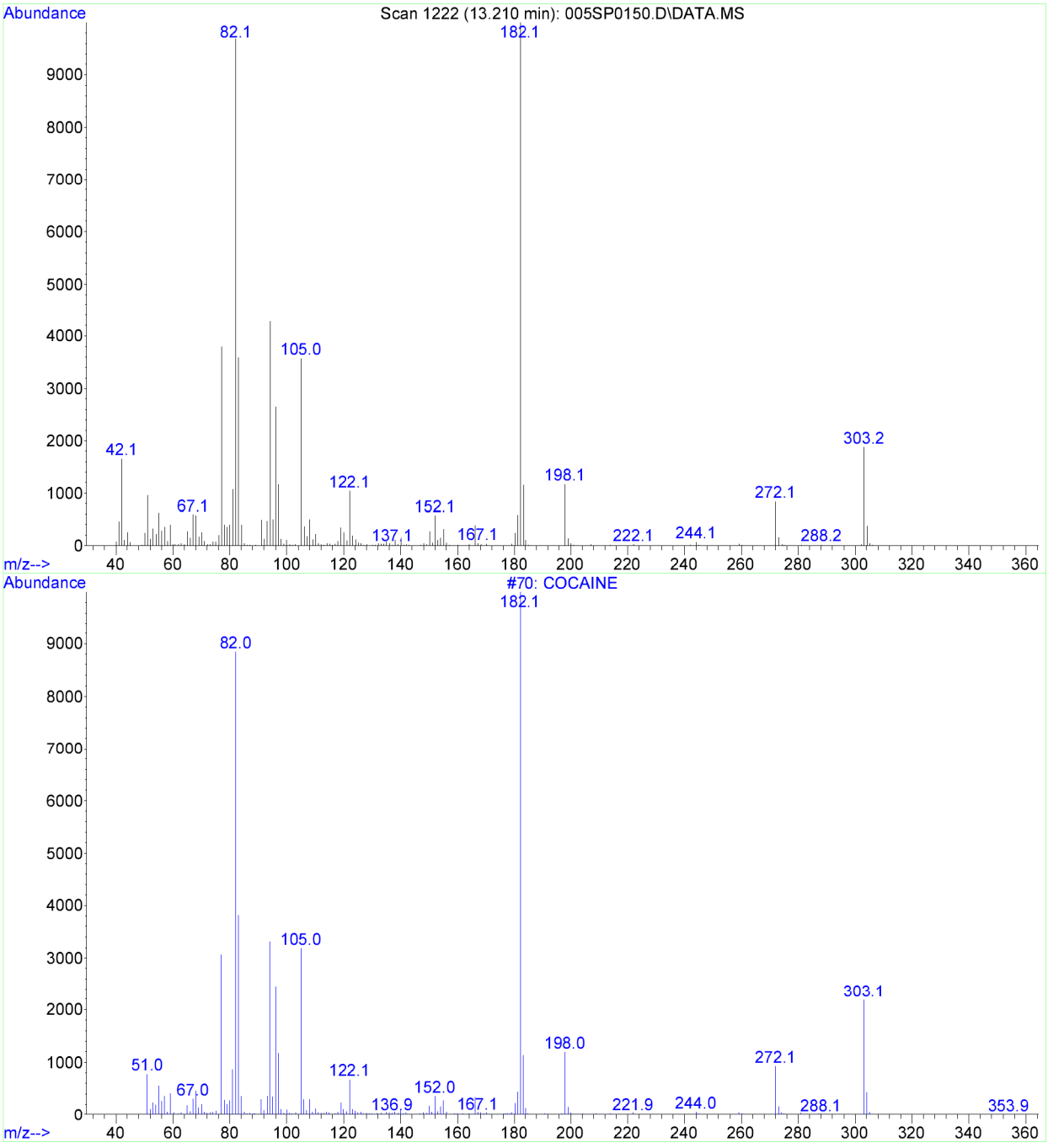
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...          Data\020325\005SP0150.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL GCMS #3
Acquired   : 03 Feb 2025  10:35 am using AcqMethod DrugTest.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
```



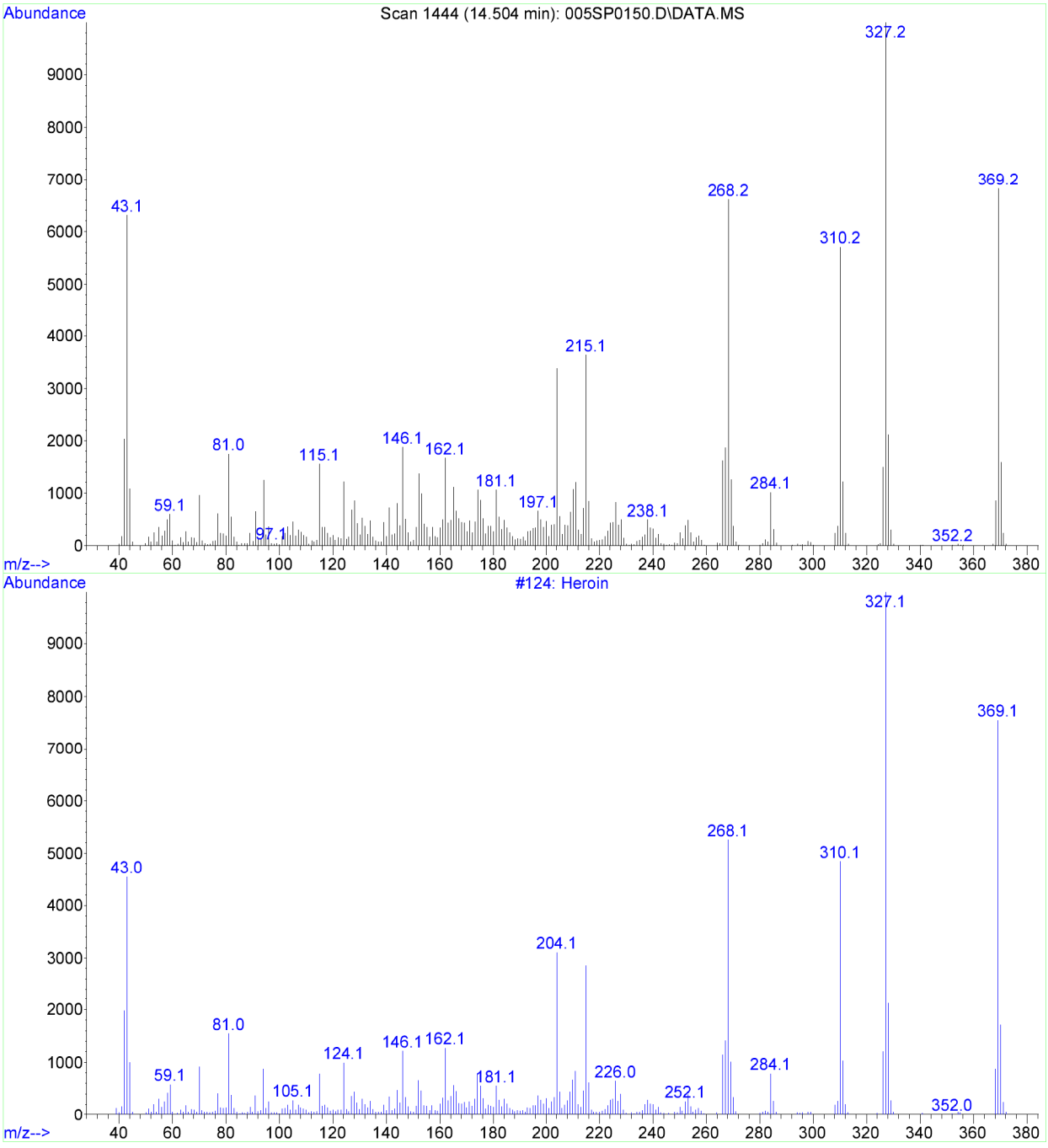
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Operator   : DrugChem-HP\admin
Instrument :   BCCL GCMS #3
Acquired   : 03 Feb 2025  10:35 am using AcqMethod DrugTest.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
```



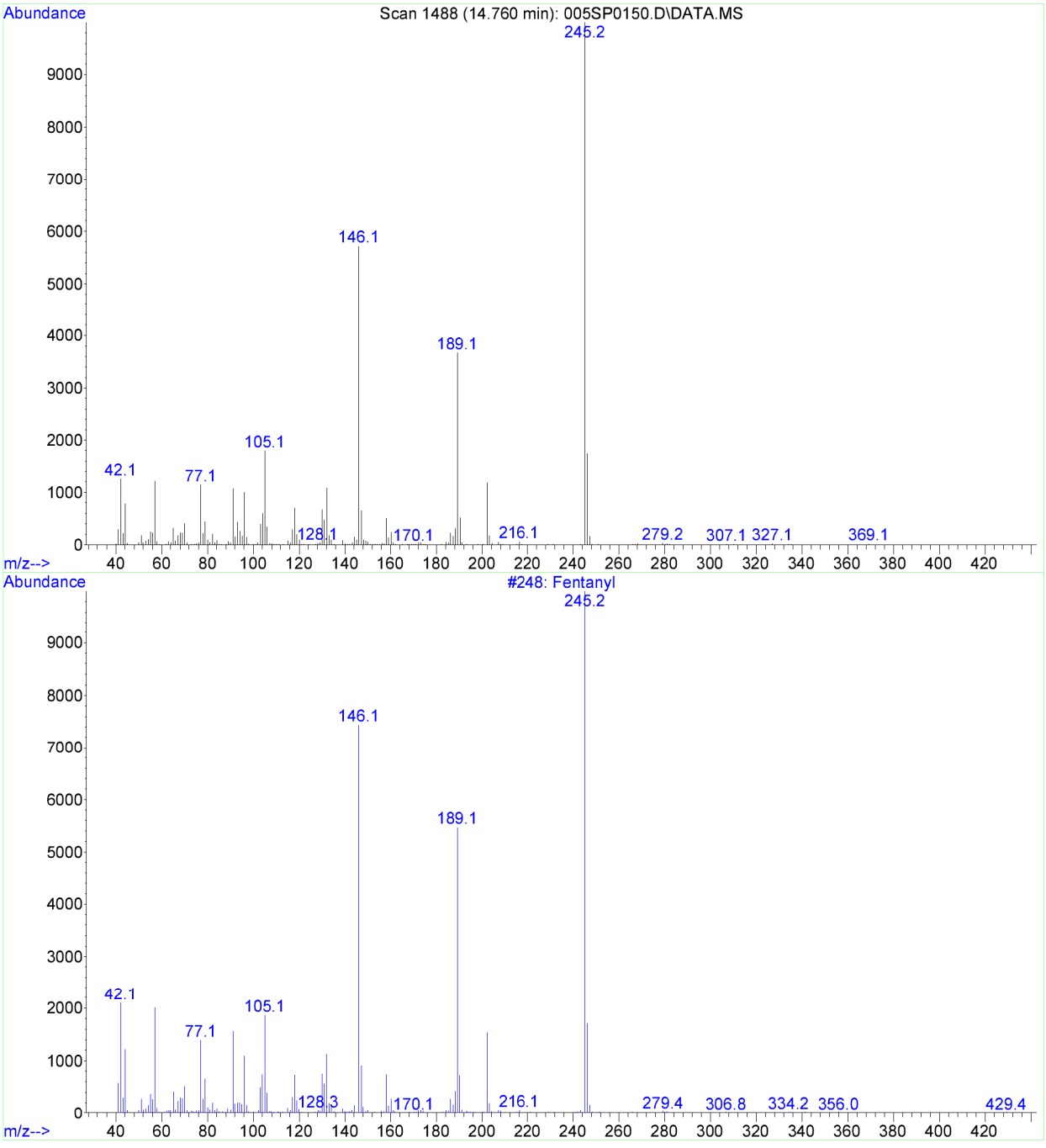
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File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\020325\005SP0150.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL GCMS #3
Acquired   : 03 Feb 2025  10:35 am using AcqMethod DrugTest.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                    000002667
Misc Info  :                                                  000002667
```



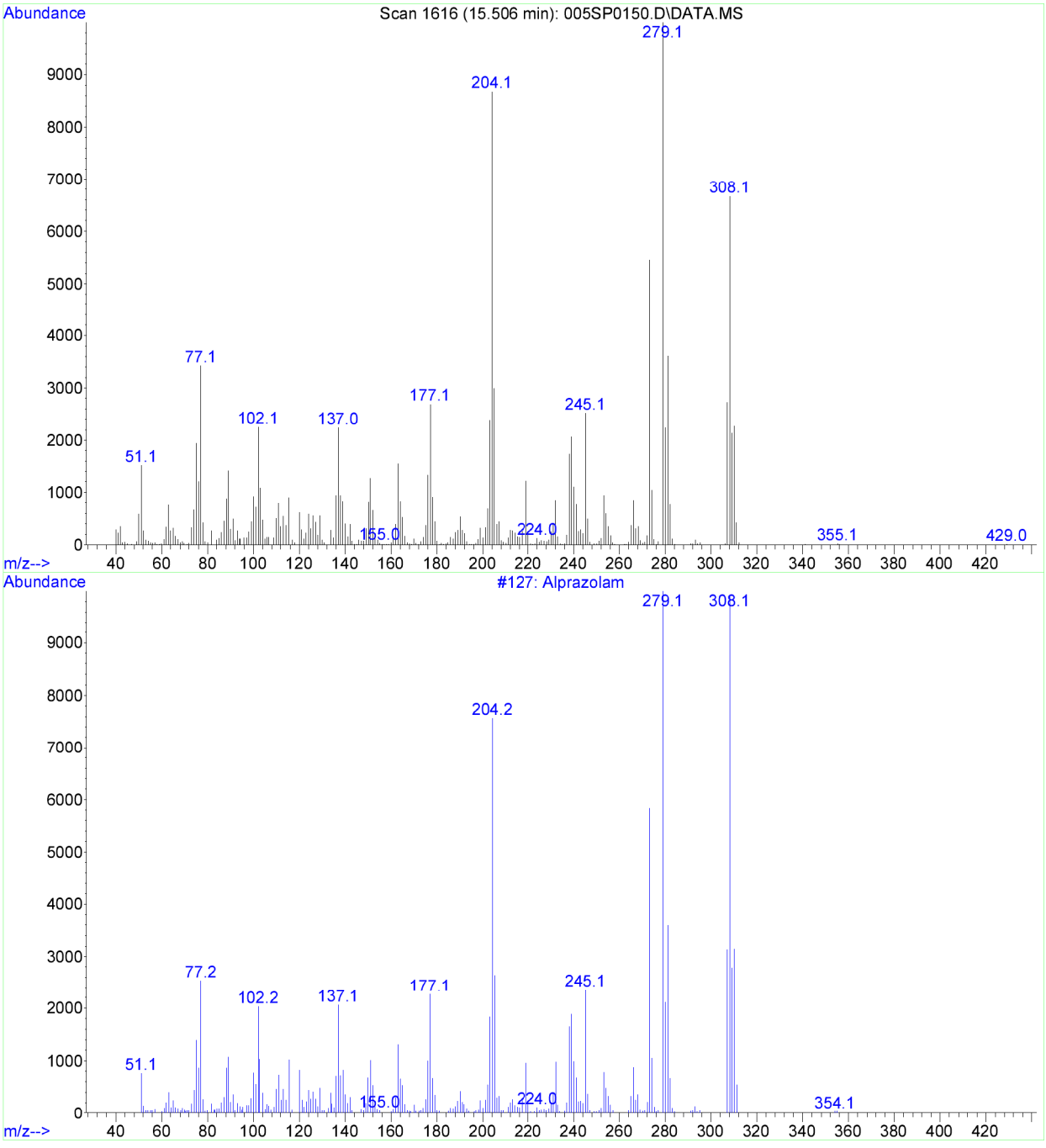
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Operator   : DrugChem-HP\admin
Instrument :   BCCL GCMS #3
Acquired   : 03 Feb 2025  10:35 am using AcqMethod DrugTest.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
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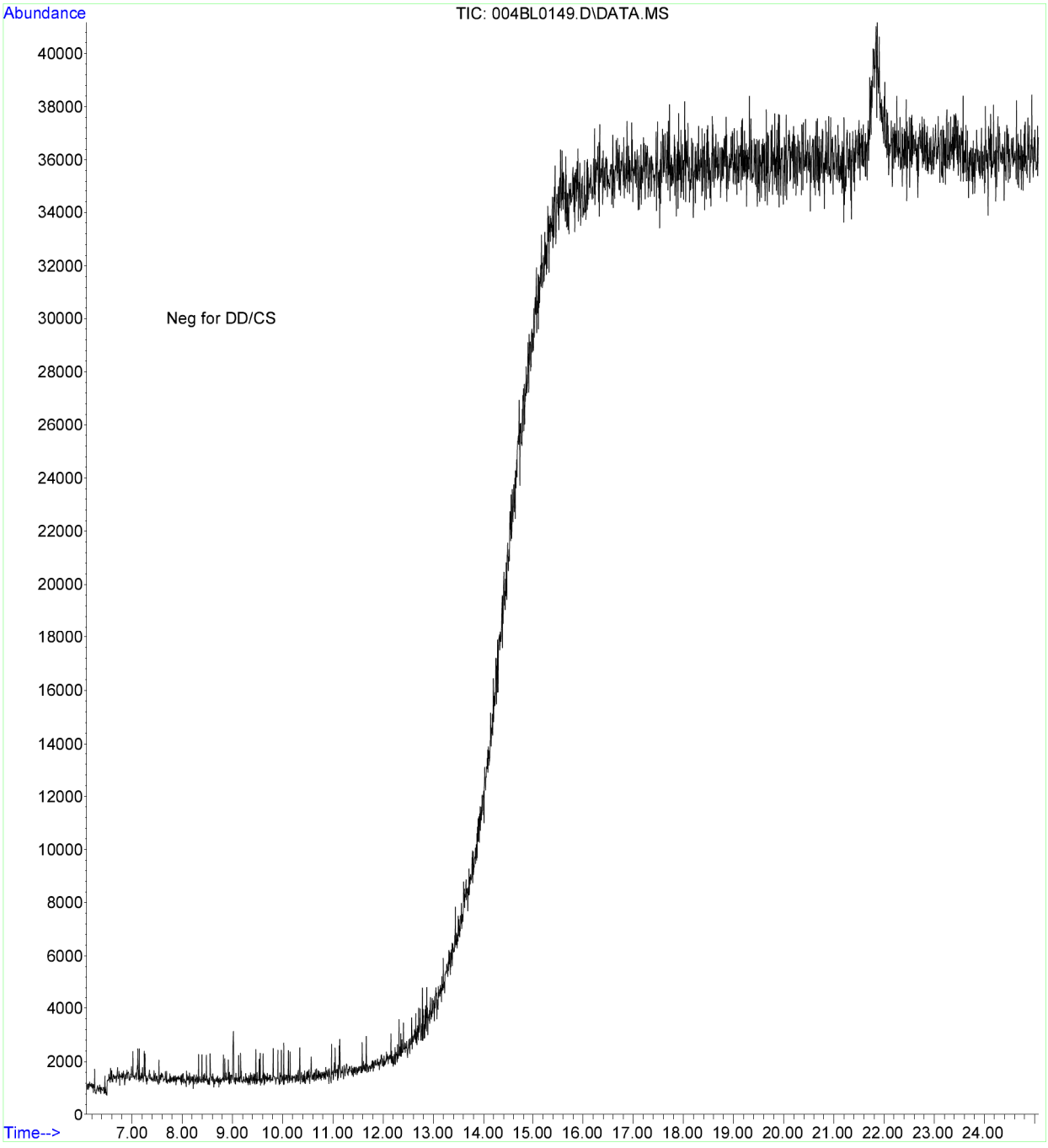
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Operator   : DrugChem-HP\admin
Instrument :   BCCL GCMS #3
Acquired   : 03 Feb 2025  10:35 am using AcqMethod DrugTest.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
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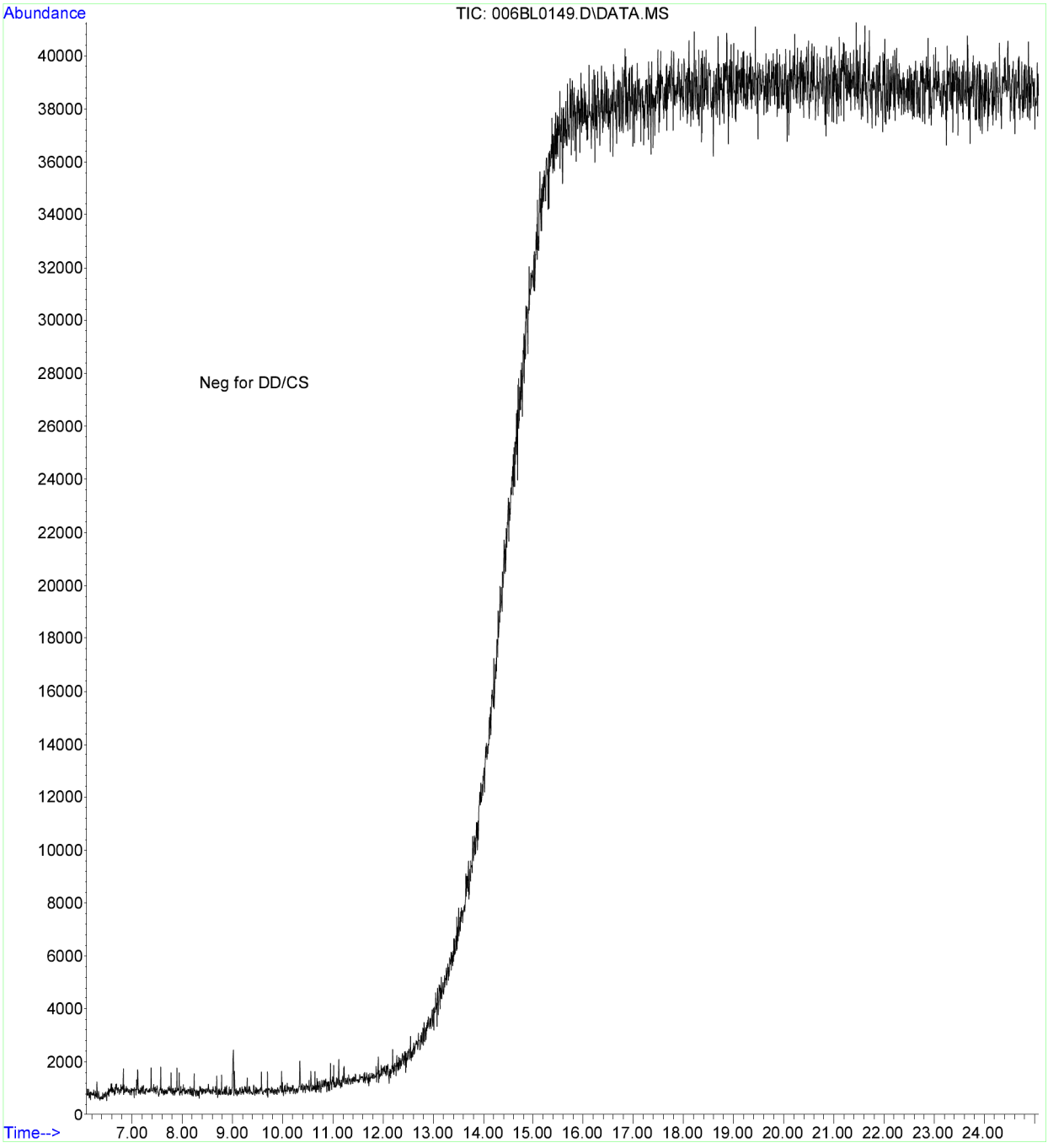
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...          Data\020325\005SP0150.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL GCMS #3
Acquired   : 03 Feb 2025  10:35 am using AcqMethod DrugTest.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
```



```
File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\020325\004BL0149.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL GCMS #3
Acquired   : 03 Feb 2025  10:07 am using AcqMethod DrugTest.M
Sample Name: BLANK (C-19-0068) PRIOR TO CAYMAN GC/MS MIX 3 (R-24-060)  000002666
Misc Info  :                                                  000002666
```



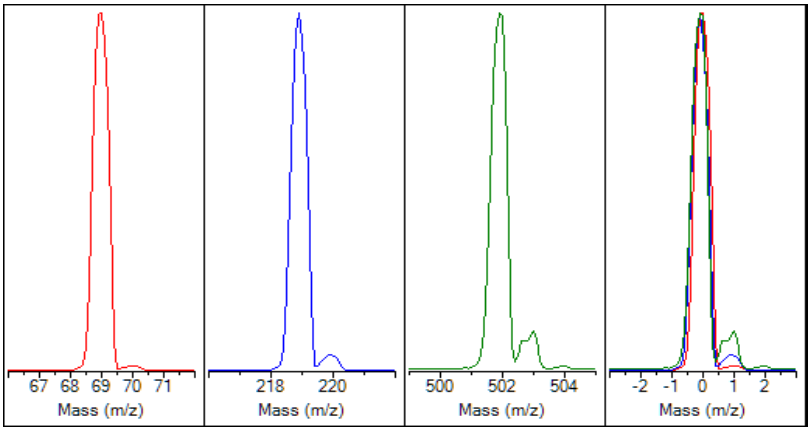
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...          Data\020325\006BL0149.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL GCMS #3
Acquired   : 03 Feb 2025  11:04 am using AcqMethod DrugTest.M
Sample Name: BLANK (C-19-0068) - INSTRUMENT READY          000002666
Misc Info  :                                               000002666
```



Autotune - 5977

2/6/2025 10:44:12 AM (UTC-6:00) BCCL GCMS #3

D:\MASSHUNTER\GCMS\1\5977\atune.u US1329M205



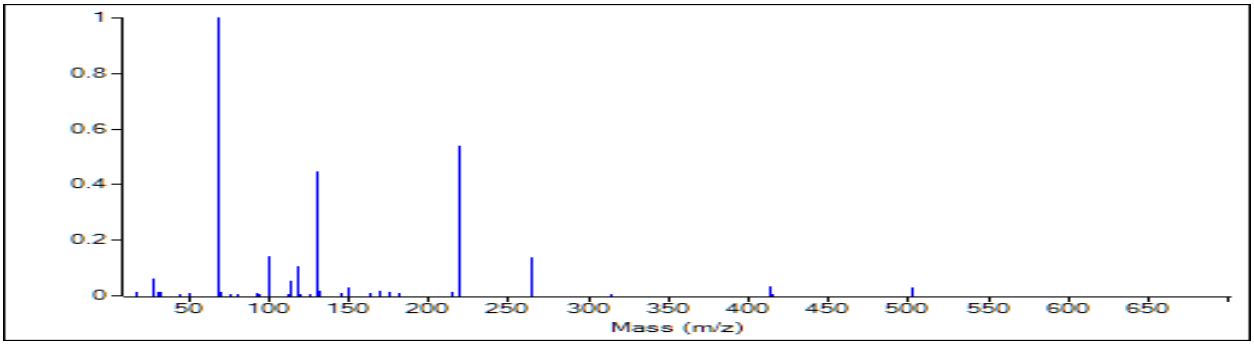
Ion Polarity	Pos	Mass Gain	-368
Emission	34.6	Mass Offset	-35
Electron Energy	70.0	Amu Gain	1681
Filament	1	Amu Offset	118.94
Repeller	34.90	Width219	0.000
Ion Focus	83.4	DC Polarity	Pos
Entrance Lens	15.1	HED Enable	On
Ent Lens Offset	12.53	EM Volts	1817.6
Ion Body	0.00	Extractor Lens	0.00
		Scan Speed	3
		Averages	3
PFTBA	Open	Step Size	0.10

Mass	Abund	Rel Abund	Pw50
69.00	383,679	100.0%	0.60
218.90	213,547	55.7%	0.61
501.90	10,845	2.8%	0.58

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	8.38e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	86	69.00	376,000	1,057,973



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	376,000	100.00	70.00	3,996	1.06
219.00	202,432	53.84	220.00	8,594	4.25
502.00	10,368	2.76	503.00	1,139	10.99

Air/Water Check: H20 ~1.1% N2 ~5.9% O2 ~1.2% CO2 ~0.2% N2/H20 ~517.0%

Column(1) Flow: 0.80 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 55856.333

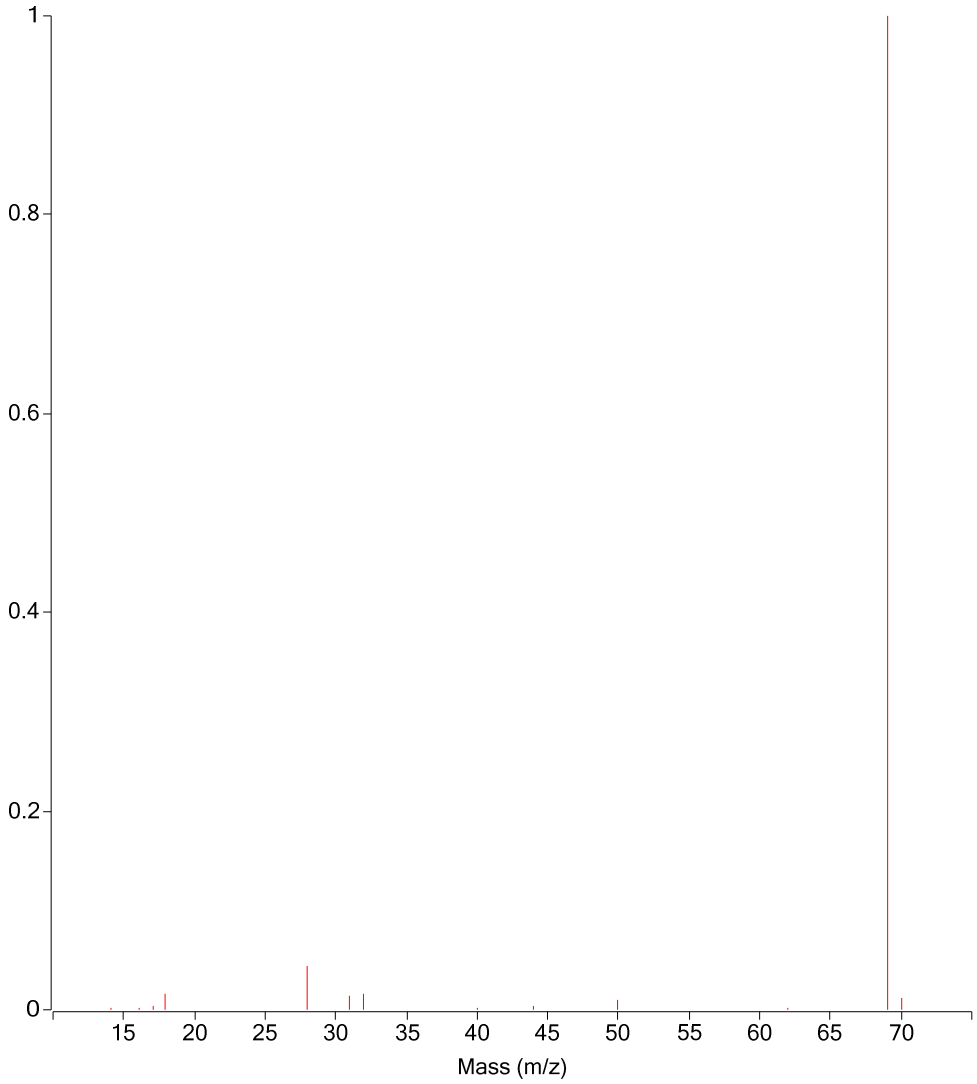
Repeller maximum 35 volts using ion 219; Gain Factor 0.5586

Mass Gain Values(Scan Speed): -360(3) -366(2) -371(1) -379(0) -379(FS1) -370(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	118.9	118.9	118.9	118.9	118.9	118.9	118.9
Entrance Lens Offset	12.5	12.5	12.5	12.5	12.5	12.5	12.5

597x Air and Water Check

Instrument: BCCL GCMS #3
Thu Feb 06 10:39:33 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: atune.u

Relative abundances:

18/69 =	1.68	Water%	(counts=12576)
28/69 =	4.46	Nitrogen%	(counts=33408)
32/69 =	1.55	Oxygen%	(counts=11611)
44/69 =	0.34	Carbon Dioxide%	(counts=2549)
28/18 =	265.65	Nitrogen/Water%	

Instrument Name : BCCL GCMS #3		
DC Polarity : Positive		
Filament 1		
BasePeak should be 69 or 219		OK
Position of mass 69	69.00	OK
Position of mass 219	218.94	OK
Position of mass 502	502.00	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	219.96	OK
Position of isotope mass 503	502.98	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%)	4.35	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.01	OK
Ratio of 219 to 69 should be > 40% and is	53.39	OK
Ratio of 502 to 69 should be > 2.4% and is	2.78	OK
Mass 69 Precursor (<= 3%)	0.11	OK
Mass 219 Precursor (<= 6%)	0.29	OK
Mass 502 Precursor (<= 12%)	1.01	OK

597x Air and Water Check

Thu Feb 06 10:54:16 2025	Instrument: BCCL GCMS #3
D:\MASSHUNTER\GCMS\1\5977\atune.u	US1329M205

Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	1.05	OK
Ratio of 28 to 69 (<10%)	5.47	OK
Electron Multiplier Voltage	1818	OK

Tune portion of System Verification passed.

