Brazoria County Crime Lab

Seized Drugs Section

GC-MS Maintenance Log

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

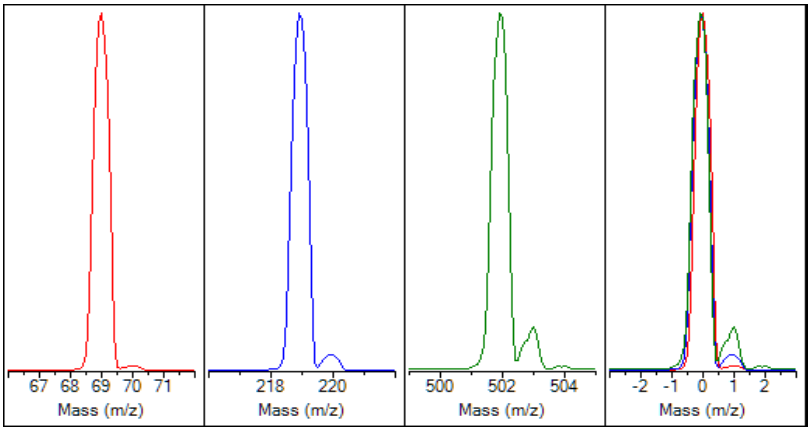
Entry Number	Date	He Tank Pressure	Autotune	Septum Change	Wash Vials Filled	Liner Change	Gold Seal Replaced	Column Cut	Computer Restarted	Maintenance/ PM	Analyst/ Technician	Comments	Initials
1	4/1/2025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	Maintenance	Analyst	Configuration was reset due to Data Analysis being locked	DS
2	4/7/2025	800	Pass	N/A	✓	N/A	N/A	N/A	N/A	Maintenance	Analyst		DS
3	4/14/2025	2250	Pass	N/A	✓	N/A	N/A	N/A	✓	Maintenance	Analyst	He tank change on 04/11/2025, comp restart due to instrument not communicating w/ comp	DS
4	4/22/2025	1100	Pass	N/A	✓	N/A	N/A	N/A	✓	Maintenance	Analyst	Computer restart due to building power failure	DS

Signature: Derek Sanders **Date:** 09 June 2025

Autotune - 5977

4/7/2025 9:22:59 AM (UTC-5:00) BCCL SD GCMS 3

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



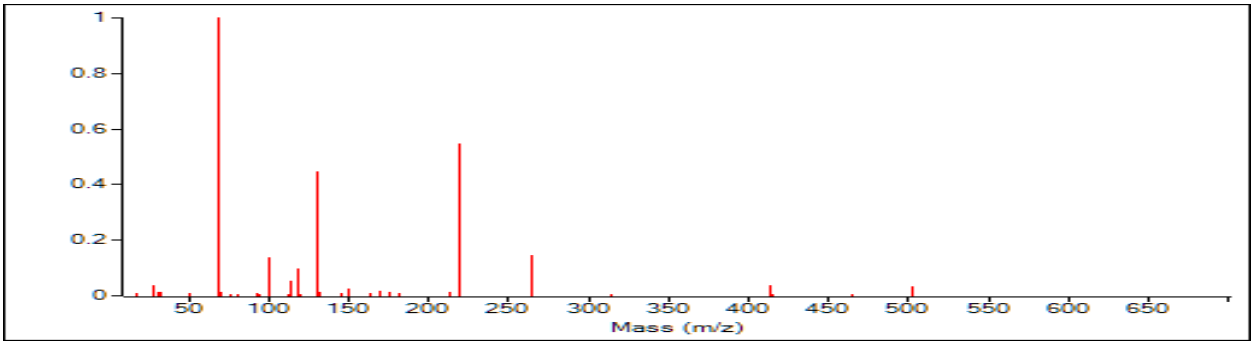
Ion Polarity	Pos	Mass Gain	-365
Emission	34.6	Mass Offset	-35
Electron Energy	70.0	Amu Gain	1674
Filament	2	Amu Offset	120.44
Repeller	34.90	Width219	-0.012
Ion Focus	78.5	DC Polarity	Pos
Entrance Lens	12.6	HED Enable	On
Ent Lens Offset	12.69	EM Volts	1817.6
Ion Body	0.00	Extractor Lens	0.00
		Scan Speed	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	382,065	100.0%	0.60
218.90	208,784	54.6%	0.61
501.90	12,286	3.2%	0.60

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	86	69.00	367,040	1,022,817



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	367,040	100.00	70.00	4,077	1.11
218.90	199,744	54.42	219.90	8,986	4.50
502.00	12,072	3.29	502.90	1,116	9.24

Air/Water Check: H20 ~0.8% N2 ~3.8% O2 ~1.2% CO2 ~0.1% N2/H20 ~491.6%

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 56230.293

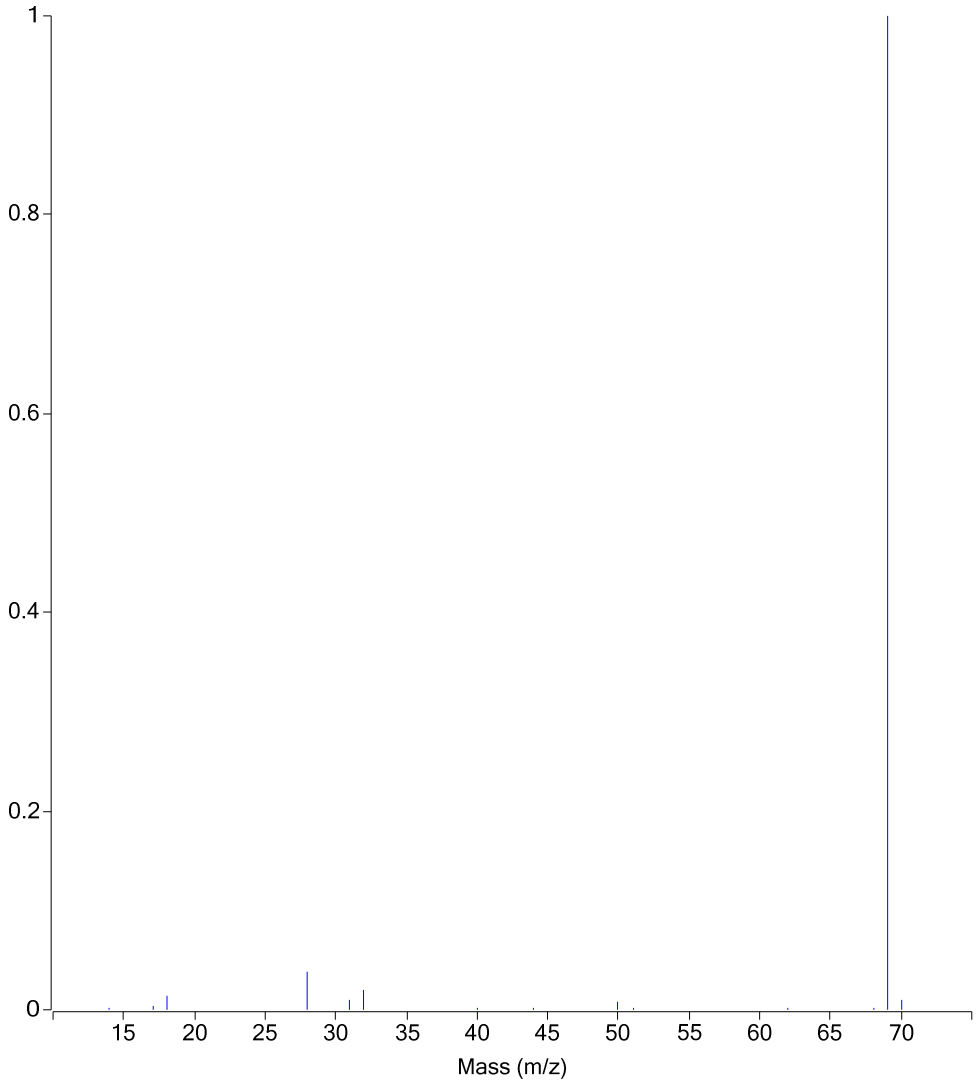
Repeller maximum 35 volts using ion 219; Gain Factor 0.5623

Mass Gain Values(Scan Speed): -365(3) -368(2) -371(1) -368(0) -367(FS1) -367(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	120.4	120.4	120.4	120.4	120.4	120.4	120.4
Entrance Lens Offset	12.7	12.7	12.7	12.7	12.7	12.7	12.7

597x Air and Water Check

Instrument: BCCL SD GCMS 3
Mon Apr 07 09:18:11 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: atune.u

Relative abundances:

18/69 =	1.33	Water%	(counts=10728)
28/69 =	3.78	Nitrogen%	(counts=30344)
32/69 =	1.96	Oxygen%	(counts=15743)
44/69 =	0.21	Carbon Dioxide%	(counts=1675)
28/18 =	282.85	Nitrogen/Water%	

Instrument Name : BCCL SD GCMS 3
DC Polarity : Positive
Filament 2

BasePeak should be 69 or 219		OK
Position of mass 69	69.00	OK
Position of mass 219	218.95	OK
Position of mass 502	501.98	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	219.94	OK
Position of isotope mass 503	502.94	OK
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.10	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.32	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.26	OK
Ratio of 219 to 69 should be > 40% and is	53.98	OK
Ratio of 502 to 69 should be > 2.4% and is	3.22	OK
Mass 69 Precursor (<= 3%)	0.11	OK
Mass 219 Precursor (<= 6%)	0.27	OK
Mass 502 Precursor (<= 12%)	1.26	OK

597x Air and Water Check
Mon Apr 07 09:26:53 2025 Instrument: BCCL SD GCMS 3
D:\MASSHUNTER\GCMS\1\5977\atune.u US1329M205

Testing for a leak in the system

Ratio of 18 to 69 (<20%)	0.72	OK
Ratio of 28 to 69 (<10%)	3.45	OK
Electron Multiplier Voltage	1818	OK

Tune portion of System Verification passed.

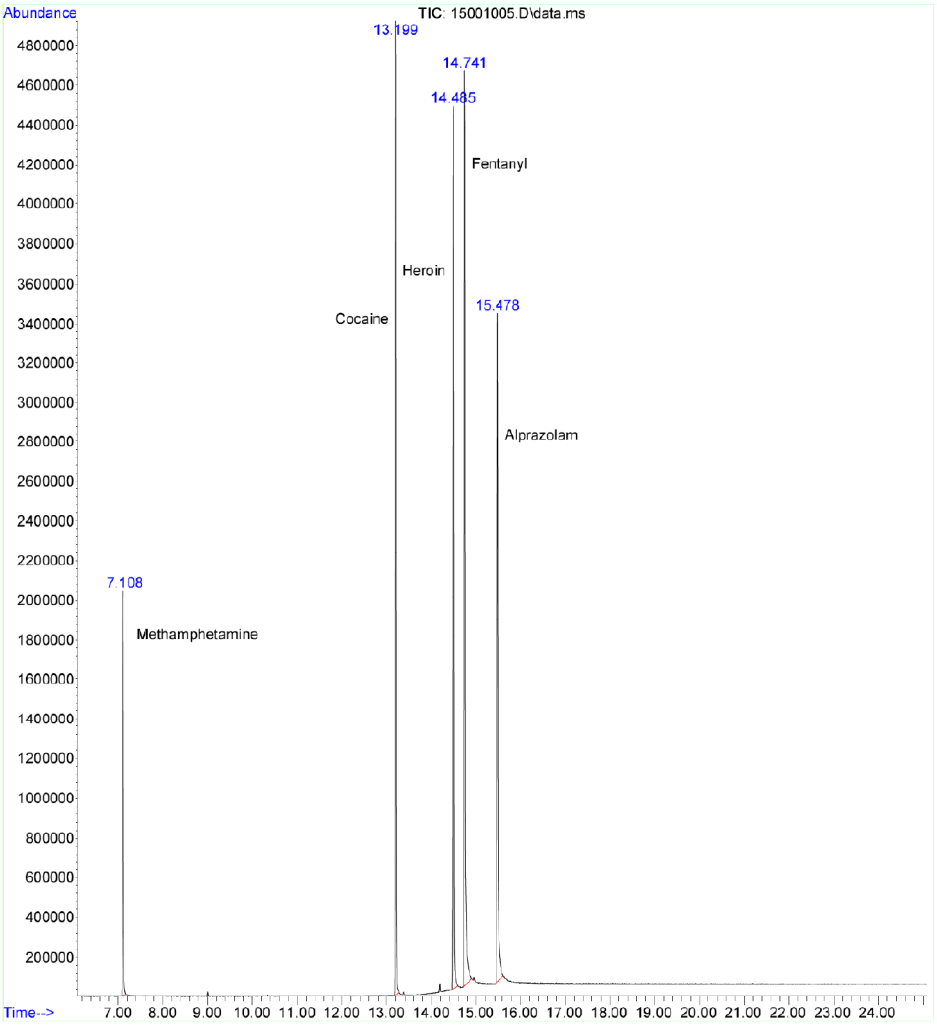
BCCL GC/MS #3
Retention Times for the Week of:

04/07/2025 - 04/13/2025

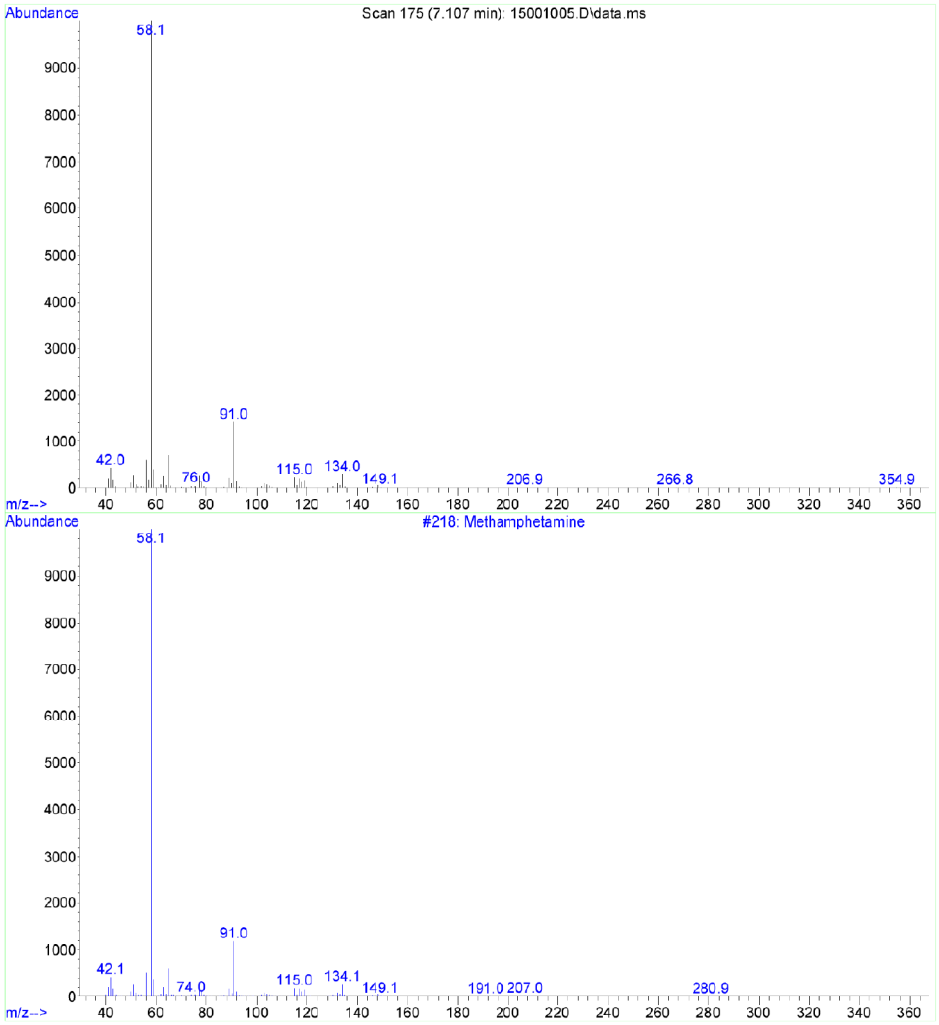
[x] **Tune: DS 04/07/2025 - Autotune**

Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35	7.108	7.036	7.179
Cocaine	R-24-060	DrugTest35	13.199	13.067	13.330
Heroin	R-24-060	DrugTest35	14.485	14.340	14.629
Fentanyl	R-24-060	DrugTest35	14.741	14.593	14.888
Alprazolam	R-24-060	DrugTest35	15.478	15.323	15.632
Carisoprodol	R-24-018	DrugTest35	11.952	11.832	12.071
Tramadol	R-24-014	DrugTest35	12.349	12.225	12.472

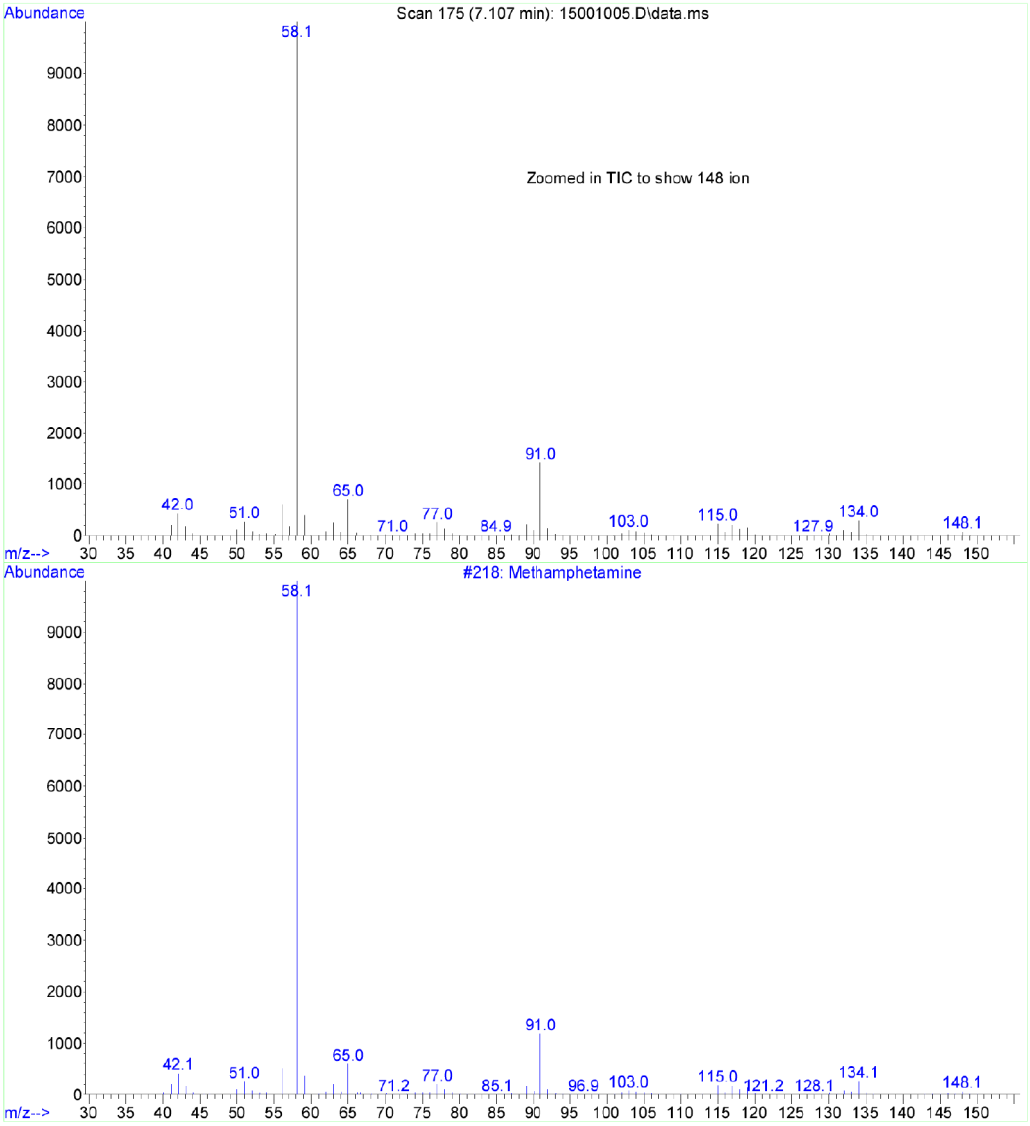
```
File        :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...           Data\040725\15001005.D
Operator    : DrugChem-HP\admin
Instrument  :   BCCL SD GCMS 3
Acquired    : 07 Apr 2025  10:49     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                    000002667
Misc Info   :                                                 000002667
```



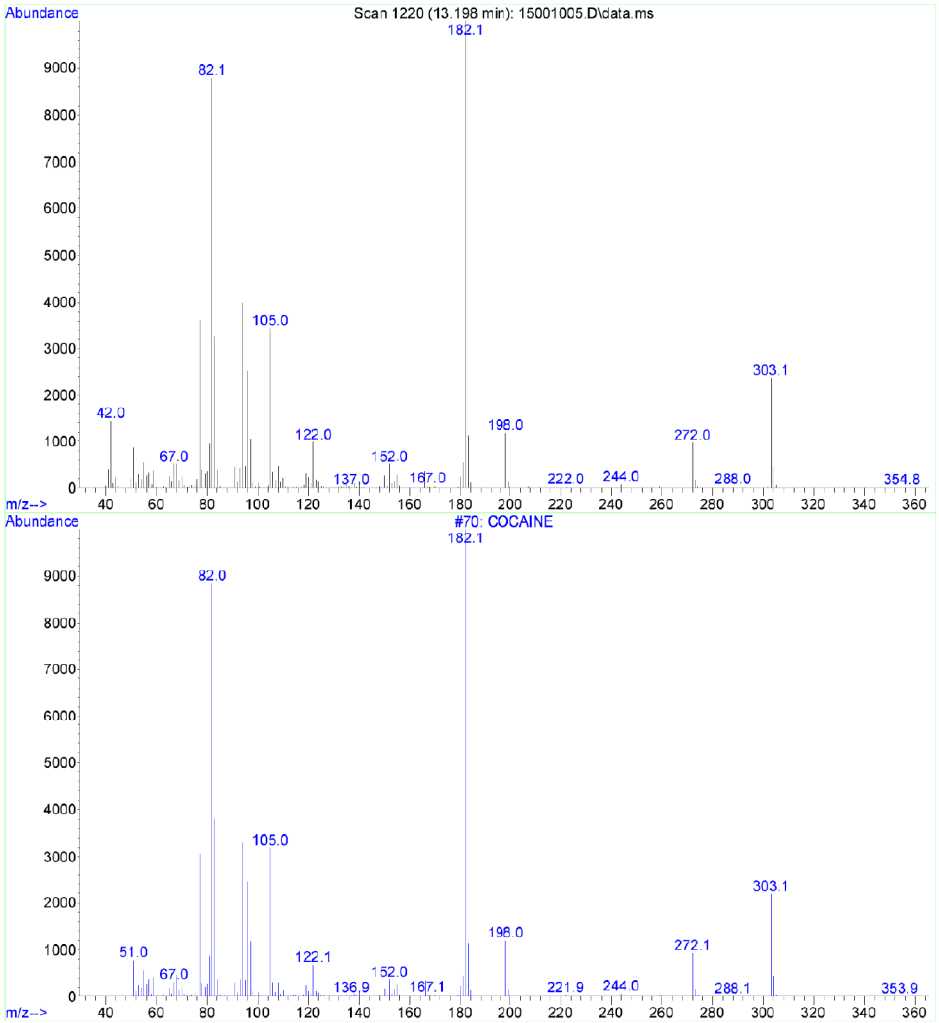
```
File        :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...           Data\040725\15001005.D
Operator    : DrugChem-HP\admin
Instrument  :   BCCL SD GCMS 3
Acquired    : 07 Apr 2025  10:49     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                    000002667
Misc Info   :                                                 000002667
```



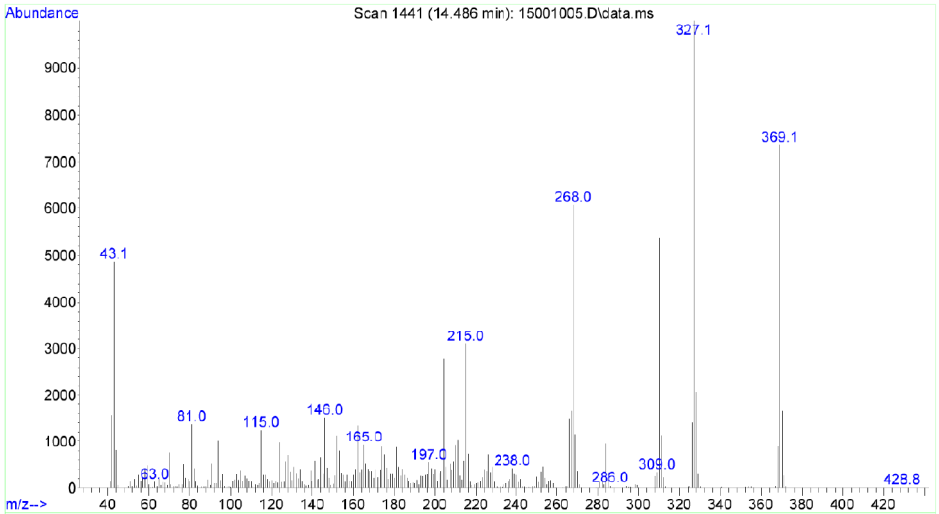
```
File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\040725\15001005.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 07 Apr 2025  10:49     using AcqMethod Drugrest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
```