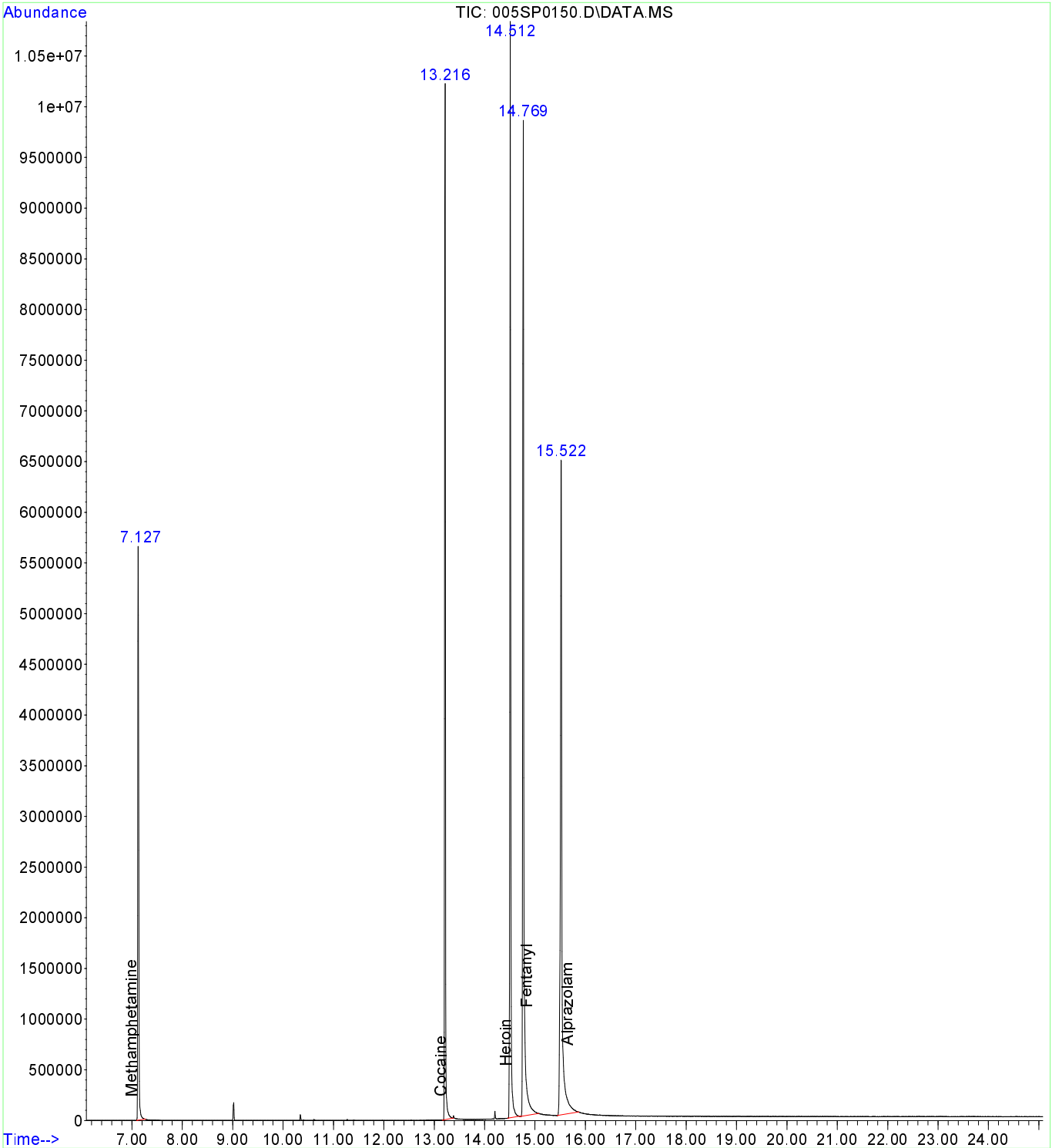
BCCL GC/MS #3
Retention Times for the Week of:

_____02/06/2025 - 02/09/2025_____

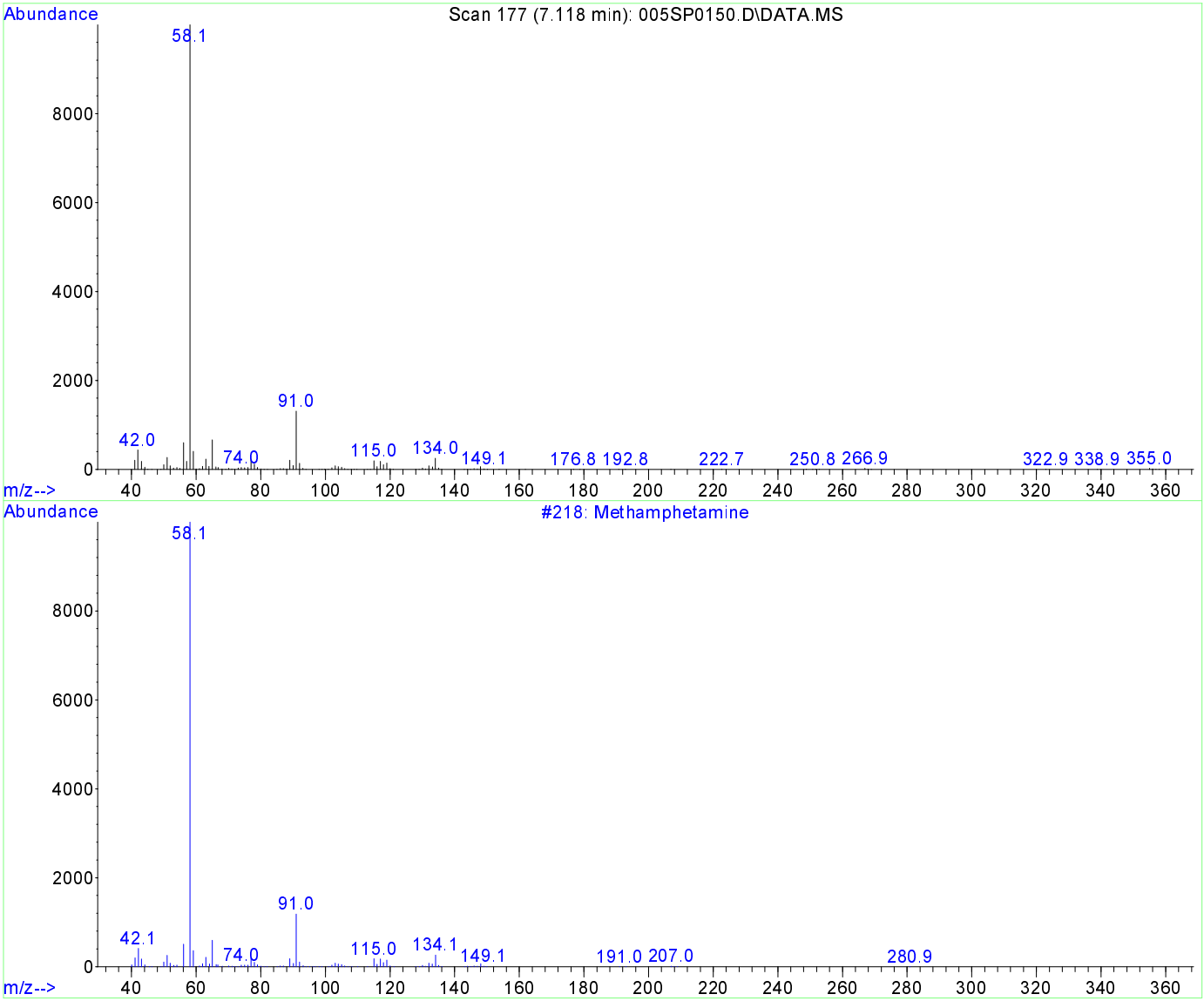
[X] Tune: _DS__02/06/2025 - Autotune_____

Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35	7.127	7.055	7.198
Cocaine	R-24-060	DrugTest35	13.216	13.083	13.348
Heroin	R-24-060	DrugTest35	14.512	14.366	14.657
Fentanyl	R-24-060	DrugTest35	14.769	14.621	14.916
Alprazolam	R-24-060	DrugTest35	15.522	15.366	15.677

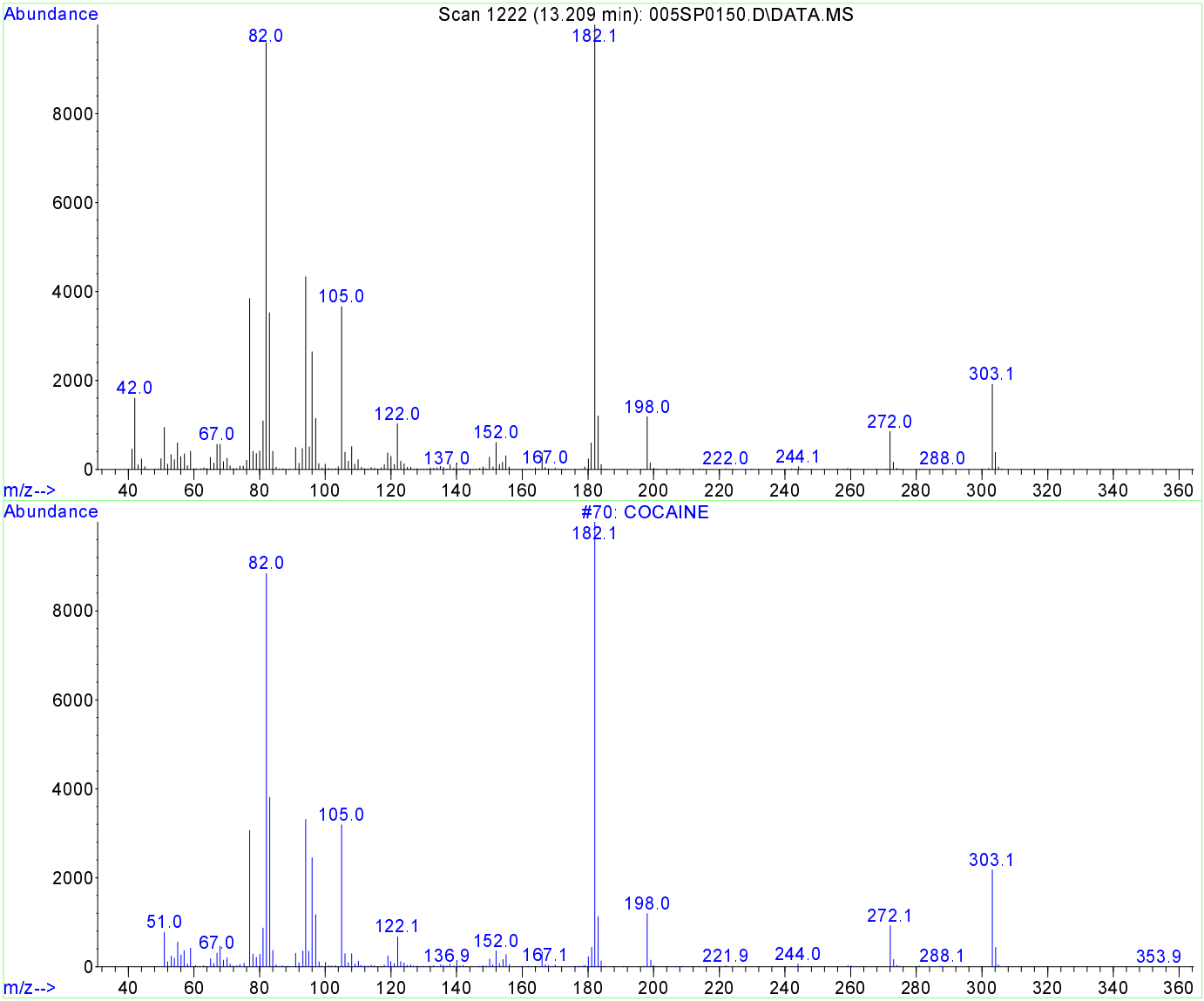
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...          Data\020625\005SP0150.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL GCMS #3
Acquired   : 06 Feb 2025  12:14 pm using AcqMethod DrugTest.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                    000002667
Misc Info  :                                                  000002667
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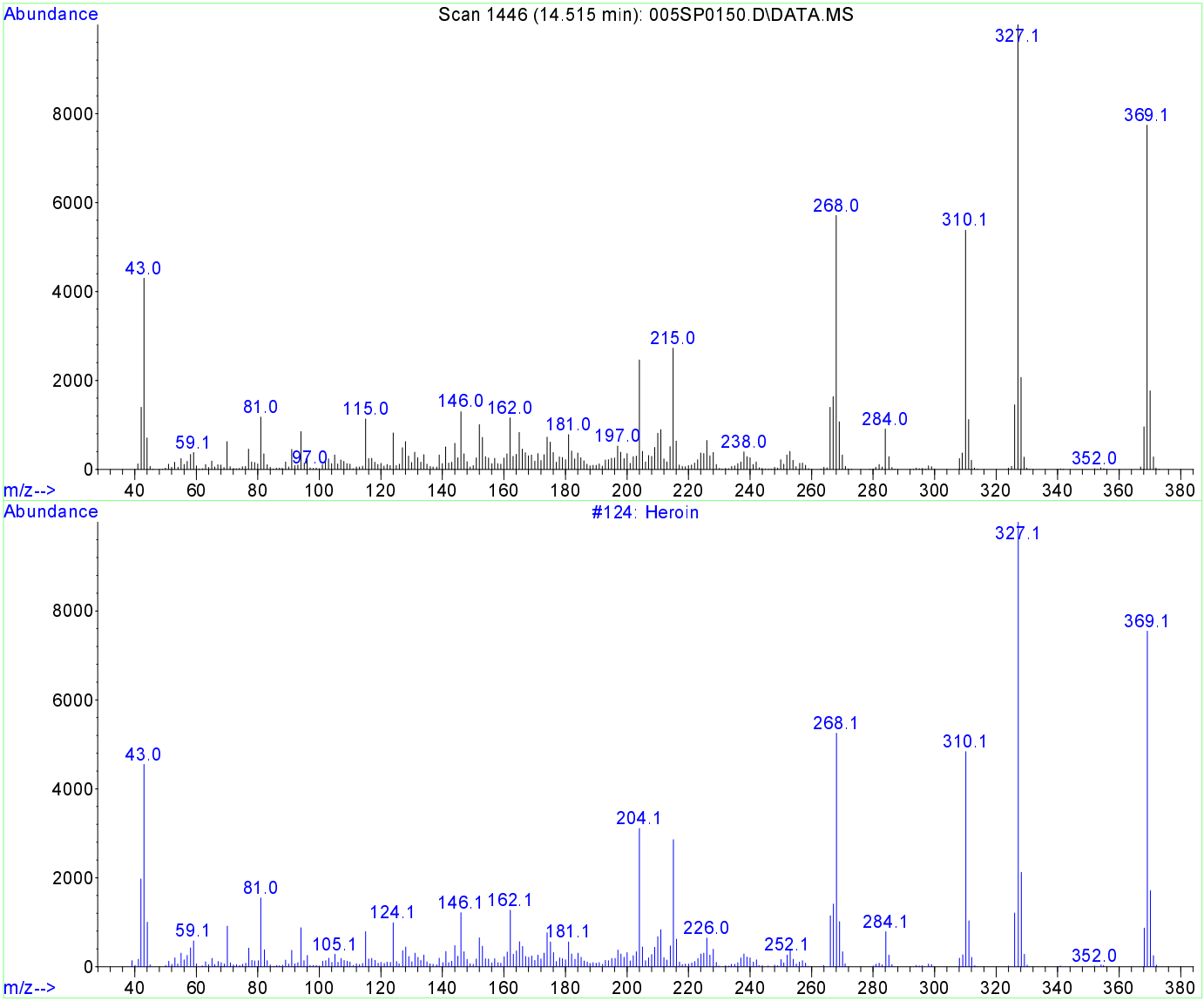
Library Searched : D:\MassHunter\Library\DRUG.L Sample Name: CAYMAN GC/MS MIX 3 (R-2
Quality : 90
ID : Methamphetamine



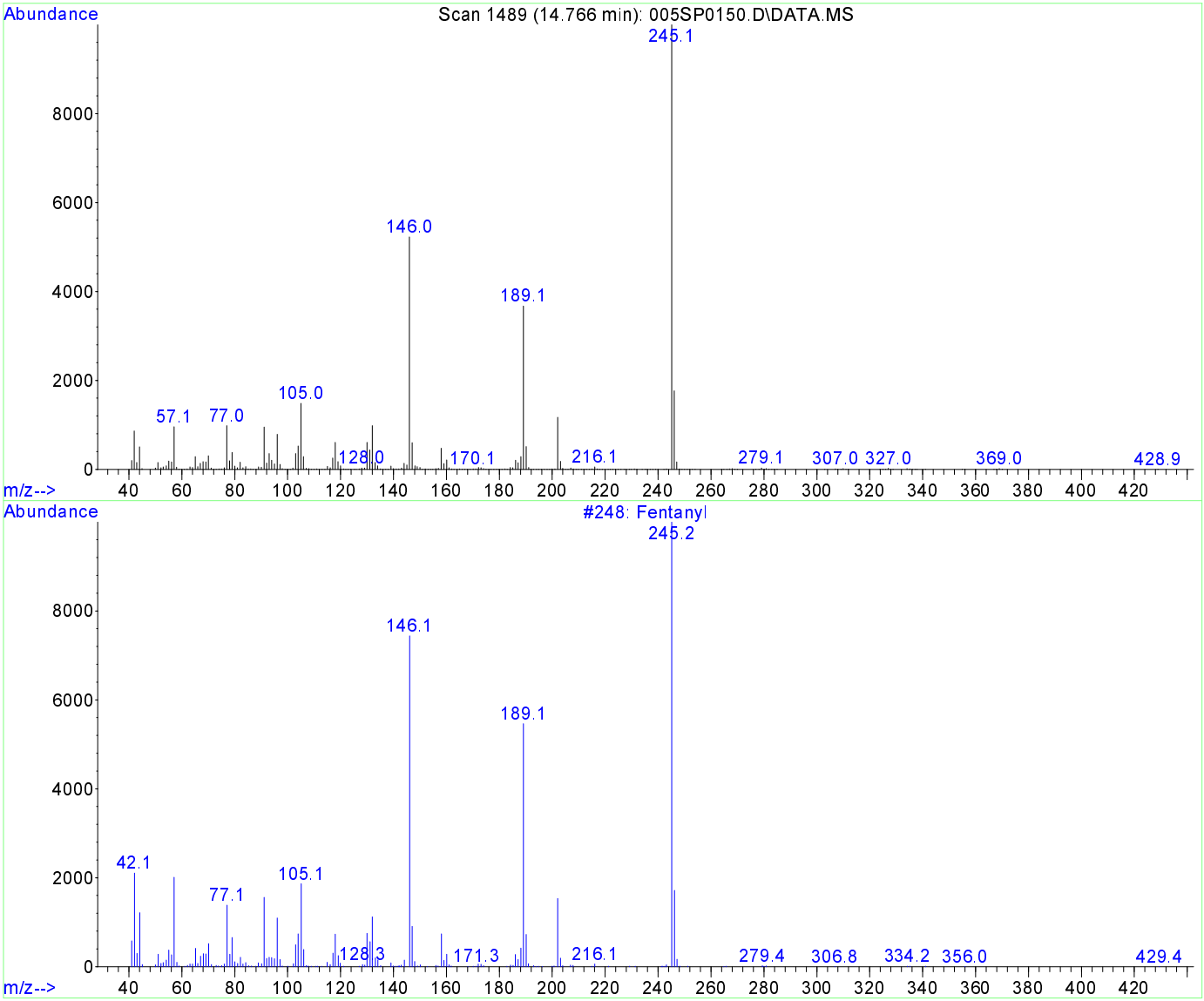
Library Searched : D:\MassHunter\Library\DRUG.L Sample Name: CAYMAN GC/MS MIX 3 (R-2
Quality : 99
ID : COCAINE



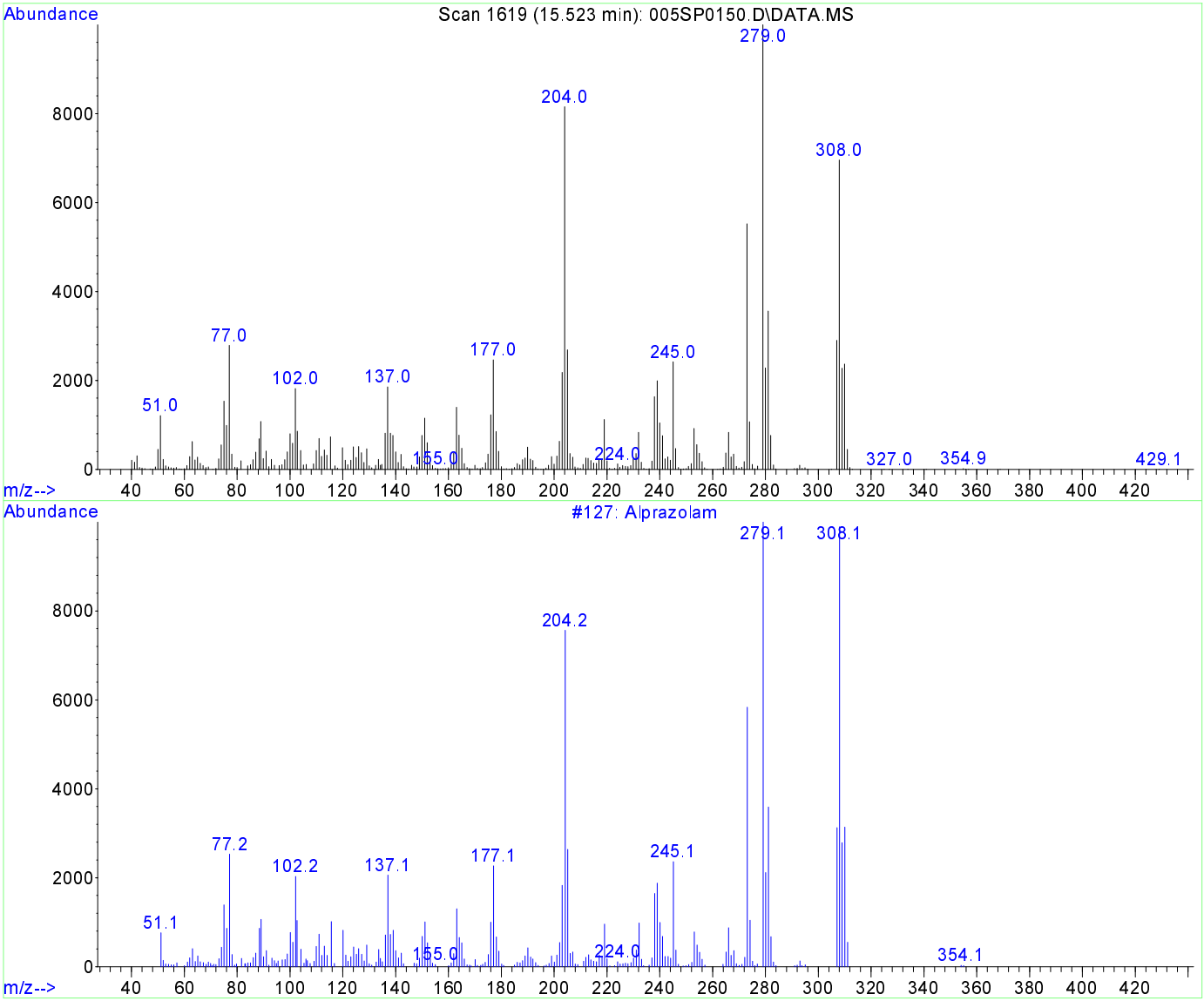
Library Searched : D:\MassHunter\Library\DRUG.L Sample Name: CAYMAN GC/MS MIX 3 (R-2
Quality : 99
ID : Heroin



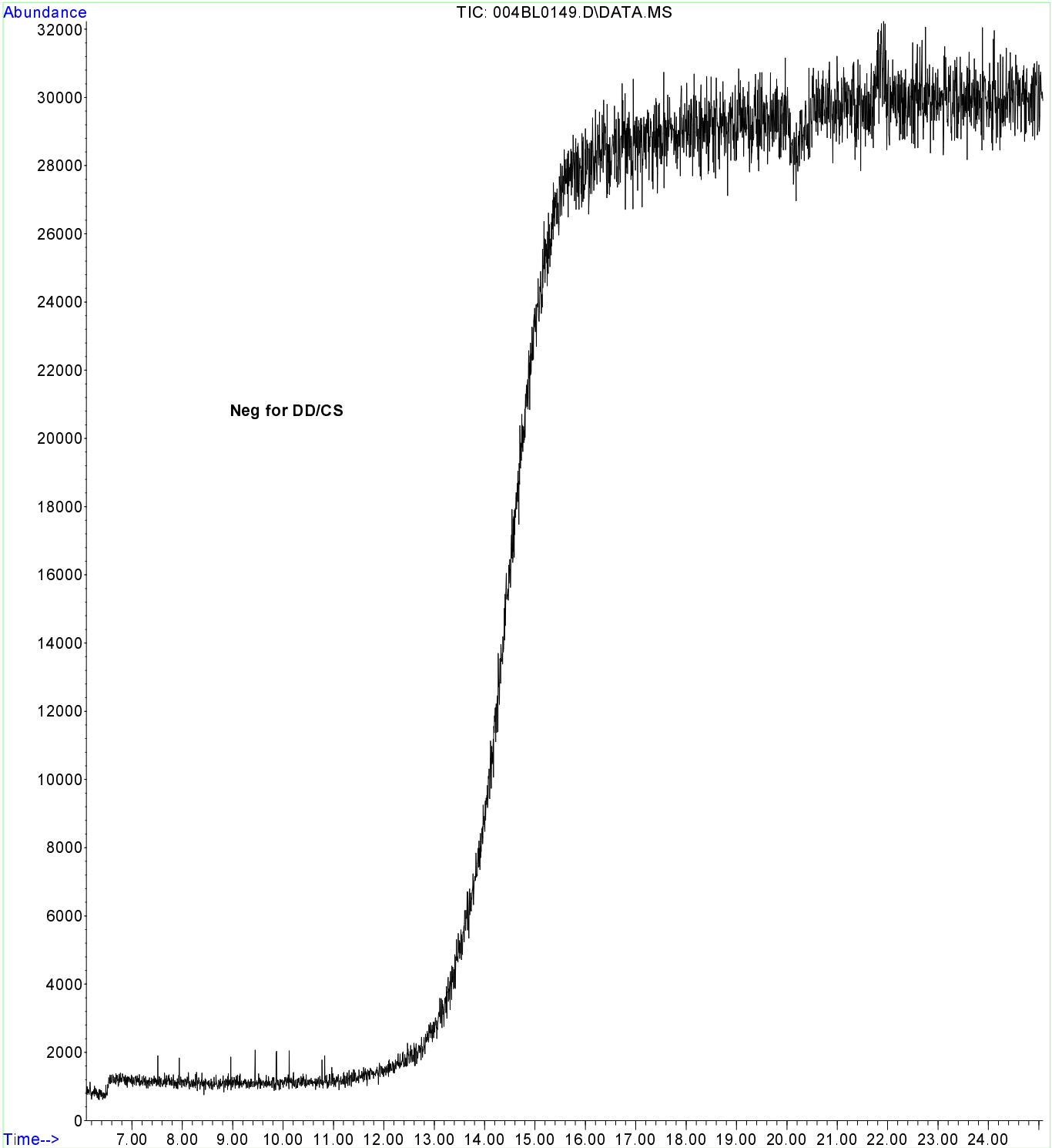
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Quality : 76
ID : Fentanyl



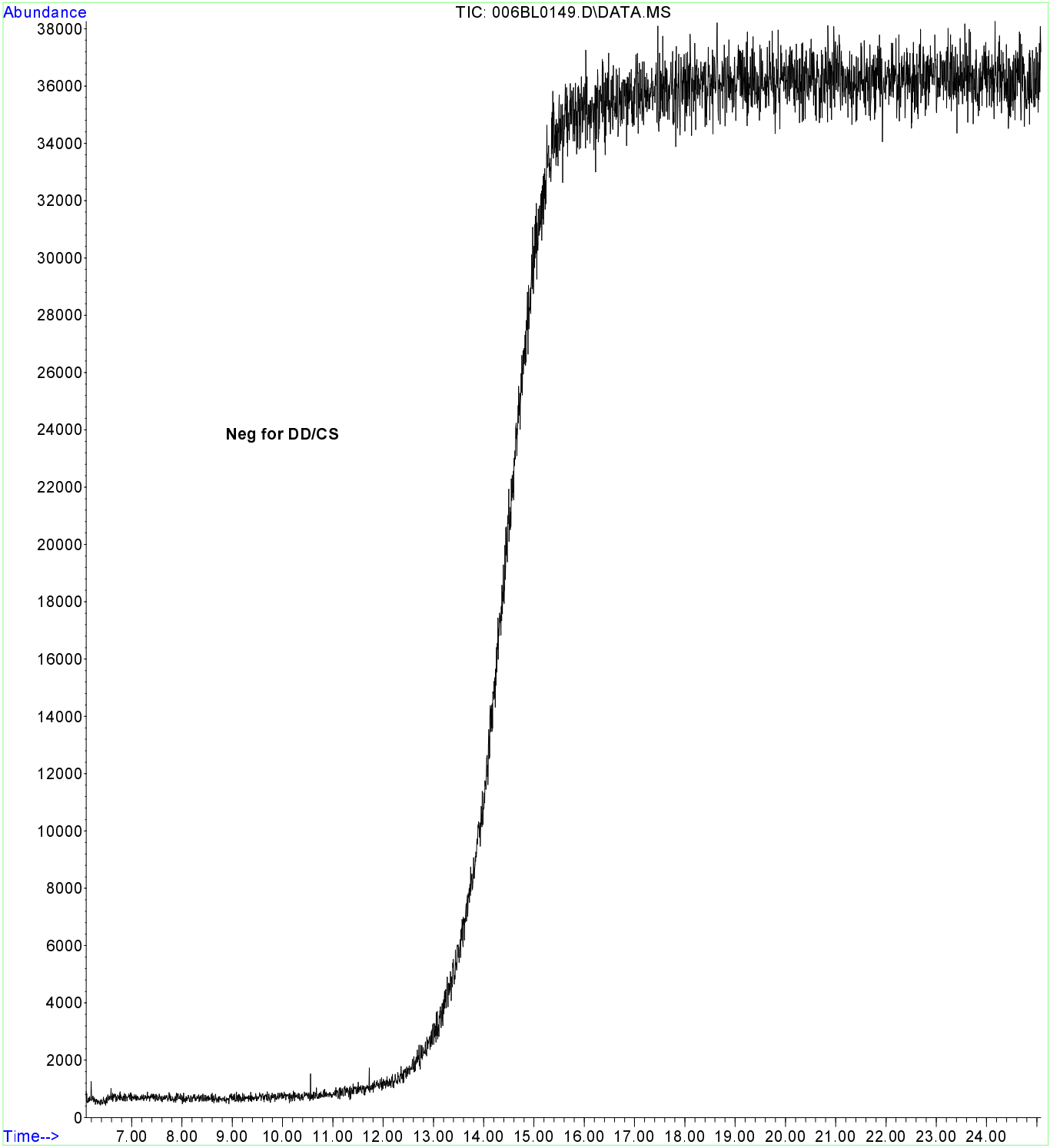
Library Searched : D:\MassHunter\Library\DRUG.L Sample Name: CAYMAN GC/MS MIX 3 (R-2
Quality : 99
ID : Alprazolam



File :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
... Data\020625\004BL0149.D
Operator : DrugChem-HP\admin
Instrument : BCCL GCMS #3
Acquired : 06 Feb 2025 11:46 am using AcqMethod DrugTest.M
Sample Name: BLANK (C-19-0068) PRIOR TO CAYMAN GC/MS MIX 3 (R-24-060) 000002666
Misc Info : 000002666



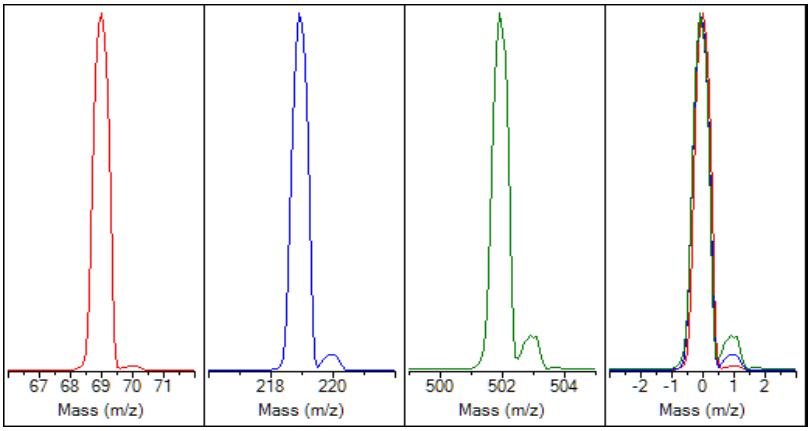
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Operator : DrugChem-HP\admin
Instrument : BCCL GCMS #3
Acquired : 06 Feb 2025 12:43 pm using AcqMethod DrugTest.M
Sample Name: BLANK (C-19-0068) - INSTRUMENT READY 000002666
Misc Info : 000002666



Autotune - 5977

2/10/2025 8:59:54 AM (UTC-6:00) BCCL GCMS #3

D:\MASSHUNTER\GCMS\1\5977\atune.u US1329M205



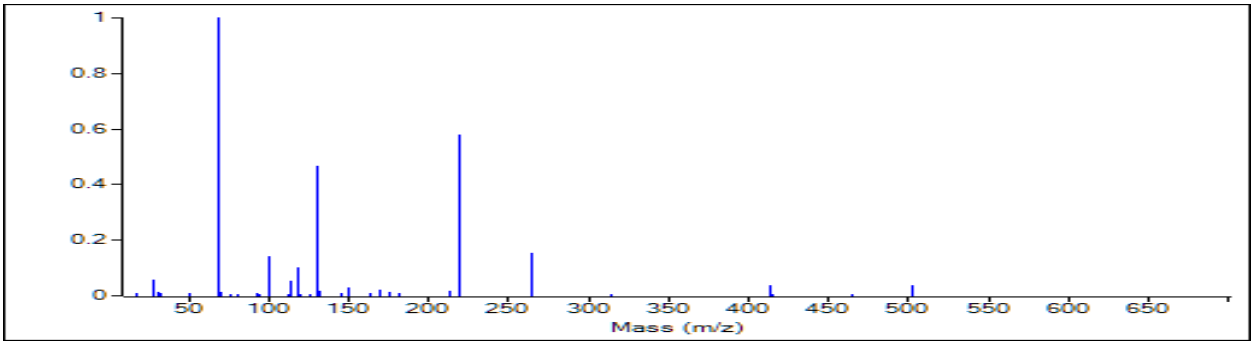
Ion Polarity	Pos	Mass Gain	-361
Emission	34.6	Mass Offset	-35
Electron Energy	70.0	Amu Gain	1679
Filament	1	Amu Offset	119.88
Repeller	34.90	Width219	-0.003
Ion Focus	82.4	DC Polarity	Pos
Entrance Lens	15.1	HED Enable	On
Ent Lens Offset	12.53	EM Volts	1817.6
Ion Body	0.00	Extractor Lens	0.00
		Scan Speed	3
		Averages	3
PFTBA	Open	Step Size	0.10

Mass	Abund	Rel Abund	Pw50
69.00	463,001	100.0%	0.60
218.90	270,230	58.4%	0.61
501.90	15,631	3.4%	0.60

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	8.47e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	90	69.00	448,896	1,302,378



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	448,896	100.00	70.00	4,728	1.05
218.90	260,096	57.94	219.90	11,082	4.26
502.00	15,480	3.45	502.90	1,607	10.38

Air/Water Check: H20 ~1.0% N2 ~5.6% O2 ~1.0% CO2 ~0.1% N2/H20 ~580.3%

Column(1) Flow: 0.80 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 55836.393

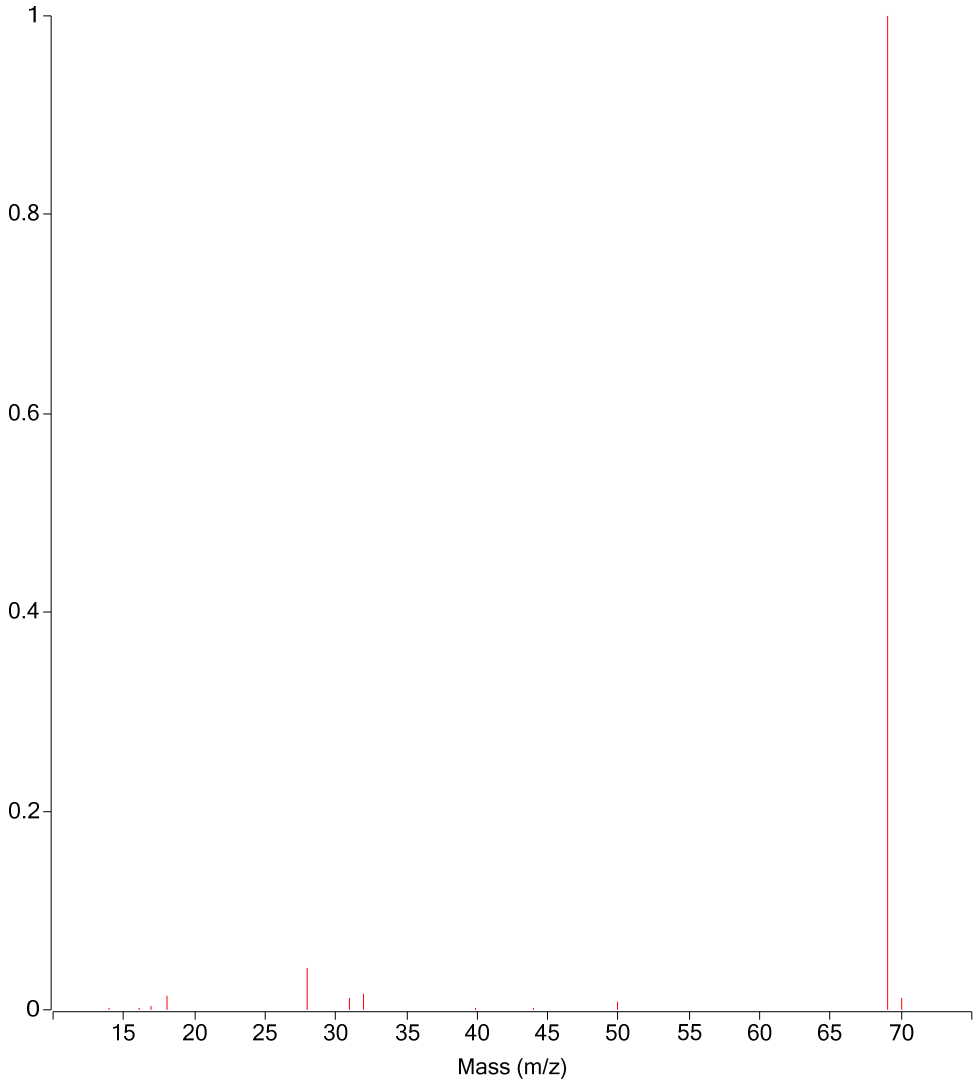
Repeller maximum 35 volts using ion 219; Gain Factor 0.5584

Mass Gain Values(Scan Speed): -366(3) -351(2) -327(1) -299(0) -246(FS1) -245(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	119.9	119.9	119.9	119.9	119.9	119.9	119.9
Entrance Lens Offset	12.5	12.5	12.5	12.5	12.5	12.5	12.5

597x Air and Water Check

Instrument: BCCL GCMS #3
Mon Feb 10 08:54:13 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: atune.u

Relative abundances:

18/69 =	1.49	Water%	(counts=14427)
28/69 =	4.30	Nitrogen%	(counts=41472)
32/69 =	1.57	Oxygen%	(counts=15169)
44/69 =	0.30	Carbon Dioxide%	(counts=2860)
28/18 =	287.46	Nitrogen/Water%	

Instrument Name	: BCCL GCMS #3	
DC Polarity	: Positive	
Filament	1	
BasePeak should be 69 or 219		OK
Position of mass 69	69.00	OK
Position of mass 219	218.90	OK
Position of mass 502	501.92	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	219.91	OK
Position of isotope mass 503	502.91	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%)	10.29	OK
Ratio of 219 to 69 should be > 40% and is	57.87	OK
Ratio of 502 to 69 should be > 2.4% and is	3.45	OK
Mass 69 Precursor (<= 3%)	0.11	OK
Mass 219 Precursor (<= 6%)	0.29	OK
Mass 502 Precursor (<= 12%)	1.34	OK

597x Air and Water Check

Mon Feb 10 09:11:45 2025	Instrument: BCCL GCMS #3
D:\MASSHUNTER\GCMS\1\5977\atune.u	US1329M205

Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	0.90	OK
Ratio of 28 to 69 (<10%)	5.22	OK
Electron Multiplier Voltage	1818	OK

Tune portion of System Verification passed.

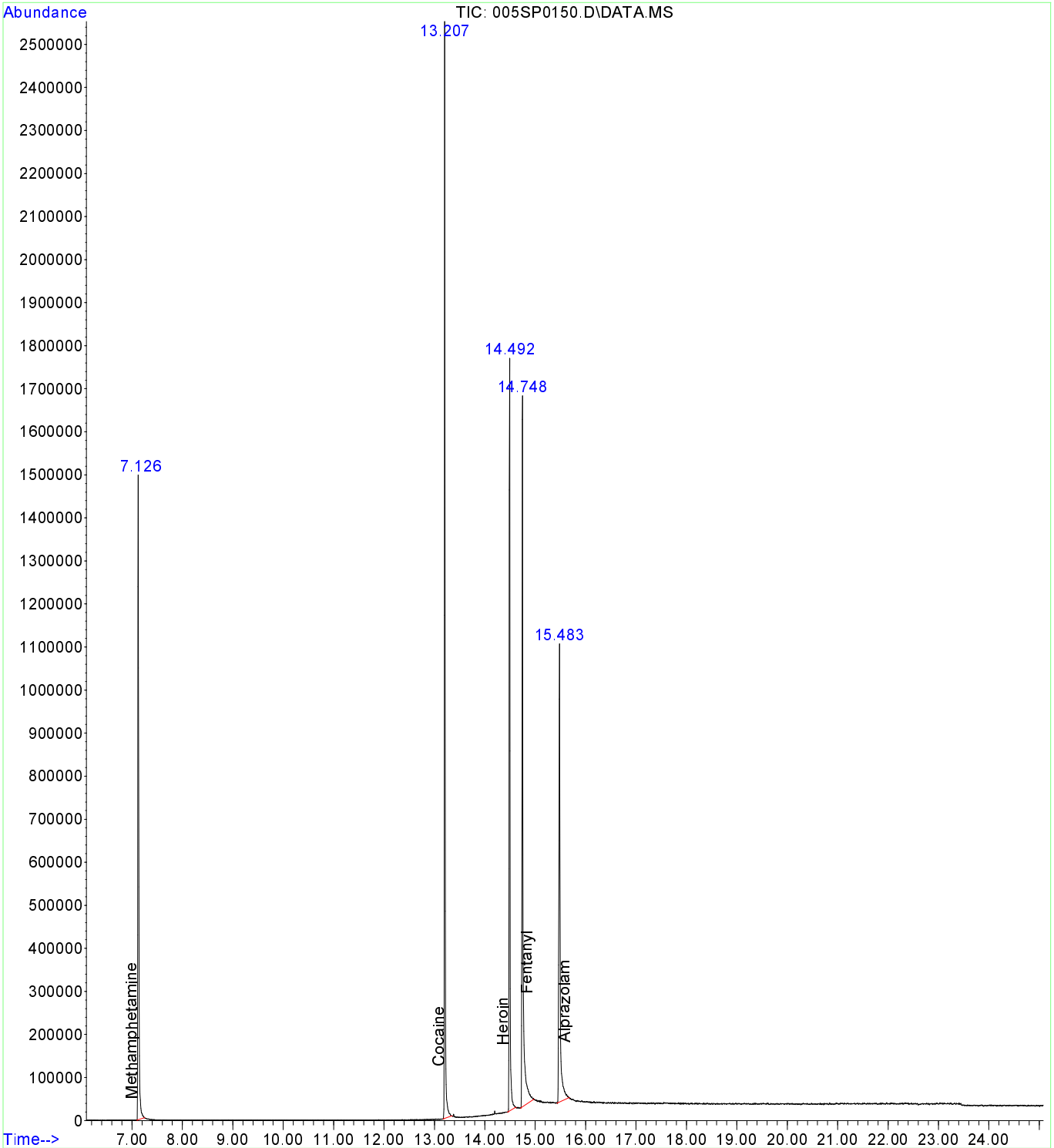
BCCL GC/MS #3
Retention Times for the Week of:

_____02/10/2025 - 02/16/2025_____

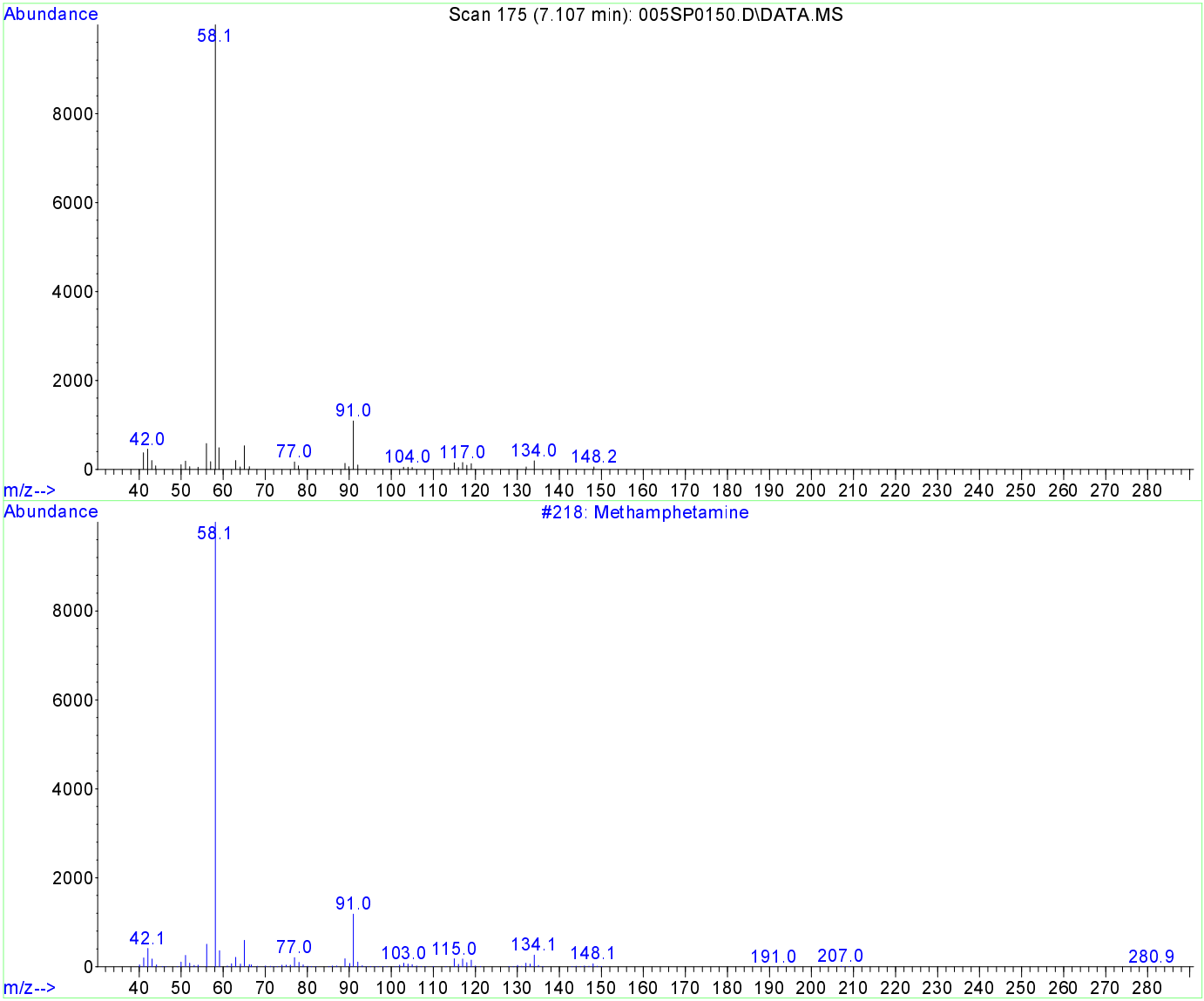
[X] Tune: _DN/DS__02/10/2025 - Autotune_____

Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35	7.126	7.054	7.197
Cocaine	R-24-060	DrugTest35	13.207	13.074	13.339
Heroin	R-24-060	DrugTest35	14.492	14.347	14.636
Fentanyl	R-24-060	DrugTest35	14.748	14.600	14.895
Alprazolam	R-24-060	DrugTest35	15.483	15.328	15.637

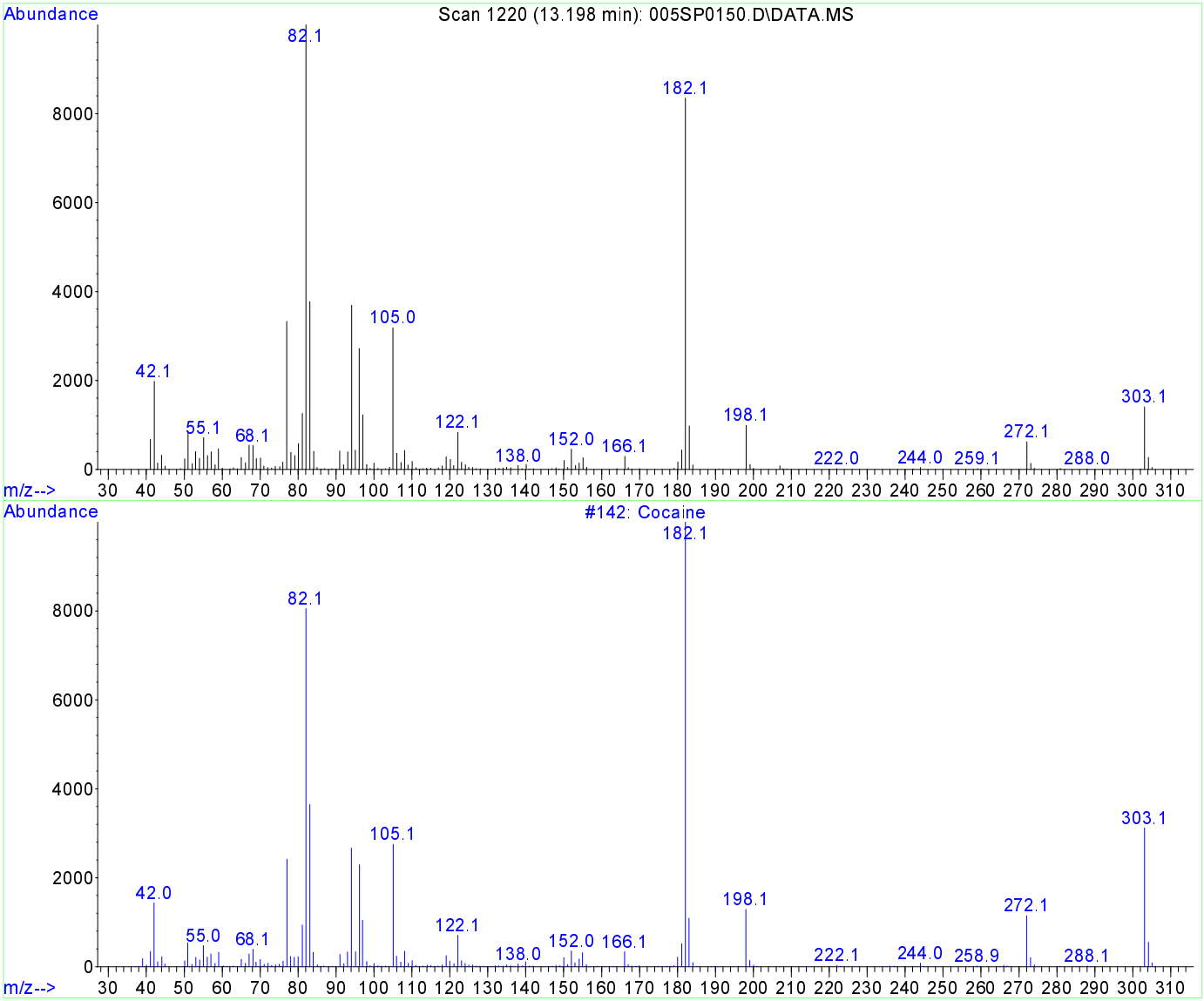
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... Data\021025\005SP0150.D
Operator : DrugChem-HP\admin
Instrument : BCCL GCMS #3
Acquired : 10 Feb 2025 10:36 am using AcqMethod DrugTest.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002667
Misc Info : 000002667



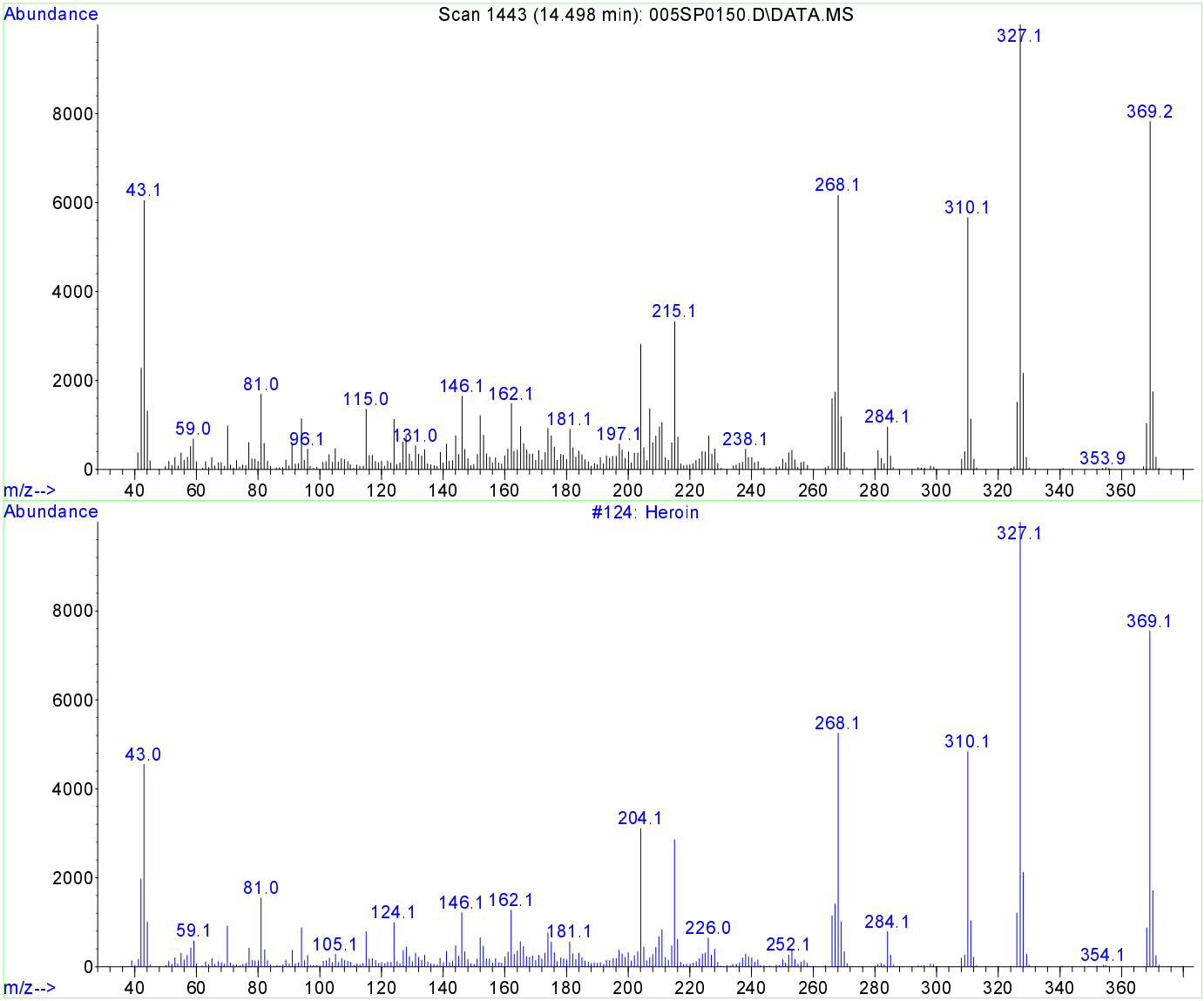
Library Searched : D:\MassHunter\Library\DRUG.L Sample Name: CAYMAN GC/MS MIX 3 (R-2
Quality : 90
ID : Methamphetamine



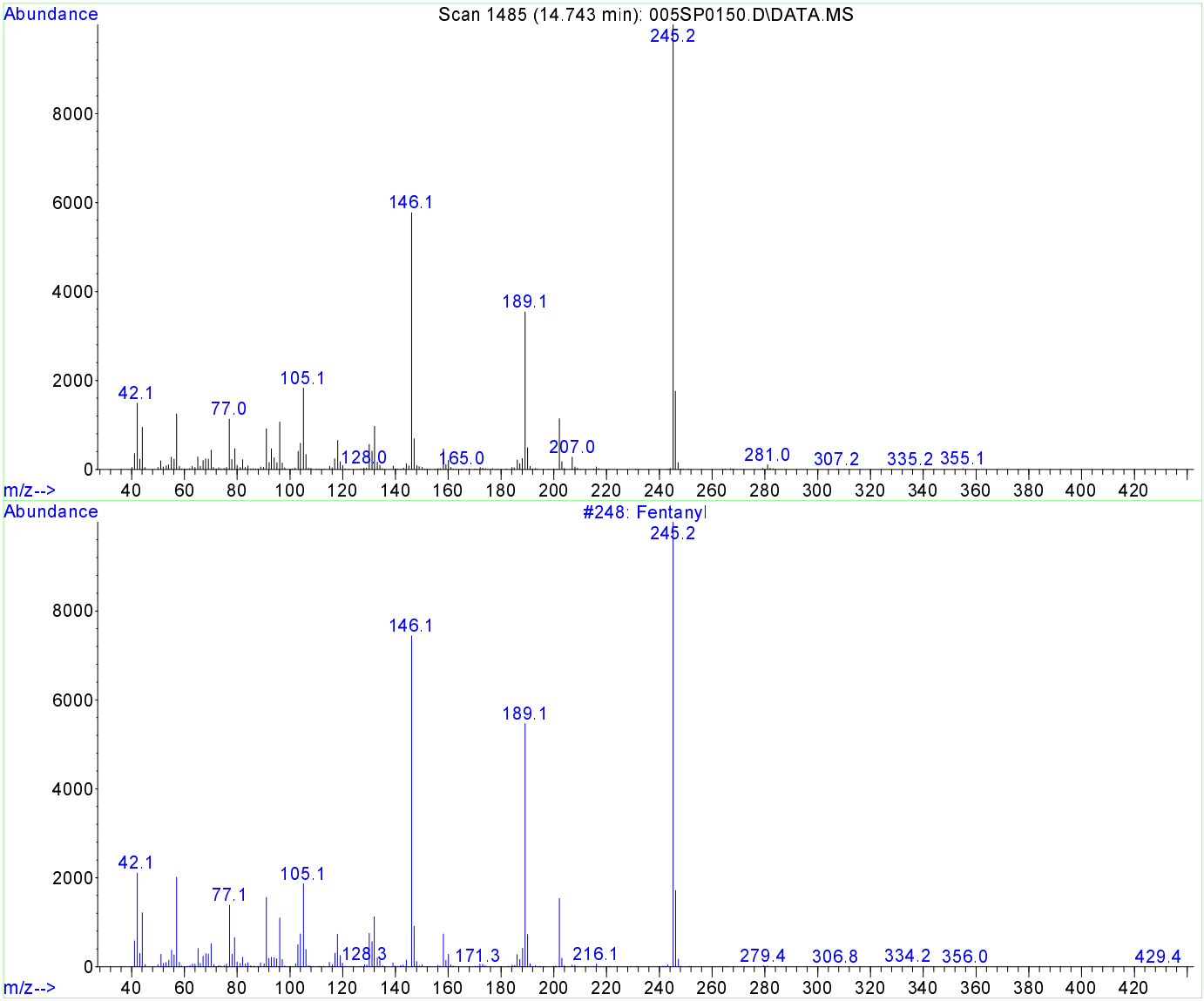
Library Searched : D:\MassHunter\Library\DRUG.L Sample Name: CAYMAN GC/MS MIX 3 (R-2
Quality : 99
ID : Cocaine



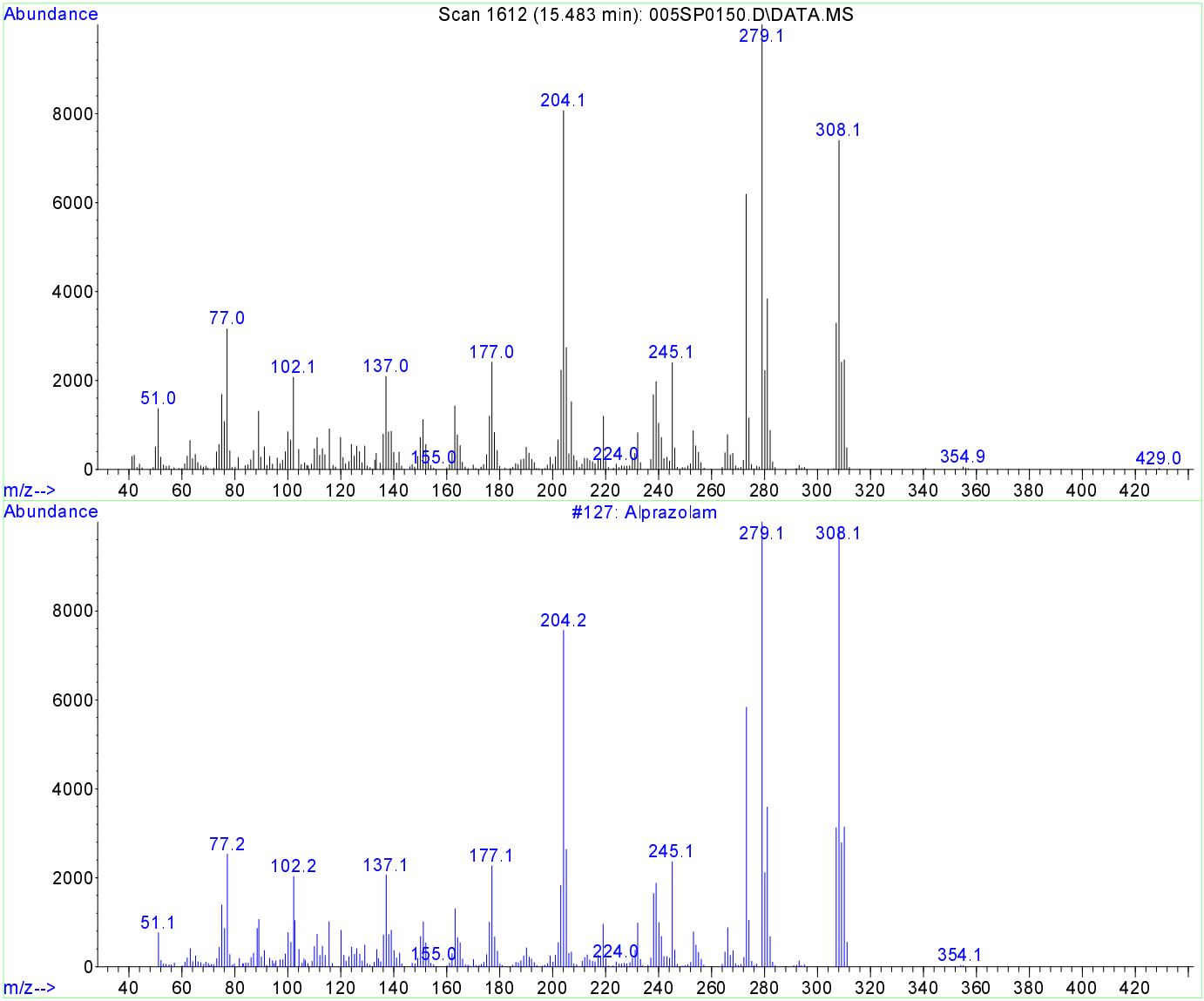
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Quality : 99
ID : Heroin



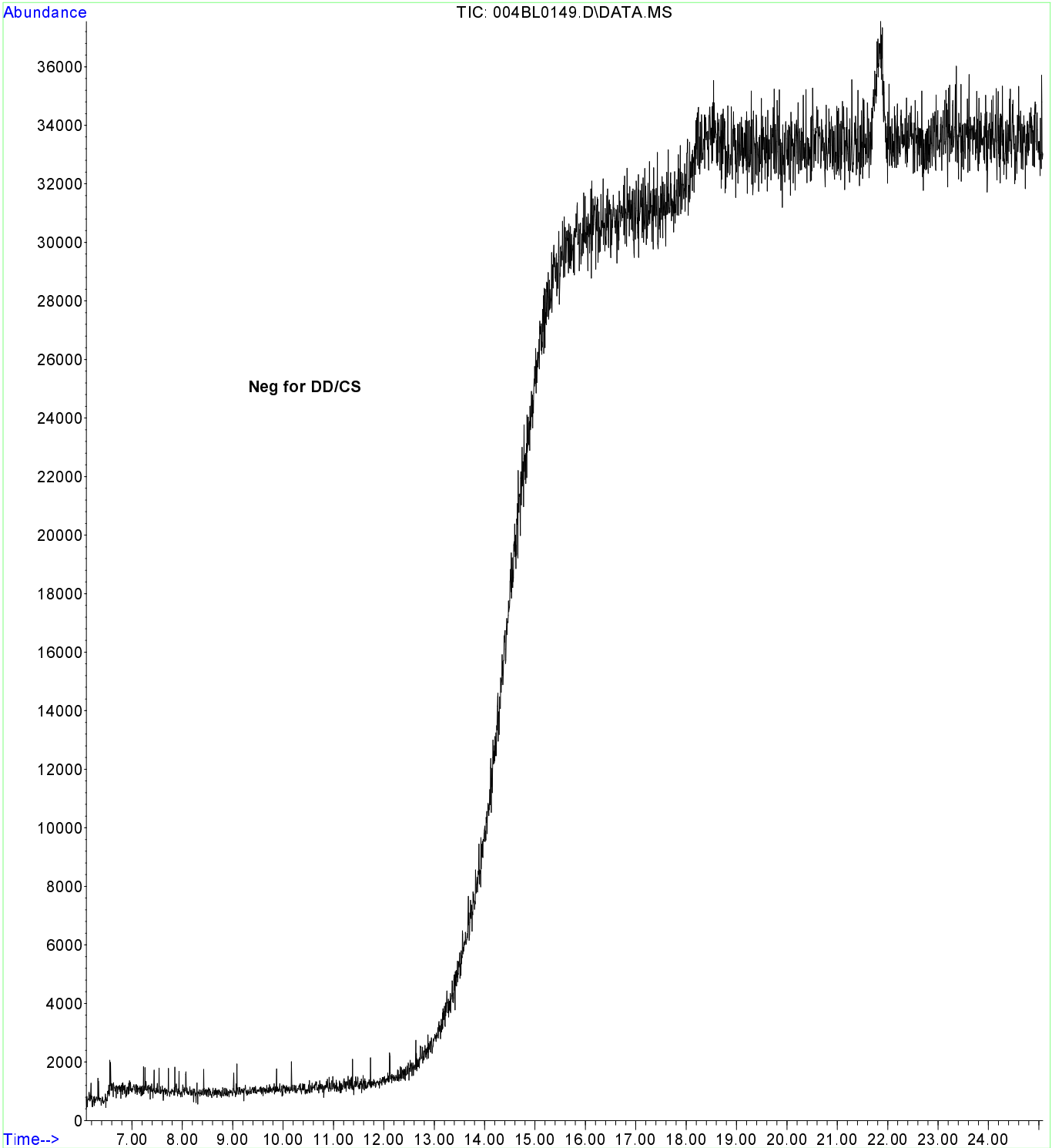
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Quality : 76
ID : Fentanyl



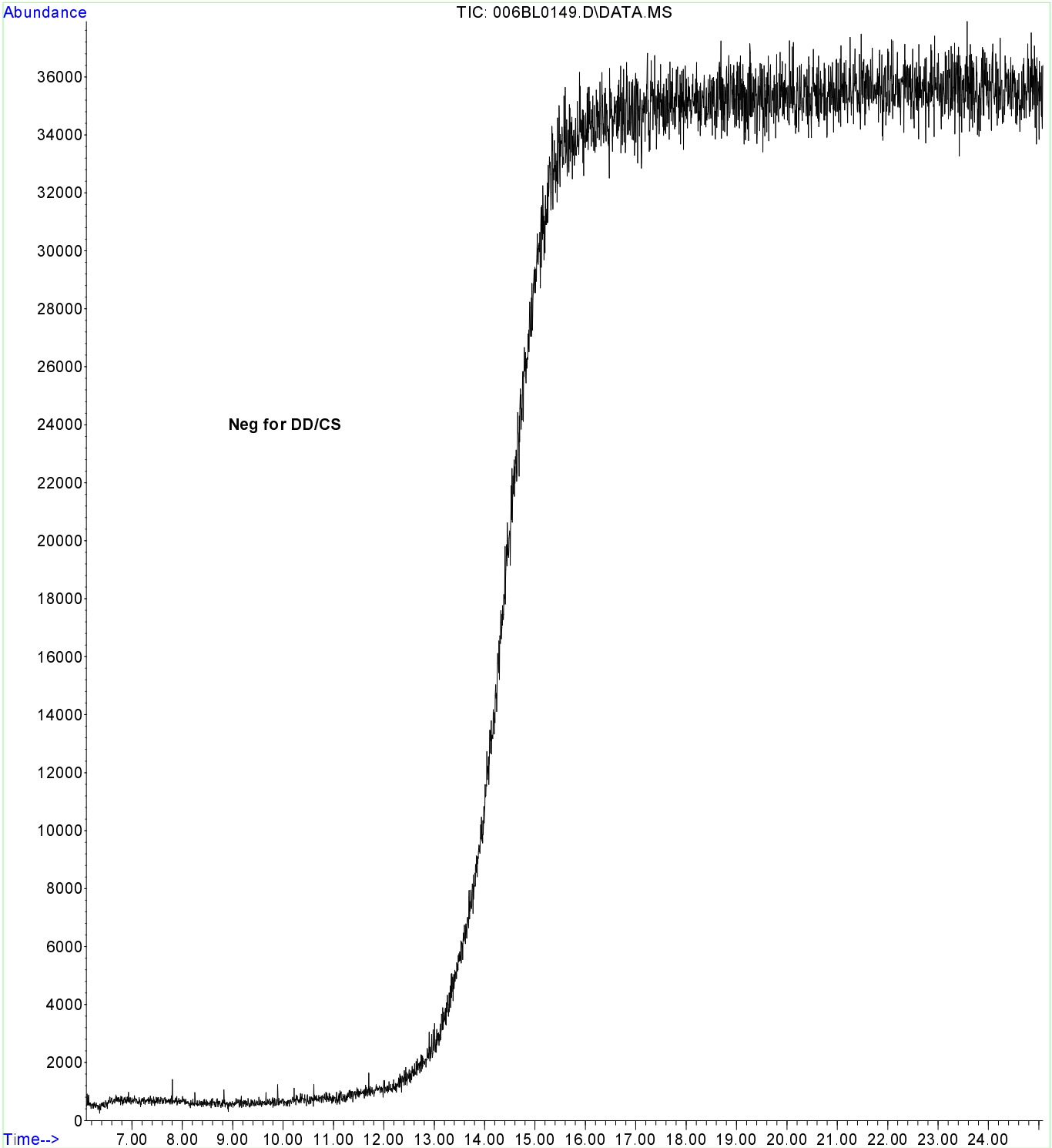
Library Searched : D:\MassHunter\Library\DRUG.L Sample Name: CAYMAN GC/MS MIX 3 (R-2