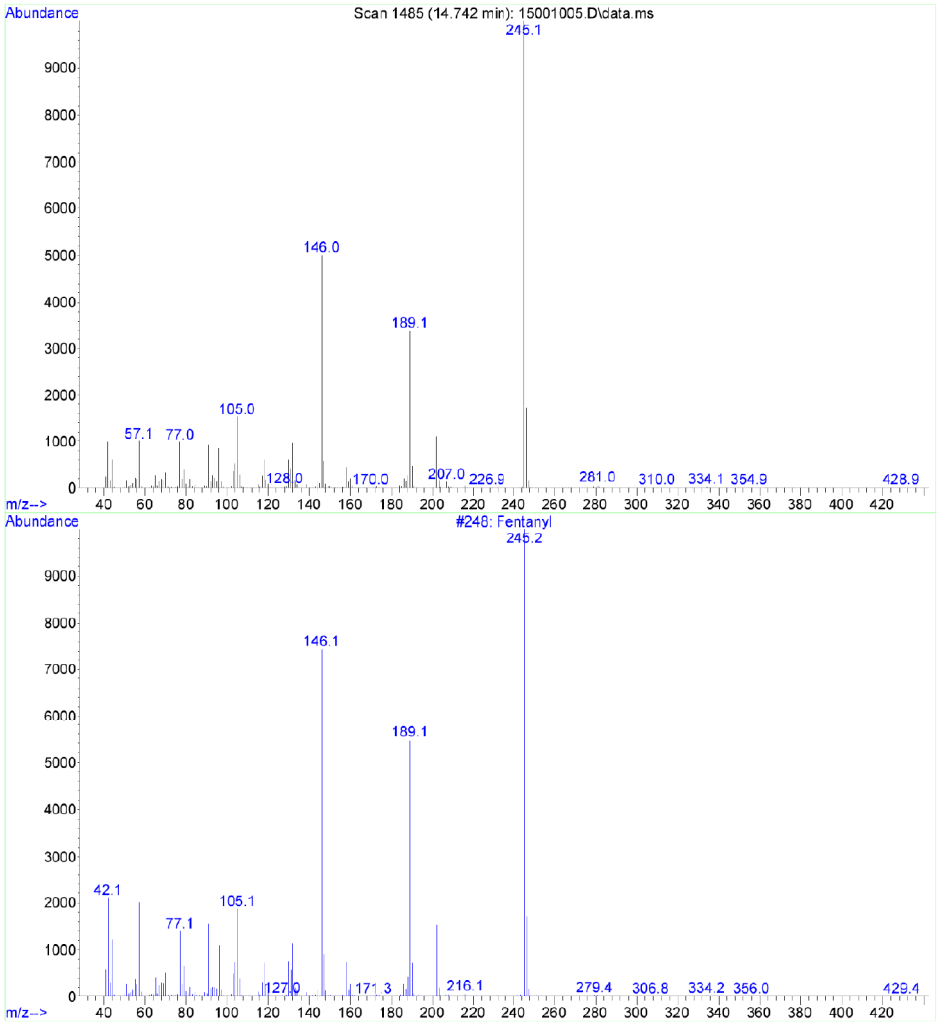
```
File        :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...           Data\040725\15001005.D
Operator    : DrugChem-HP\admin
Instrument  :   BCCL SD GCMS 3
Acquired    : 07 Apr 2025  10:49     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                    000002667
Misc Info   :                                                 000002667
```



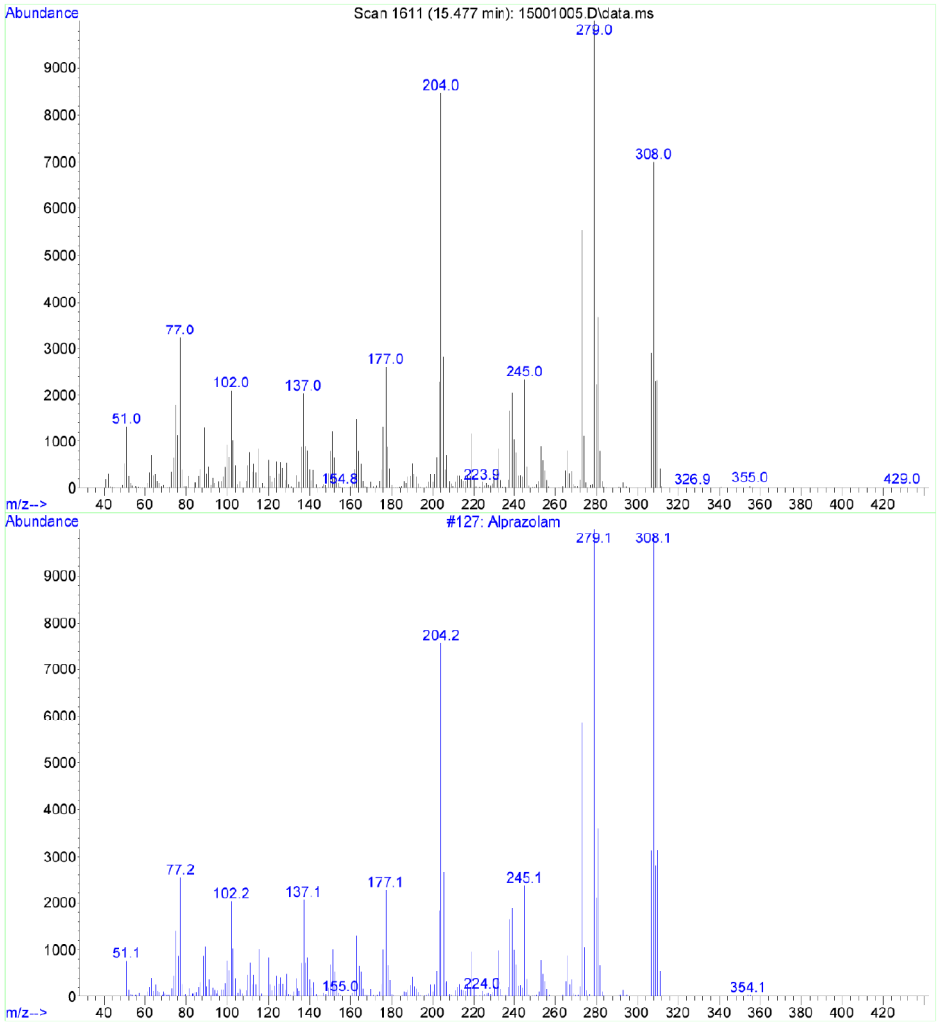
```
File        :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...           Data\040725\15001005.D
Operator    : DrugChem-HP\admin
Instrument  :   BCCL SD GCMS 3
Acquired    : 07 Apr 2025  10:49     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                    000002667
Misc Info   :                                                 000002667
```



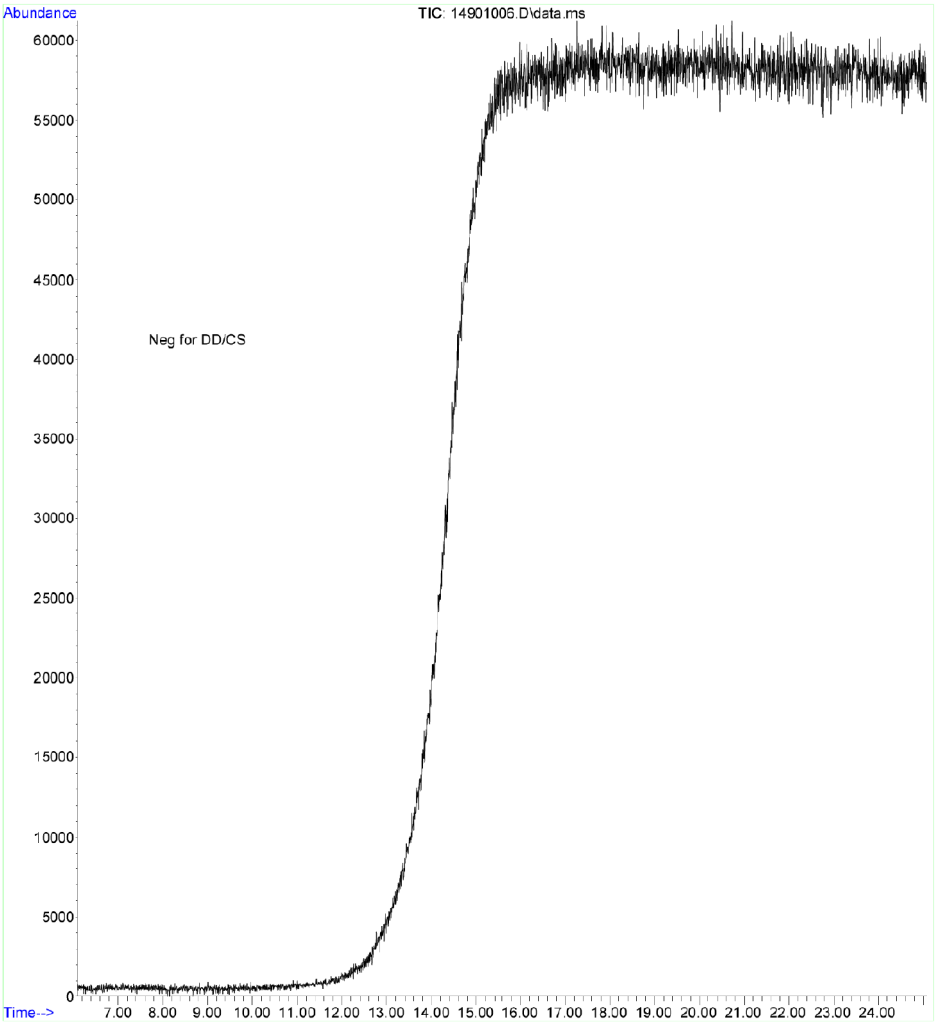
```
File        :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...           Data\040725\15001005.D
Operator    : DrugChem-HP\admin
Instrument  :   BCCL SD GCMS 3
Acquired    : 07 Apr 2025  10:49     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                    000002667
Misc Info   :                                                 000002667
```



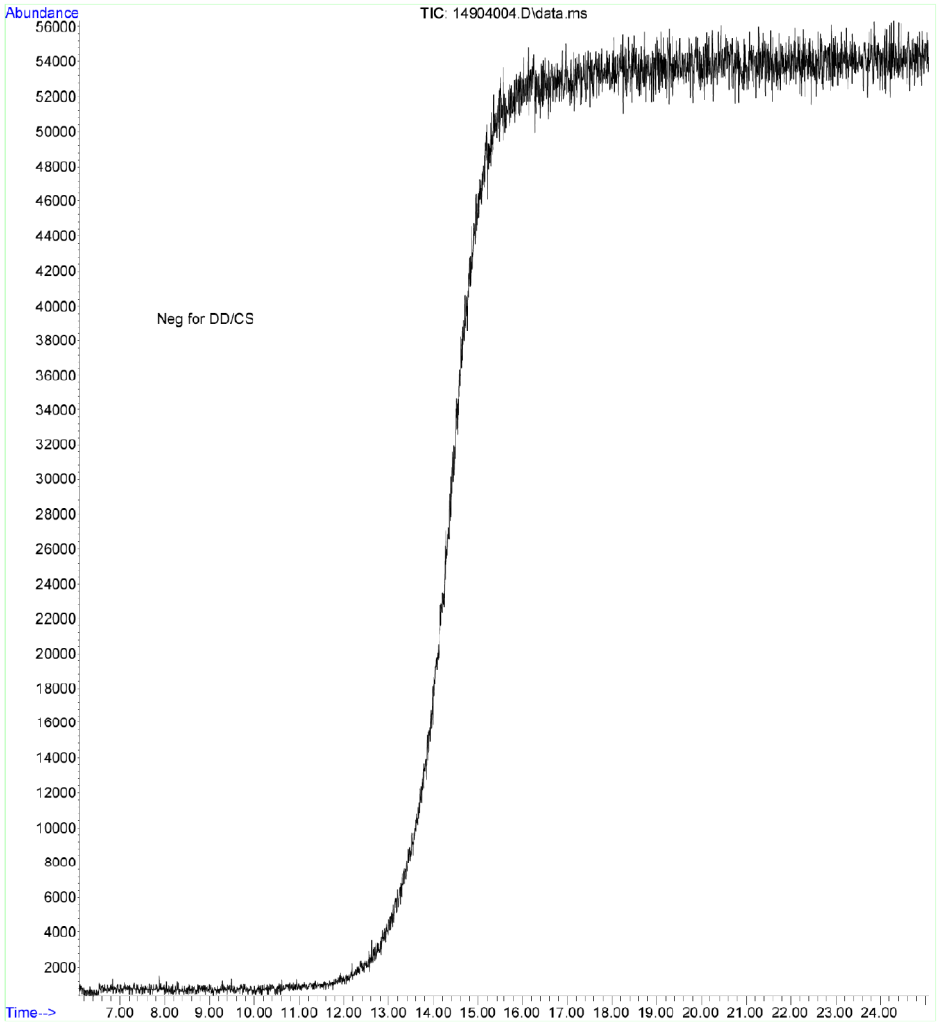
```
File        :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...           Data\040725\15001005.D
Operator    : DrugChem-HP\admin
Instrument  :   BCCL SD GCMS 3
Acquired    : 07 Apr 2025  10:49     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                    000002667
Misc Info   :                                                 000002667
```



```
File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\040725\14901006.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 07 Apr 2025  11:18     using AcqMethod DrugTest35.M
Sample Name: BLANK (C-19-0068) - INSTRUMENT READY              000002666
Misc Info  :                                                   000002666
```



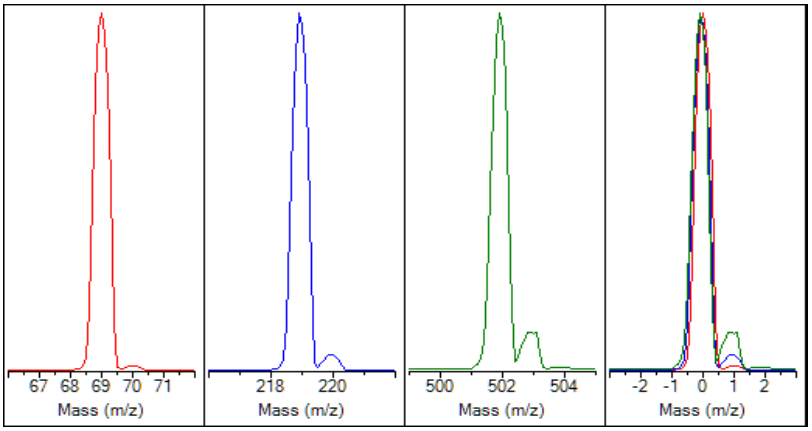
```
File        :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...           Data\040725\14904004.D
Operator    : DrugChem-HP\admin
Instrument  :   BCCL SD GCMS 3
Acquired    : 07 Apr 2025  10:21     using AcqMethod DrugTest35.M
Sample Name: BLANK (C-19-0068) PRIOR TO CAYMAN GC/MS MIX 3 (R-24-060)  000002666
Misc Info   :                                                  000002666
```



Autotune - 5977

4/14/2025 11:16:54 AM (UTC-5:00) BCCL SD GCMS 3

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



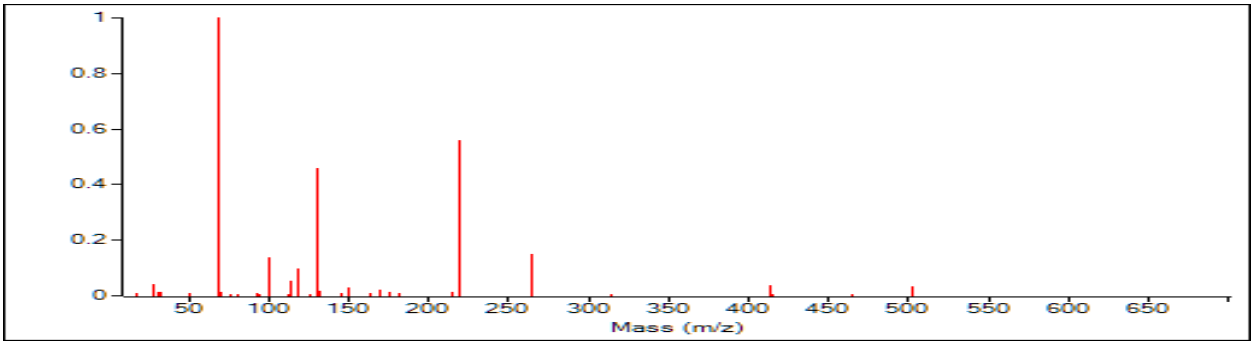
Ion Polarity	Pos	Mass Gain	-368
Emission	34.6	Mass Offset	-34
Electron Energy	70.0	Amu Gain	1675
Filament	2	Amu Offset	120.50
Repeller	34.90	Width219	-0.014
Ion Focus	80.5	DC Polarity	Pos
Entrance Lens	12.6	HED Enable	On
Ent Lens Offset	12.69	EM Volts	1817.6
Ion Body	0.00	Extractor Lens	0.00
		Scan Speed	3
		Averages	3
PFTBA	Open	Step Size	0.10

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	8.76e-06

Mass	Abund	Rel Abund	Pw50
69.00	431,442	100.0%	0.60
218.90	242,120	56.1%	0.60
501.90	14,377	3.3%	0.59

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	88	69.00	409,664	1,160,581



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	409,664	100.00	70.00	4,570	1.12
219.00	228,608	55.80	220.00	9,722	4.25
502.00	13,507	3.30	503.00	1,295	9.59

Air/Water Check: H20 ~0.8% N2 ~3.8% O2 ~1.0% CO2 ~0.1% N2/H20 ~451.9%

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 53269.335

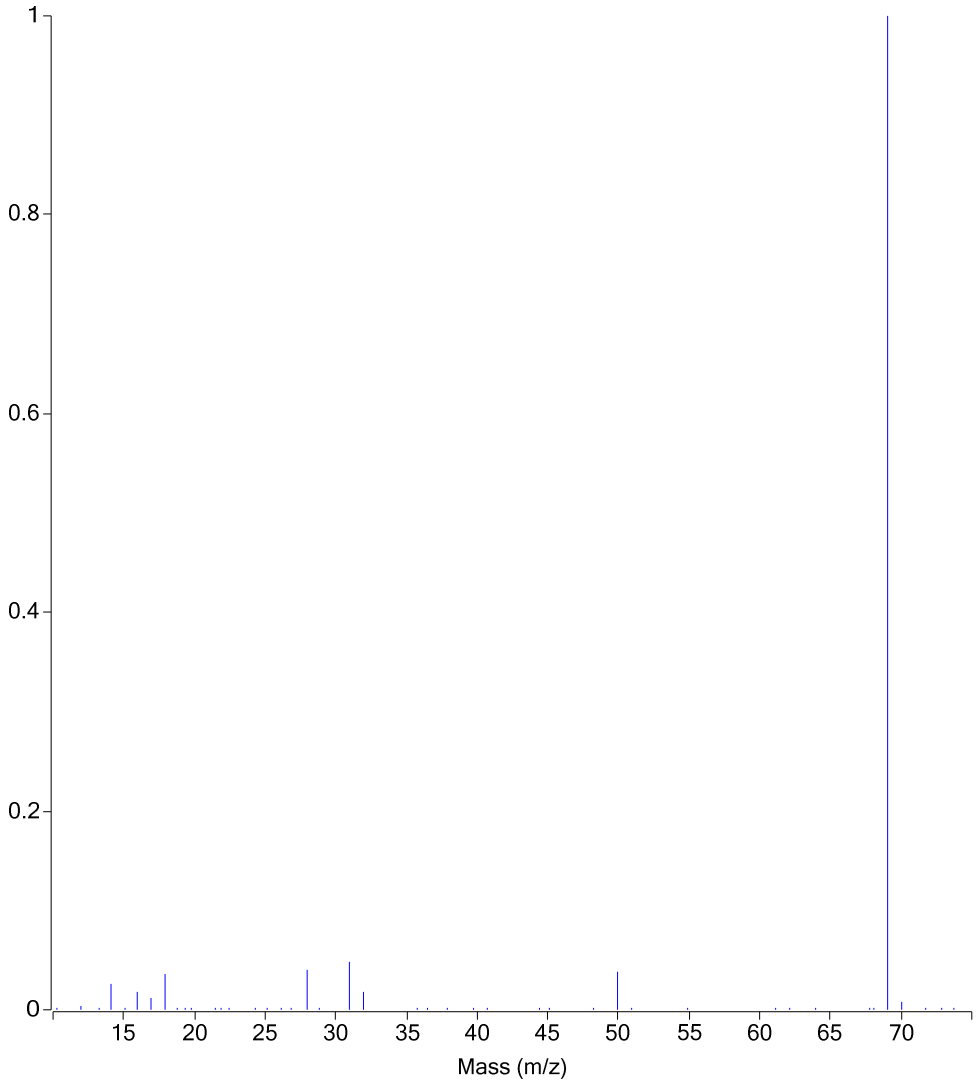
Repeller maximum 35 volts using ion 219; Gain Factor 0.5327

Mass Gain Values(Scan Speed): -357(3) -344(2) -328(1) -307(0) -255(FS1) -254(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	120.5	120.5	120.5	120.5	120.5	120.5	120.5
Entrance Lens Offset	12.7	12.7	12.7	12.7	12.7	12.7	12.7

597x Air and Water Check

Instrument: BCCL SD GCMS 3
Mon Apr 14 11:10:01 2025 D:\MASSHUNTER\GCMS\1\5977\



Current Params used: atune.u

Relative abundances:

18/69 =	3.58	Water%	(counts=241)
28/69 =	4.08	Nitrogen%	(counts=275)
32/69 =	1.80	Oxygen%	(counts=121)
44/69 =	0.30	Carbon Dioxide%	(counts=20)
28/18 =	114.11	Nitrogen/Water%	

Instrument Name : BCCL SD GCMS 3
DC Polarity : Positive
Filament 2

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	503.01	OK
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.09	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.35	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	55.37	OK
Ratio of 502 to 69 should be > 2.4% and is	3.30	OK
Mass 69 Precursor (<= 3%)	0.10	OK
Mass 219 Precursor (<= 6%)	0.28	OK
Mass 502 Precursor (<= 12%)	1.19	OK

597x Air and Water Check
Mon Apr 14 11:20:37 2025 Instrument: BCCL SD GCMS 3
D:\MASSHUNTER\GCMS\1\5977\atune.u US1329M205

Testing for a leak in the system

Ratio of 18 to 69 (<20%)	0.80	OK
Ratio of 28 to 69 (<10%)	2.62	OK
Electron Multiplier Voltage	1818	OK

Tune portion of System Verification passed.

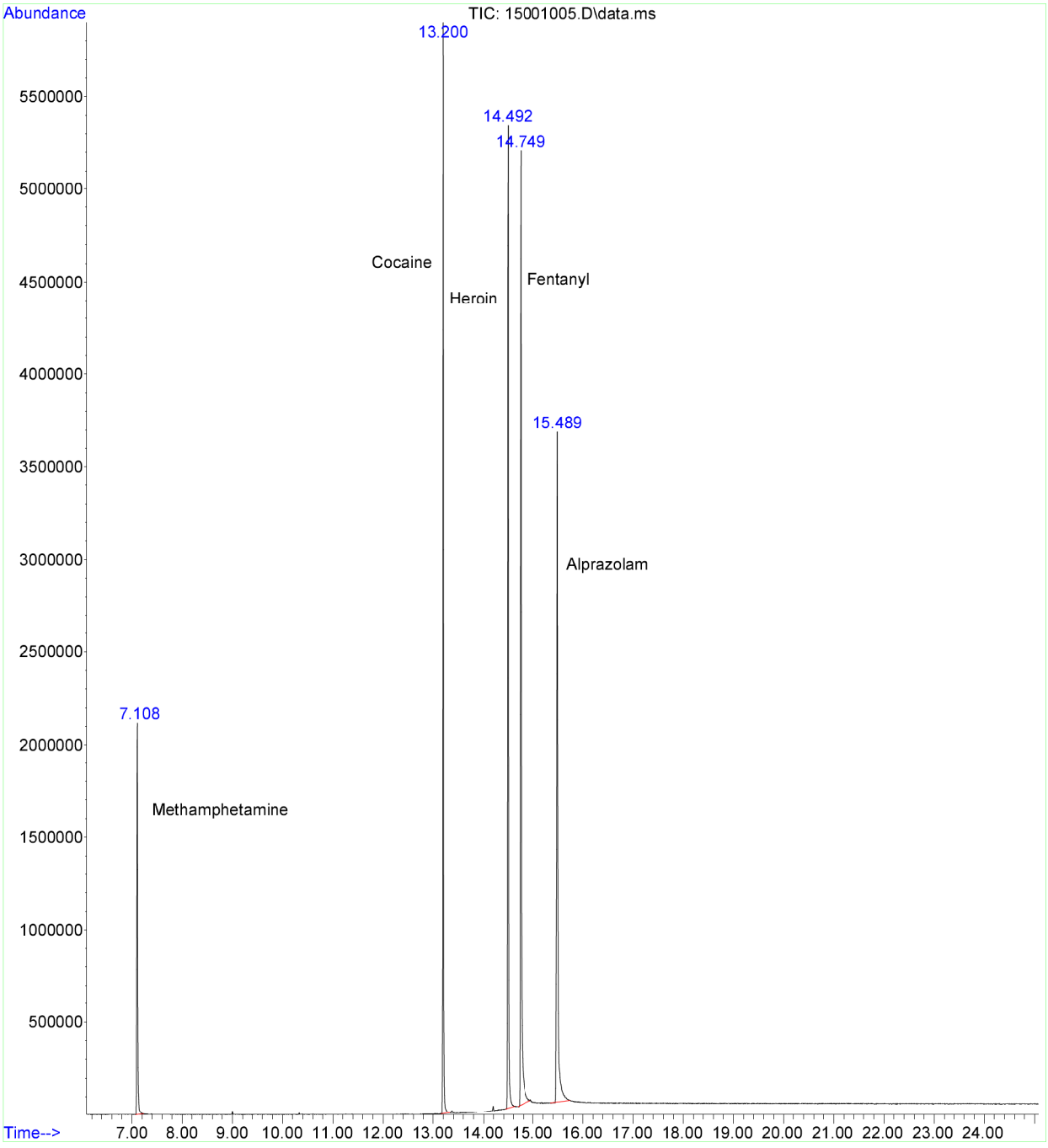
BCCL GC/MS #3
Retention Times for the Week of:

04/14/2025 - 04/20/2025

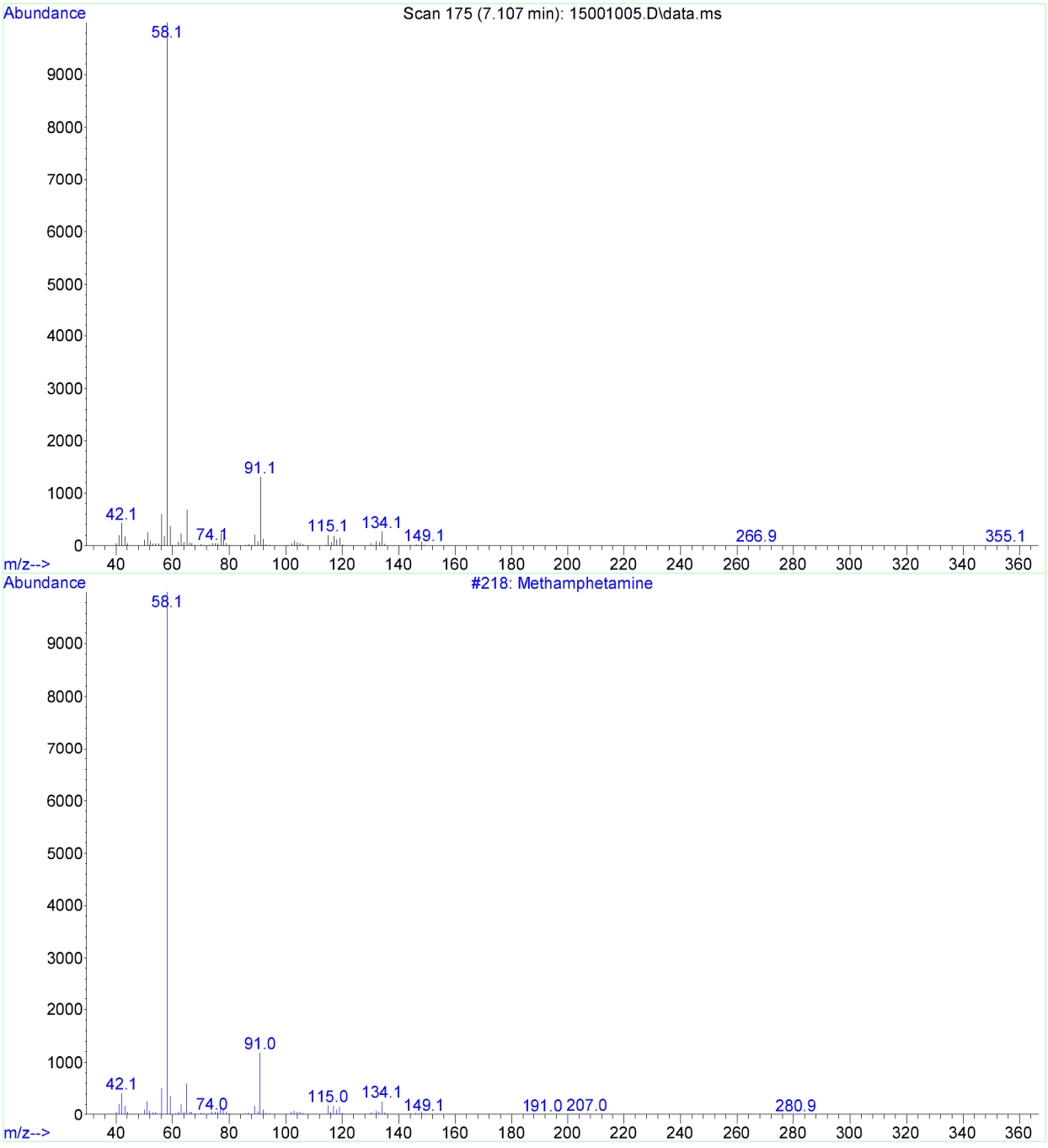
[X] **Tune: DS 04/14/2025 - Autotune**

Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35	7.108	7.036	7.179
Cocaine	R-24-060	DrugTest35	13.200	13.068	13.332
Heroin	R-24-060	DrugTest35	14.492	14.347	14.636
Fentanyl	R-24-060	DrugTest35	14.749	14.601	14.896
Alprazolam	R-24-060	DrugTest35	15.489	15.334	15.643
Psilocin	R-24-030	DrugTest35	12.448	12.323	12.572

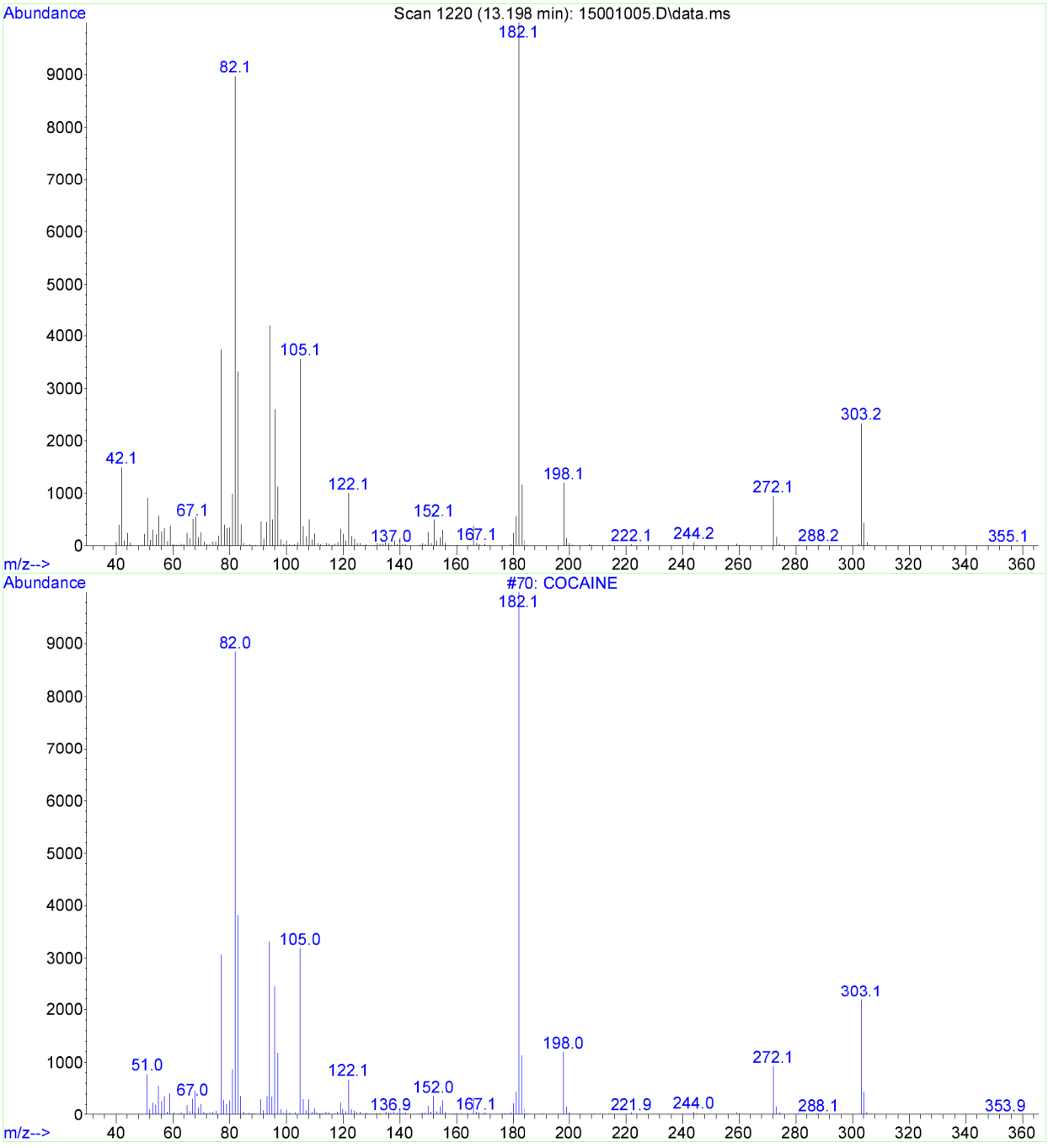
```
File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\041425\15001005.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 14 Apr 2025  12:54     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
```



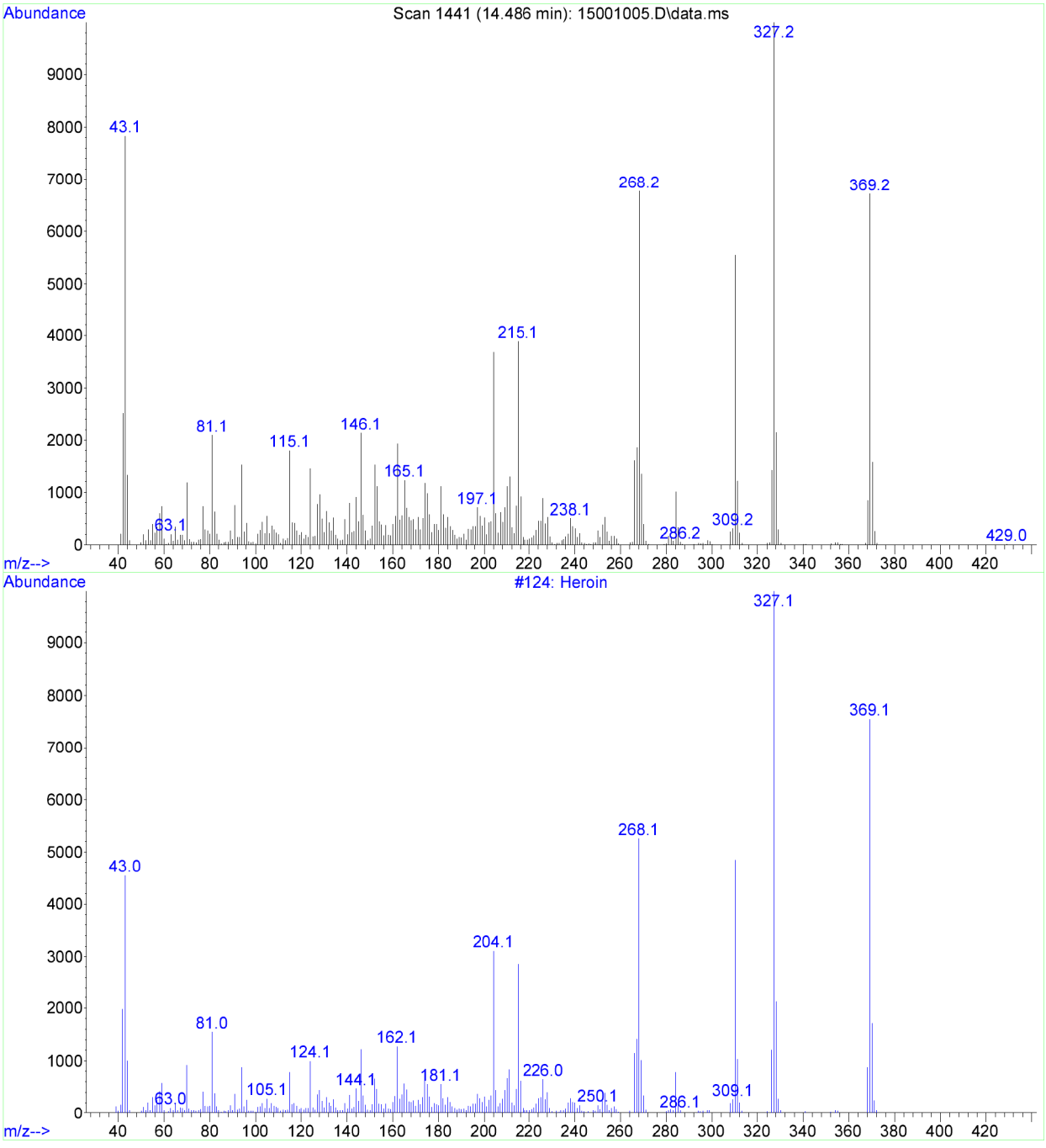
```
File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\041425\15001005.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 14 Apr 2025  12:54     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
```



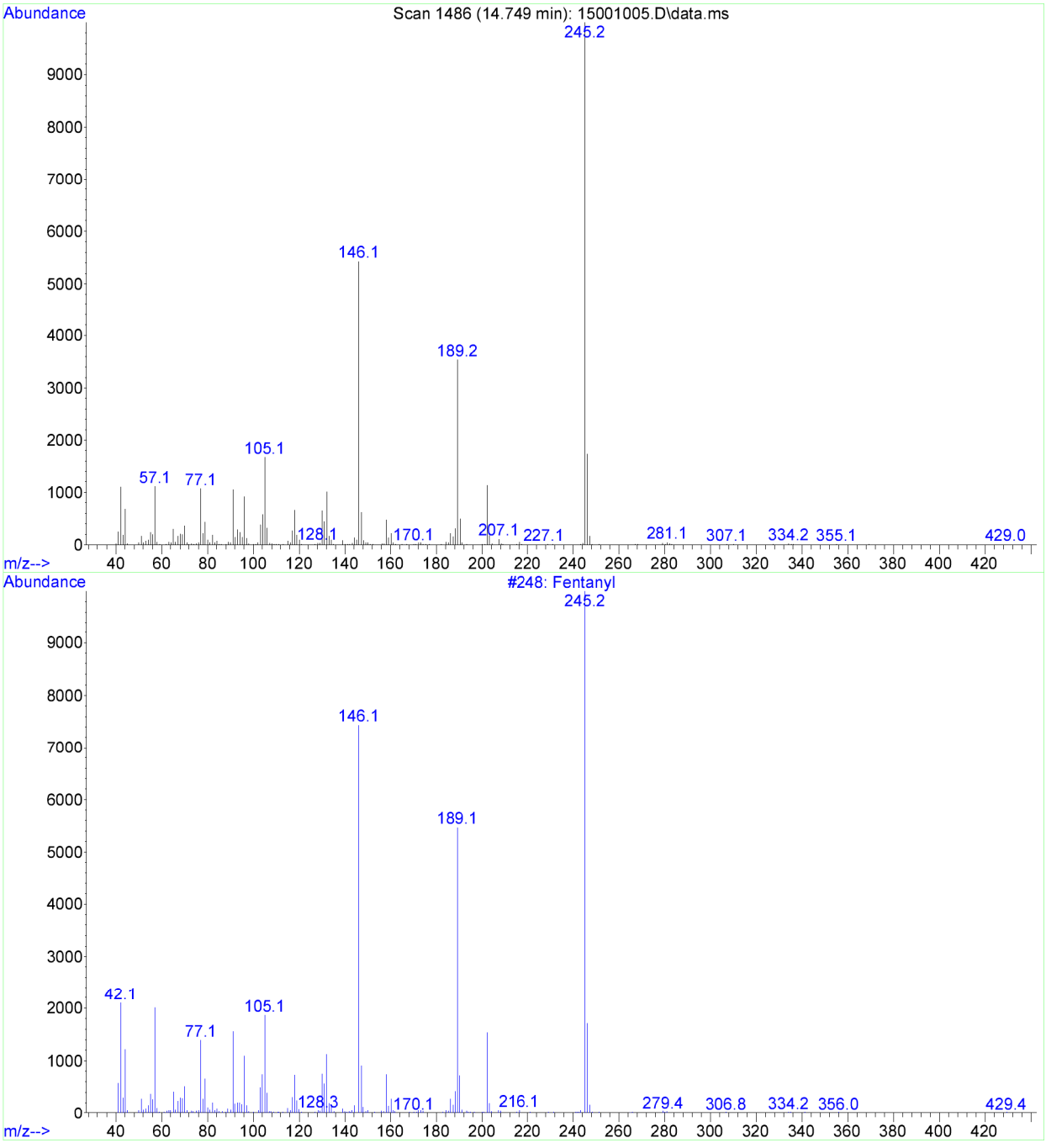
```
File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\041425\15001005.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 14 Apr 2025  12:54     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
```



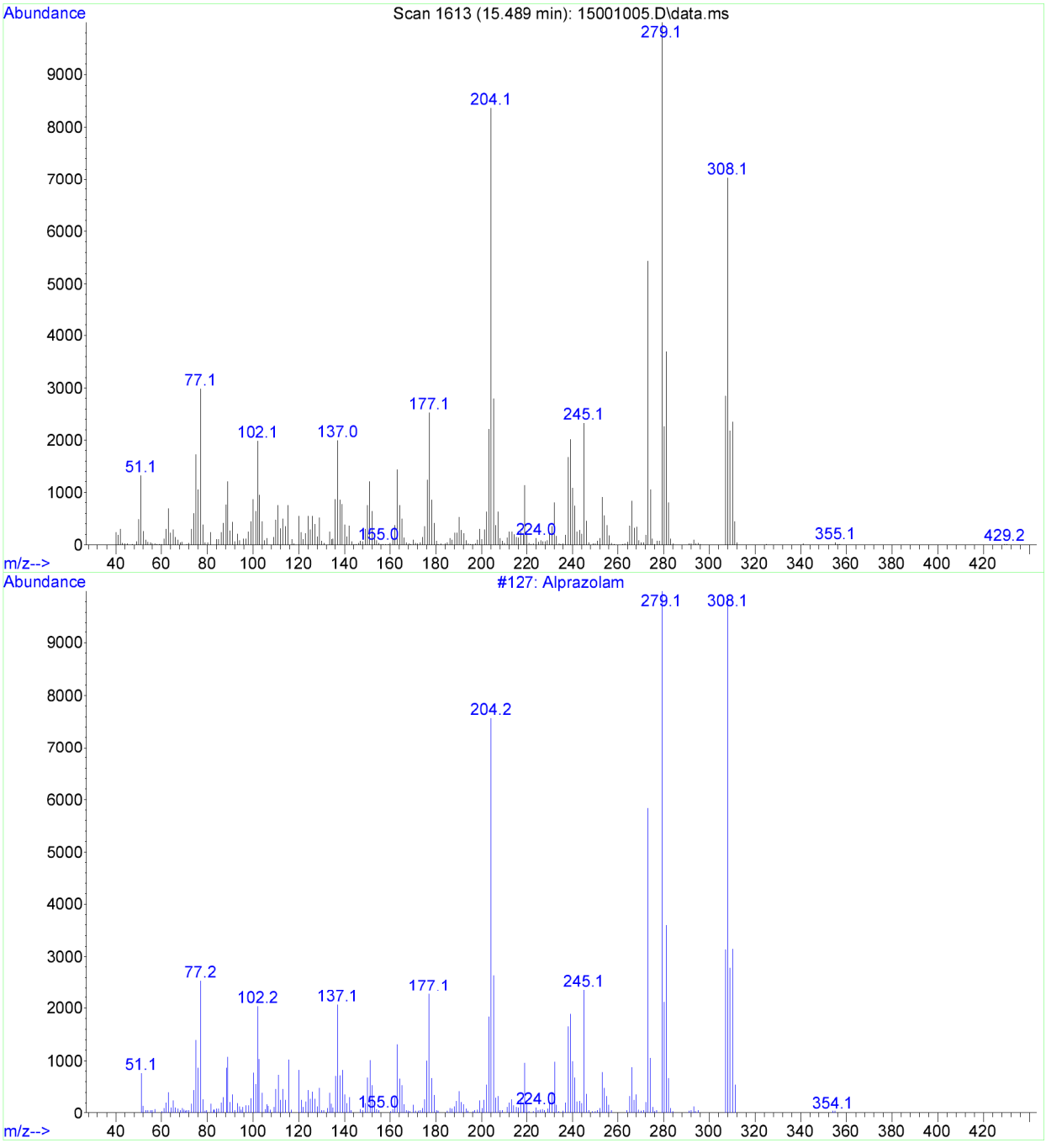
File :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
... Data\041425\15001005.D
Operator : DrugChem-HP\admin
Instrument : BCCL SD GCMS 3
Acquired : 14 Apr 2025 12:54 using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002667
Misc Info : 000002667



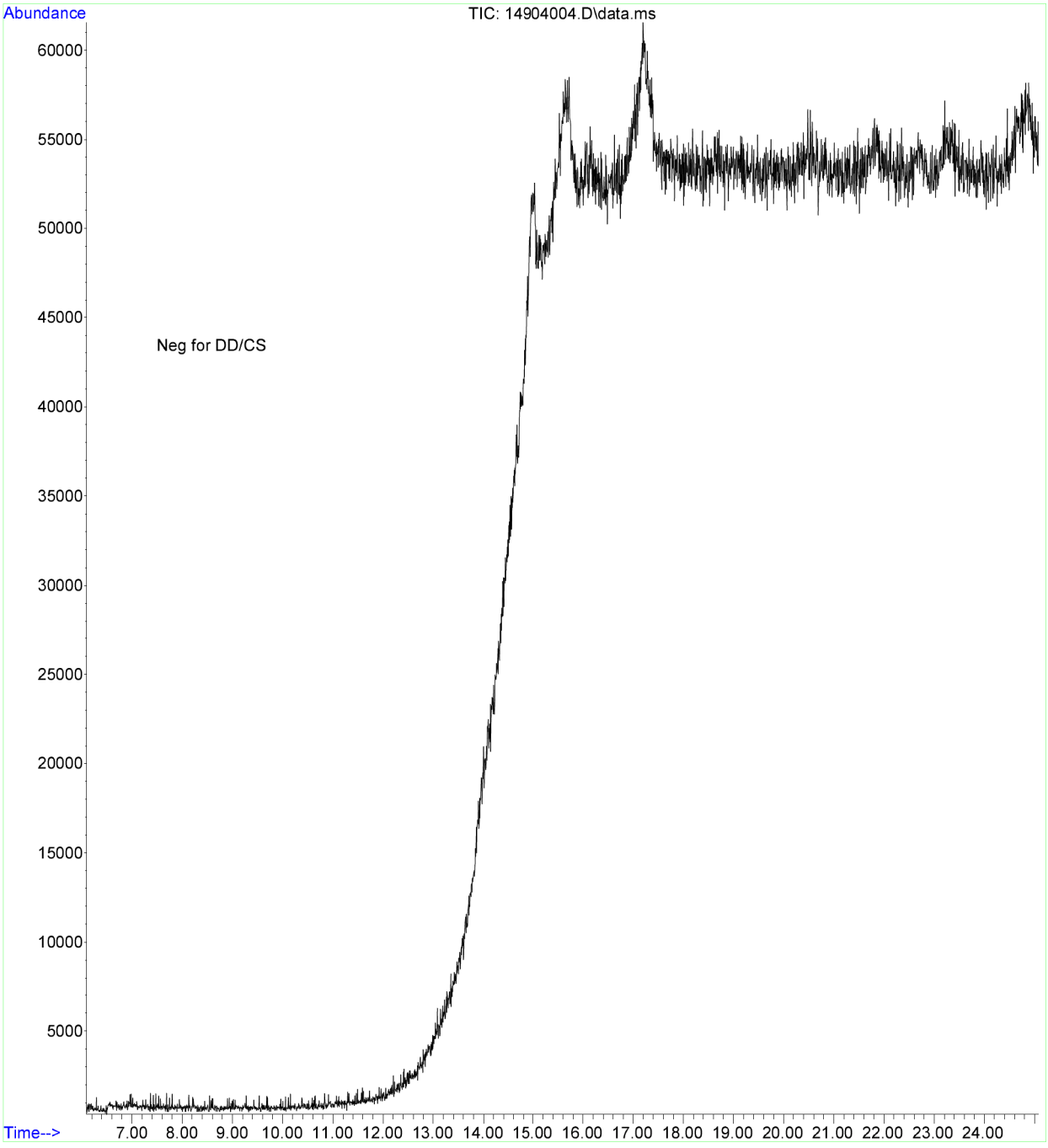
```
File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\041425\15001005.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 14 Apr 2025  12:54     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
```



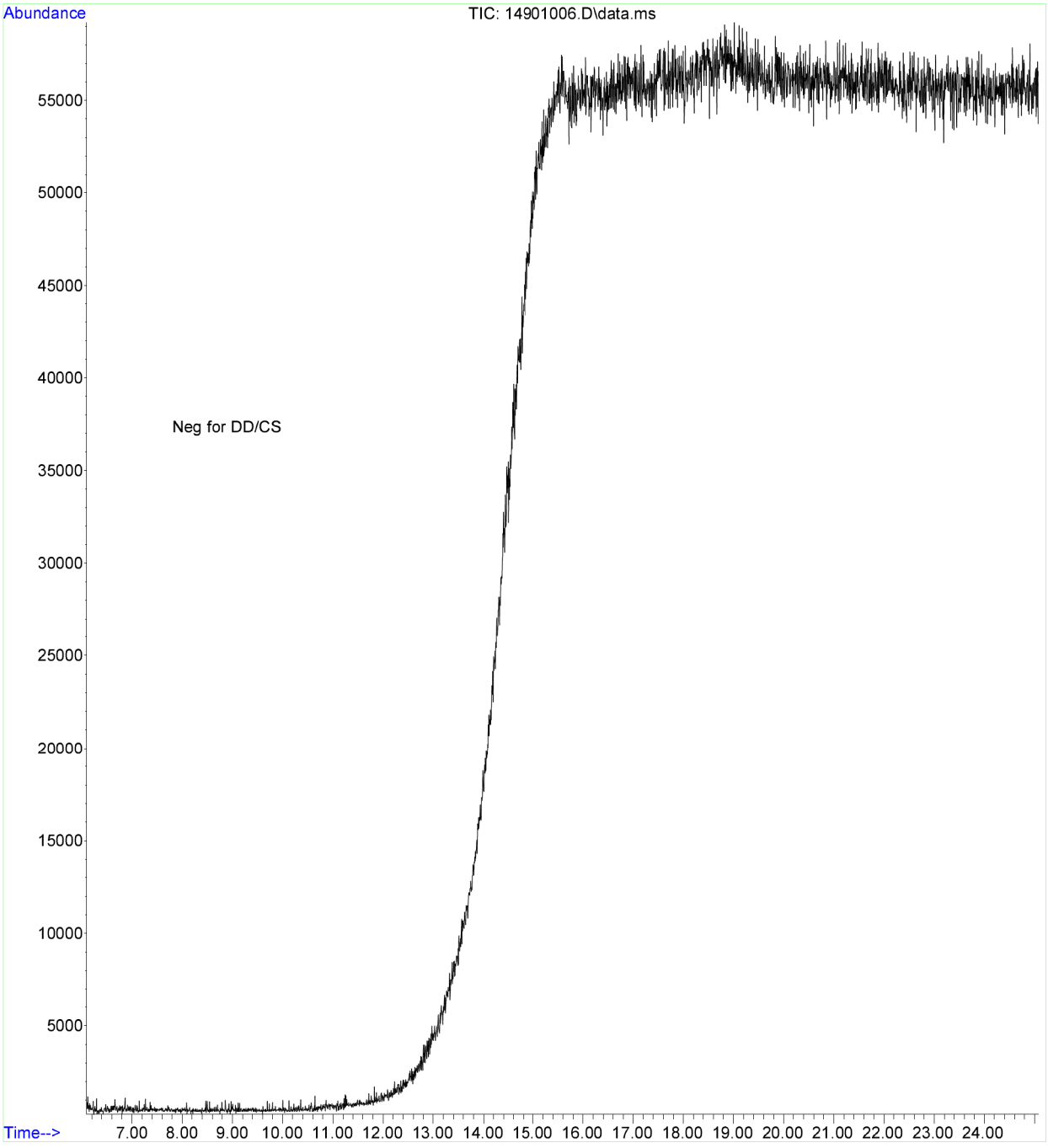
```
File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\041425\15001005.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 14 Apr 2025  12:54     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
```