Quality : 99
ID : Alprazolam



File :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
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Instrument : BCCL GCMS #3
Acquired : 10 Feb 2025 10:07 am using AcqMethod DrugTest.M
Sample Name: BLANK (C-19-0068) PRIOR TO CAYMAN GC/MS MIX 3 (R-24-060) 000002666
Misc Info : 000002666



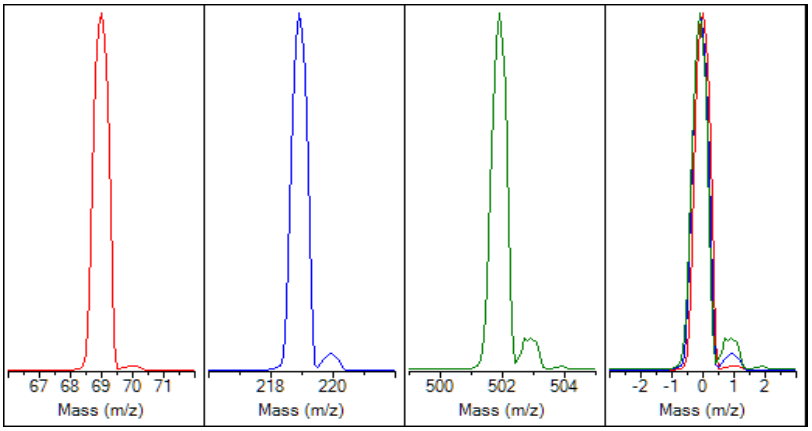
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Operator : DrugChem-HP\admin
Instrument : BCCL GCMS #3
Acquired : 10 Feb 2025 11:04 am using AcqMethod DrugTest.M
Sample Name: BLANK (C-19-0068) - INSTRUMENT READY 000002666
Misc Info : 000002666



Autotune - 5977

2/17/2025 10:23:37 AM (UTC-6:00) BCCL GCMS #3

D:\MASSHUNTER\GCMS\1\5977\atune.u US1329M205



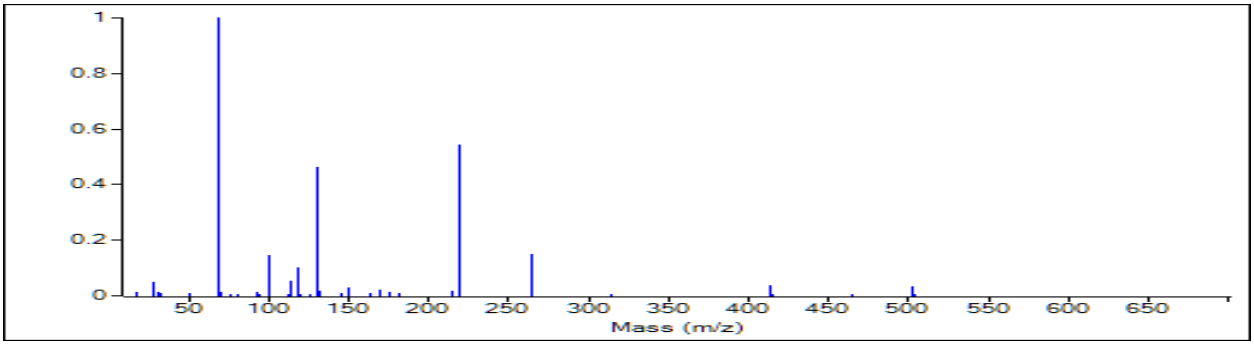
Ion Polarity	Pos	Mass Gain	-367
Emission	34.6	Mass Offset	-35
Electron Energy	70.0	Amu Gain	1678
Filament	1	Amu Offset	119.75
Repeller	32.51	Width219	-0.007
Ion Focus	83.4	DC Polarity	Pos
Entrance Lens	17.6	HED Enable	On
Ent Lens Offset	12.36	EM Volts	1864.7
Ion Body	0.00	Extractor Lens	0.00
		Scan Speed	3
		Averages	3
PFTBA	Open	Step Size	0.10

Mass	Abund	Rel Abund	Pw50
69.00	454,663	100.0%	0.60
218.90	248,449	54.6%	0.60
501.90	15,957	3.5%	0.58

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	8.05e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	91	69.00	438,656	1,251,152



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	438,656	100.00	70.00	4,842	1.10
219.00	238,528	54.38	220.00	9,967	4.18
502.10	14,448	3.29	503.10	1,451	10.04

Air/Water Check: H20 ~1.1% N2 ~4.9% O2 ~0.9% CO2 ~0.1% N2/H20 ~468.4%

Column(1) Flow: 0.80 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 75734.850

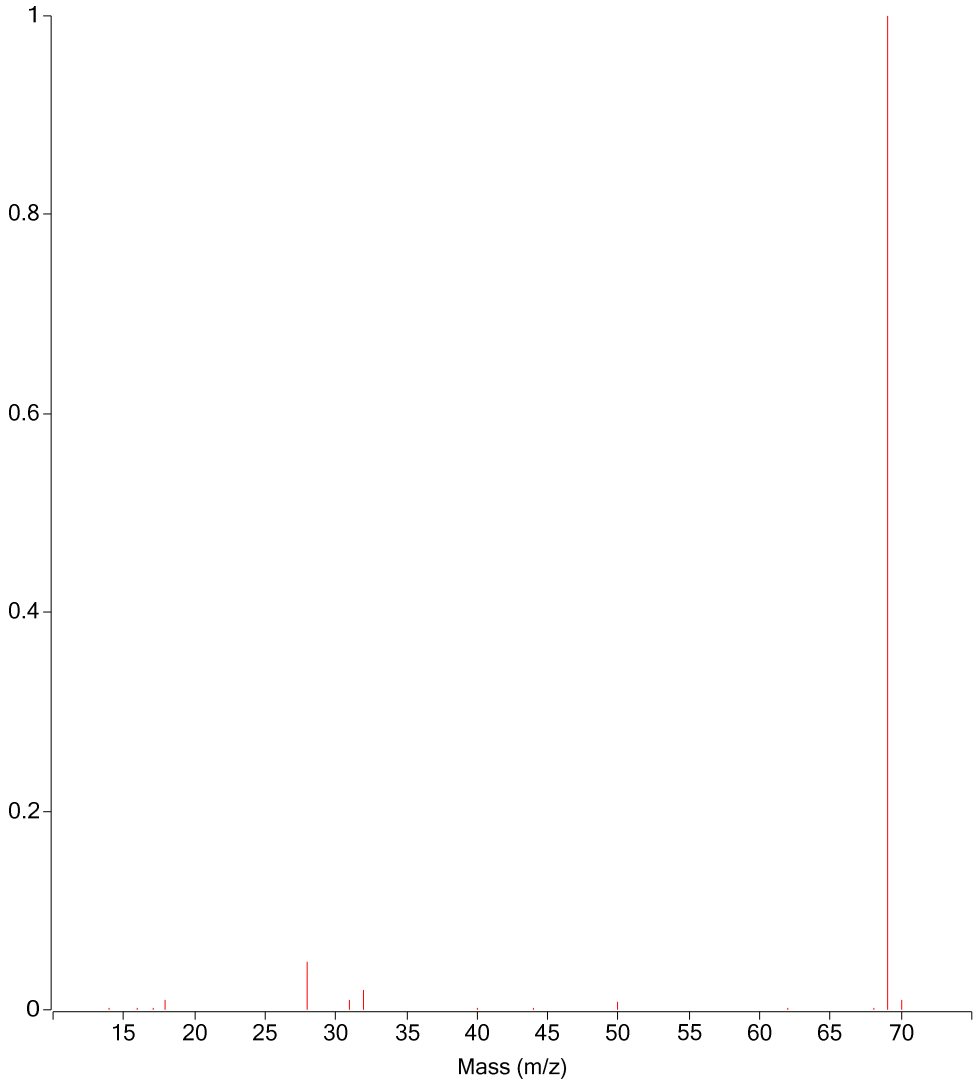
Repeller maximum 35 volts using ion 219; Gain Factor 0.7573

Mass Gain Values(Scan Speed): -350(3) -358(2) -369(1) -370(0) -370(FS1) -344(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	119.8	119.8	119.8	119.8	119.8	119.8	119.8
Entrance Lens Offset	12.4	12.4	12.4	12.4	12.4	12.4	12.4

597x Air and Water Check

Instrument: BCCL GCMS #3
Mon Feb 17 10:18:44 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: atune.u

Relative abundances:

18/69 =	1.10	Water%	(counts=6743)
28/69 =	4.88	Nitrogen%	(counts=29912)
32/69 =	2.05	Oxygen%	(counts=12555)
44/69 =	0.27	Carbon Dioxide%	(counts=1657)
28/18 =	443.60	Nitrogen/Water%	

Instrument Name	: BCCL GCMS #3	
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	502.08	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	220.00	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%)	4.30	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.17	OK
Ratio of 219 to 69 should be > 40% and is	53.86	OK
Ratio of 502 to 69 should be > 2.4% and is	3.35	OK
Mass 69 Precursor (<= 3%)	0.10	OK
Mass 219 Precursor (<= 6%)	0.27	OK
Mass 502 Precursor (<= 12%)	0.80	OK

597x Air and Water Check

Mon Feb 17 10:31:20 2025	Instrument: BCCL GCMS #3
D:\MASSHUNTER\GCMS\1\5977\atune.u	US1329M205

Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	0.88	OK
Ratio of 28 to 69 (<10%)	6.22	OK
Electron Multiplier Voltage	1865	OK

Tune portion of System Verification passed.

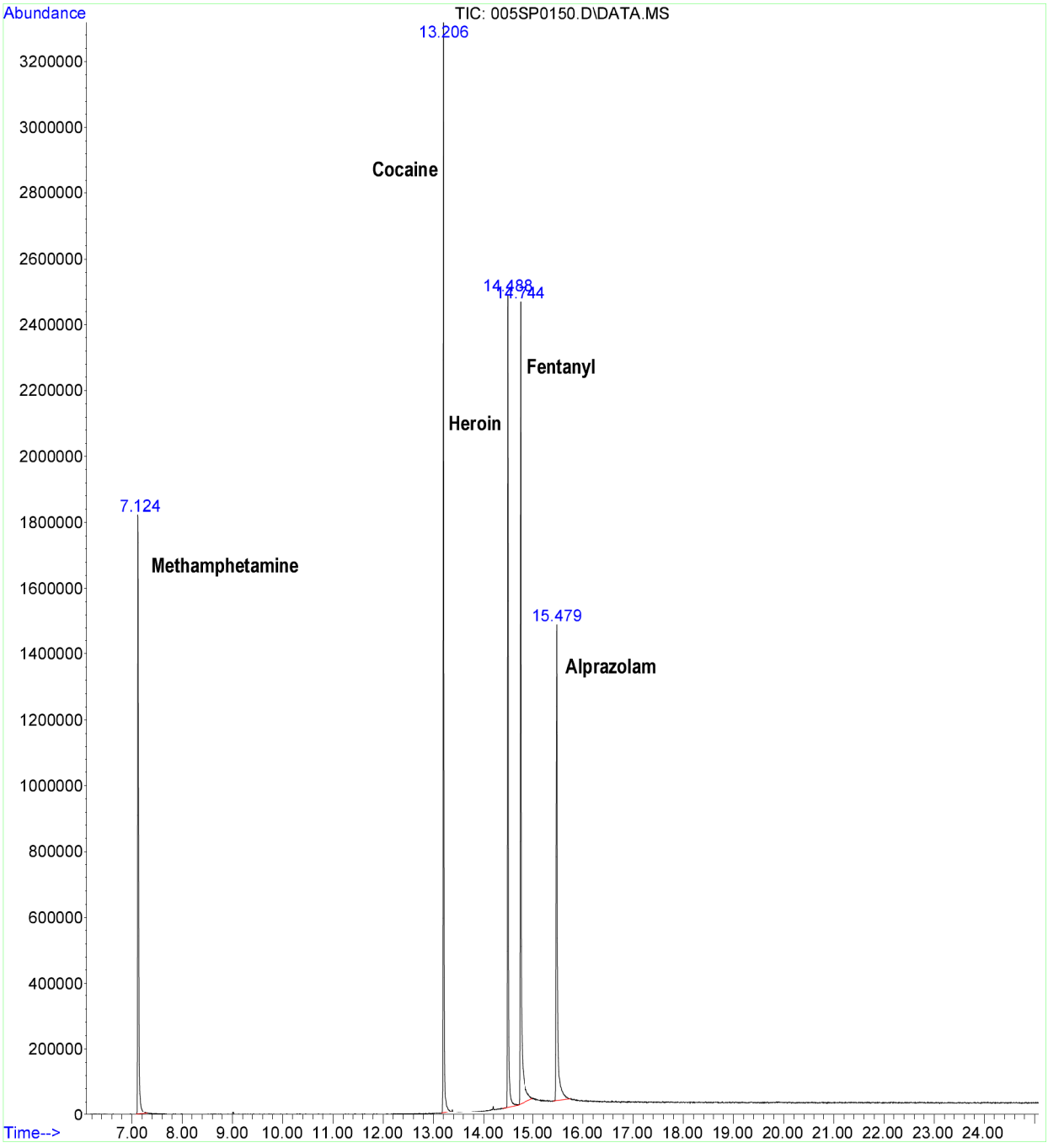
BCCL GC/MS #3
Retention Times for the Week of:

02/17/2025 - 02/23/2025

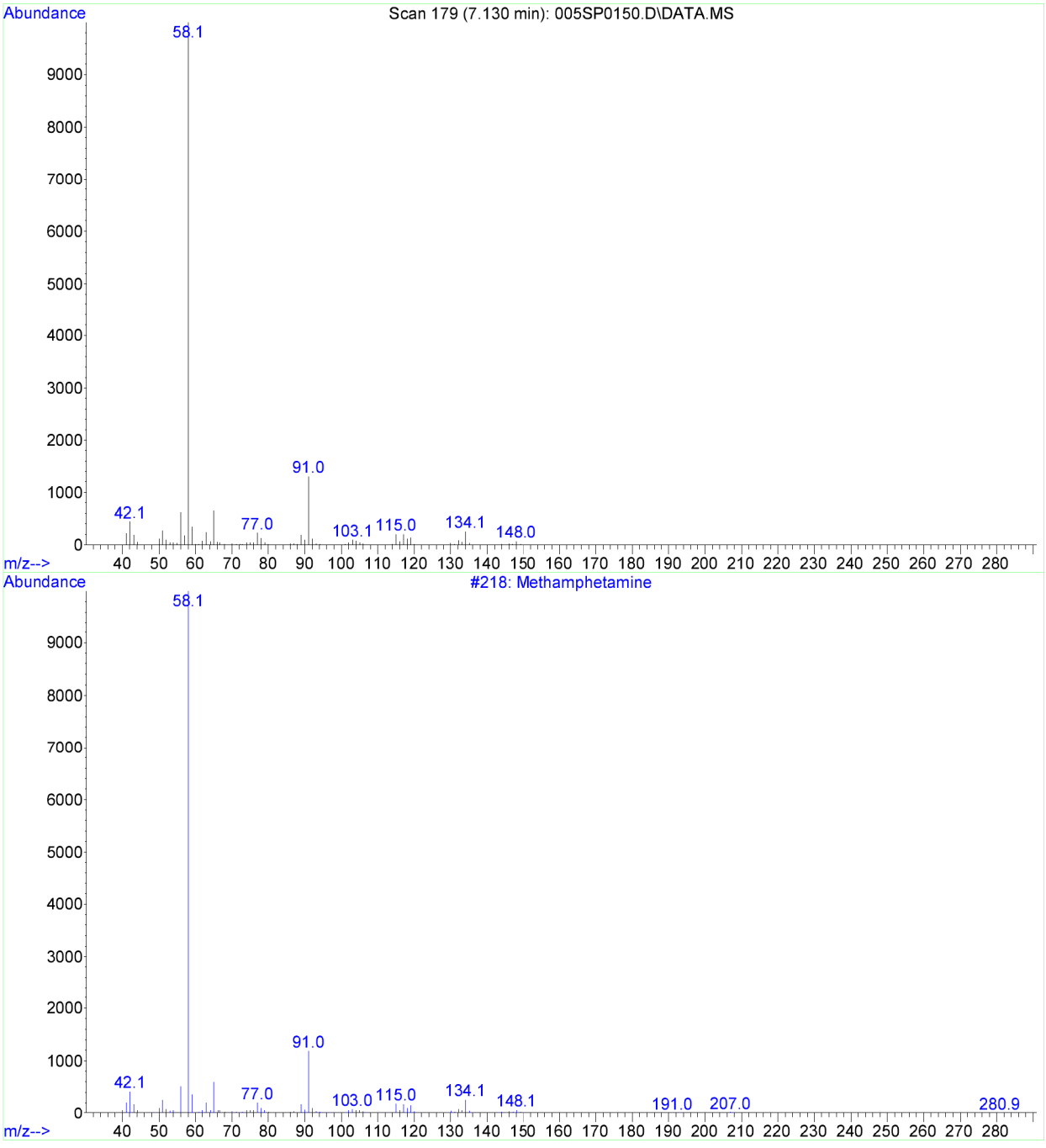
[X] **Tune: DS 02/17/2025 - Autotune**

Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35	7.124	7.052	7.195
Cocaine	R-24-060	DrugTest35	13.206	13.073	13.338
Heroin	R-24-060	DrugTest35	14.489	14.344	14.633
Fentanyl	R-24-060	DrugTest35	14.744	14.596	14.891
Alprazolam	R-24-060	DrugTest35	15.479	15.324	15.633
delta-9 THC	R-24-025	DrugTest35	14.036	13.895	14.176

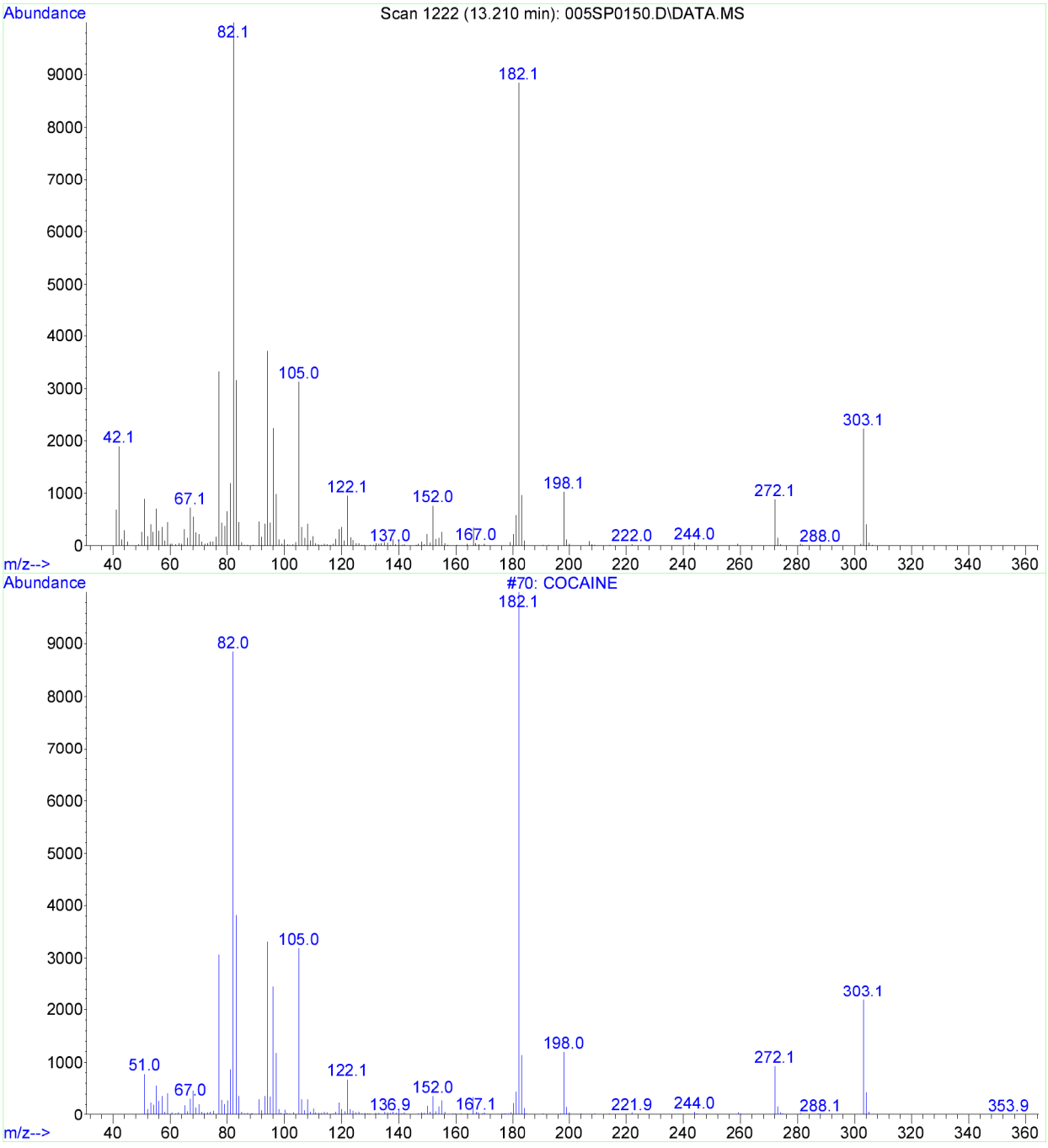
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Operator   : DrugChem-HP\admin
Instrument :   BCCL GCMS #3
Acquired   : 17 Feb 2025  11:51 am using AcqMethod DrugTest.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
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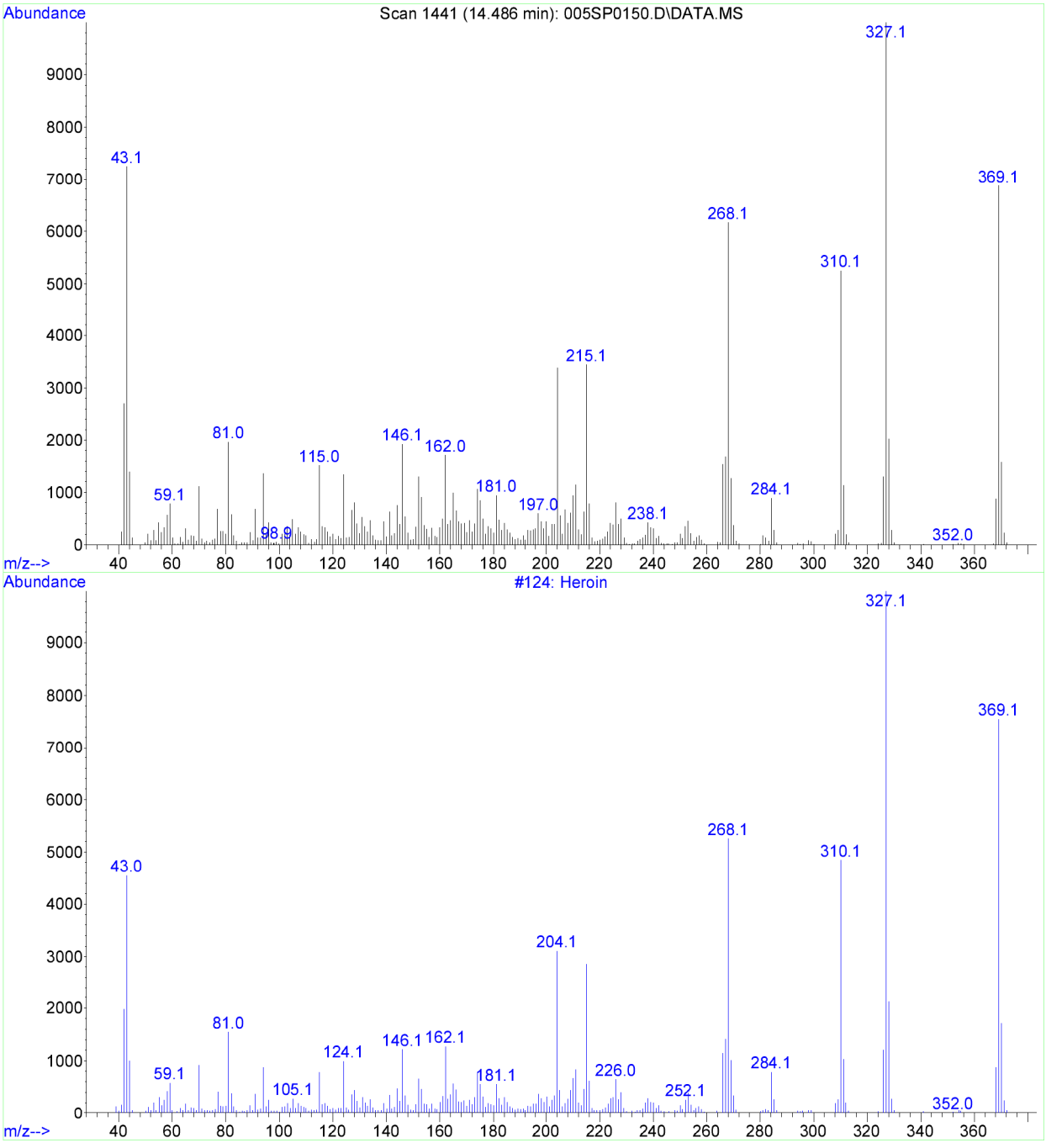
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Operator   : DrugChem-HP\admin
Instrument :   BCCL GCMS #3
Acquired   : 17 Feb 2025  11:51 am using AcqMethod DrugTest.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
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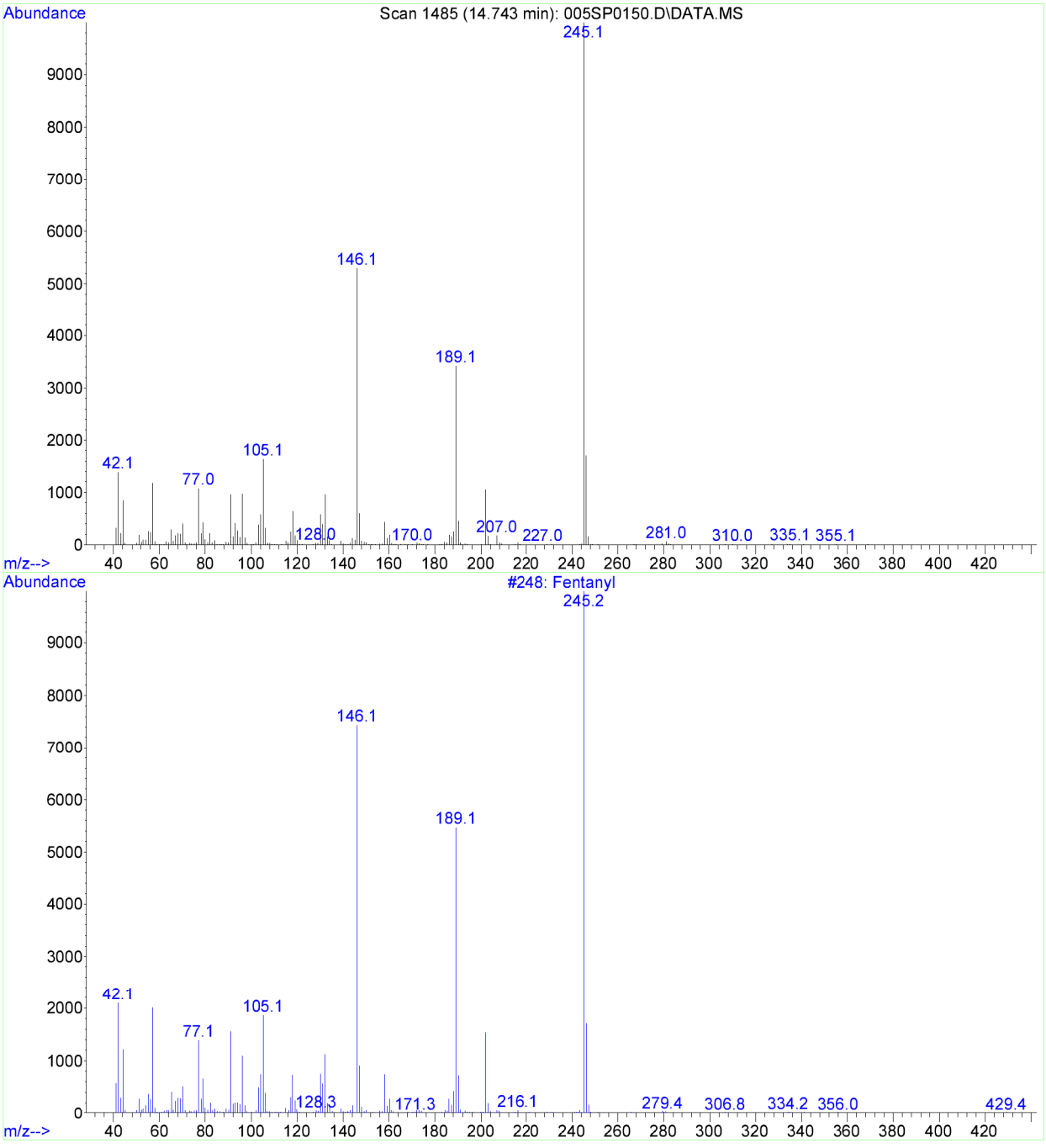
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Instrument :   BCCL GCMS #3
Acquired   : 17 Feb 2025  11:51 am using AcqMethod DrugTest.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
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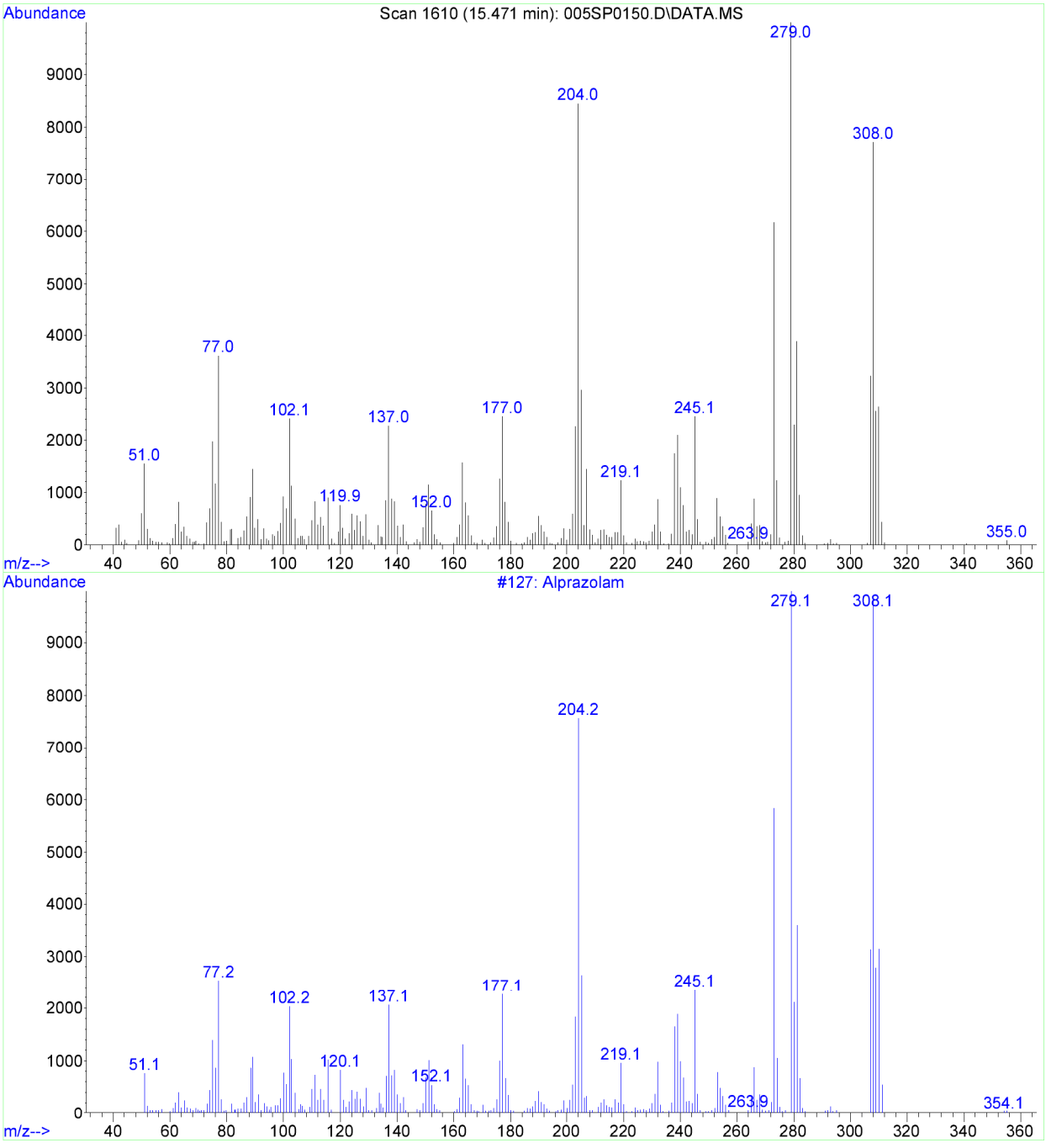
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... Data\021725\005SP0150.D
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Instrument : BCCL GCMS #3
Acquired : 17 Feb 2025 11:51 am using AcqMethod DrugTest.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002667
Misc Info : 000002667



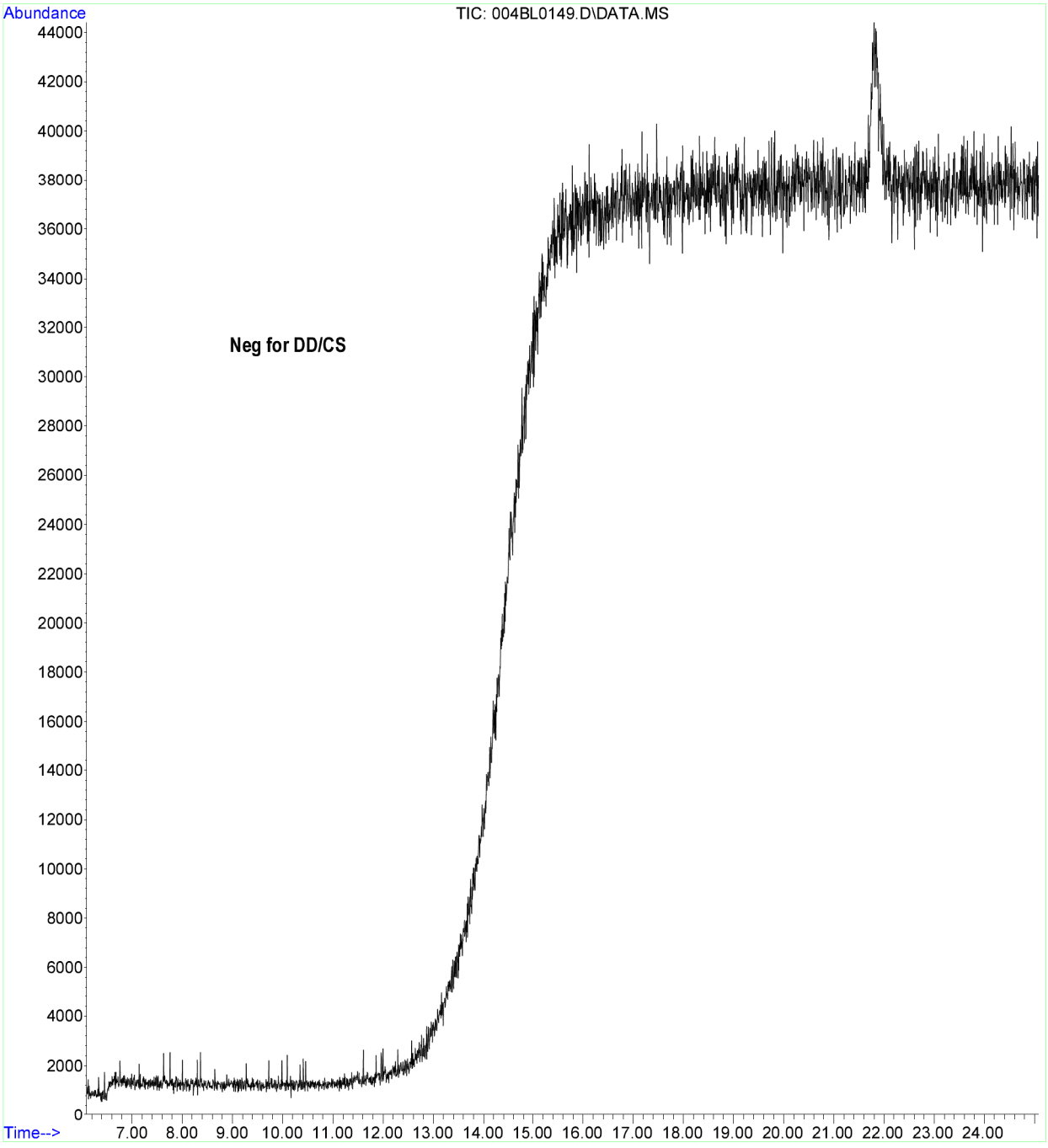
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Operator   : DrugChem-HP\admin
Instrument :   BCCL GCMS #3
Acquired   : 17 Feb 2025  11:51 am using AcqMethod DrugTest.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
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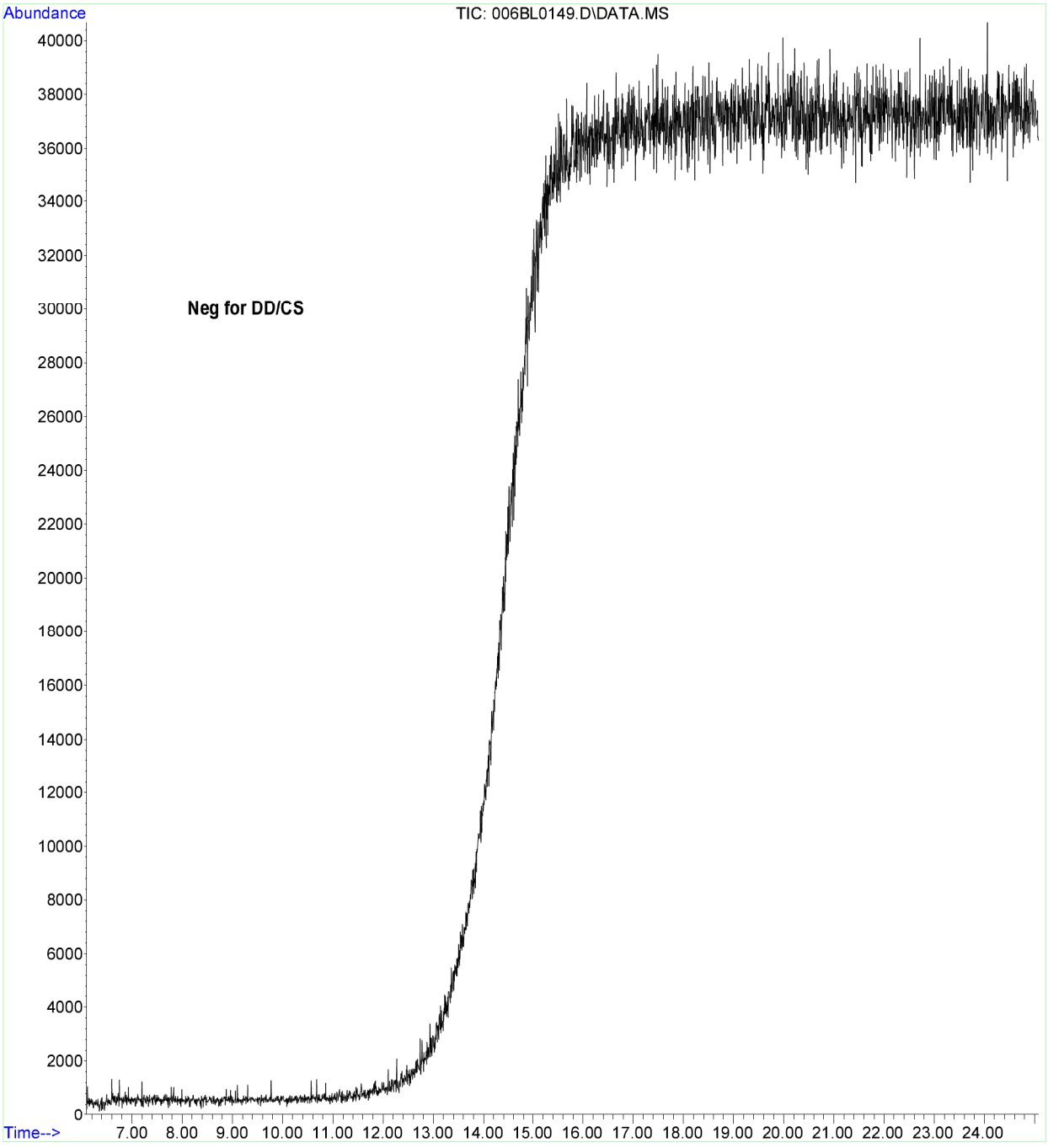
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Instrument :   BCCL GCMS #3
Acquired   : 17 Feb 2025  11:51 am using AcqMethod DrugTest.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
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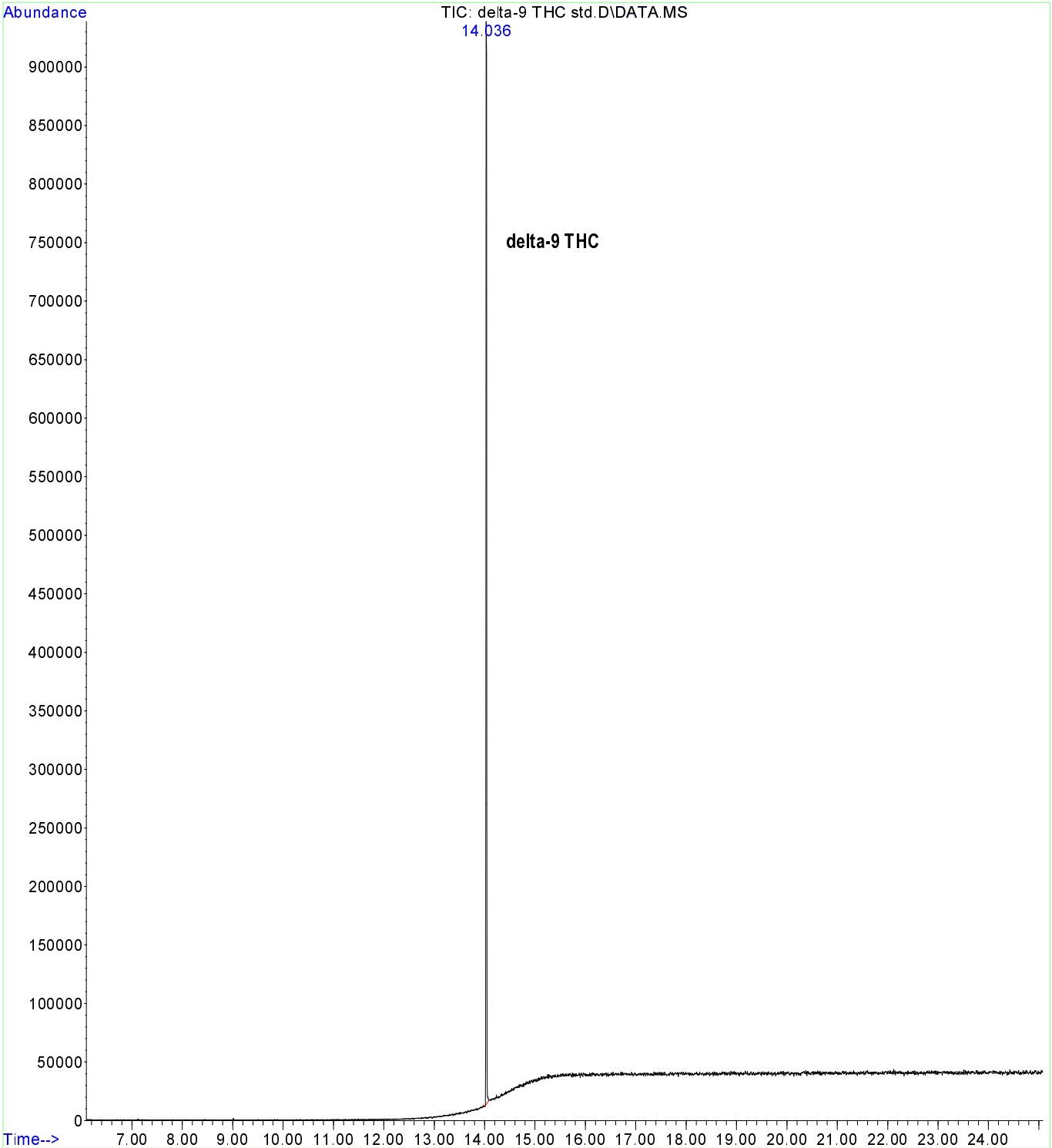
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Operator : DrugChem-HP\admin
Instrument : BCCL GCMS #3
Acquired : 17 Feb 2025 11:23 am using AcqMethod DrugTest.M
Sample Name: BLANK (C-19-0068) PRIOR TO CAYMAN GC/MS MIX 3 (R-24-060) 000002666
Misc Info : 000002666



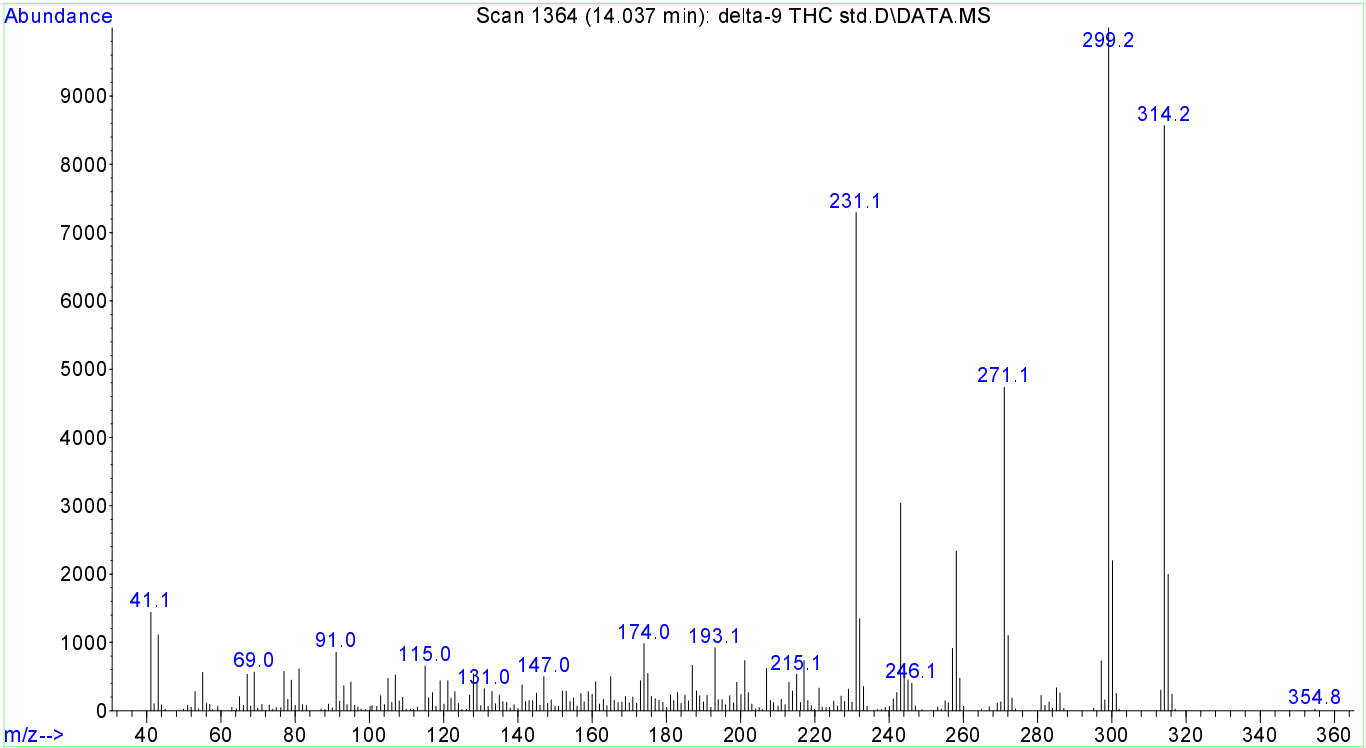
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Operator : DrugChem-HP\admin
Instrument : BCCL GCMS #3
Acquired : 17 Feb 2025 12:20 pm using AcqMethod DrugTest.M
Sample Name: BLANK (C-19-0068) - INSTRUMENT READY 000002666
Misc Info : 000002666

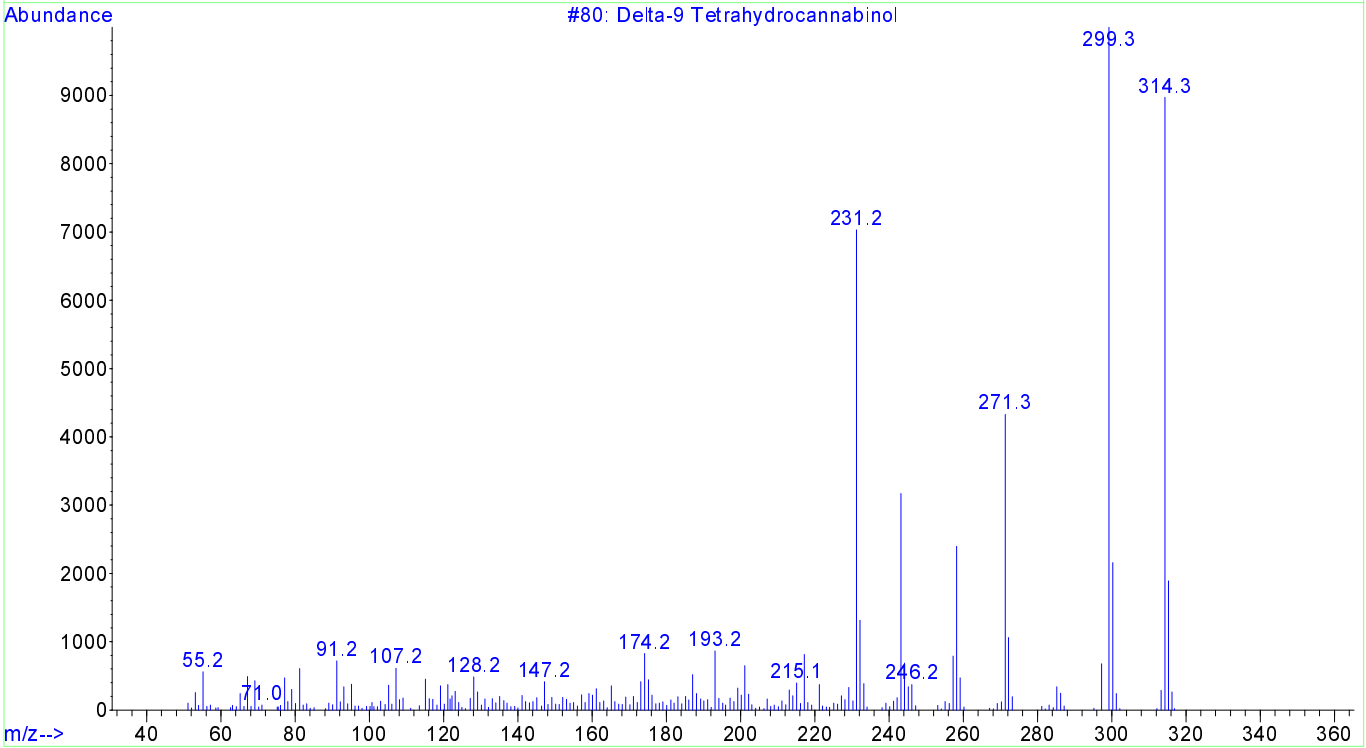


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File       :D:\MassHunter\GCMS\1\GCMS 3 data\2025 Data\022025\delta-9 TH
...         C std.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL GCMS #3
Acquired   : 20 Feb 2025  11:12 pm using AcqMethod DrugTest.M
Sample Name: delta-9 THC std (R-24-025)                      000002330
Misc Info  : RT determination                                000002993