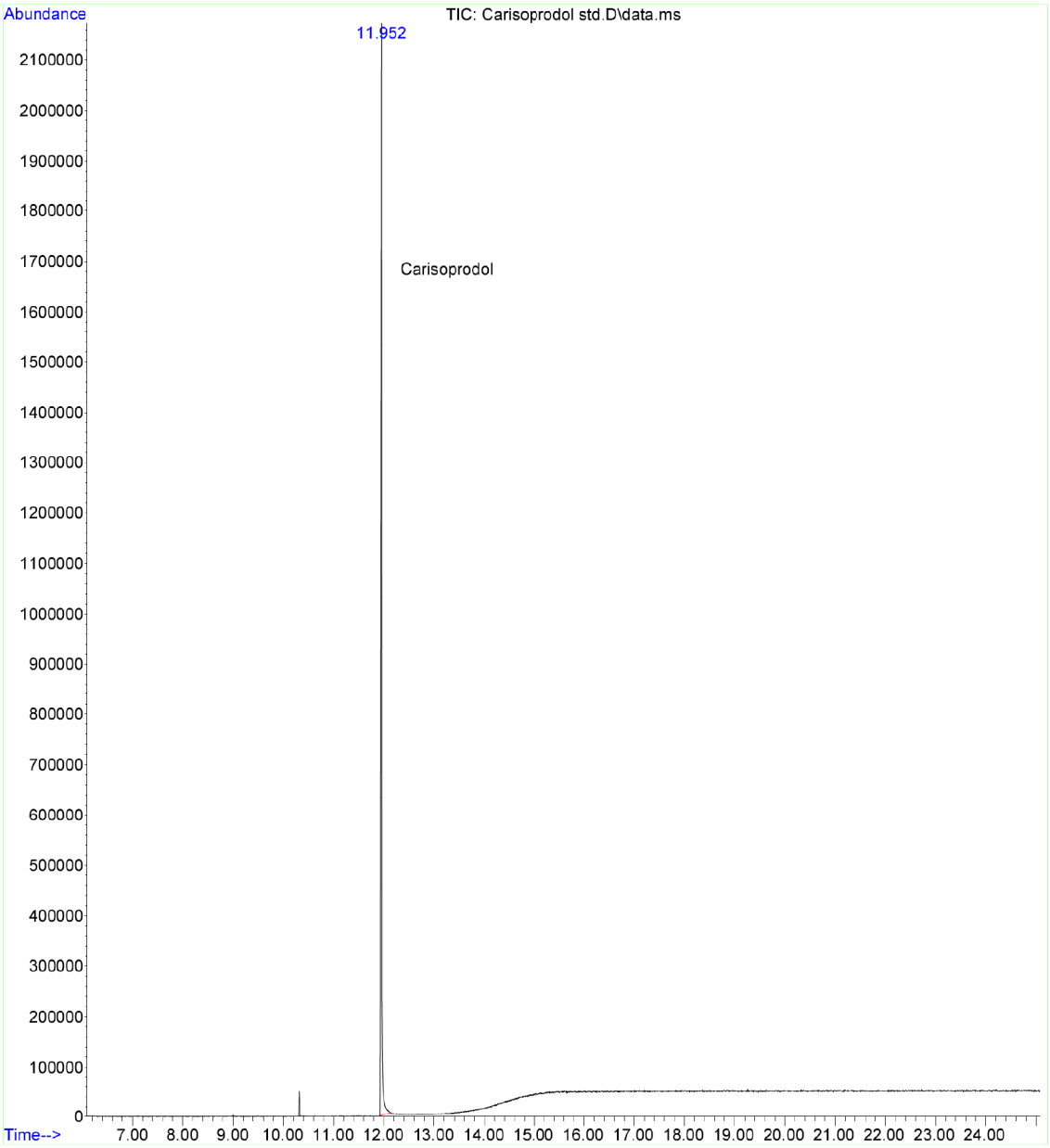
File :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
... Data\041425\14904004.D
Operator : DrugChem-HP\admin
Instrument : BCCL SD GCMS 3
Acquired : 14 Apr 2025 12:26 using AcqMethod DrugTest35.M
Sample Name: BLANK (C-19-0068) PRIOR TO CAYMAN GC/MS MIX 3 (R-24-060) 000002666
Misc Info : 000002666



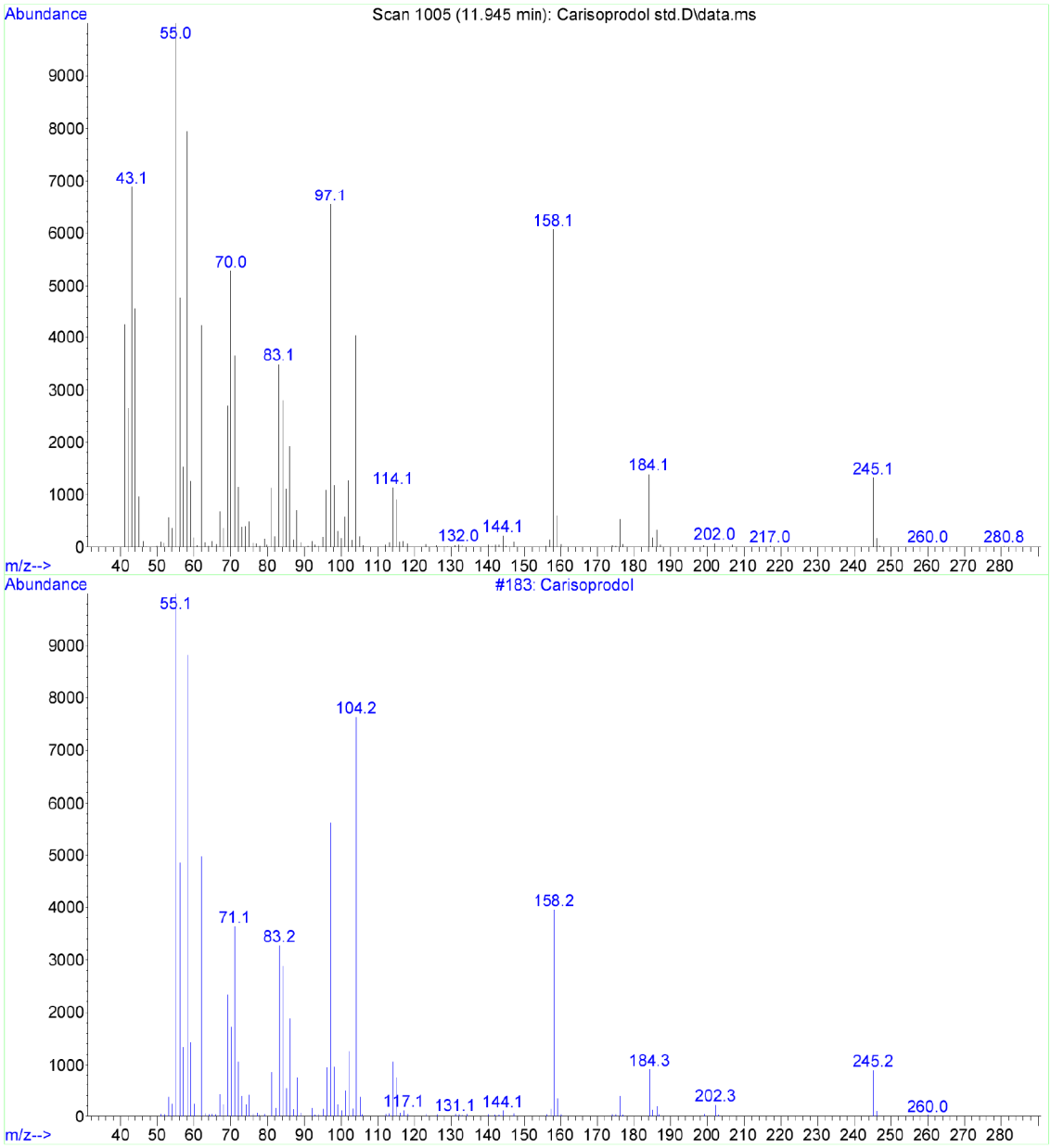
```
File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\041425\14901006.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 14 Apr 2025  13:23     using AcqMethod DrugTest35.M
Sample Name: BLANK (C-19-0068) - INSTRUMENT READY          000002666
Misc Info  :                                               000002666
```



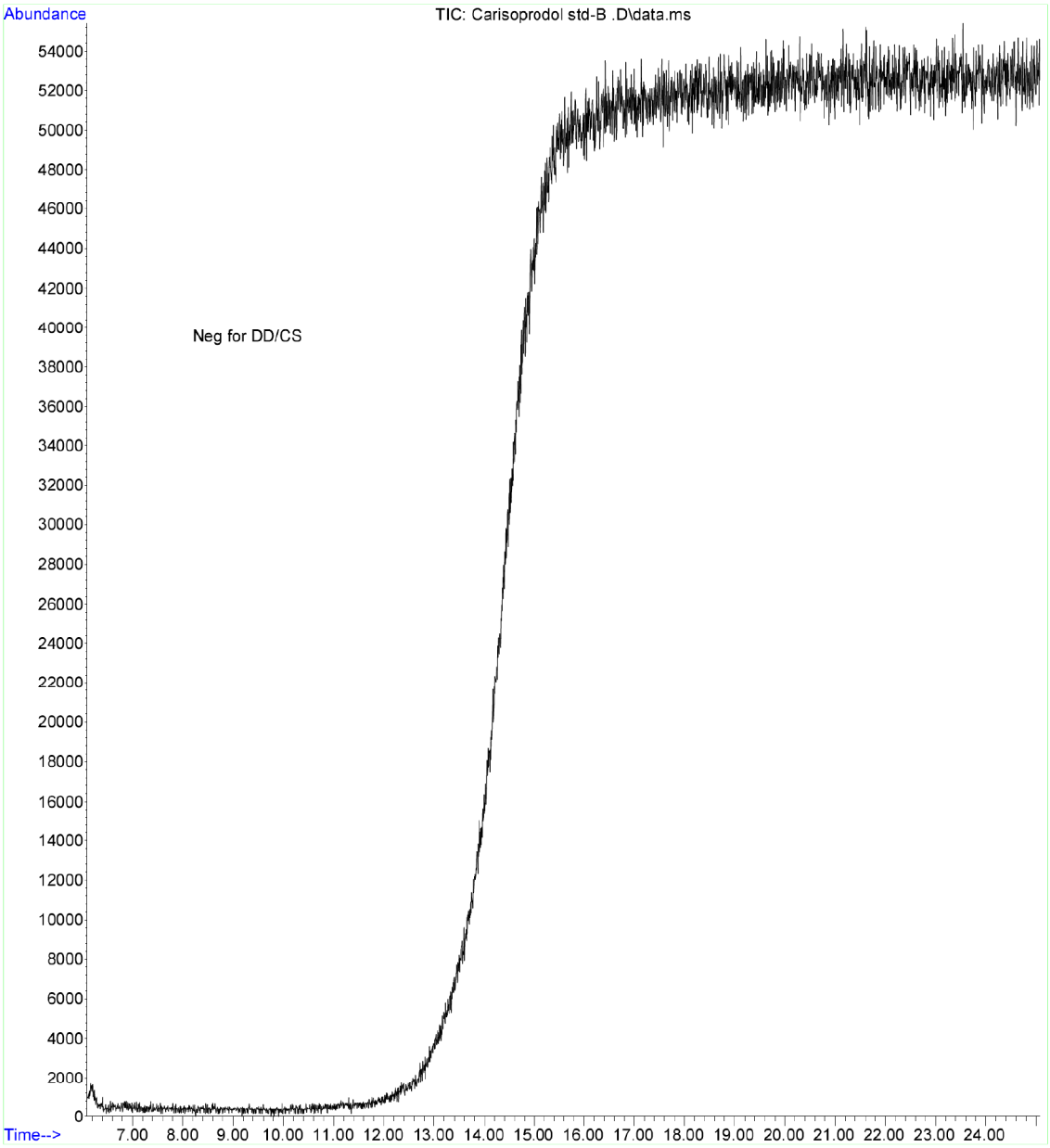
```
File       :D:\MassHunter\GCMS\1\GCMS 3 data\2025 Data\041125\Carisoprod
...         ol std.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 11 Apr 2025  14:17     using AcqMethod DrugTest35.M
Sample Name: Carisoprodol std (R-24-018)                    000002964
Misc Info  : RTdetermination                                000002964
```



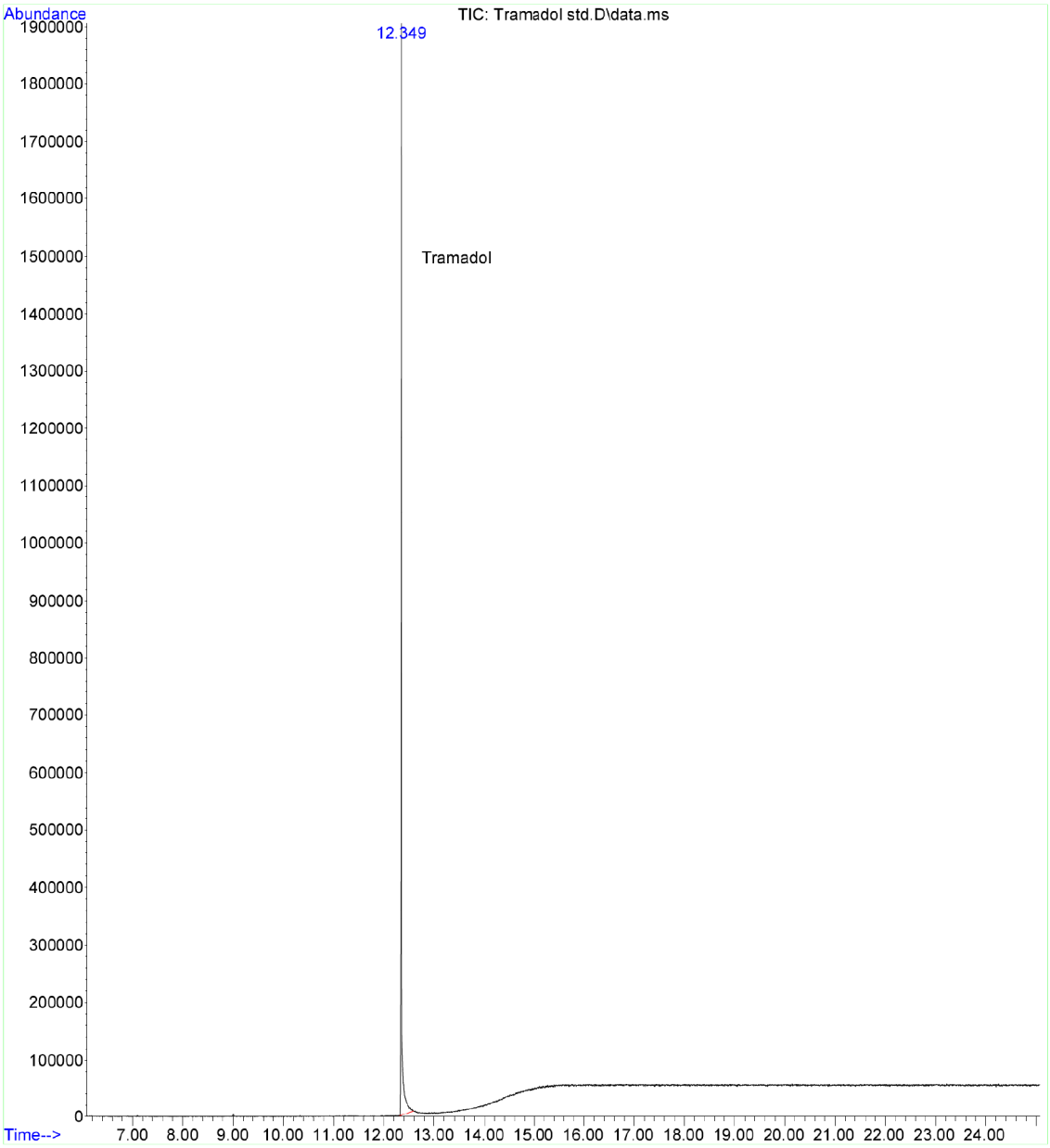
```
File       :D:\MassHunter\GCMS\1\GCMS 3 data\2025 Data\041125\Carisoprod
...         ol std.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 11 Apr 2025  14:17     using AcqMethod DrugTest35.M
Sample Name: Carisoprodol std (R-24-018)                    000002964
Misc Info  : RTdetermination                                000002964
```



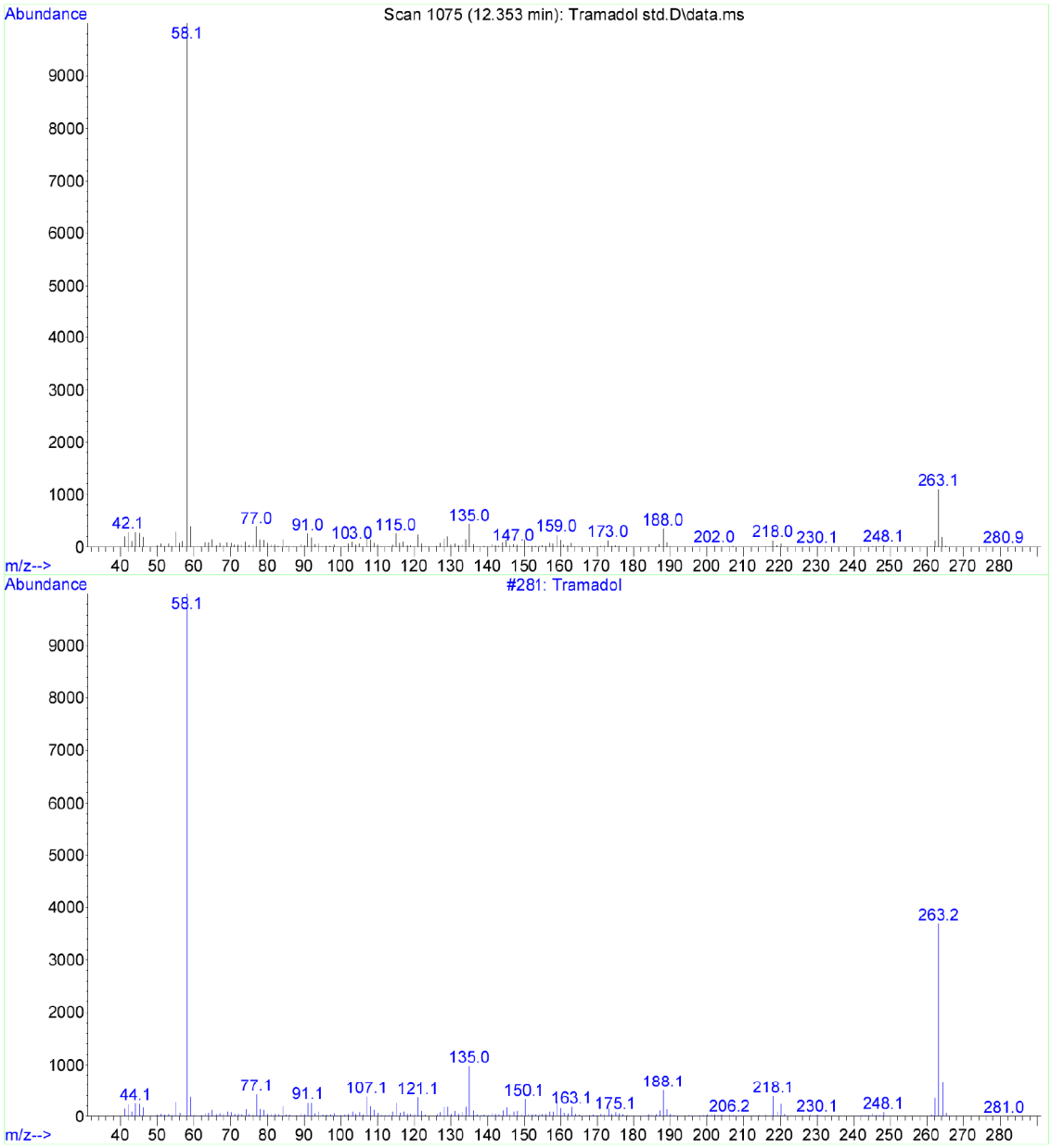
```
File       :D:\MassHunter\GCMS\1\GCMS 3 data\2025 Data\041125\Carisoprod
...         ol std-B .D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 11 Apr 2025  13:48     using AcqMethod DrugTest35.M
Sample Name: blank prior to Carisoprodol std (R-24-018)     000002789
Misc Info  : EtAc (C-22-0063A)/base extract w/ R-24-059     000002789
```



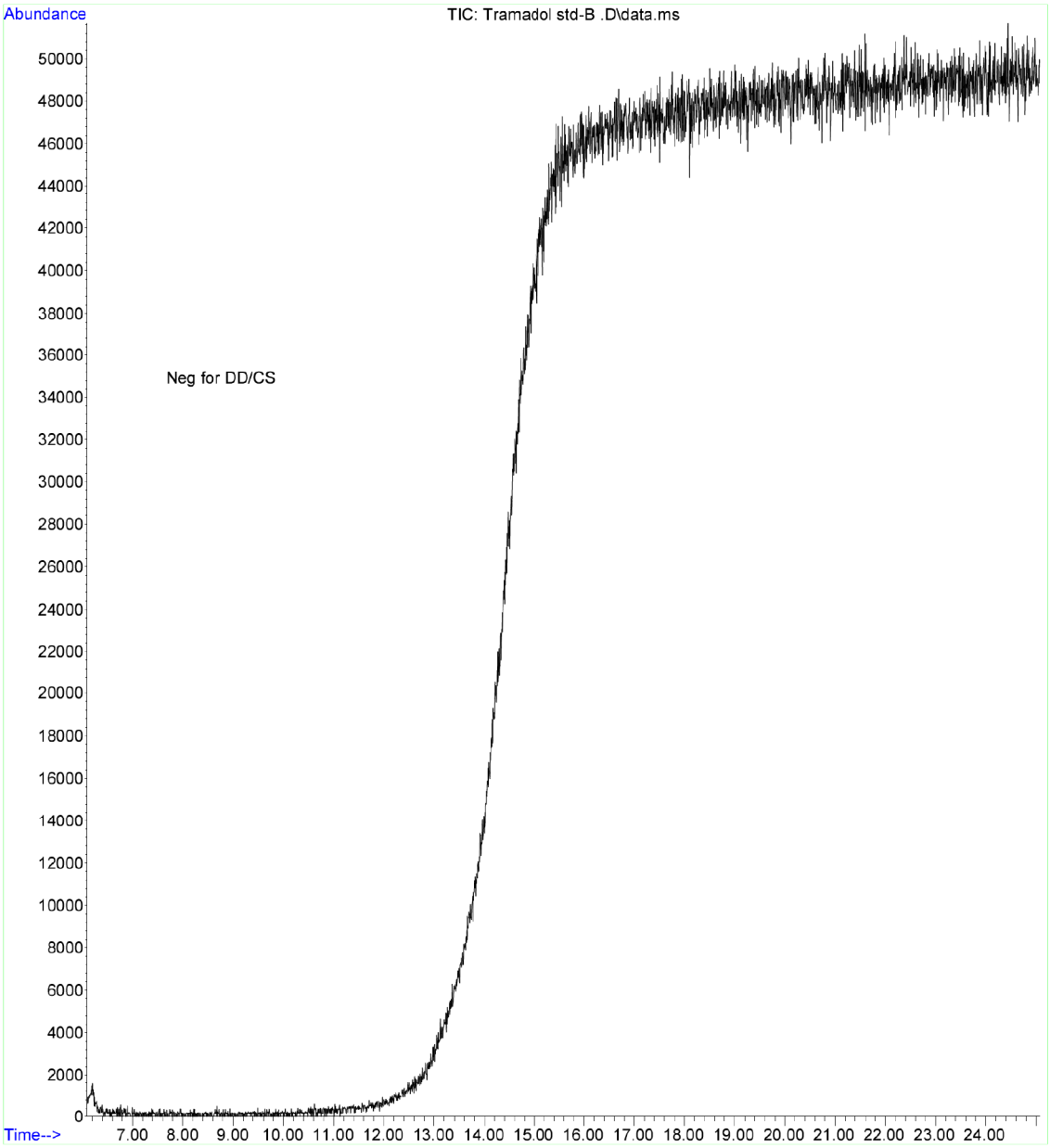
```
File       :D:\MassHunter\GCMS\1\GCMS 3 data\2025 Data\041125\Tramadol s
...         td.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 11 Apr 2025  15:14     using AcqMethod DrugTest35.M
Sample Name: Tramadol std (R-24-014)                        000002999
Misc Info  : RTdetermination                                000002999
```