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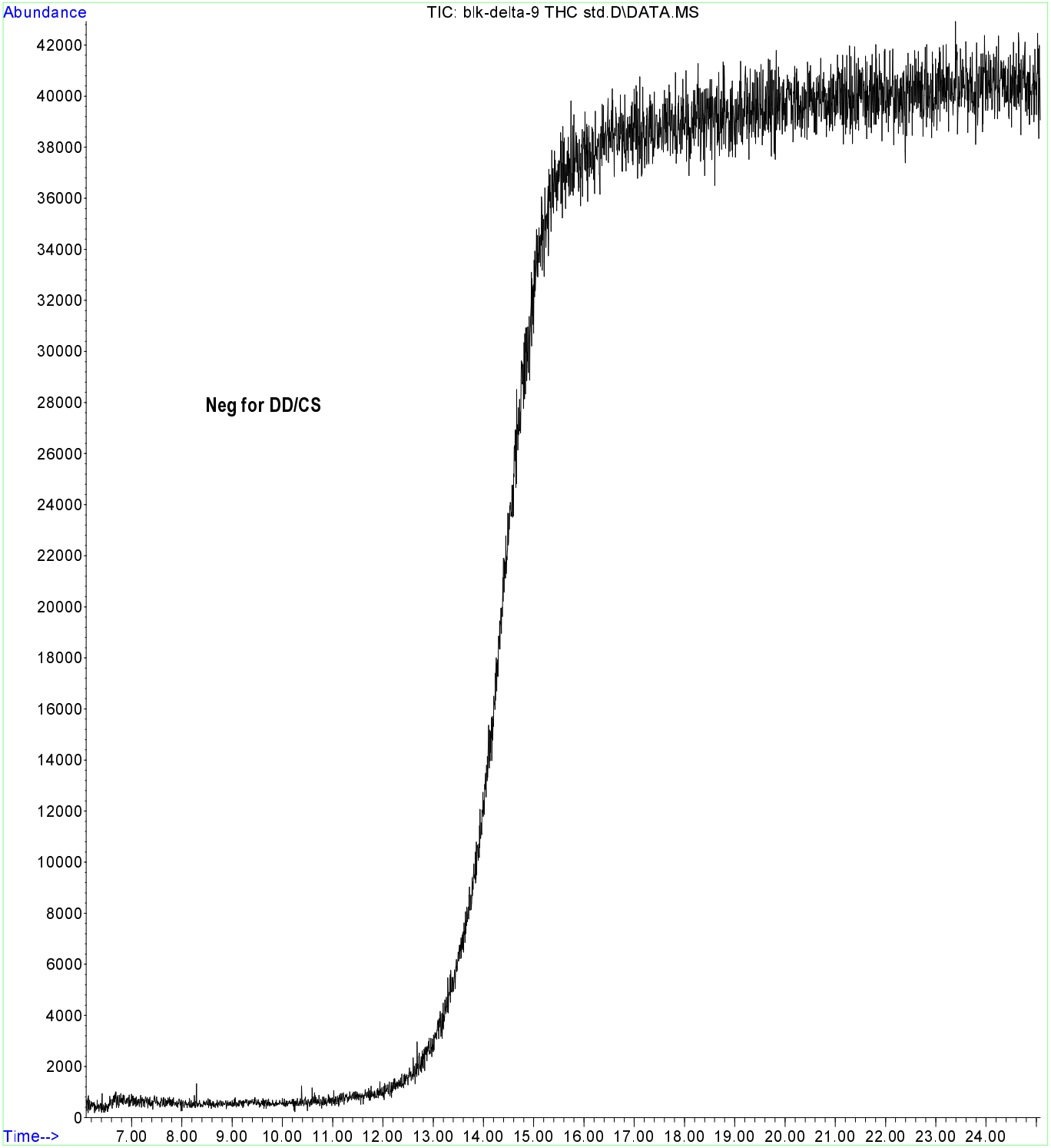


```
File       :D:\MassHunter\GCMS\1\GCMS 3 data\2025 Data\022025\delta-9 TH
...         C std.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL GCMS #3
Acquired   : 20 Feb 2025  11:12 pm using AcqMethod DrugTest.M
Sample Name: delta-9 THC std (R-24-025)                        000002330
Misc Info  : RT determination                                  000002993
```





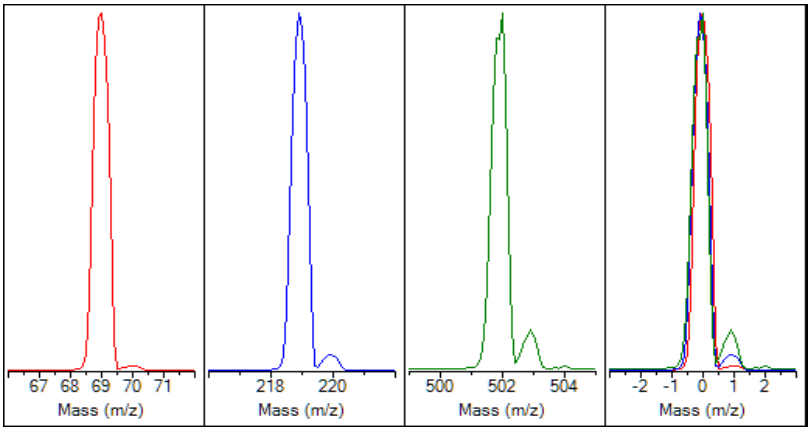
```
File       :D:\MassHunter\GCMS\1\GCMS 3 data\2025 Data\022025\blk-delta-
...         9 THC std.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL GCMS #3
Acquired   : 20 Feb 2025  10:43 pm using AcqMethod DrugTest.M
Sample Name: blank prior to delta-9 THC std (R-24-025)      000002398
Misc Info  : DCM (C-22-0015B) + MeOH (C-20-0050B)           000002398
```



Autotune - 5977

2/24/2025 9:52:35 AM (UTC-6:00) BCCL GCMS #3

D:\MASSHUNTER\GCMS\1\5977\atune.u US1329M205



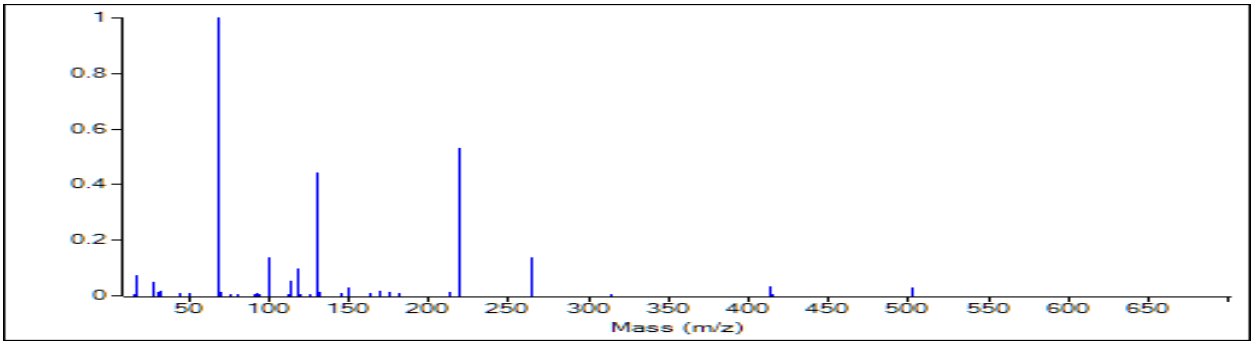
Ion Polarity	Pos	Mass Gain	-367
Emission	34.6	Mass Offset	-35
Electron Energy	70.0	Amu Gain	1678
Filament	1	Amu Offset	119.75
Repeller	33.31	Width219	-0.007
Ion Focus	79.5	DC Polarity	Pos
Entrance Lens	15.1	HED Enable	On
Ent Lens Offset	12.53	EM Volts	1864.7
Ion Body	0.00	Extractor Lens	0.00
		Scan Speed	3
		Averages	3
PFTBA	Open	Step Size	0.10

Mass	Abund	Rel Abund	Pw50
69.00	430,722	100.0%	0.60
218.90	234,833	54.5%	0.59
502.00	13,085	3.0%	0.57

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	7.74e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	100	69.00	424,640	1,217,256



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	424,640	100.00	70.00	4,604	1.08
218.90	224,704	52.92	219.90	9,651	4.29
501.80	12,534	2.95	502.80	1,157	9.23

Air/Water Check: H20 ~7.4% N2 ~4.9% O2 ~1.6% CO2 ~0.8% N2/H20 ~66.7%

Column(1) Flow: 0.80 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 78434.023

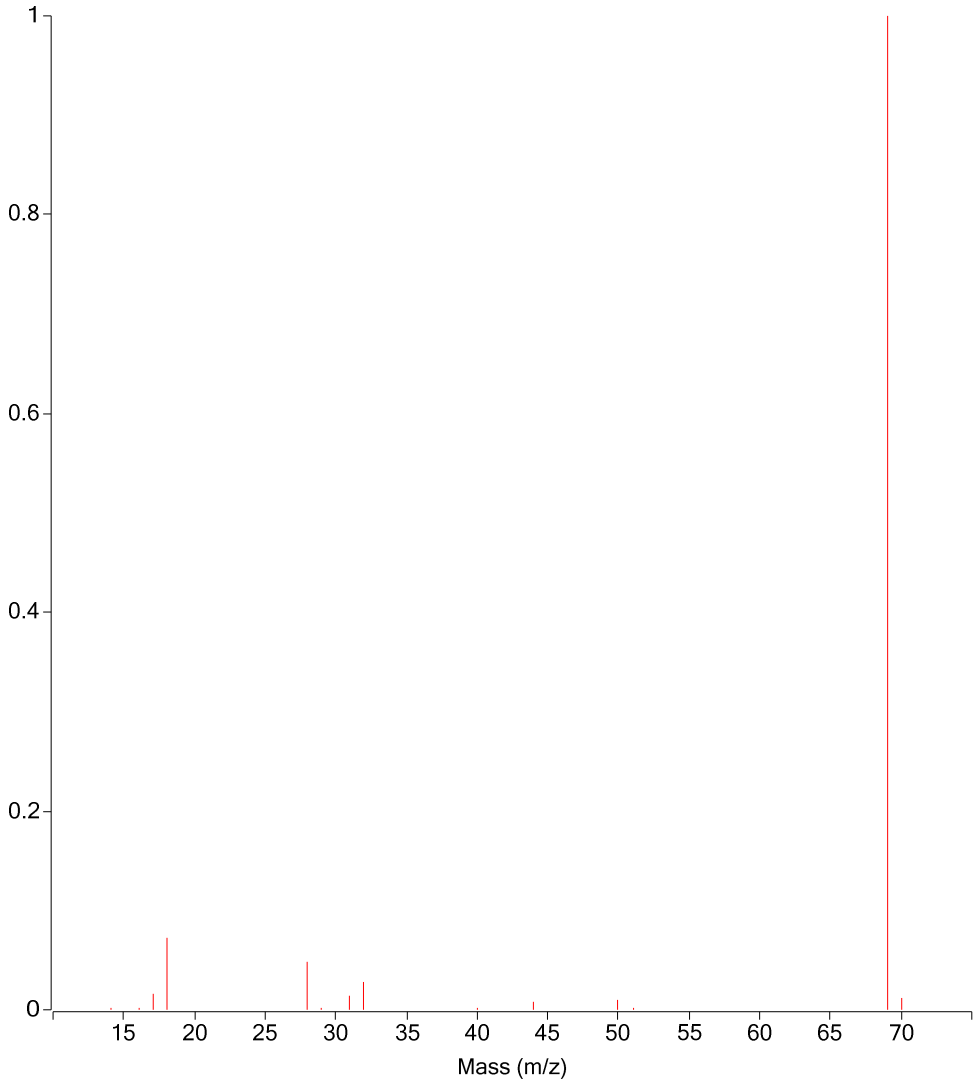
Repeller maximum 35 volts using ion 219; Gain Factor 0.7843

Mass Gain Values(Scan Speed): -378(3) -354(2) -333(1) -309(0) -257(FS1) -256(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	119.8	119.8	119.8	119.8	119.8	119.8	119.8
Entrance Lens Offset	12.5	12.5	12.5	12.5	12.5	12.5	12.5

597x Air and Water Check

Instrument: BCCL GCMS #3
Mon Feb 24 09:47:55 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: atune.u

Relative abundances:

18/69 =	7.19	Water%	(counts=59200)
28/69 =	4.80	Nitrogen%	(counts=39544)
32/69 =	2.86	Oxygen%	(counts=23584)
44/69 =	0.83	Carbon Dioxide%	(counts=6814)
28/18 =	66.80	Nitrogen/Water%	

Instrument Name	: BCCL GCMS #3	
DC Polarity	: Positive	
Filament	1	
BasePeak should be 69 or 219		OK
Position of mass 69	69.00	OK
Position of mass 219	218.90	OK
Position of mass 502	501.86	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	219.90	OK
Position of isotope mass 503	502.84	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%)	4.36	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	57.57	OK
Ratio of 502 to 69 should be > 2.4% and is	3.75	OK
Mass 69 Precursor (<= 3%)	0.11	OK
Mass 219 Precursor (<= 6%)	0.27	OK
Mass 502 Precursor (<= 12%)	1.07	OK

597x Air and Water Check

Mon Feb 24 10:15:00 2025	Instrument: BCCL GCMS #3
D:\MASSHUNTER\GCMS\1\5977\atune.u	US1329M205

Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	2.04	OK
Ratio of 28 to 69 (<10%)	3.17	OK
Electron Multiplier Voltage	1865	OK

Tune portion of System Verification passed.

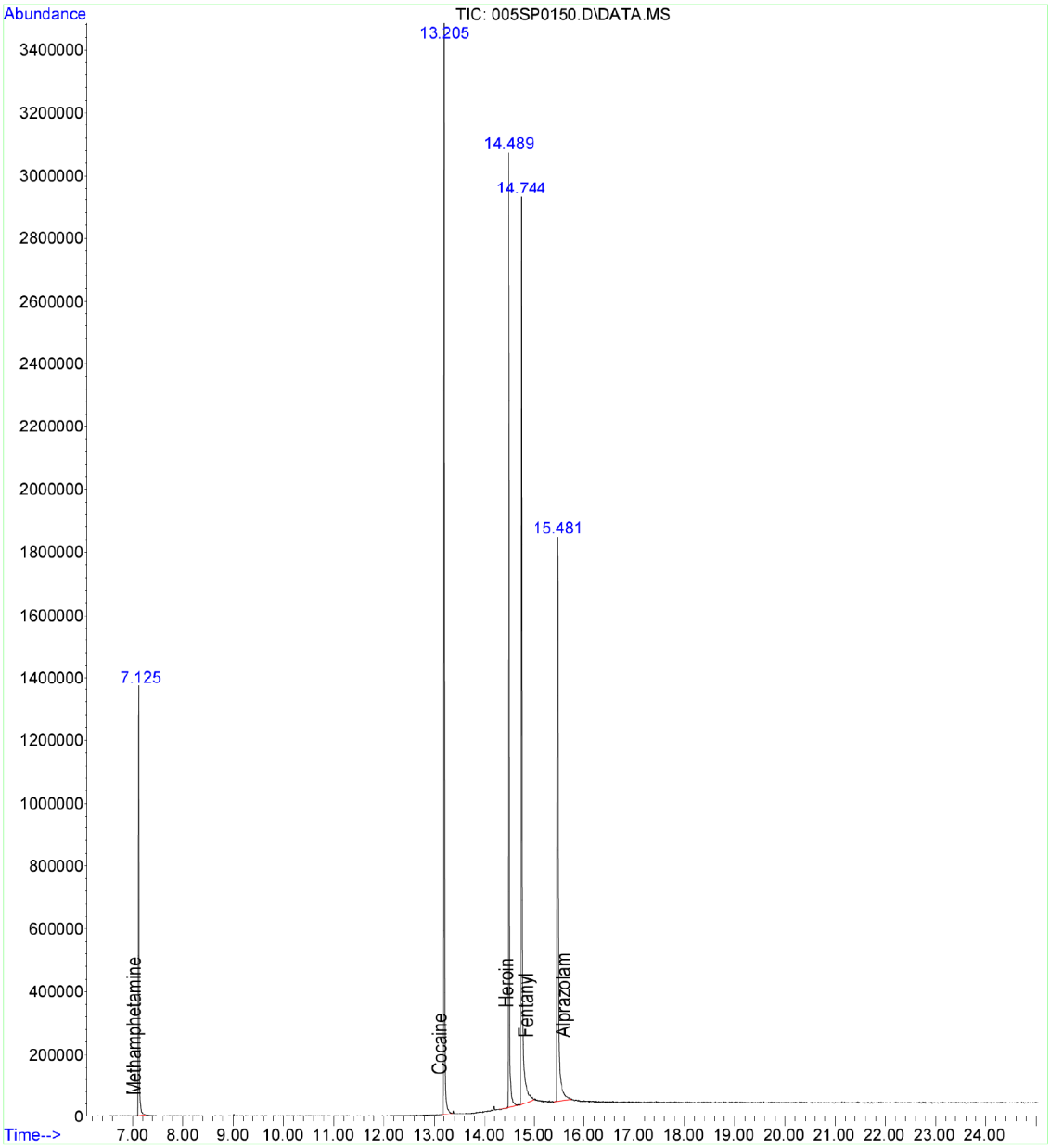
BCCL GC/MS #3
Retention Times for the Week of:

_02/24/2025 - 03/02/2025_

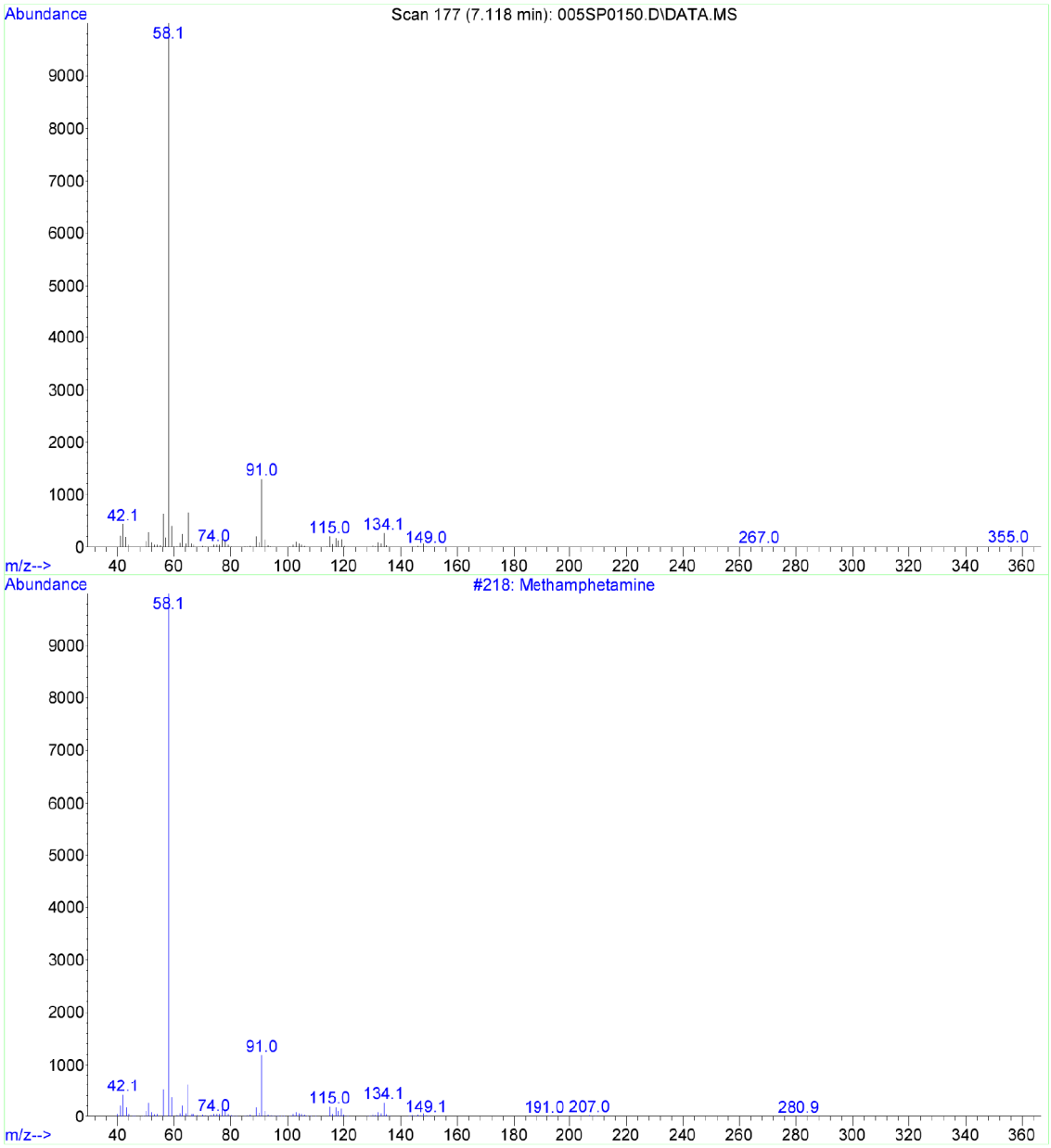
[X] Tune: _DN/DS__02/24/2025 - Autotune_

Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35	7.125	7.053	7.196
Cocaine	R-24-060	DrugTest35	13.205	13.072	13.337
Heroin	R-24-060	DrugTest35	14.489	14.344	14.633
Fentanyl	R-24-060	DrugTest35	14.744	14.596	14.891
Alprazolam	R-24-060	DrugTest35	15.481	15.326	15.635
Codeine	R-23-022	DrugTest35	13.823	13.684	13.961
Hydrocodone	R-23-023	DrugTest35	13.994	13.854	14.133

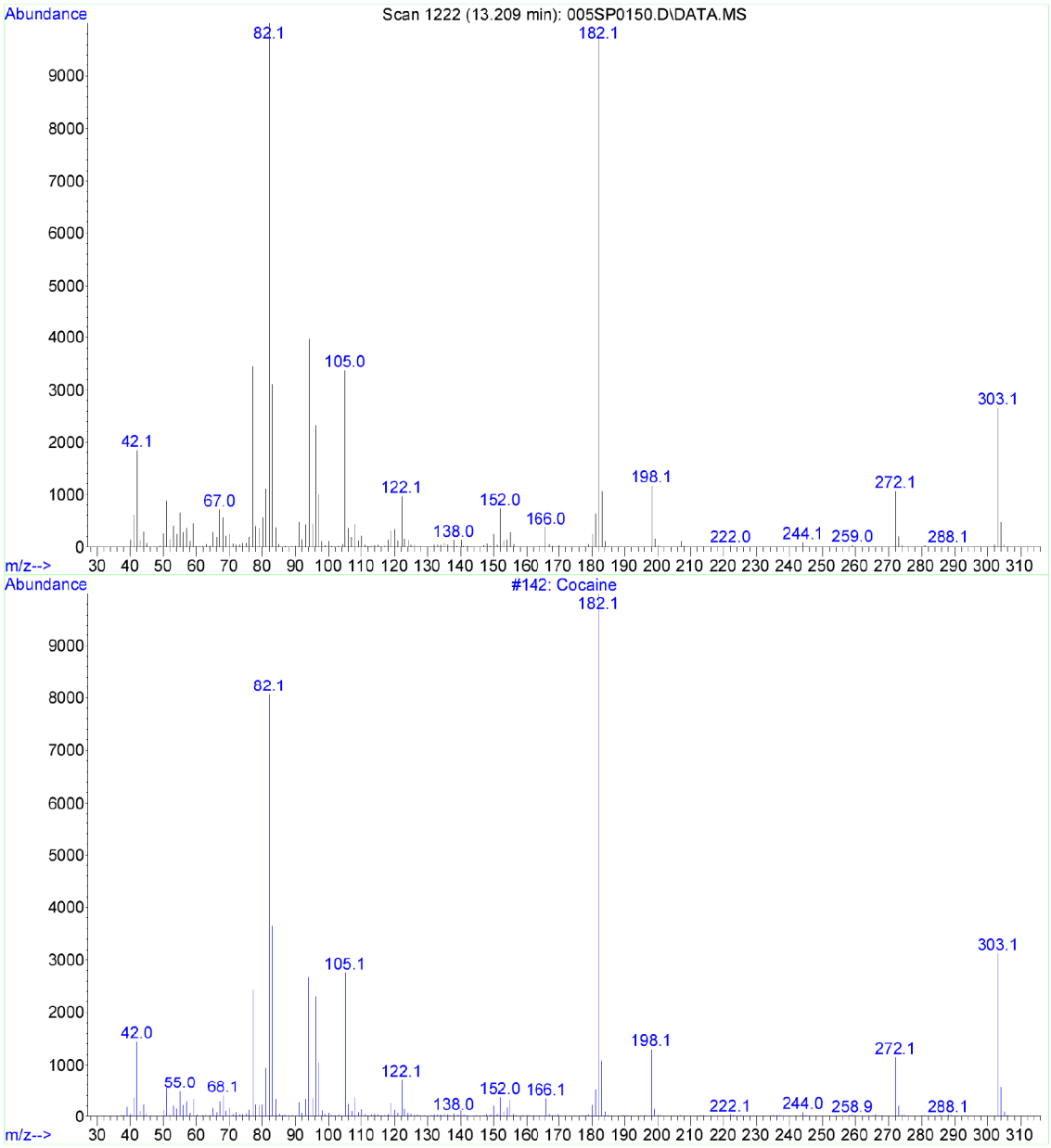
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File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\022425\005SP0150.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL GCMS #3
Acquired   : 24 Feb 2025  12:11 pm using AcqMethod DrugTest.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
```



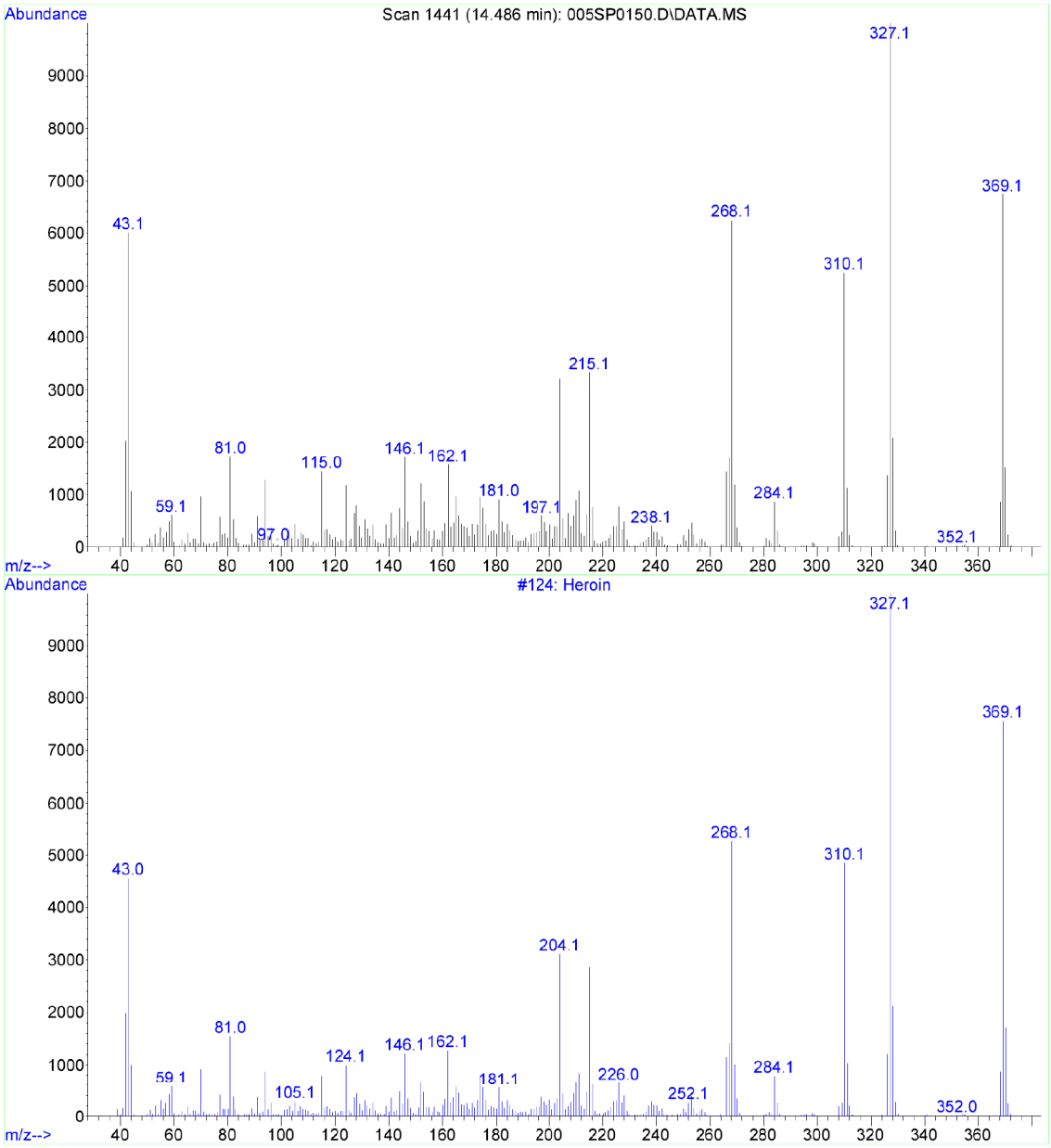
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...          Data\022425\005SP0150.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL GCMS #3
Acquired   : 24 Feb 2025  12:11 pm using AcqMethod DrugTest.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
```



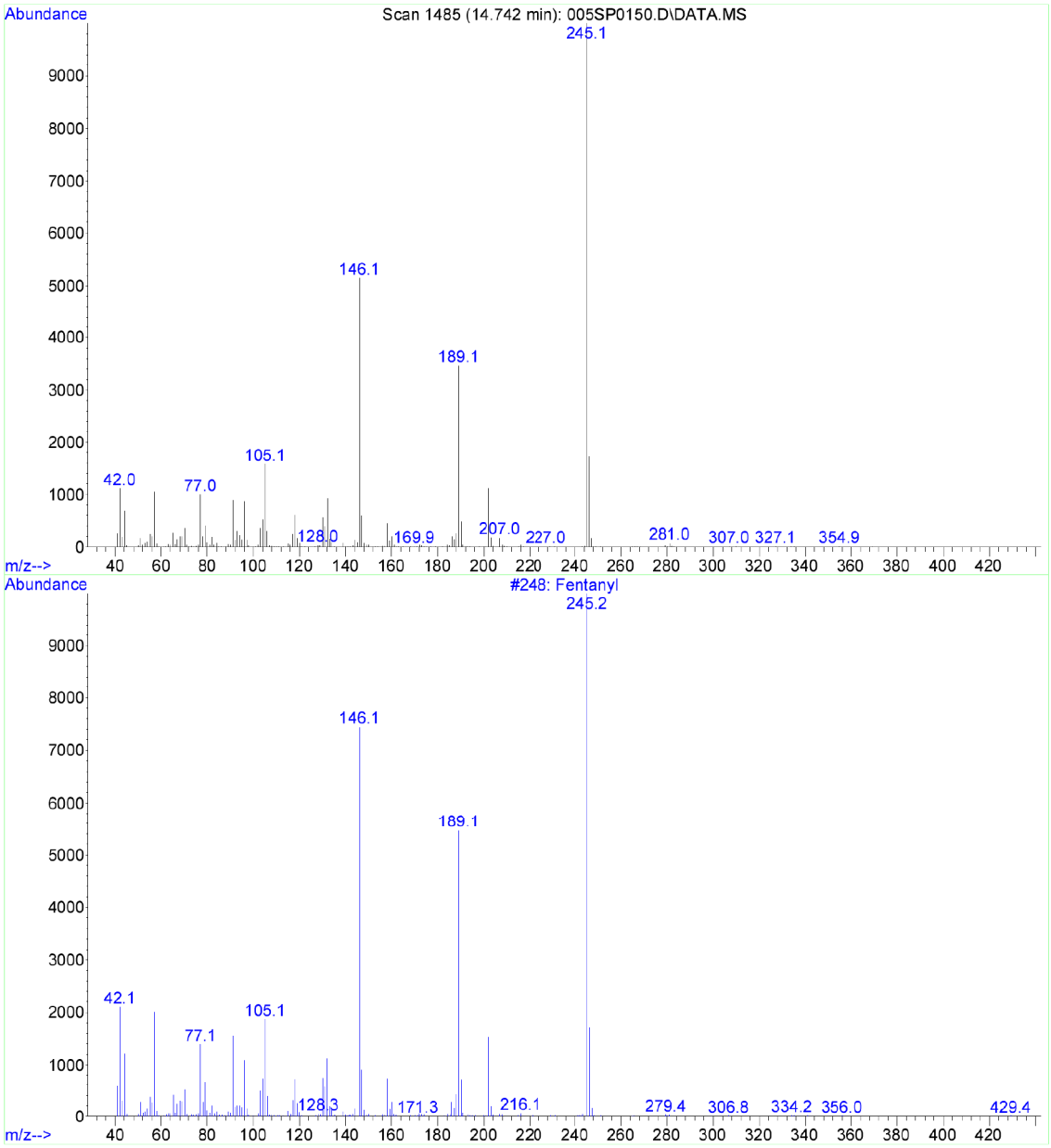
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File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\022425\005SP0150.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL GCMS #3
Acquired   : 24 Feb 2025  12:11 pm using AcqMethod DrugTest.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
```



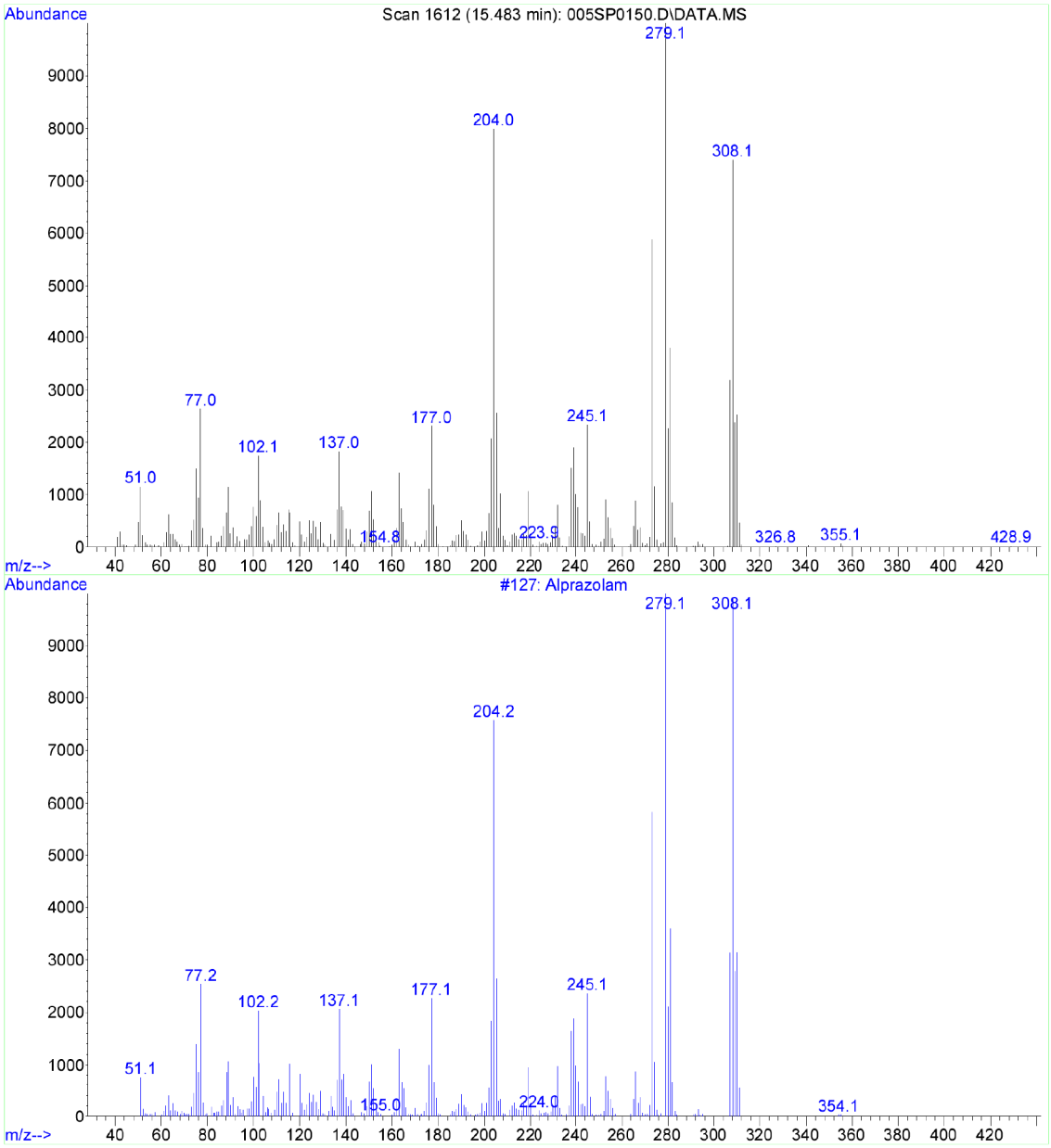
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File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\022425\005SP0150.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL GCMS #3
Acquired   : 24 Feb 2025  12:11 pm using AcqMethod DrugTest.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
```



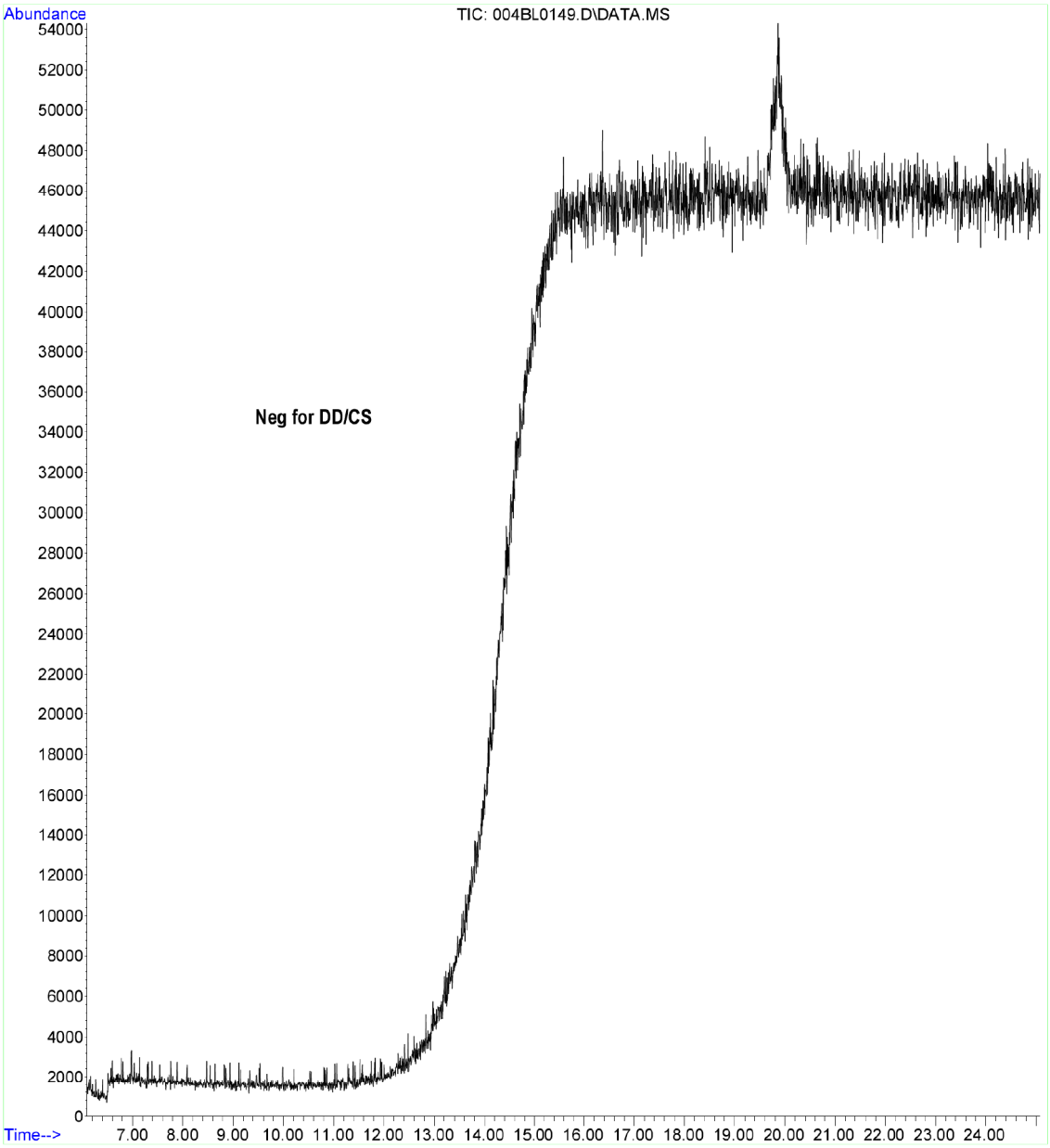
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Operator   : DrugChem-HP\admin
Instrument :   BCCL GCMS #3
Acquired   : 24 Feb 2025  12:11 pm using AcqMethod DrugTest.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
```



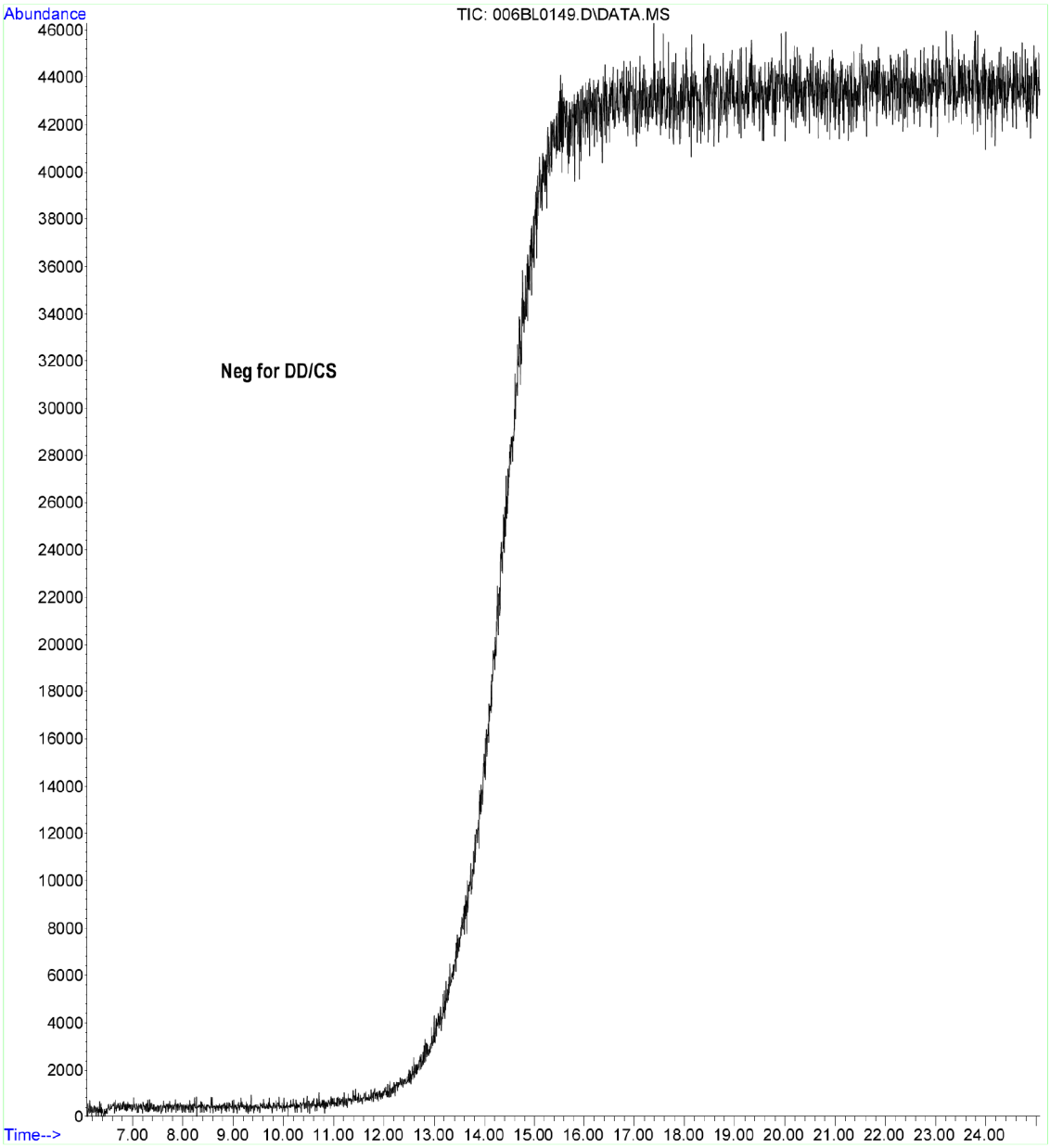
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Operator   : DrugChem-HP\admin
Instrument :   BCCL GCMS #3
Acquired   : 24 Feb 2025  12:11 pm using AcqMethod DrugTest.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
```



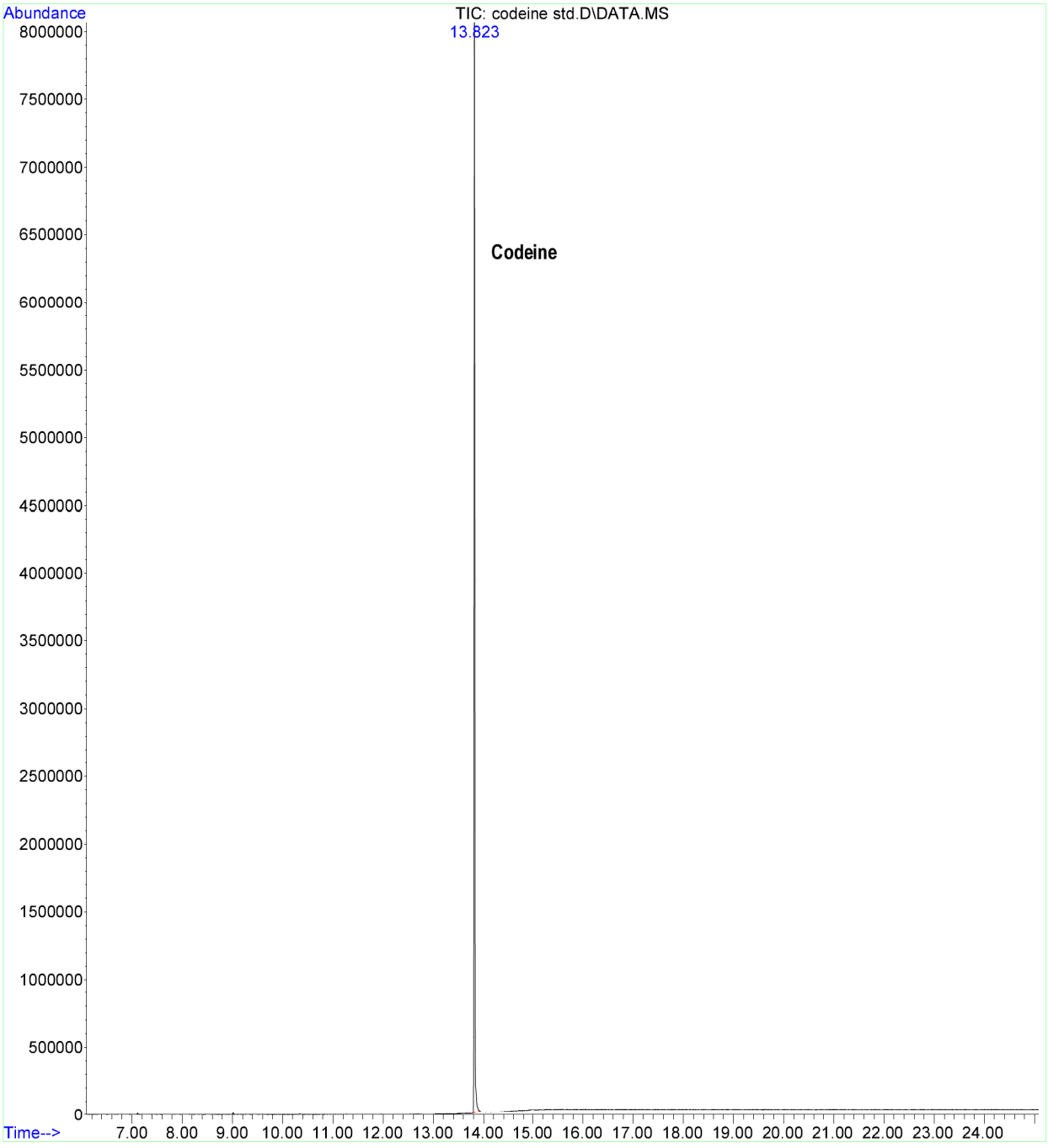
File :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
... Data\022425\004BL0149.D
Operator : DrugChem-HP\admin
Instrument : BCCL GCMS #3
Acquired : 24 Feb 2025 11:43 am using AcqMethod DrugTest.M