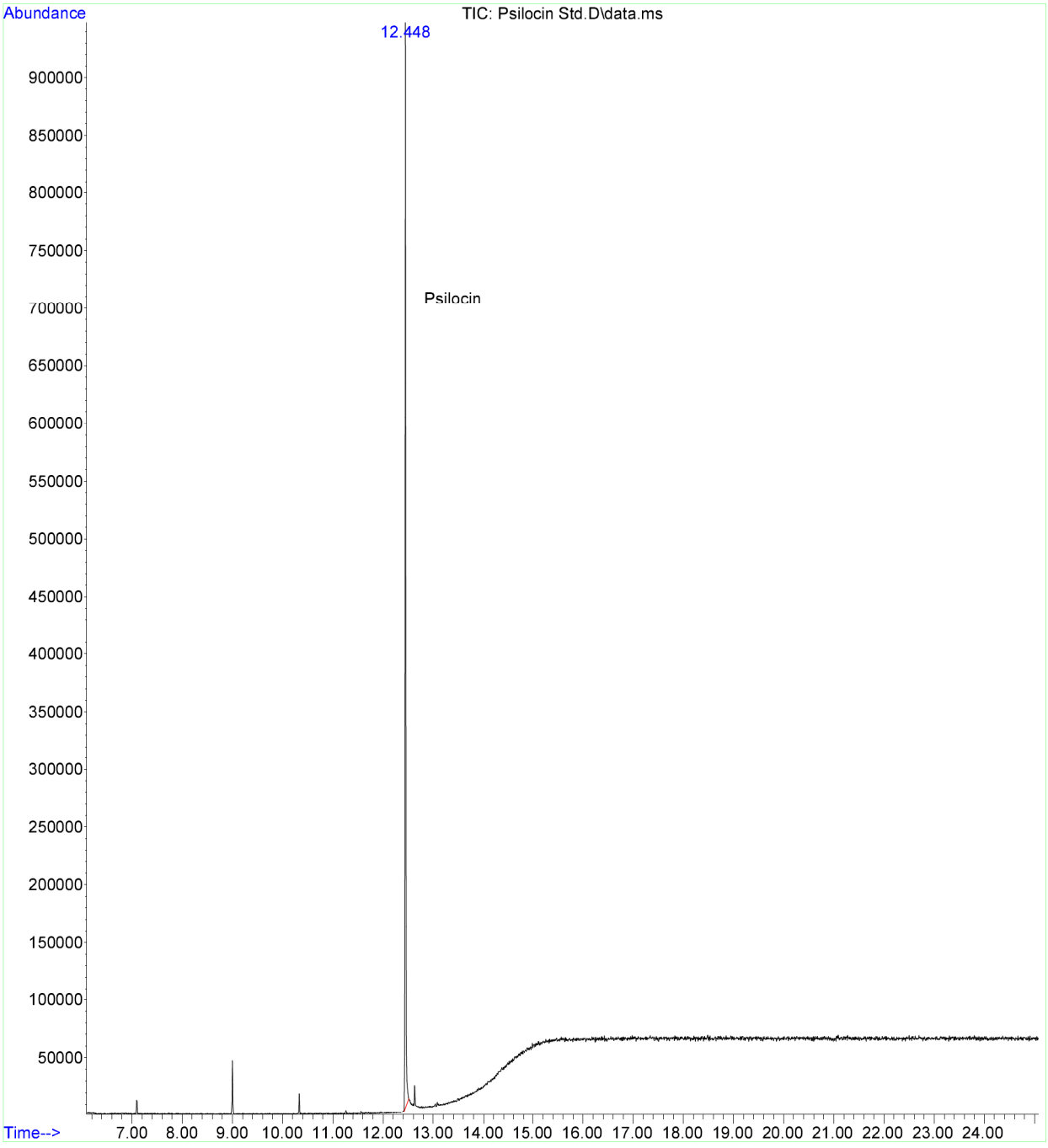
```
File       :D:\MassHunter\GCMS\1\GCMS 3 data\2025 Data\041125\Tramadol s
...         td.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 11 Apr 2025  15:14     using AcqMethod DrugTest35.M
Sample Name: Tramadol std (R-24-014)                        000002999
Misc Info  : RTdetermination                                000002999
```



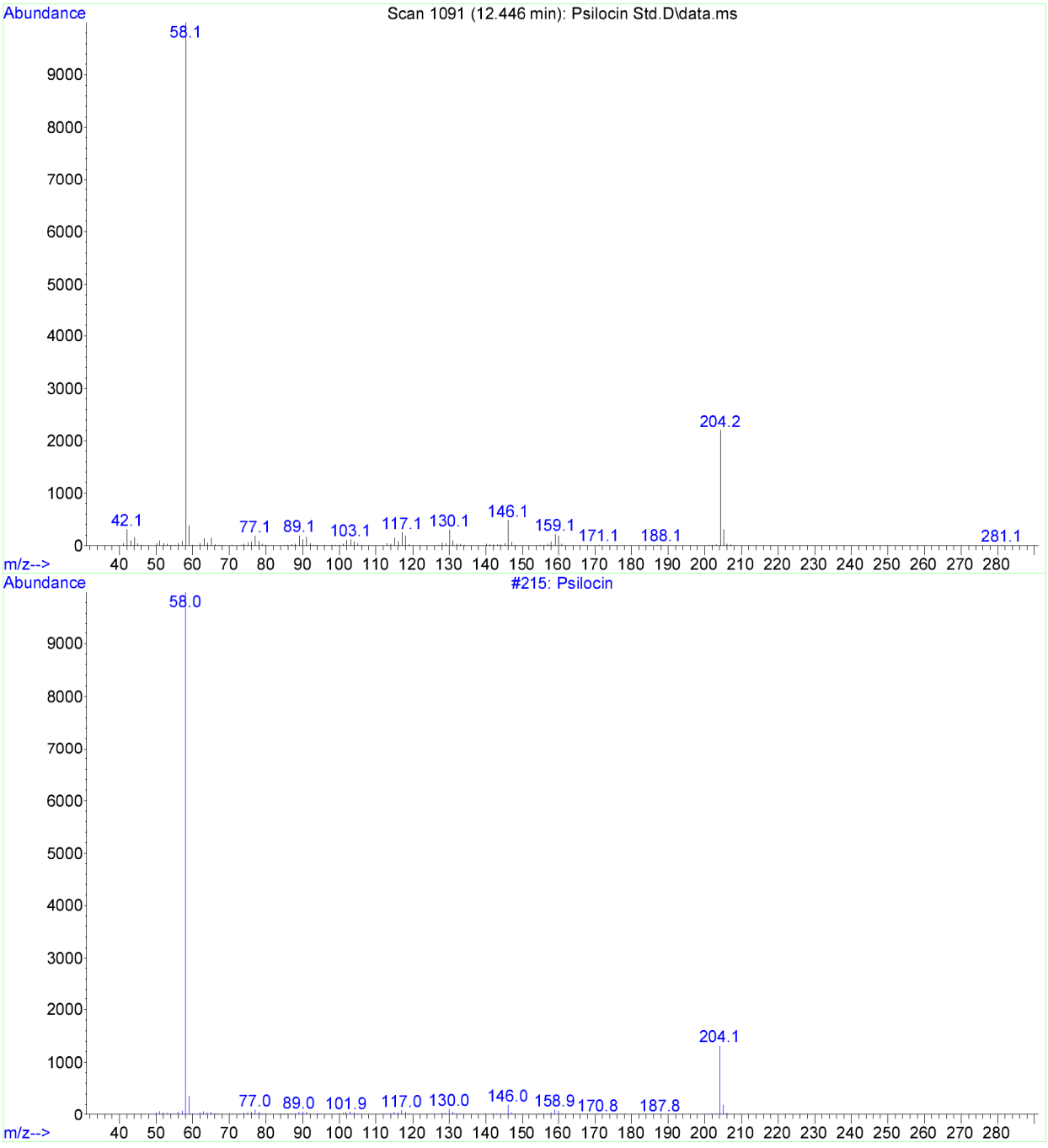
```
File       :D:\MassHunter\GCMS\1\GCMS 3 data\2025 Data\041125\Tramadol s
...         td-B .D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 11 Apr 2025  14:45     using AcqMethod DrugTest35.M
Sample Name: blank prior to Tramadol std (R-24-014)          000002789
Misc Info  : EtAc (C-22-0063A)/base extract w/ R-24-059      000002789
```



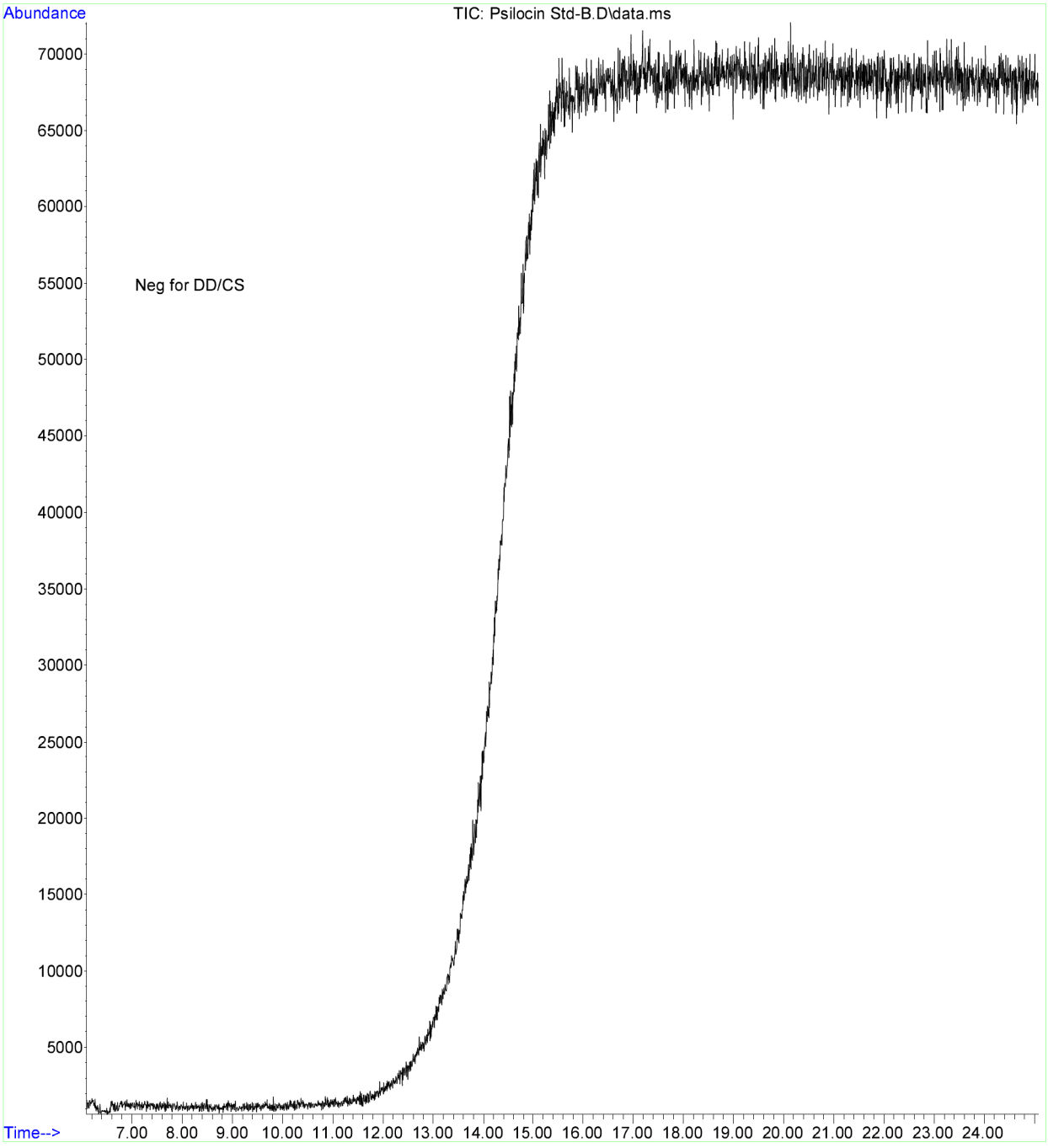
```
File       :D:\MassHunter\GCMS\1\GCMS 3 data\2025 Data\020725\Psilocin S
...         td.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 15 Apr 2025  19:30     using AcqMethod DrugTest35.M
Sample Name: Psilocin Std (R-24-030)                          000002968
Misc Info  : acid base ext w/chloroform                       000002968
```



```
File       :D:\MassHunter\GCMS\1\GCMS 3 data\2025 Data\020725\Psilocin S
...         td.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 15 Apr 2025  19:30     using AcqMethod DrugTest35.M
Sample Name: Psilocin Std (R-24-030)                          000002968
Misc Info  : acid base ext w/chloroform                       000002968
```



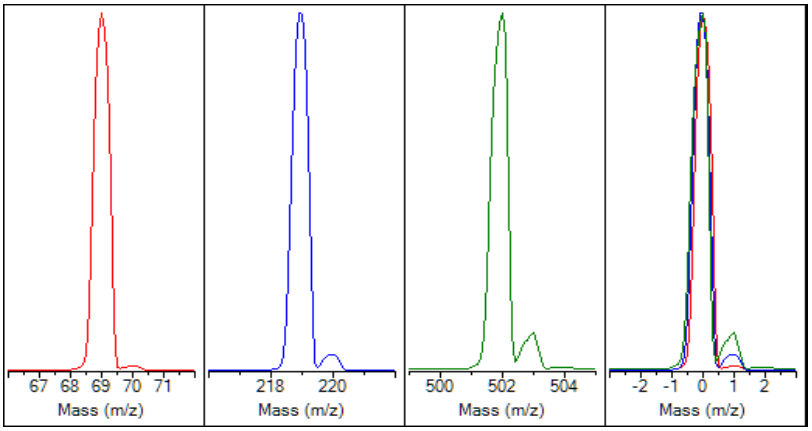
```
File       :D:\MassHunter\GCMS\1\GCMS 3 data\2025 Data\020725\Psilocin S
...         td-B.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 15 Apr 2025  19:02     using AcqMethod DrugTest35.M
Sample Name: Blank prior to Psilocin Std (R-24-030)         000002529
Misc Info  : Chloroform (C-18-0040)                         000002529
```



Autotune - 5977

4/22/2025 9:08:50 AM (UTC-5:00) BCCL SD GCMS 3

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



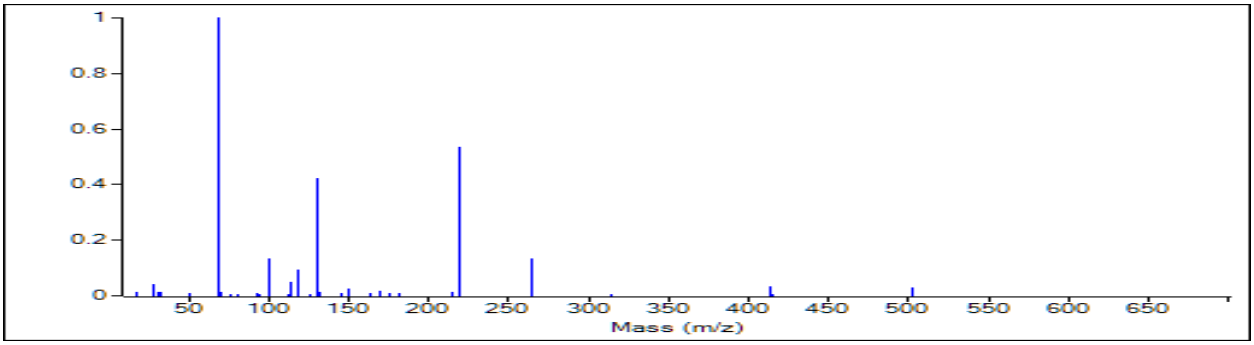
Ion Polarity	Pos	Mass Gain	-360
Emission	34.6	Mass Offset	-34
Electron Energy	70.0	Amu Gain	1679
Filament	2	Amu Offset	120.63
Repeller	34.90	Width219	-0.004
Ion Focus	90.3	DC Polarity	Pos
Entrance Lens	7.5	HED Enable	On
Ent Lens Offset	14.06	EM Volts	1770.6
Ion Body	0.00	Extractor Lens	0.00
		Scan Speed	3
		Averages	3
PFTBA	Open	Step Size	0.10

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	8.52e-06

Mass	Abund	Rel Abund	Pw50
69.00	415,181	100.0%	0.60
218.90	220,695	53.2%	0.60
502.00	11,036	2.7%	0.61

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	95	69.00	404,416	1,107,040



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	404,416	100.00	70.00	4,591	1.14
219.00	215,808	53.36	220.00	9,333	4.32
502.00	11,145	2.76	502.90	1,189	10.67

Air/Water Check: H20 ~1.3% N2 ~4.0% O2 ~1.2% CO2 ~0.1% N2/H20 ~313.1%

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 43417.231

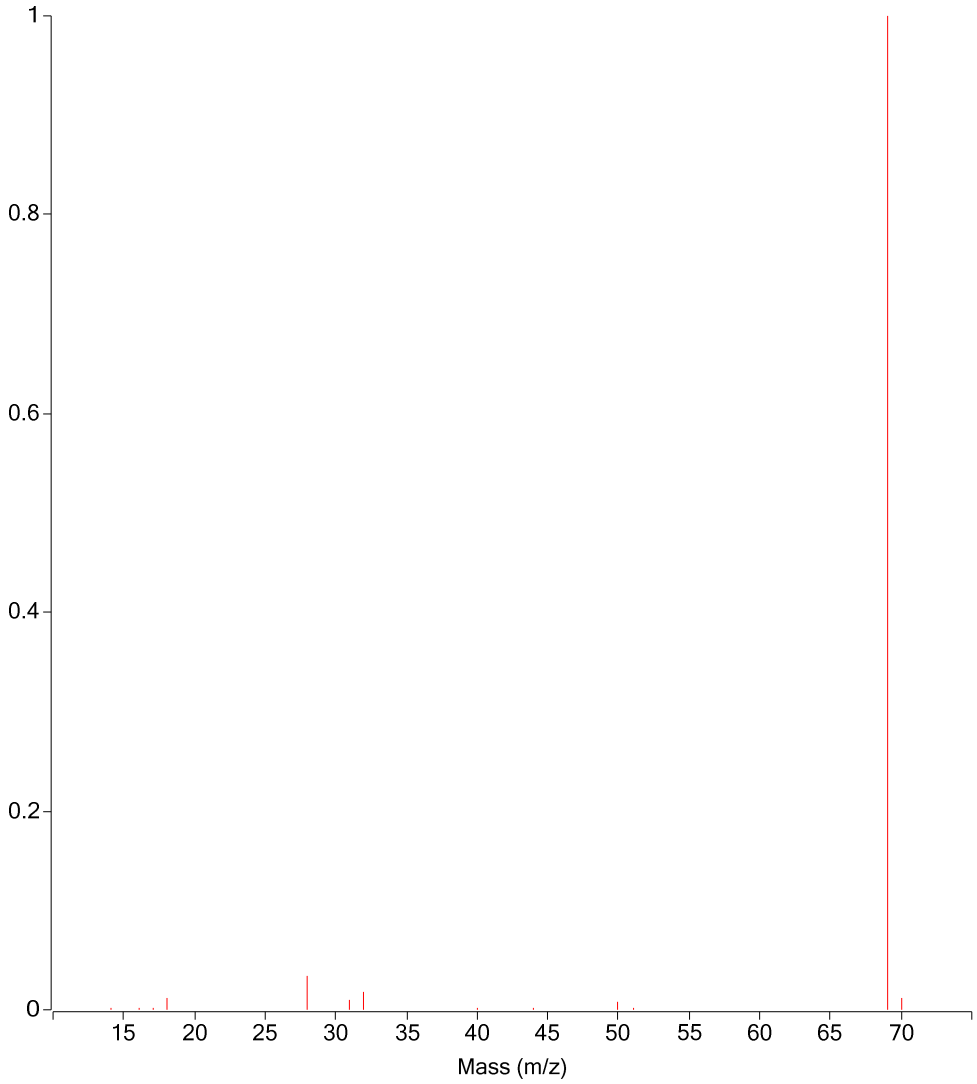
Repeller maximum 35 volts using ion 219; Gain Factor 0.4342

Mass Gain Values(Scan Speed): -362(3) -363(2) -363(1) -356(0) -355(FS1) -354(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	120.6	120.6	120.6	120.6	120.6	120.6	120.6
Entrance Lens Offset	14.1	14.1	14.1	14.1	14.1	14.1	14.1

597x Air and Water Check

Instrument: BCCL SD GCMS 3
Tue Apr 22 09:03:26 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: atune.u

Relative abundances:

18/69 =	1.30	Water%	(counts=13067)
28/69 =	3.34	Nitrogen%	(counts=33592)
32/69 =	1.80	Oxygen%	(counts=18104)
44/69 =	0.27	Carbon Dioxide%	(counts=2724)
28/18 =	257.08	Nitrogen/Water%	

Instrument Name : BCCL SD GCMS 3
DC Polarity : Positive
Filament 2

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	501.94	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	219.99	OK
Position of isotope mass 503	502.92	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%)	10.29	OK
Ratio of 219 to 69 should be > 40% and is	53.54	OK
Ratio of 502 to 69 should be > 2.4% and is	2.74	OK
Mass 69 Precursor (<= 3%)	0.10	OK
Mass 219 Precursor (<= 6%)	0.39	OK
Mass 502 Precursor (<= 12%)	2.37	OK

597x Air and Water Check
Tue Apr 22 09:13:22 2025 Instrument: BCCL SD GCMS 3
D:\MASSHUNTER\GCMS\1\5977\atune.u US1329M205

Testing for a leak in the system

Ratio of 18 to 69 (<20%)	1.27	OK
Ratio of 28 to 69 (<10%)	3.70	OK
Electron Multiplier Voltage	1771	OK

Tune portion of System Verification passed.

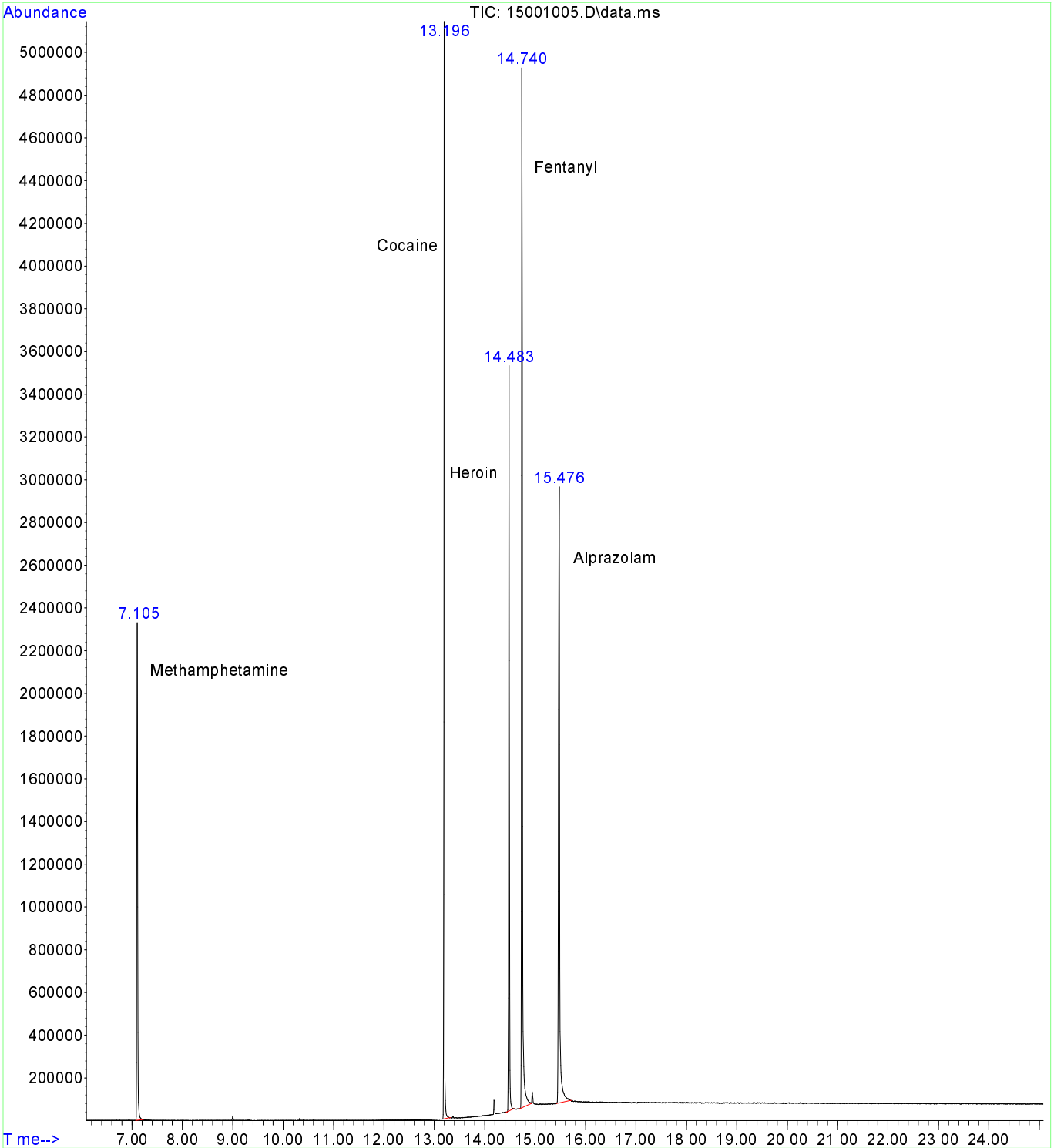
BCCL GC/MS #3
Retention Times for the Week of:

04/21/2025 - 04/27/2025

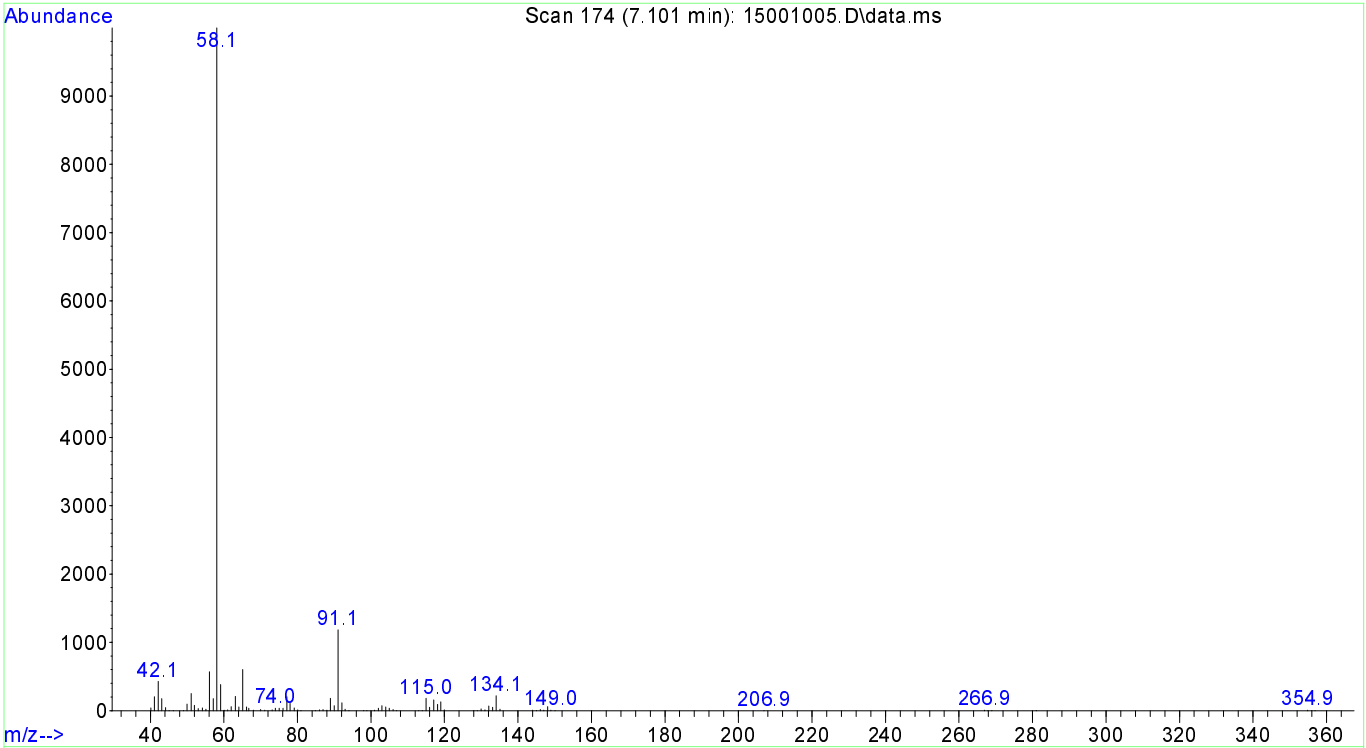
[X] **Tune: DS 04/22/2025 - Autotune**

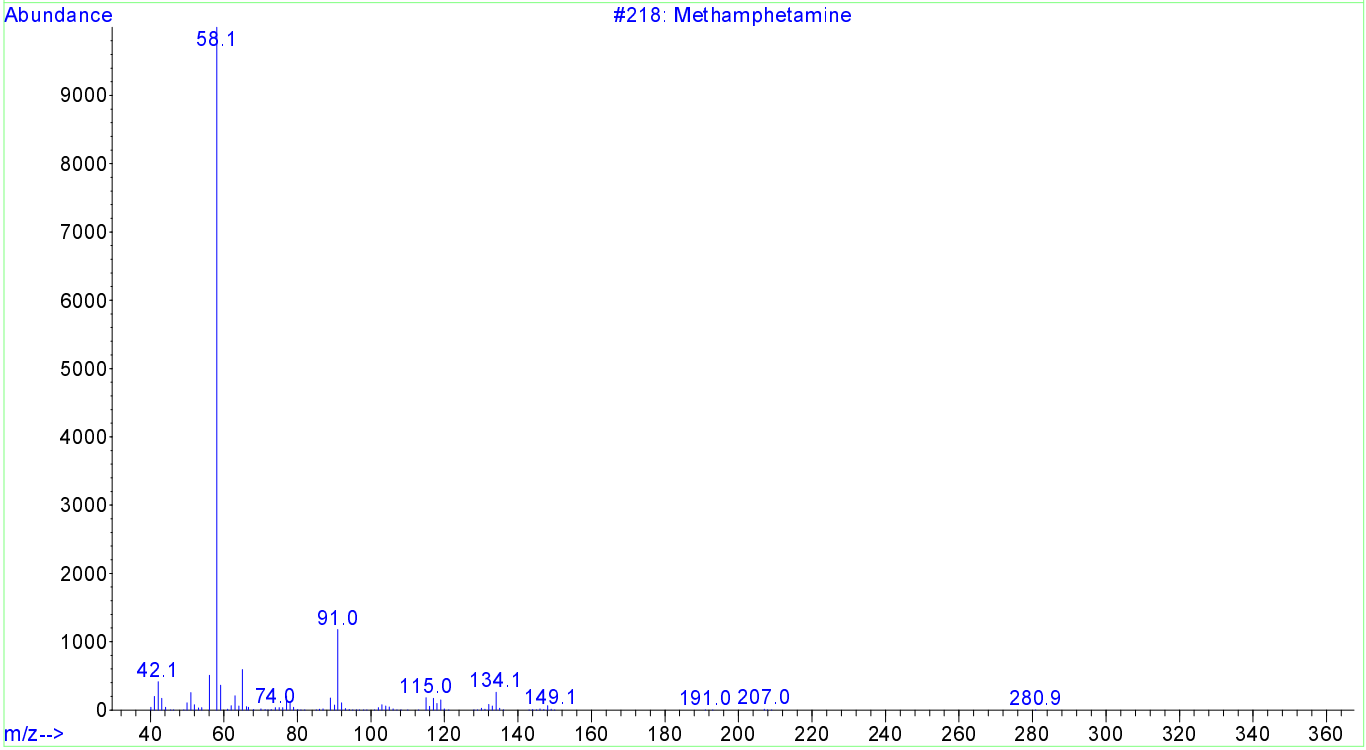
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35	7.105	7.033	7.176
Cocaine	R-24-060	DrugTest35	13.196	13.064	13.327
Heroin	R-24-060	DrugTest35	14.483	14.338	14.627
Fentanyl	R-24-060	DrugTest35	14.740	14.592	14.887
Alprazolam	R-24-060	DrugTest35	15.476	15.321	15.630

```
File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\042225\15001005.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 22 Apr 2025  10:35     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
```

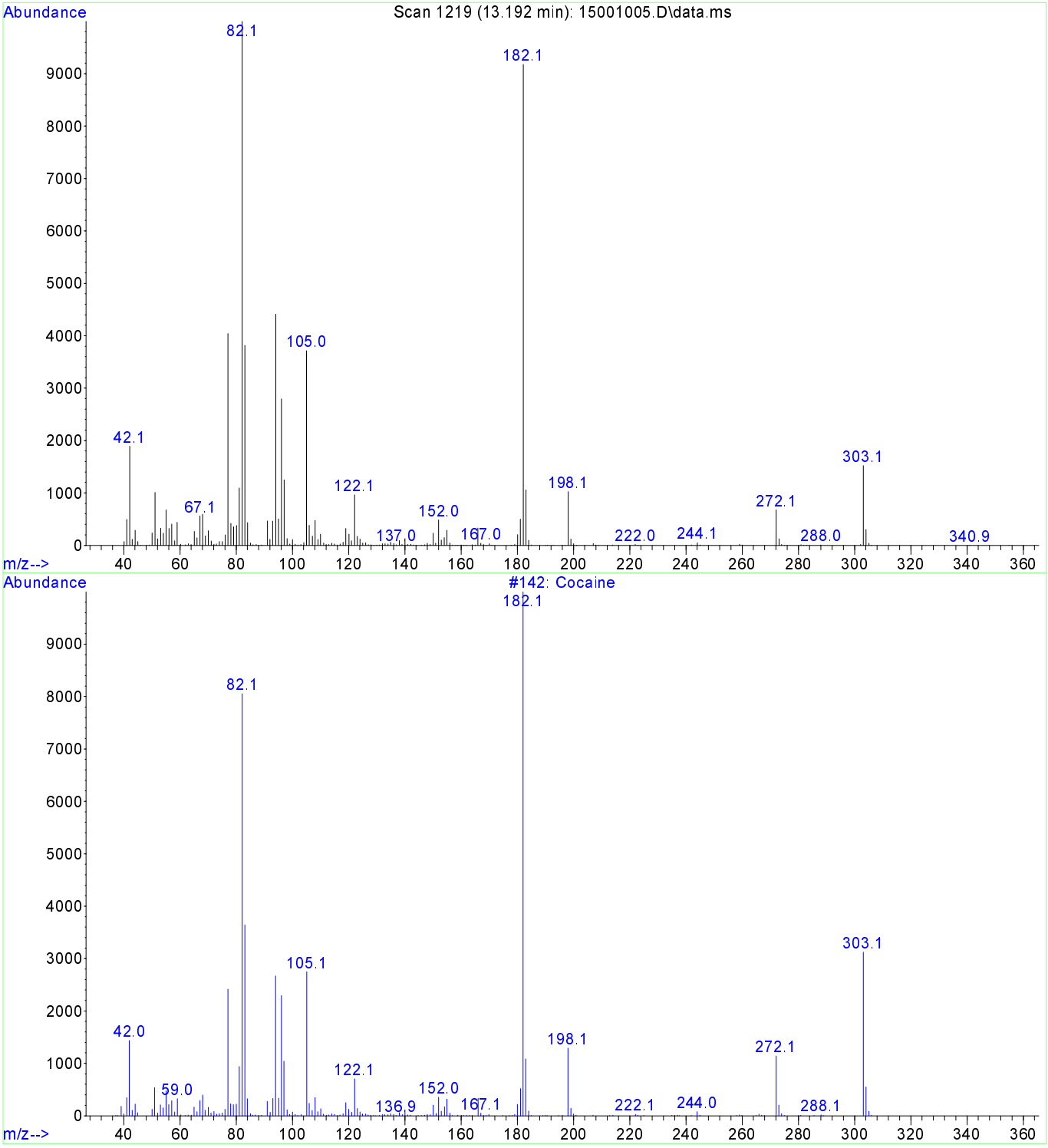


```
File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\042225\15001005.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 22 Apr 2025  10:35     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                    000002667
Misc Info  :                                                  000002667
```

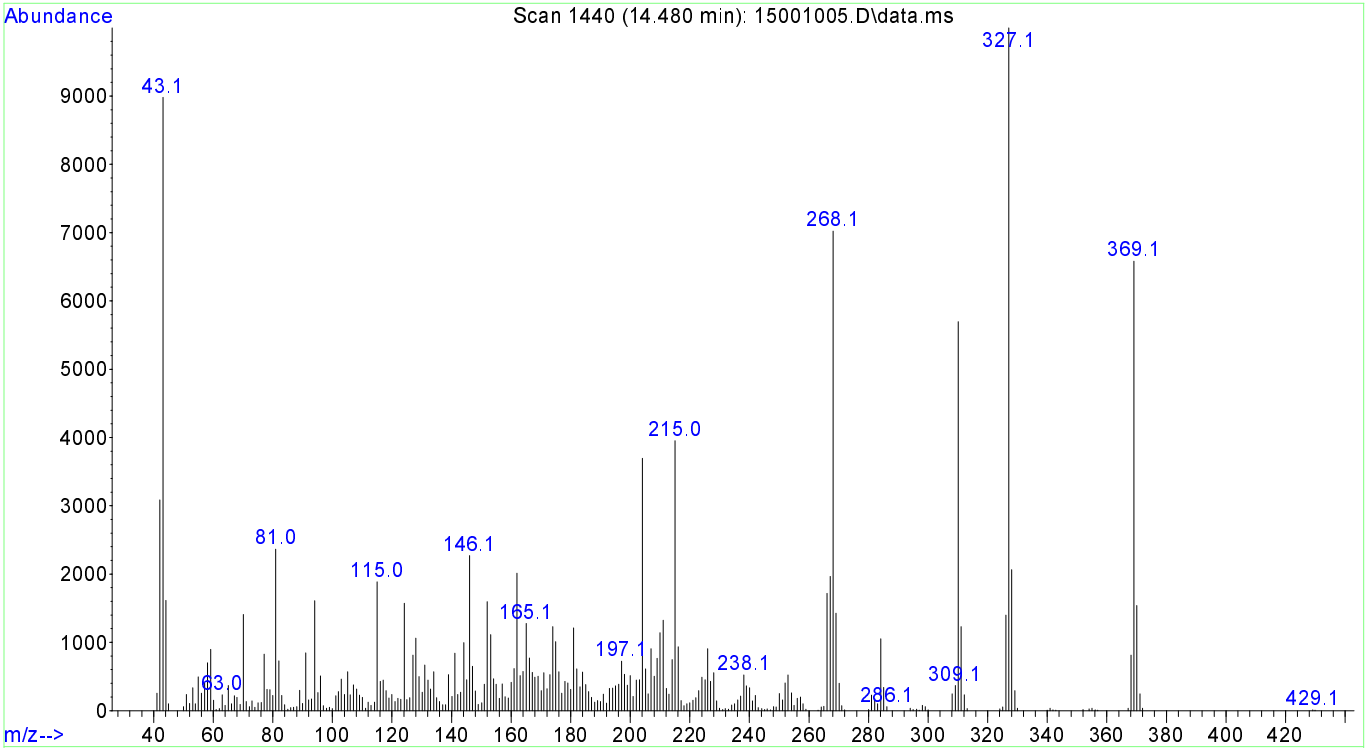


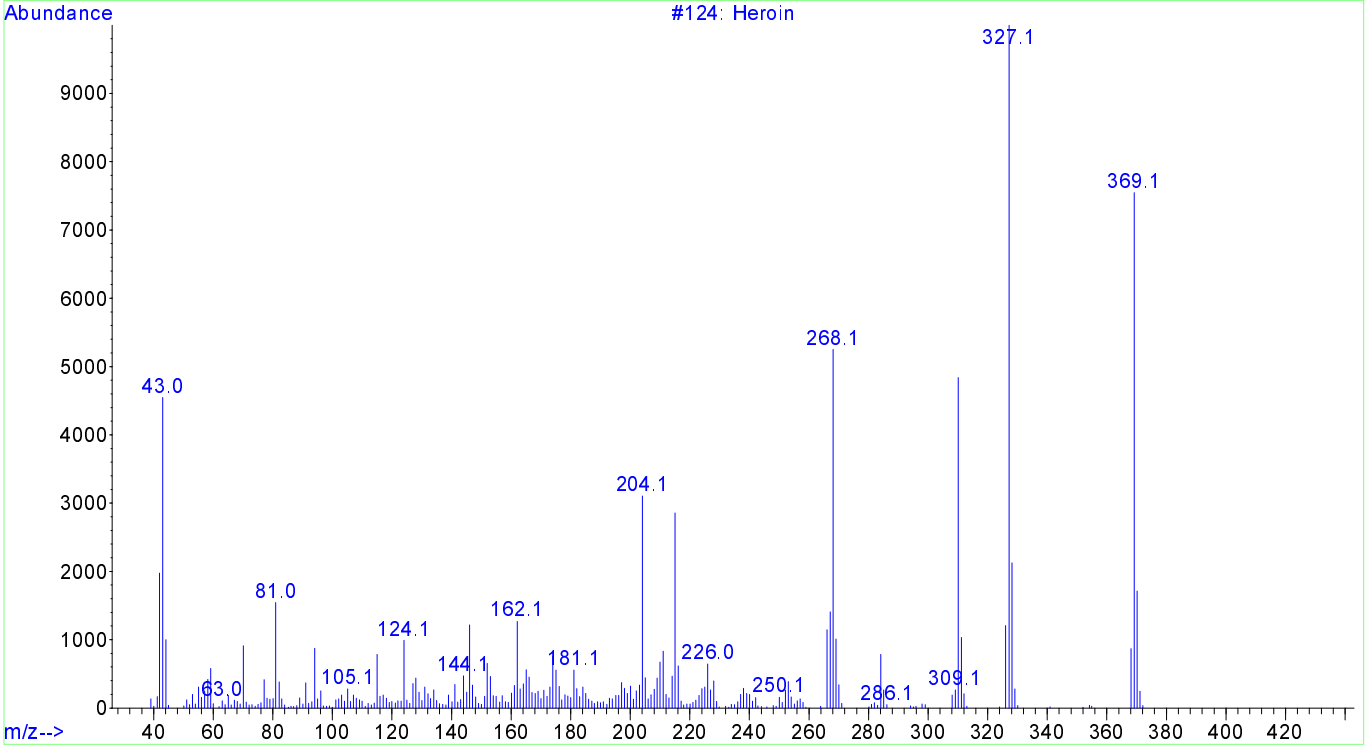


File :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
... Data\042225\15001005.D
Operator : DrugChem-HP\admin
Instrument : BCCL SD GCMS 3
Acquired : 22 Apr 2025 10:35 using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002667
Misc Info : 000002667

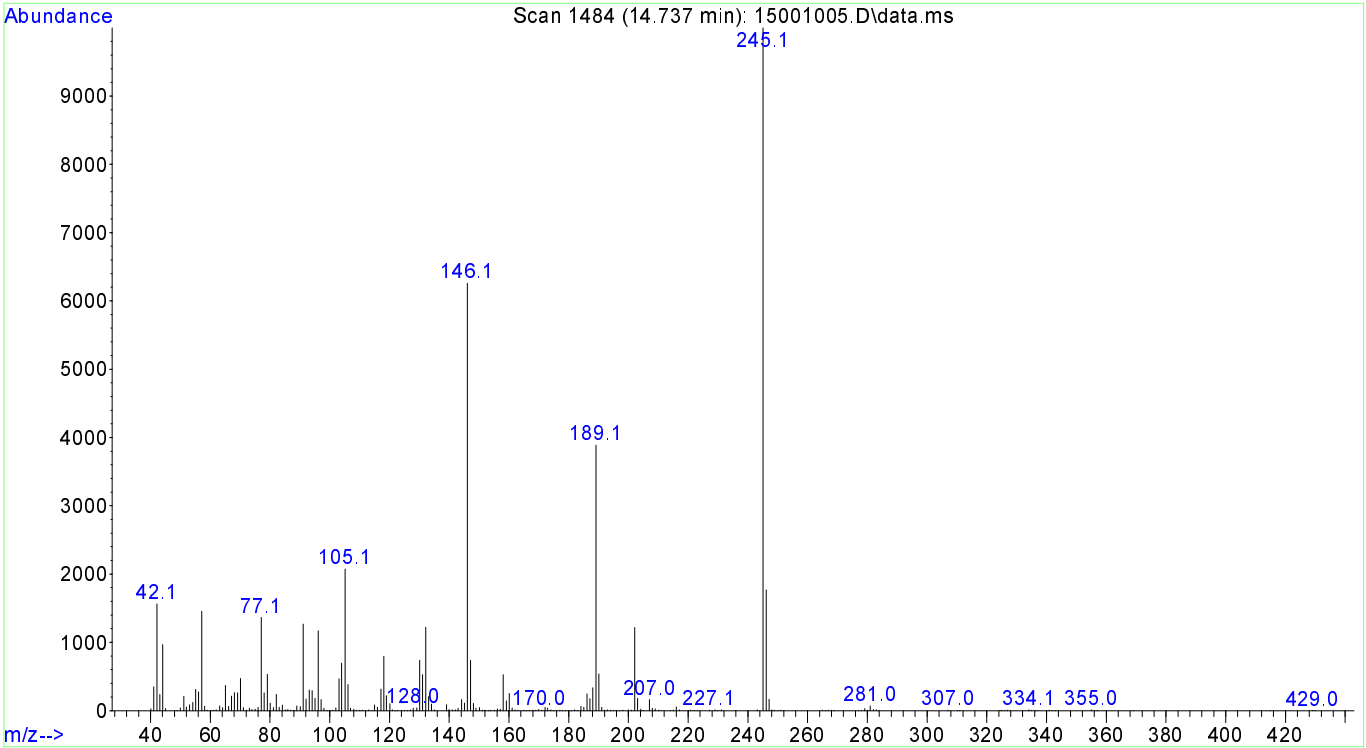


```
File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\042225\15001005.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 22 Apr 2025  10:35     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                    000002667
Misc Info  :                                                  000002667
```

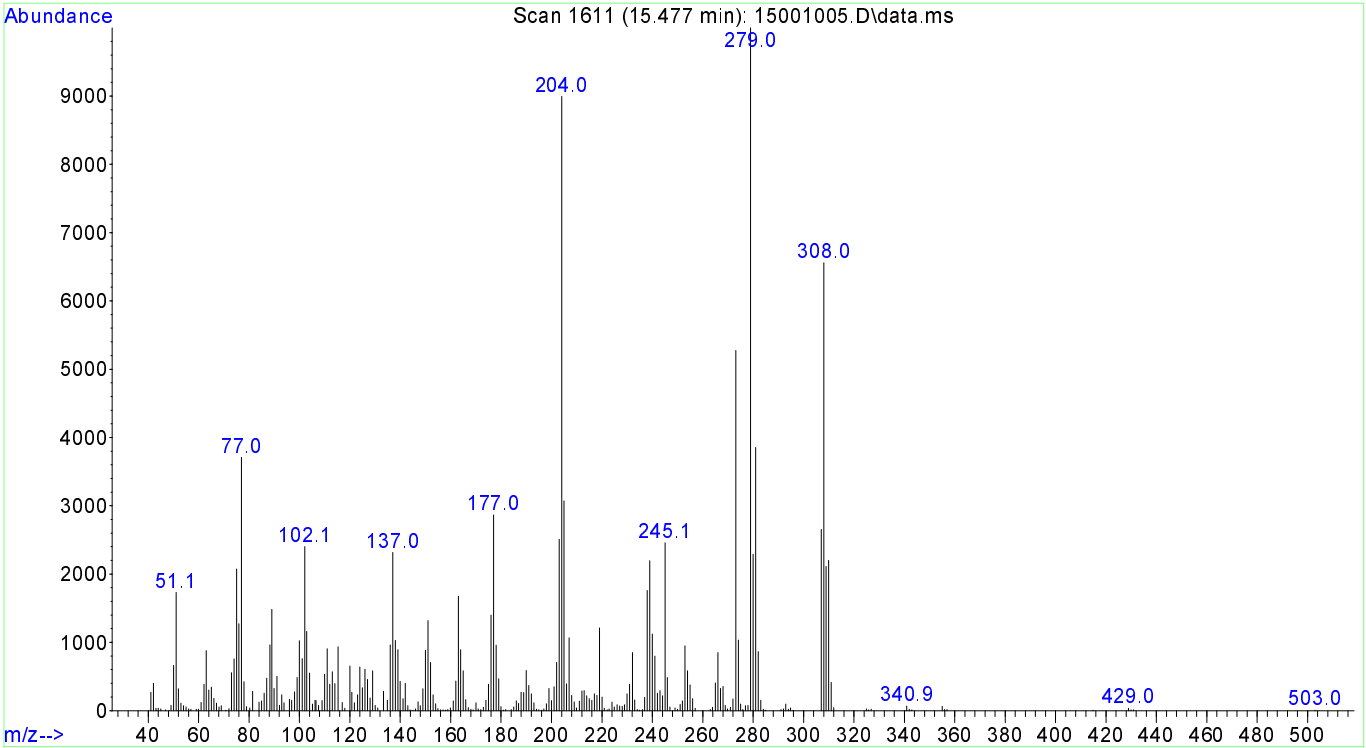


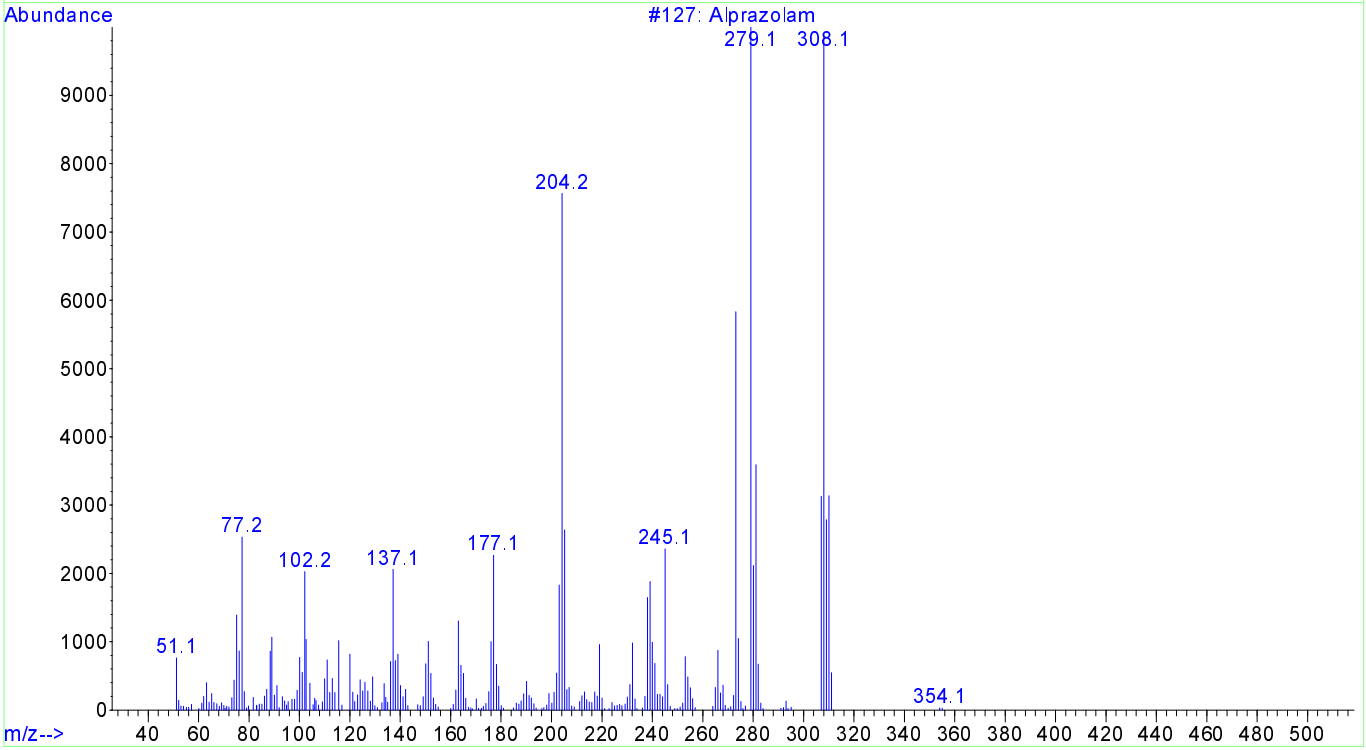


```
File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\042225\15001005.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 22 Apr 2025  10:35     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                    000002667
Misc Info  :                                                  000002667
```