Sample Name: BLANK (C-19-0068) PRIOR TO CAYMAN GC/MS MIX 3 (R-24-060) 000002666
Misc Info : 000002666



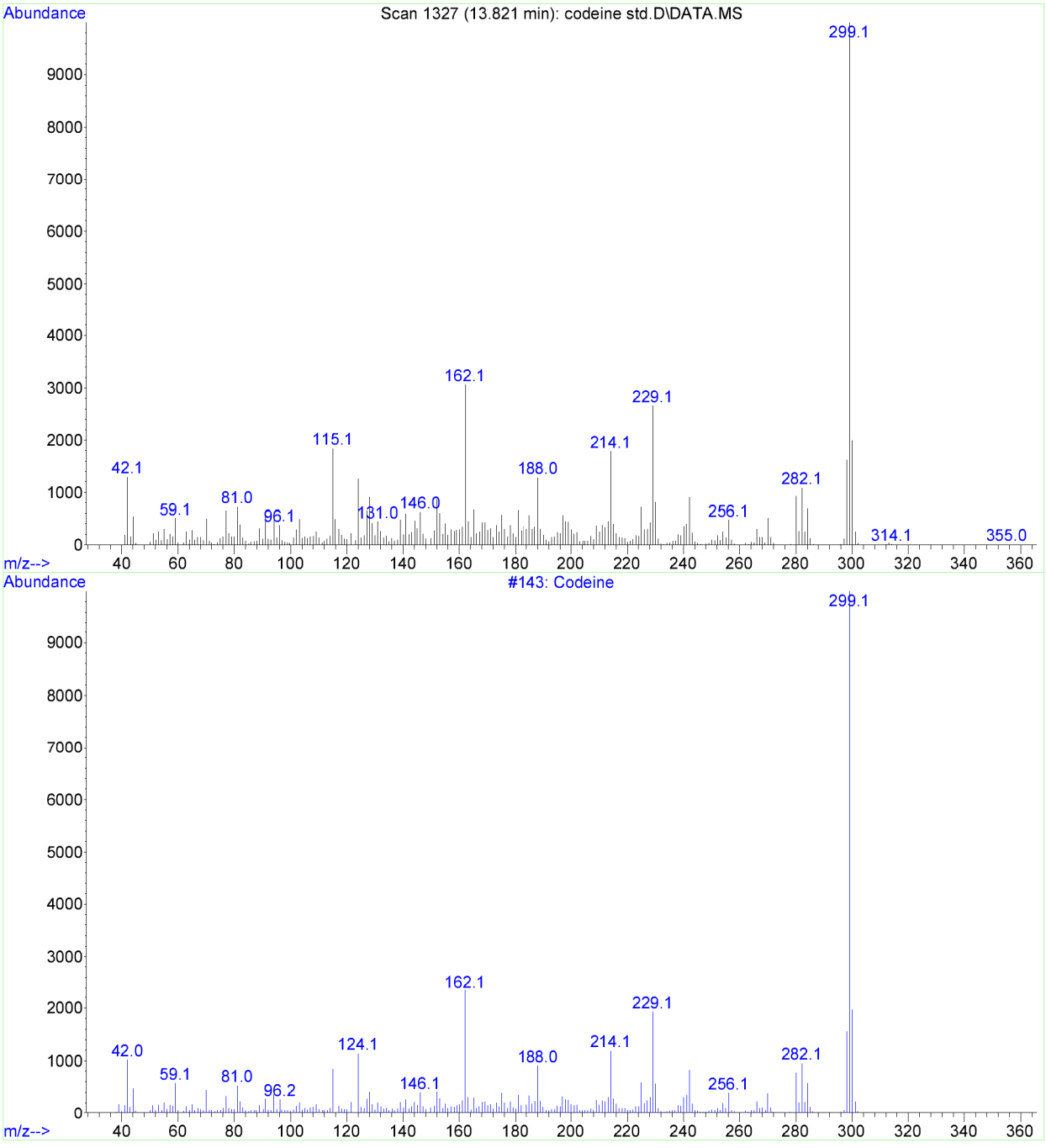
File :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
... Data\022425\006BL0149.D
Operator : DrugChem-HP\admin
Instrument : BCCL GCMS #3
Acquired : 24 Feb 2025 12:40 pm using AcqMethod DrugTest.M
Sample Name: BLANK (C-19-0068) - INSTRUMENT READY 000002666
Misc Info : 000002666



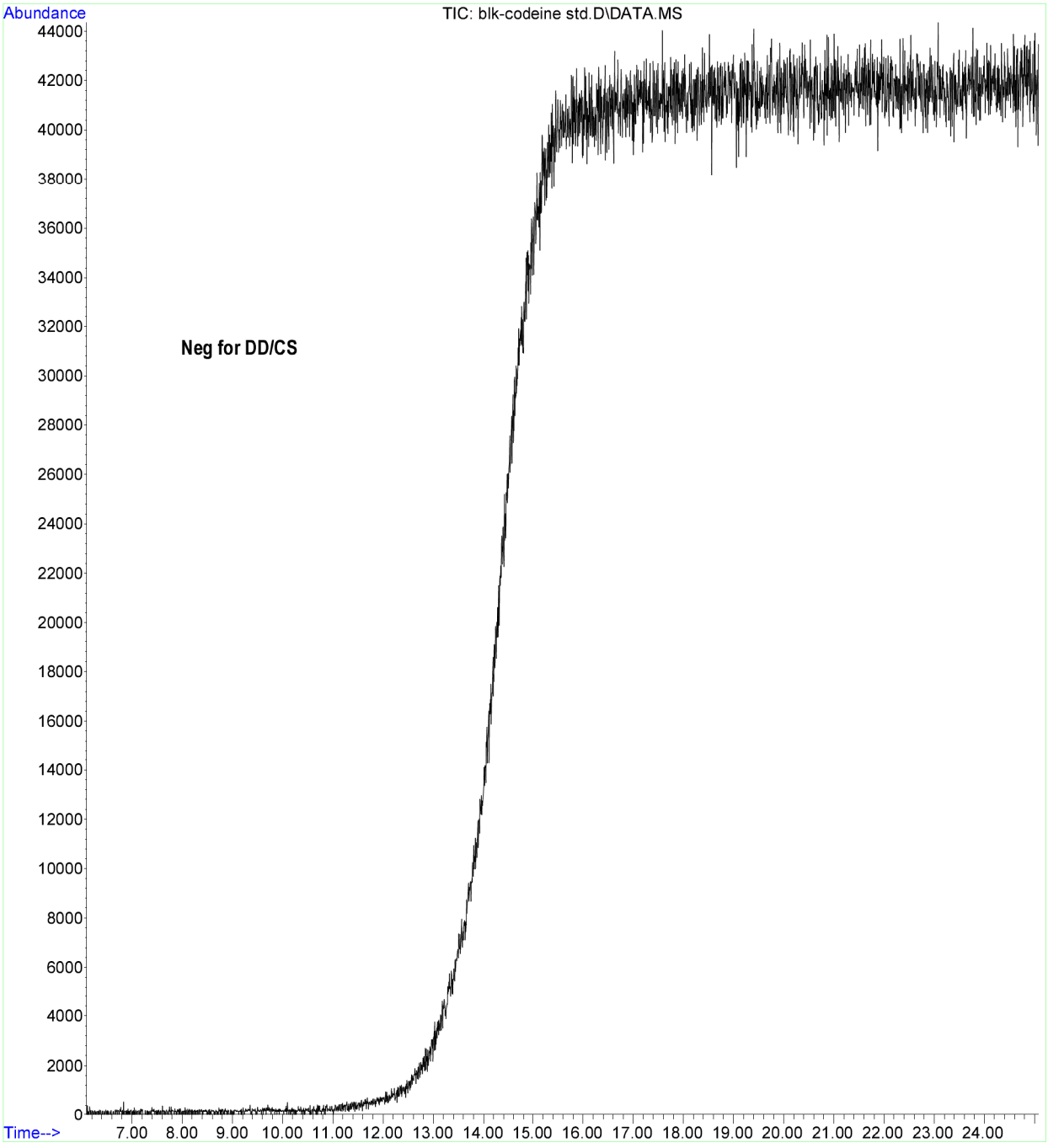
File :D:\MassHunter\GCMS\1\GCMS 3 data\2025 Data\022425\codeine st
... d.D
Operator : DrugChem-HP\admin
Instrument : BCCL GCMS #3
Acquired : 24 Feb 2025 06:34 pm using AcqMethod DrugTest.M
Sample Name: Codeine std (R-23-022) 000005945
Misc Info : RT determination 000005945



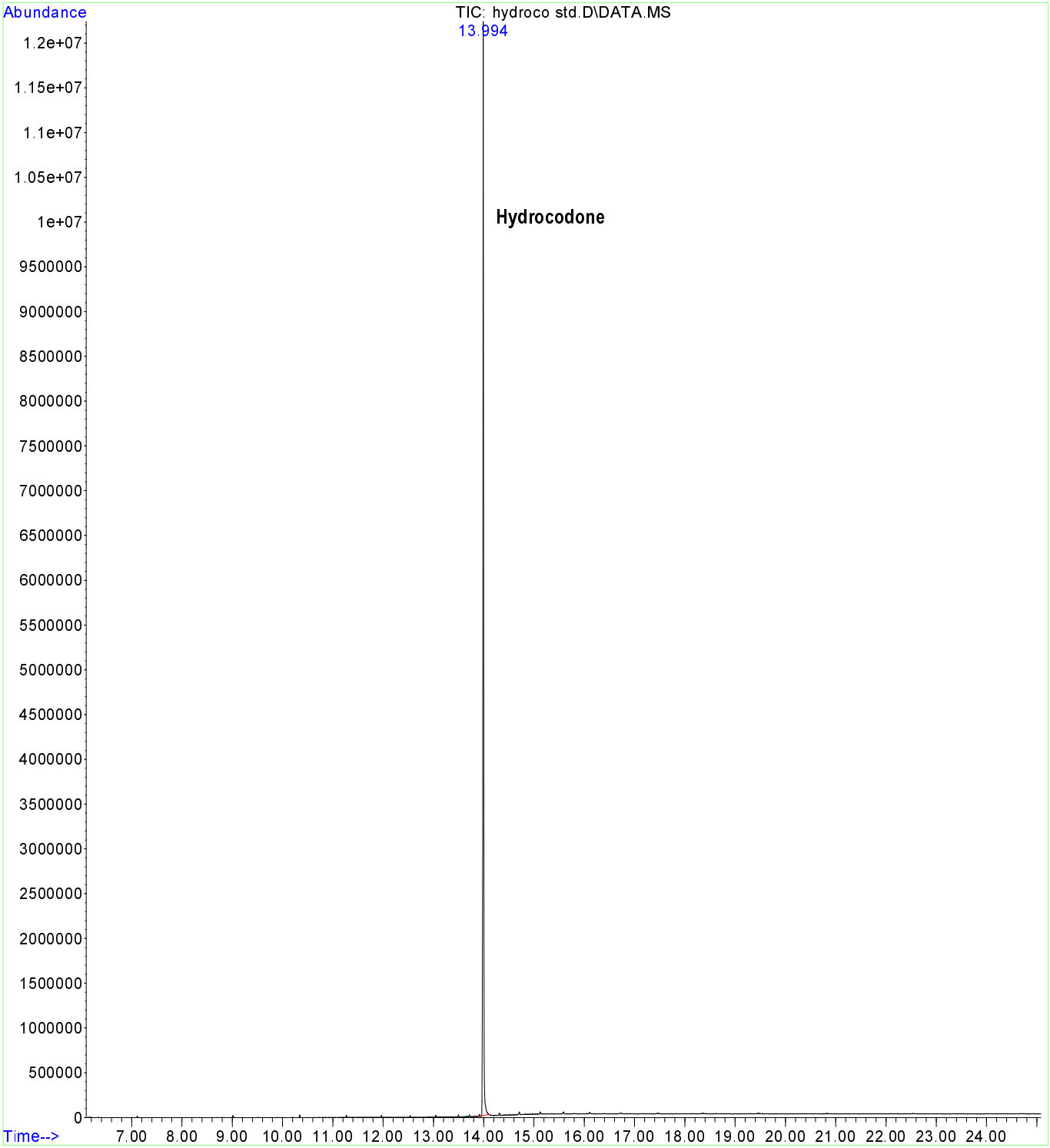
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File       :D:\MassHunter\GCMS\1\GCMS 3 data\2025 Data\022425\codeine st
...         d.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL GCMS #3
Acquired   : 24 Feb 2025  06:34 pm using AcqMethod DrugTest.M
Sample Name: Codeine std (R-23-022)                          000005945
Misc Info  : RT determination                                000005945
```



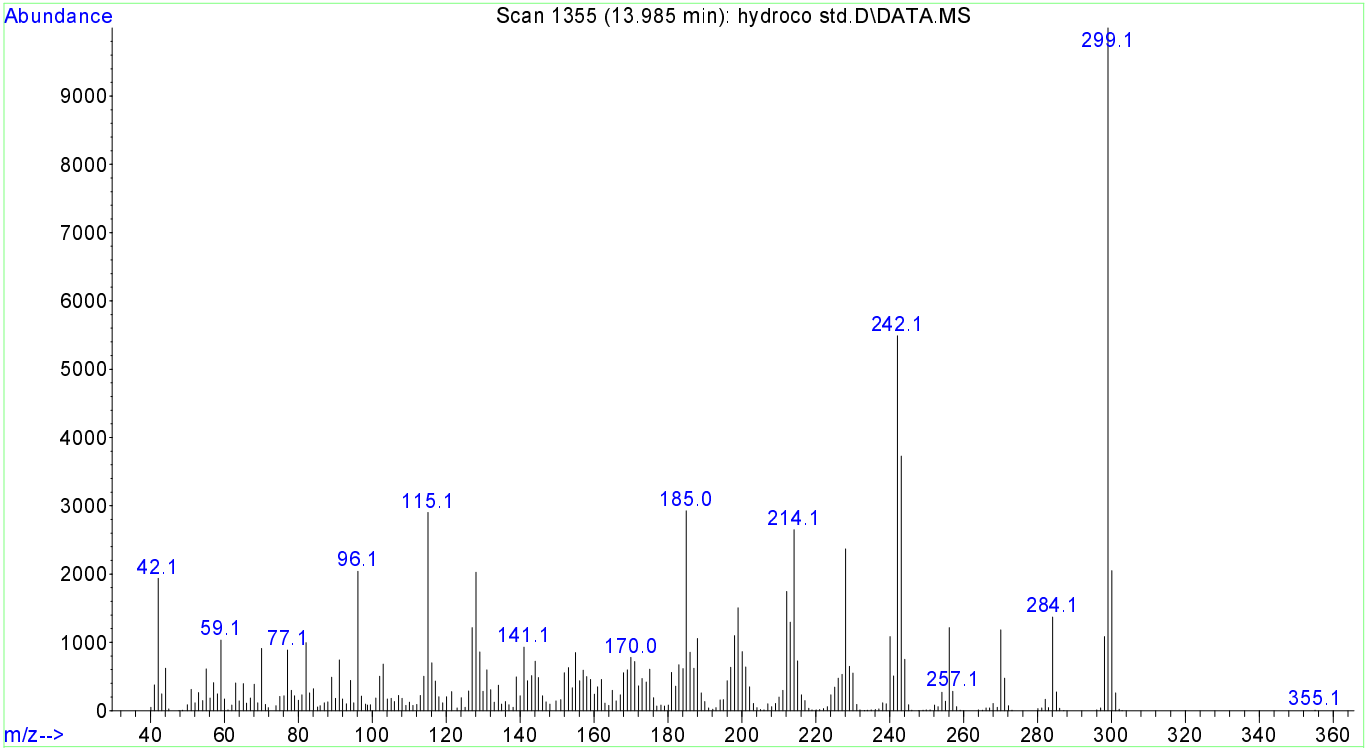
File :D:\MassHunter\GCMS\1\GCMS 3 data\2025 Data\022425\blk-codein
... e std.D
Operator : DrugChem-HP\admin
Instrument : BCCL GCMS #3
Acquired : 24 Feb 2025 06:05 pm using AcqMethod DrugTest.M
Sample Name: blank prior to Codeine std (R-23-022) 000002397
Misc Info : DCM (C-22-0015B) + MeOH (C-20-0050B)/base ext w/ R-24-059 000002397

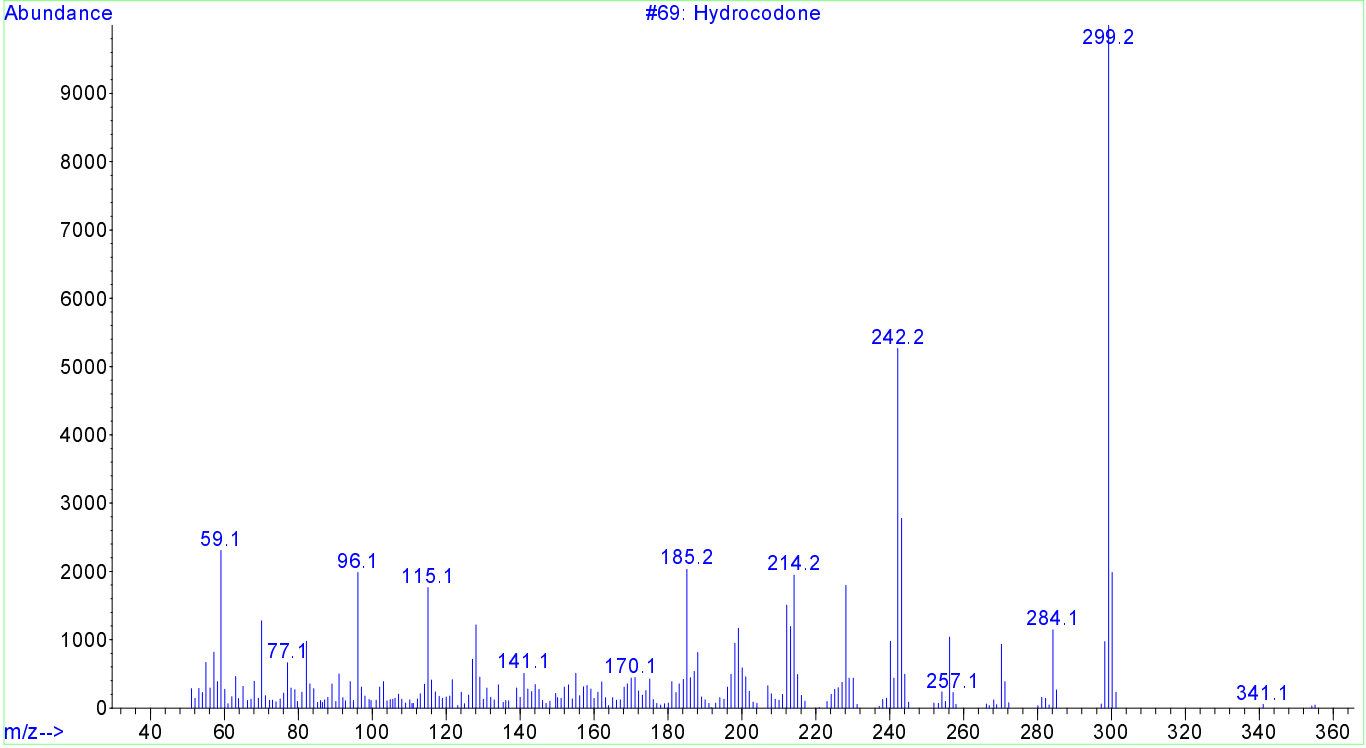


```
File       :D:\MassHunter\GCMS\1\GCMS 3 data\2025 Data\022425\hydroco st
...         d.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL GCMS #3
Acquired   : 24 Feb 2025  07:31 pm using AcqMethod DrugTest.M
Sample Name: Hydrocodone std (R-23-023)                      000005941
Misc Info  : RT determination                                000005941
```



```
File       :D:\MassHunter\GCMS\1\GCMS 3 data\2025 Data\022425\hydroco st
...         d.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL GCMS #3
Acquired   : 24 Feb 2025  07:31 pm using AcqMethod DrugTest.M
Sample Name: Hydrocodone std (R-23-023)                          000005941
Misc Info  : RT determination                                    000005941
```





File :D:\MassHunter\GCMS\1\GCMS 3 data\2025 Data\022425\blk-hydroc
... o std.D
Operator : DrugChem-HP\admin
Instrument : BCCL GCMS #3
Acquired : 24 Feb 2025 07:02 pm using AcqMethod DrugTest.M
Sample Name: blank prior to Hydrocodone std (R-23-023) 000002397
Misc Info : DCM (C-22-0015B) + MeOH (C-20-0050B)/base ext w/ R-24-059 000002397