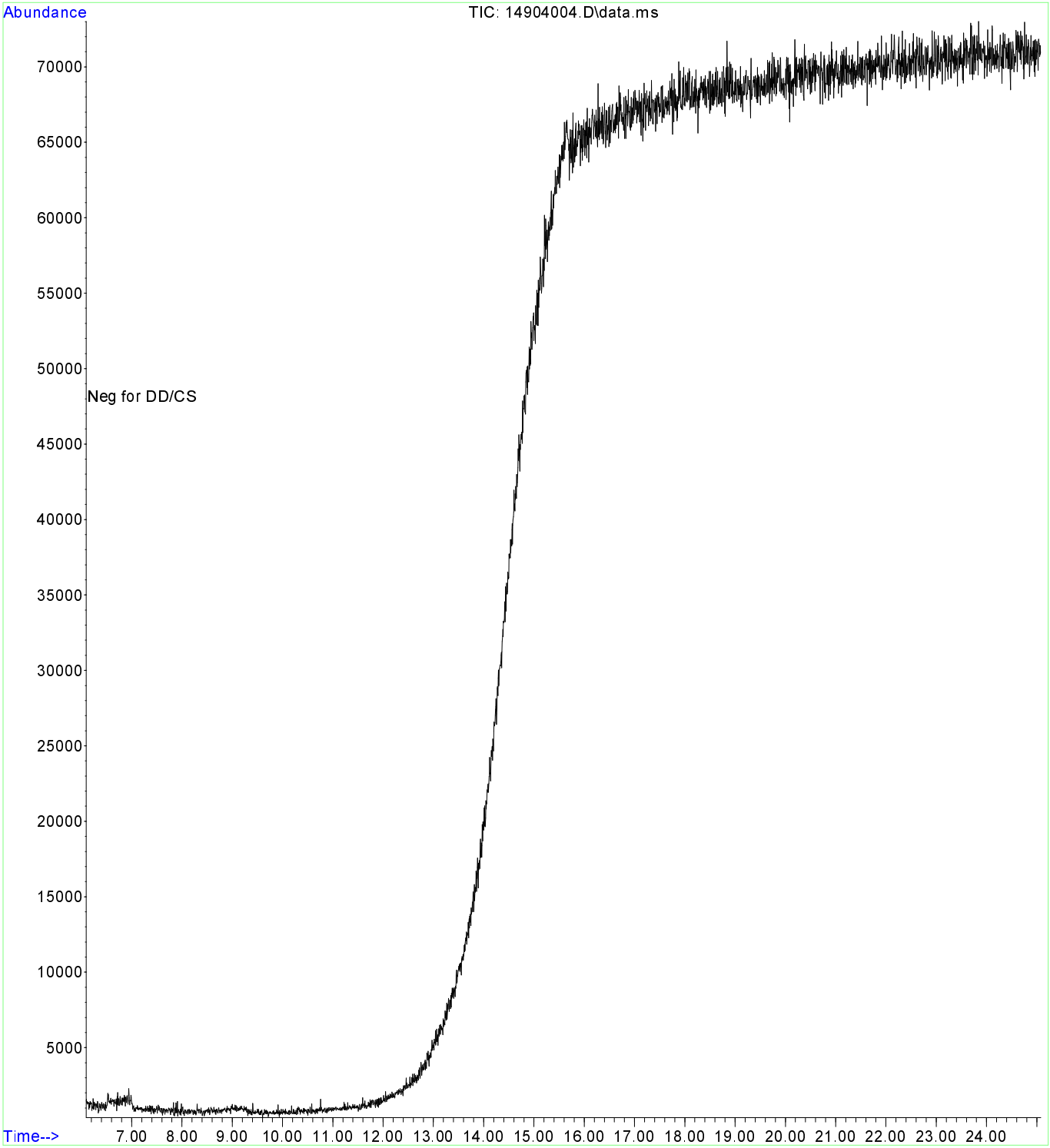


```
File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\042225\15001005.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 22 Apr 2025  10:35     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                    000002667
Misc Info  :                                                  000002667
```

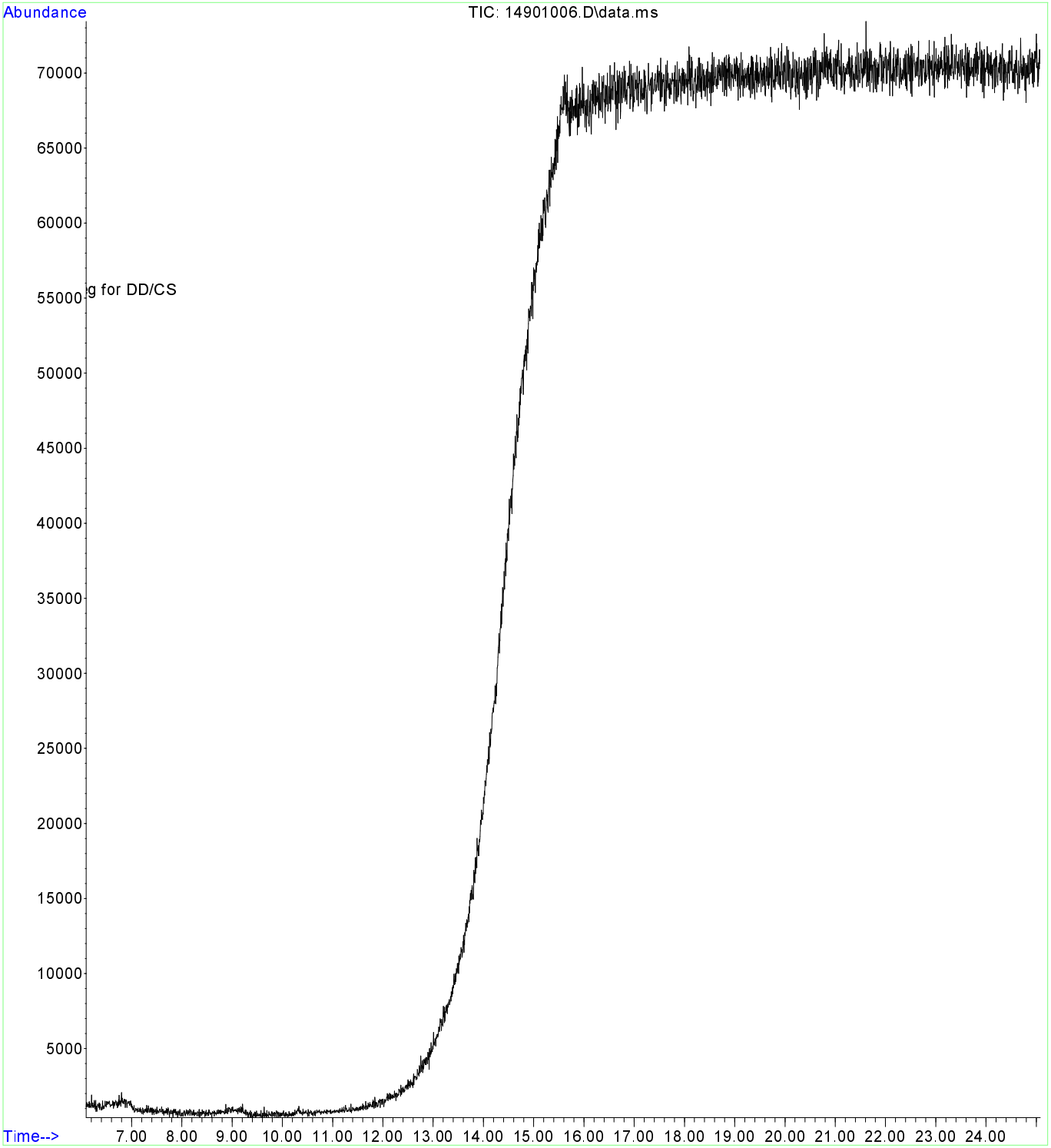




File :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
... Data\042225\14904004.D
Operator : DrugChem-HP\admin
Instrument : BCCL SD GCMS 3
Acquired : 22 Apr 2025 10:06 using AcqMethod DrugTest35.M
Sample Name: BLANK (C-19-0068) PRIOR TO CAYMAN GC/MS MIX 3 (R-24-060) 000002666
Misc Info : 000002666



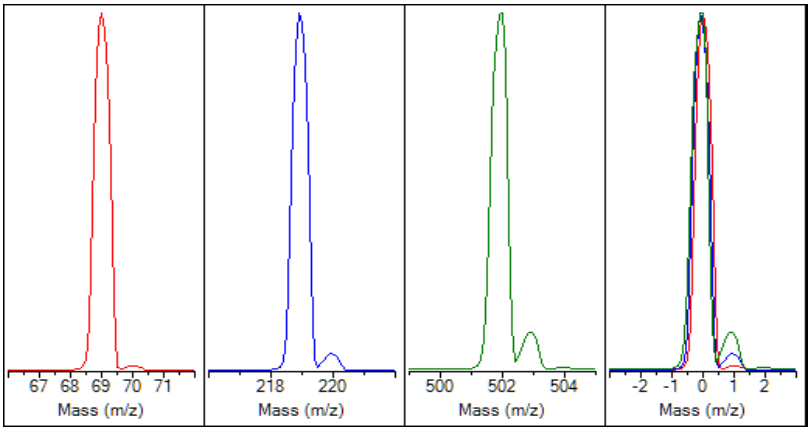
File :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
... Data\042225\14901006.D
Operator : DrugChem-HP\admin
Instrument : BCCL SD GCMS 3
Acquired : 22 Apr 2025 11:04 using AcqMethod DrugTest35.M
Sample Name: BLANK (C-19-0068) - INSTRUMENT READY 000002666
Misc Info : 000002666



Autotune - 5977

4/28/2025 11:15:57 AM (UTC-5:00) BCCL SD GCMS 3

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



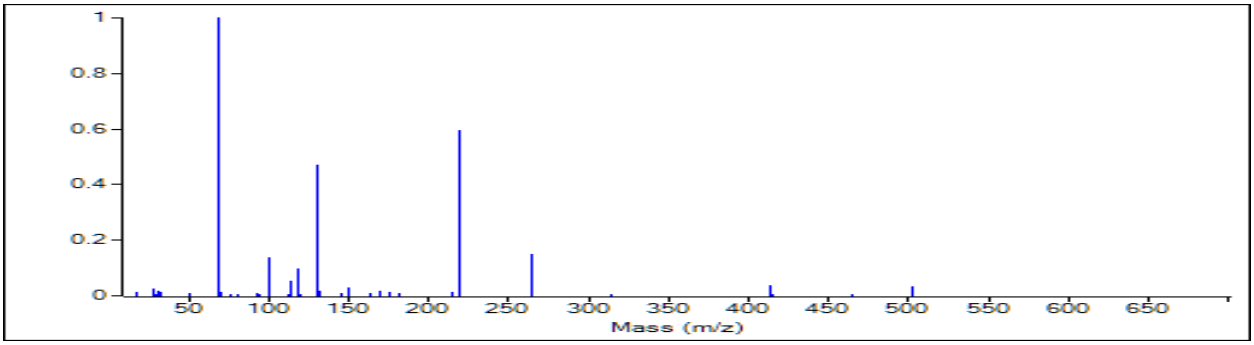
Ion Polarity	Pos	Mass Gain	-372
Emission	34.6	Mass Offset	-33
Electron Energy	70.0	Amu Gain	1671
Filament	2	Amu Offset	120.94
Repeller	34.90	Width219	-0.017
Ion Focus	75.5	DC Polarity	Pos
Entrance Lens	15.1	HED Enable	On
Ent Lens Offset	11.49	EM Volts	1817.6
Ion Body	0.00	Extractor Lens	0.00
		Scan Speed	3
		Averages	3
PFTBA	Open	Step Size	0.10

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	9.43e-06

Mass	Abund	Rel Abund	Pw50
69.00	506,636	100.0%	0.60
218.90	304,197	60.0%	0.60
502.00	15,262	3.0%	0.59

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	102	69.00	487,360	1,405,185



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	487,360	100.00	70.00	5,467	1.12
219.00	289,344	59.37	220.00	12,562	4.34
502.00	15,577	3.20	503.00	1,476	9.48

Air/Water Check: H20 ~1.2% N2 ~2.5% O2 ~1.0% CO2 ~0.2% N2/H20 ~203.5%

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 55735.761

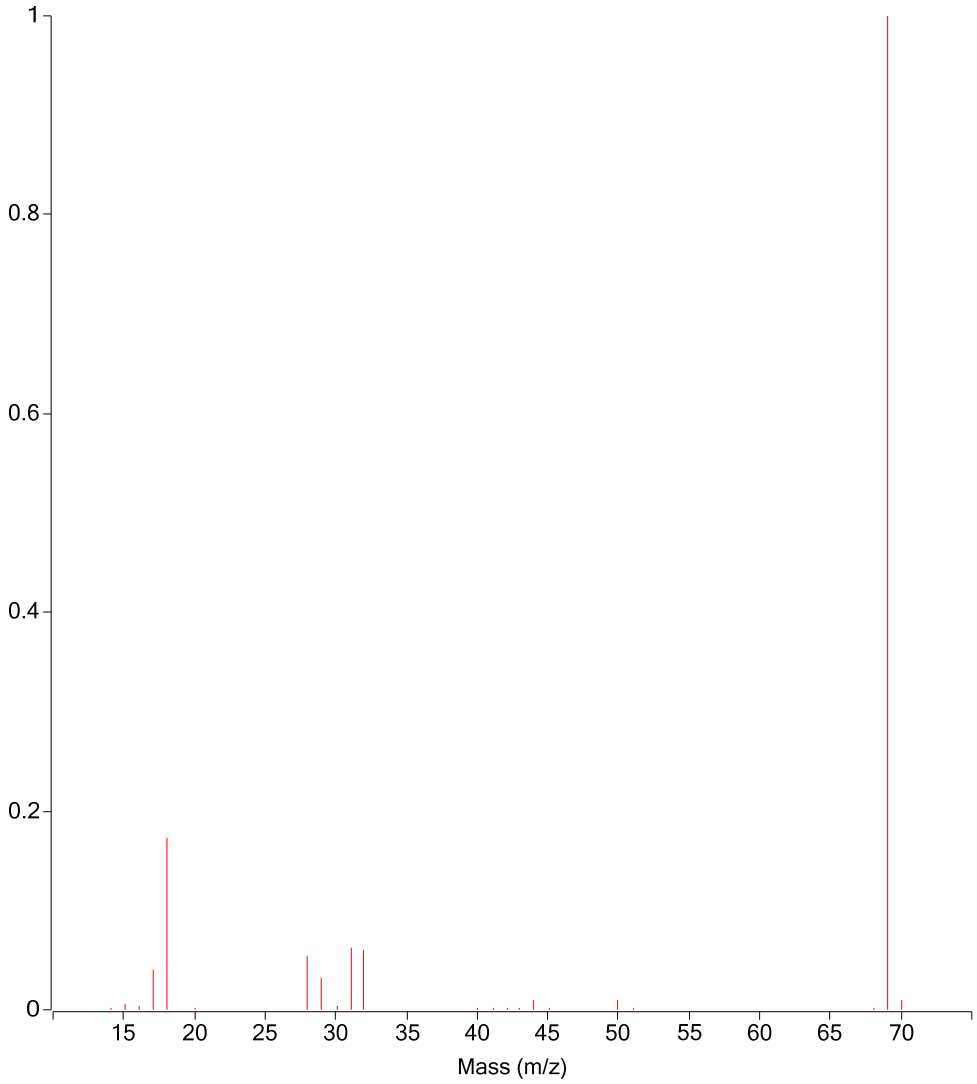
Repeller maximum 35 volts using ion 219; Gain Factor 0.5574

Mass Gain Values(Scan Speed): -366(3) -374(2) -372(1) -355(0) -355(FS1) -354(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	120.9	120.9	120.9	120.9	120.9	120.9	120.9
Entrance Lens Offset	11.5	11.5	11.5	11.5	11.5	11.5	11.5

597x Air and Water Check

Instrument: BCCL SD GCMS 3
Mon Apr 28 09:29:31 2025 D:\MassHunter\GCMS\1\5977\



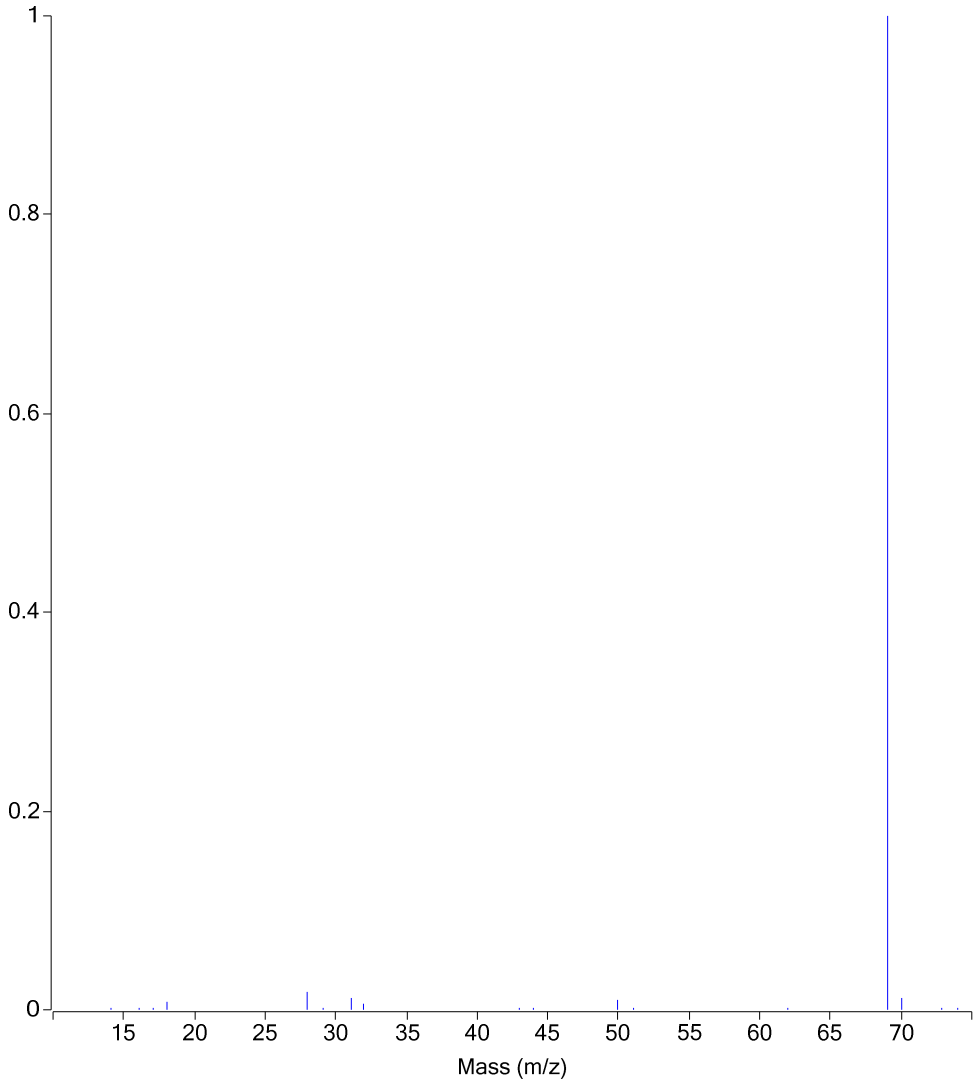
Current Params used: atune.u

Relative abundances:

18/69 =	17.31	Water%	(counts=120312)
28/69 =	5.37	Nitrogen%	(counts=37312)
32/69 =	5.96	Oxygen%	(counts=41408)
44/69 =	0.96	Carbon Dioxide%	(counts=6643)
28/18 =	31.01	Nitrogen/Water%	

597x Air and Water Check

Instrument: BCCL SD GCMS 3
Mon Apr 28 09:36:47 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: atune.u

Relative abundances:

18/69 =	0.81	Water%	(counts=896)
28/69 =	1.91	Nitrogen%	(counts=2120)
32/69 =	0.54	Oxygen%	(counts=604)
44/69 =	0.19	Carbon Dioxide%	(counts=209)
28/18 =	236.61	Nitrogen/Water%	

Instrument Name : BCCL SD GCMS 3
DC Polarity : Positive
Filament 2

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	502.98	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%)	10.04	OK
Ratio of 219 to 69 should be > 40% and is	59.20	OK
Ratio of 502 to 69 should be > 2.4% and is	3.14	OK
Mass 69 Precursor (<= 3%)	0.09	OK
Mass 219 Precursor (<= 6%)	0.23	OK
Mass 502 Precursor (<= 12%)	1.00	OK

597x Air and Water Check
Mon Apr 28 11:19:19 2025 Instrument: BCCL SD GCMS 3
D:\MASSHUNTER\GCMS\1\5977\atune.u US1329M205

Testing for a leak in the system

Ratio of 18 to 69 (<20%)	1.17	OK
Ratio of 28 to 69 (<10%)	2.73	OK
Electron Multiplier Voltage	1818	OK

Tune portion of System Verification passed.

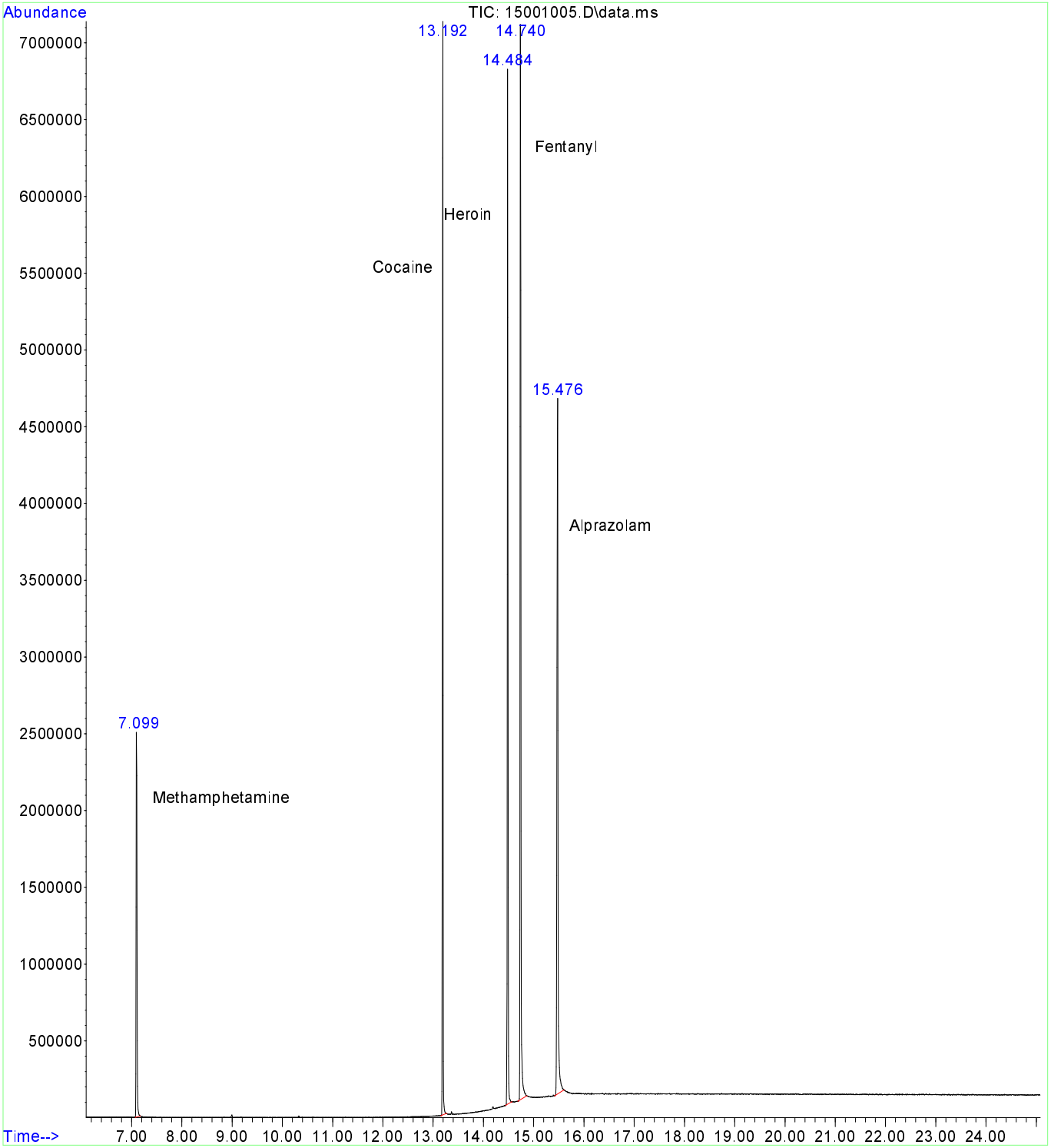
BCCL GC/MS #3
Retention Times for the Week of:

04/28/2025 - 05/04/2025

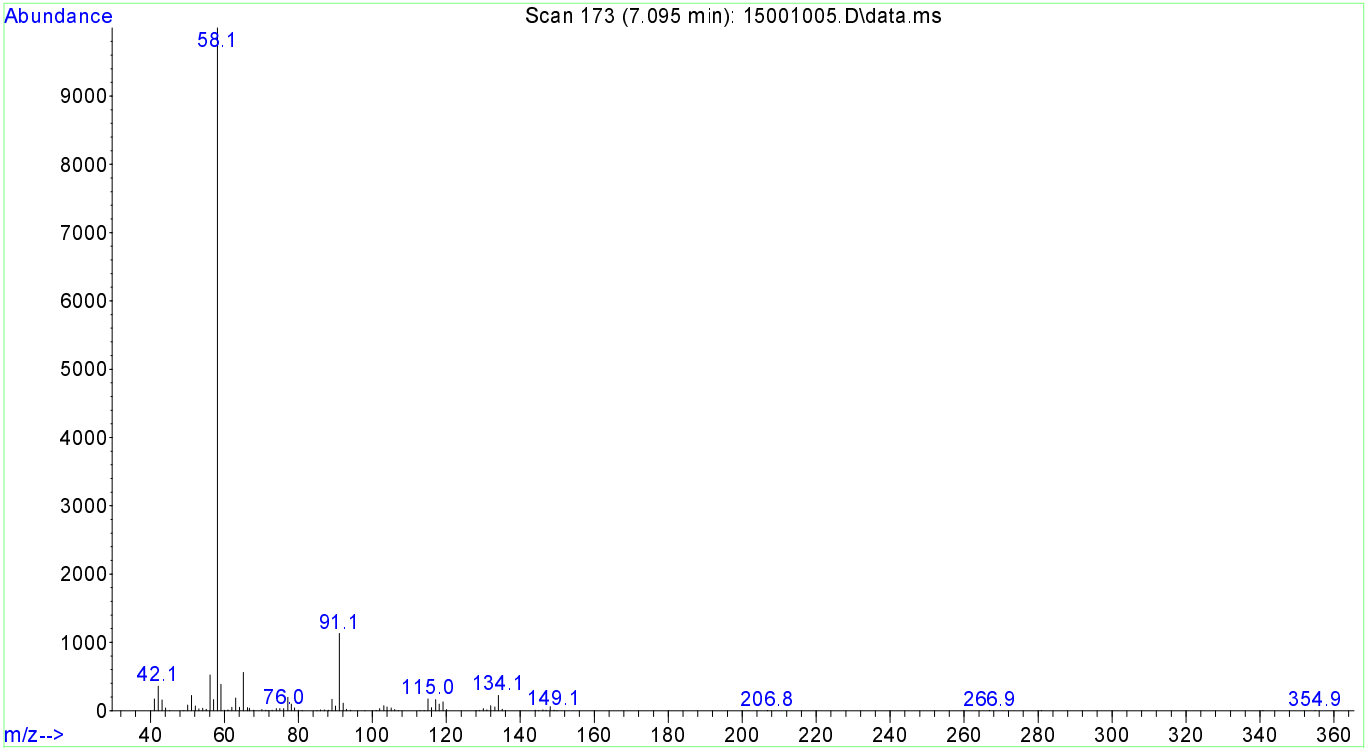
[X] **Tune: DS/DN 04/28/2025 - Autotune**

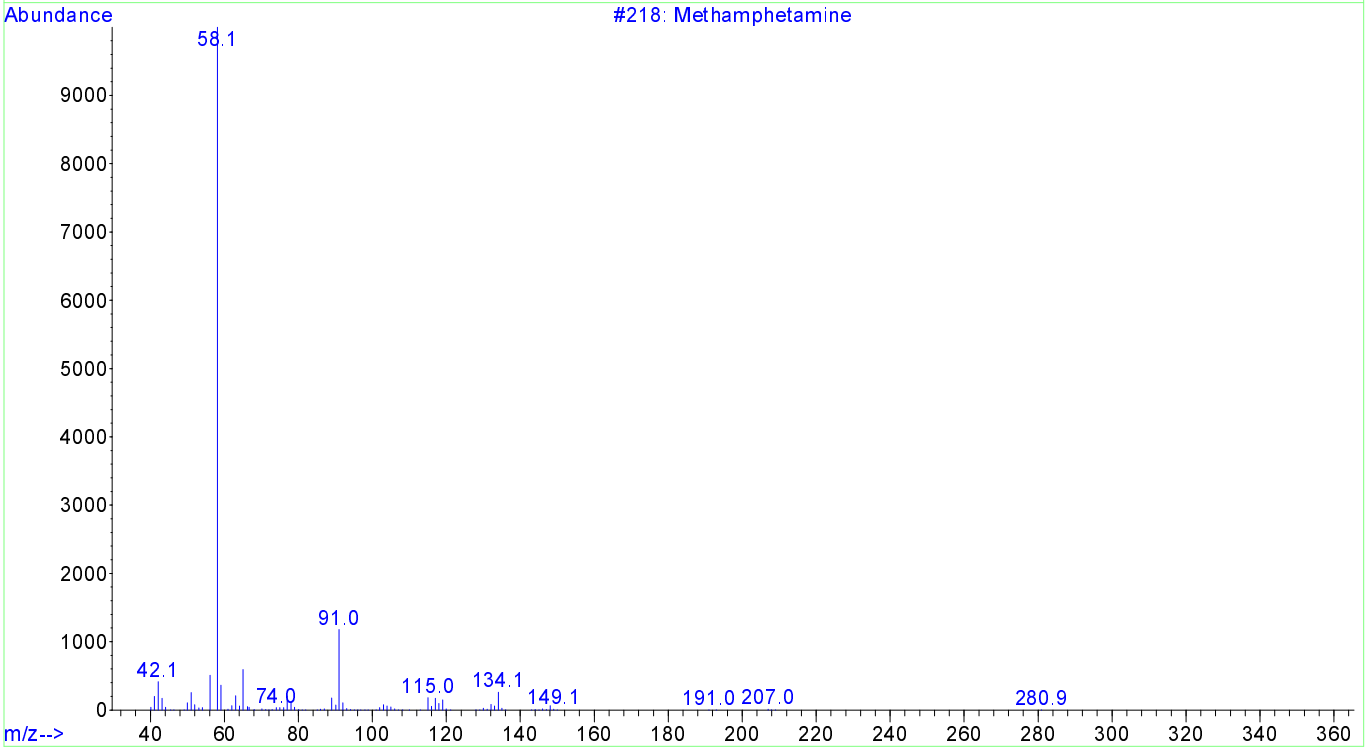
Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35	7.099	7.028	7.169
Cocaine	R-24-060	DrugTest35	13.192	13.060	13.323
Heroin	R-24-060	DrugTest35	14.484	14.339	14.628
Fentanyl	R-24-060	DrugTest35	14.740	14.592	14.887
Alprazolam	R-24-060	DrugTest35	15.476	15.321	15.630

```
File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\042825\15001005.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 28 Apr 2025  14:12     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                    000002667
Misc Info  :                                                  000002667
```

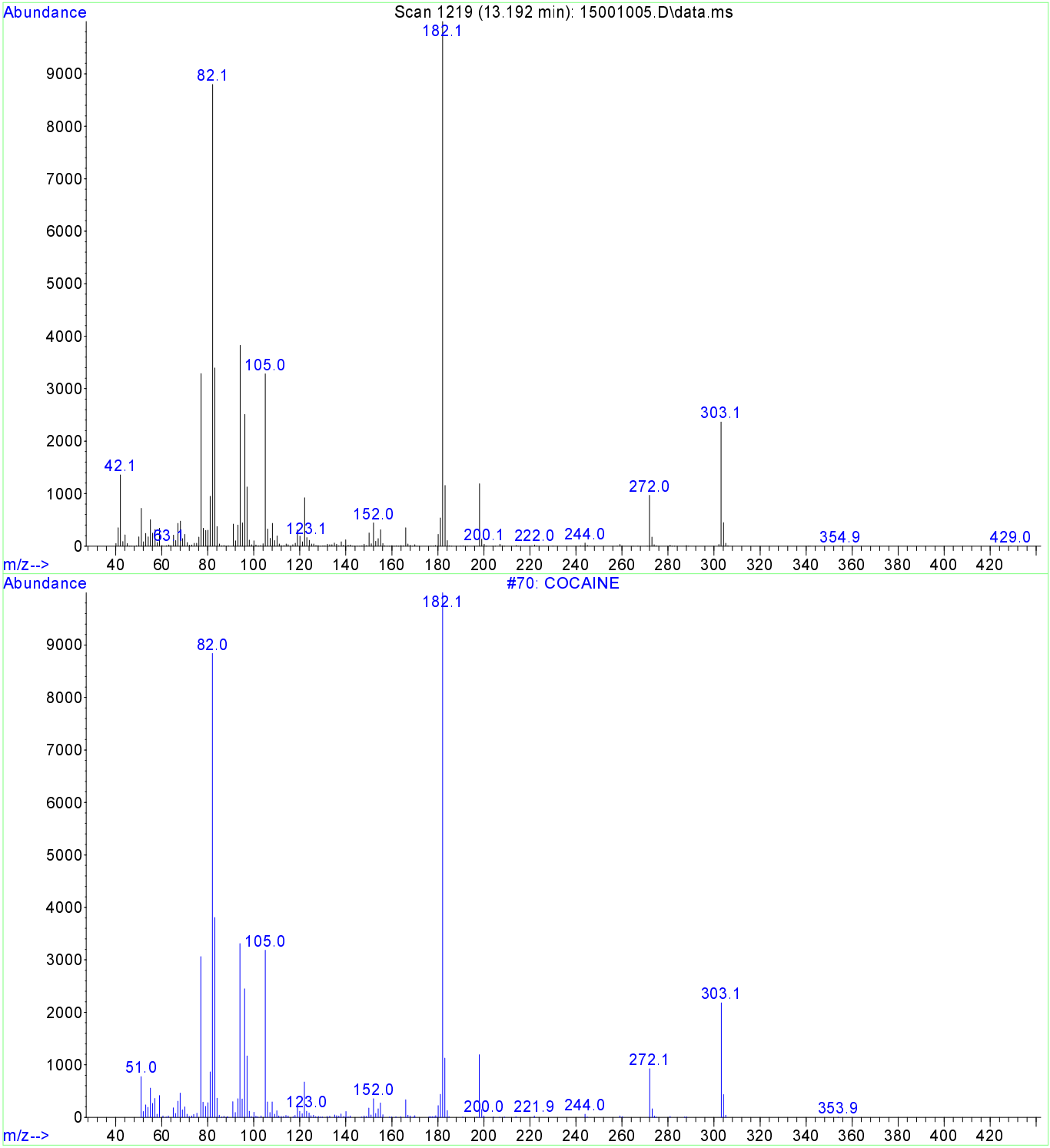


File :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
... Data\042825\15001005.D
Operator : DrugChem-HP\admin
Instrument : BCCL SD GCMS 3
Acquired : 28 Apr 2025 14:12 using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002667
Misc Info : 000002667

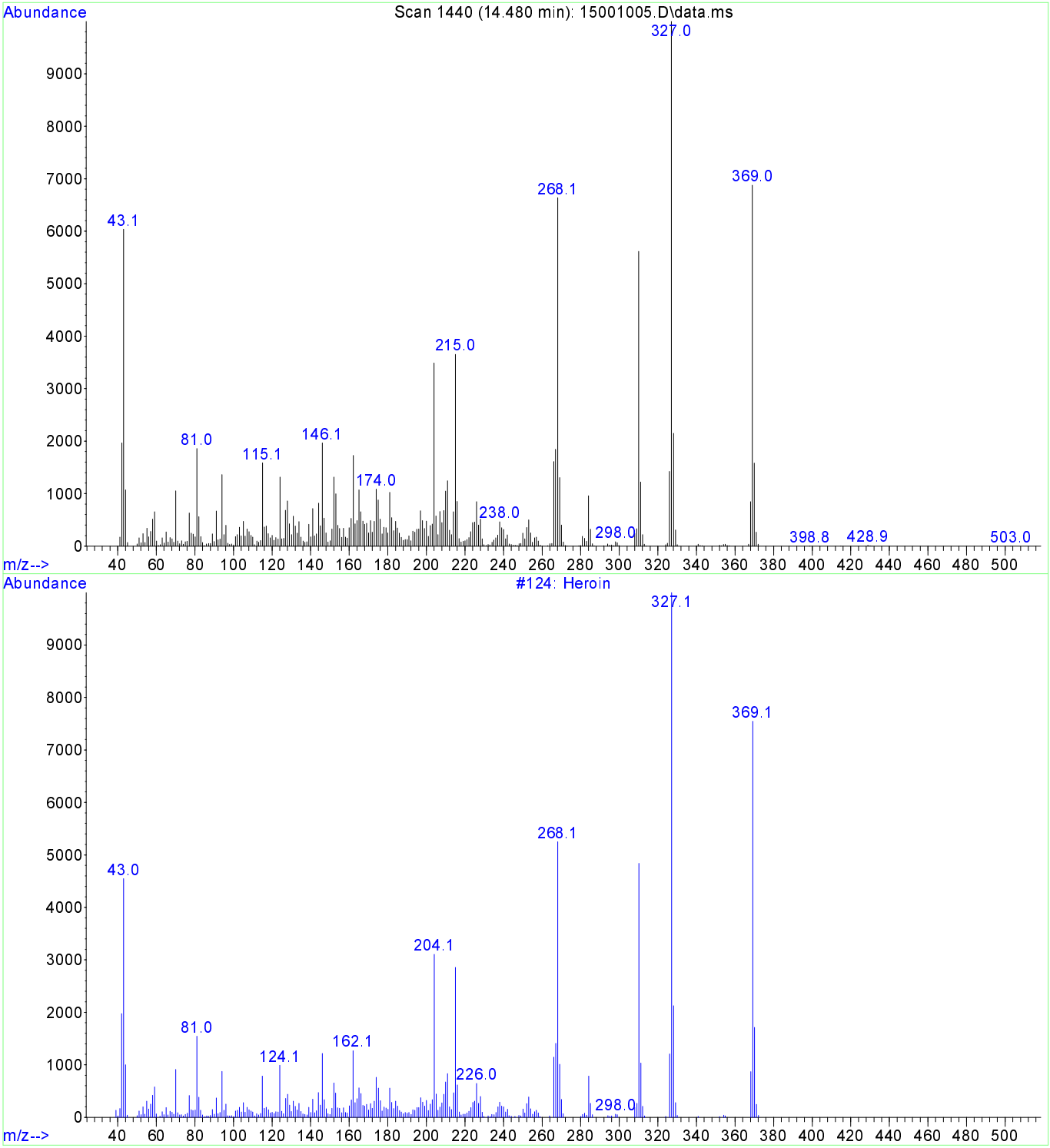




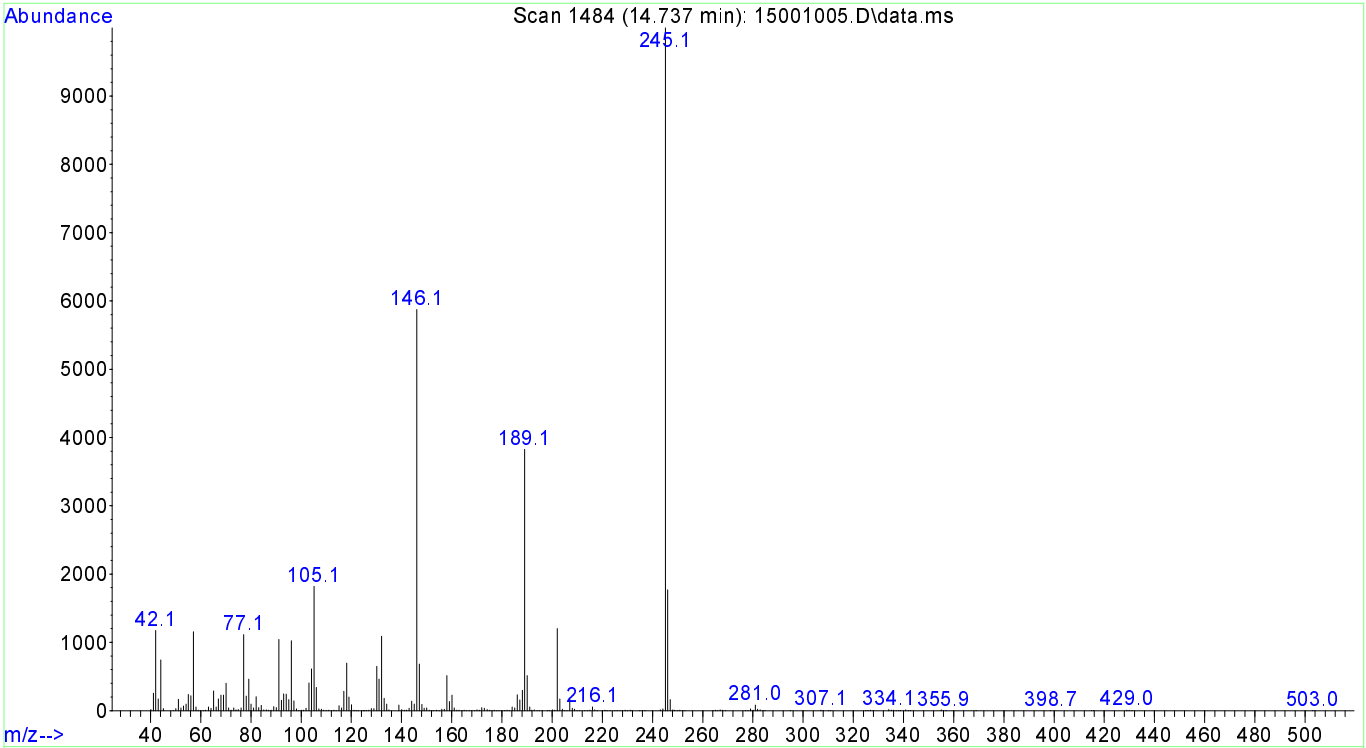
File :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
... Data\042825\15001005.D
Operator : DrugChem-HP\admin
Instrument : BCCL SD GCMS 3
Acquired : 28 Apr 2025 14:12 using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002667
Misc Info : 000002667



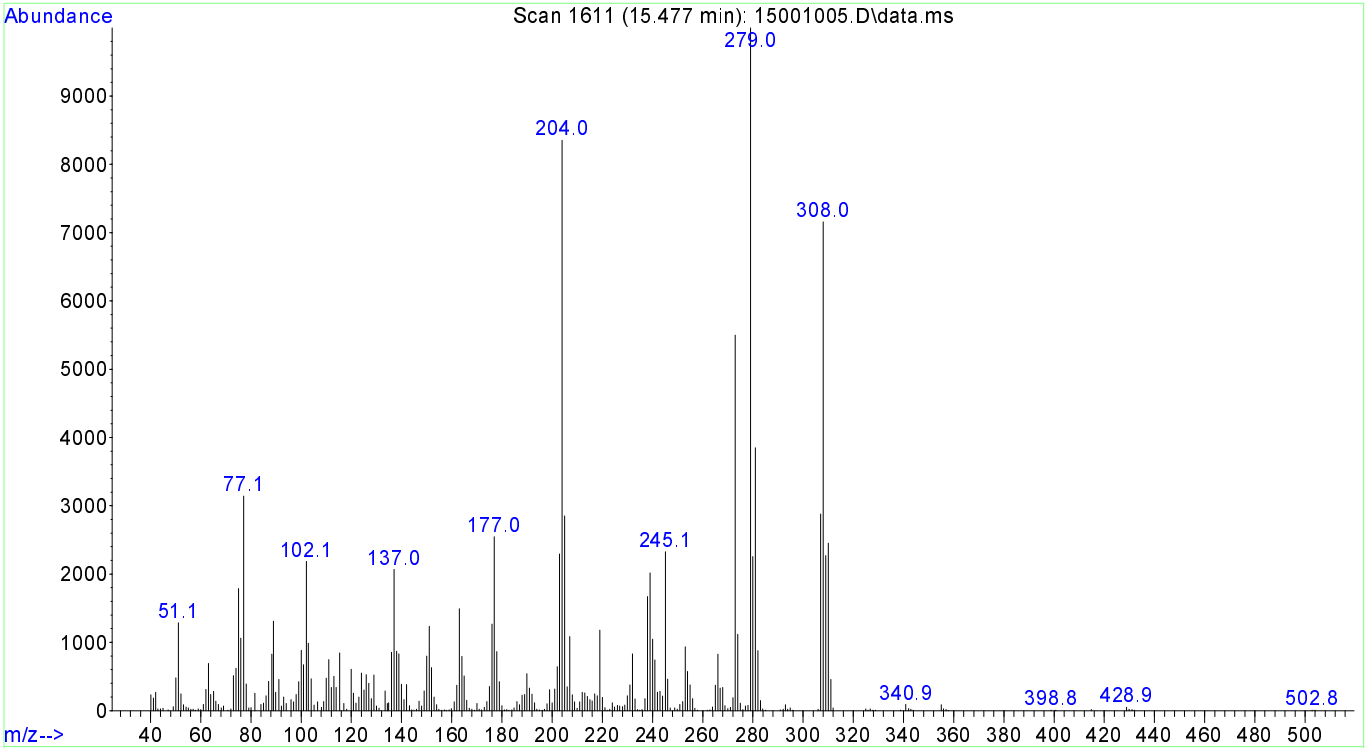
```
File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\042825\15001005.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 28 Apr 2025  14:12     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                    000002667
Misc Info  :                                                  000002667
```

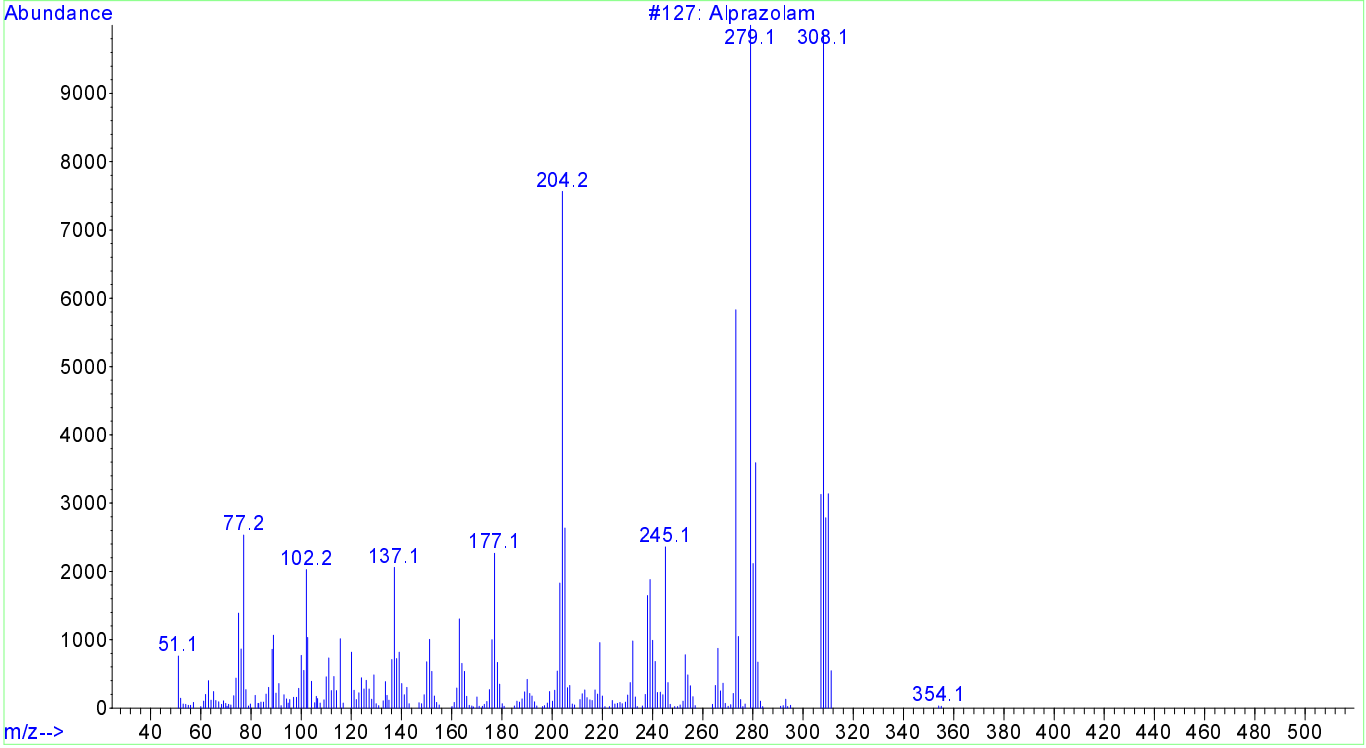


```
File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\042825\15001005.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 28 Apr 2025  14:12     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                    000002667
Misc Info  :                                                  000002667
```

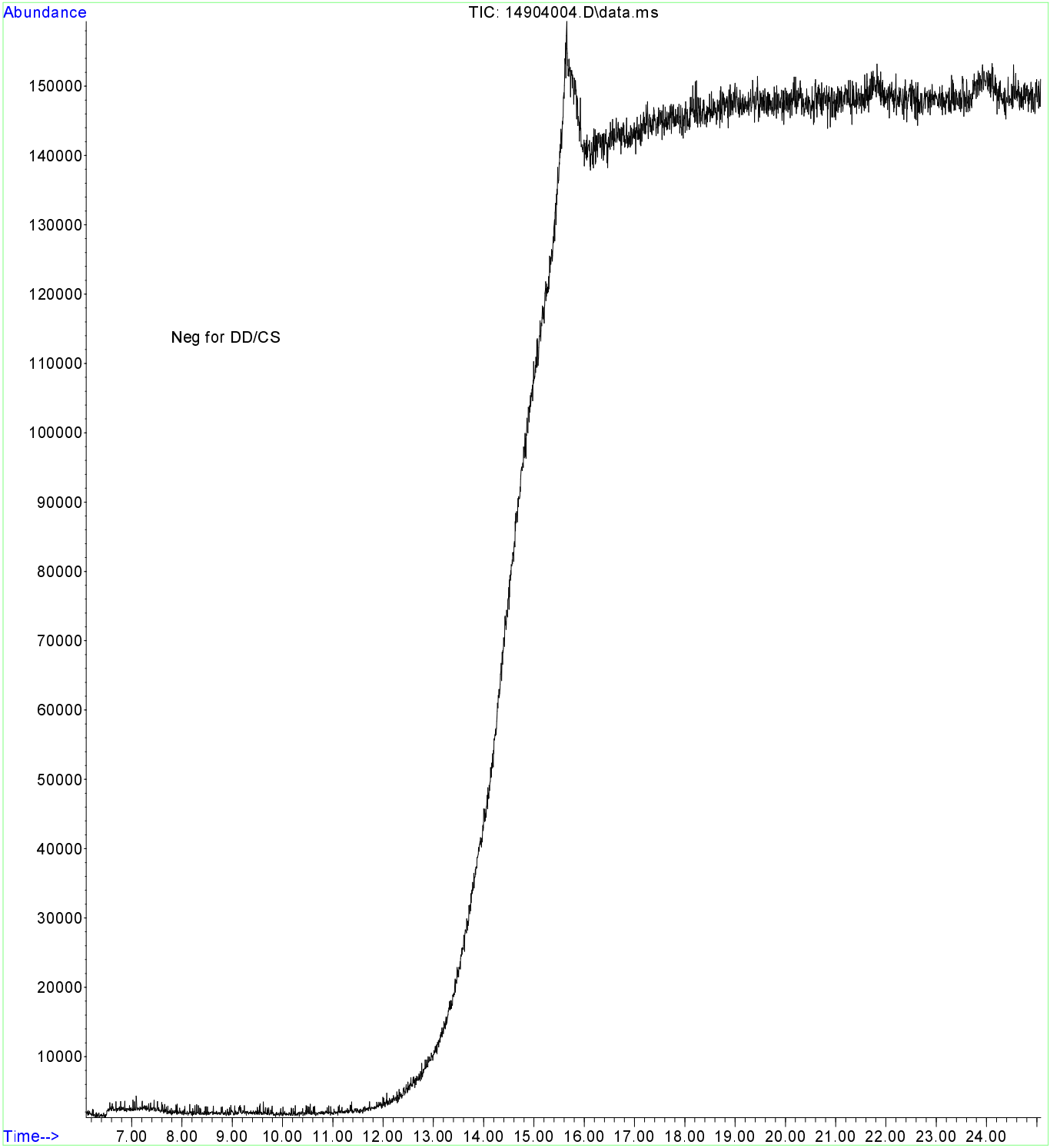


File :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
... Data\042825\15001005.D
Operator : DrugChem-HP\admin
Instrument : BCCL SD GCMS 3
Acquired : 28 Apr 2025 14:12 using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002667
Misc Info : 000002667





File :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
... Data\042825\14904004.D
Operator : DrugChem-HP\admin
Instrument : BCCL SD GCMS 3
Acquired : 28 Apr 2025 13:44 using AcqMethod DrugTest35.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\042825\14901006.D
Operator : DrugChem-HP\admin
Instrument : BCCL SD GCMS 3
Acquired : 28 Apr 2025 14:41 using AcqMethod DrugTest35.M
Sample Name: BLANK (C-19-0068) - INSTRUMENT READY 000002666
Misc Info : 000002666

