Brazoria County Crime Lab

Seized Drugs Section

GC-MS Maintenance Log

Instrument: GCMS-3 **onth Year:** August 2025

Entry Number	te	He Tank Pressure	Autotune	Septum Change	Wash Vials Filled	iner Change	Gold Seal Replaced	Column Cut	Computer Restarted	Maintenance/ PM	Analyst/ Technician	Com ents	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

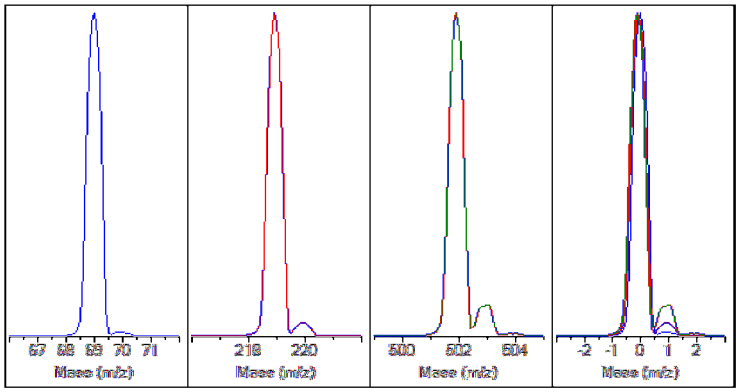
Signature Derek Sanders

Date 10/02/2025

Autotune - 5977

8/4/2025 6:40:13 AM (UTC-5:00) BCCL SD GCMS 3

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



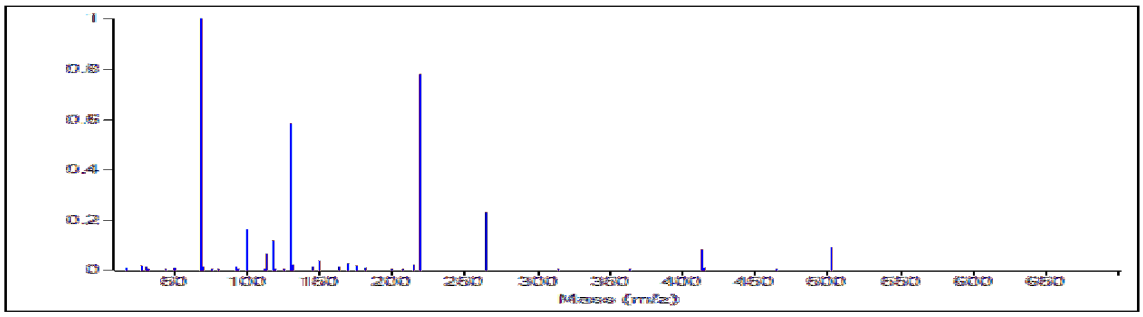
Ion Polarity	Pos	Mass Gain	-365
Emission	34.6	Mass Offset	-35
Electron Energy	70.0	Amu Gain	1668
Filament	2	Amu Offset	121.69
Repeller	30.12	Width219	-0.018
Ion Focus	90.3	DC Polarity	Pos
Entrance Lens	20.2	HED Enable	On
Ent Lens Offset	12.19	EM Volts	1876.4
Ion Body	0.00	Extractor Lens	0.00
		Scan Speed	3
		Averages	3
PFTBA	Open	Step Size	0.10

Mass	Abund	Rel Abund	Pw50
69.00	459,133	100.0%	0.60
218.90	357,300	77.8%	0.60
501.90	39,954	8.7%	0.60

Temperatures and Pressures

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

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	114	69.00	439,616	1,534,858



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	439,616	100.00	70.00	4,891	1.11
219.00	341,952	77.78	220.00	15,125	4.42
502.00	38,008	8.65	503.00	3,534	9.30

Air/Water Check: H20 ~0.7% N2 ~1.6% O2 ~0.4% CO2 ~0.2% N2/H20 ~232.8%

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 88412.788

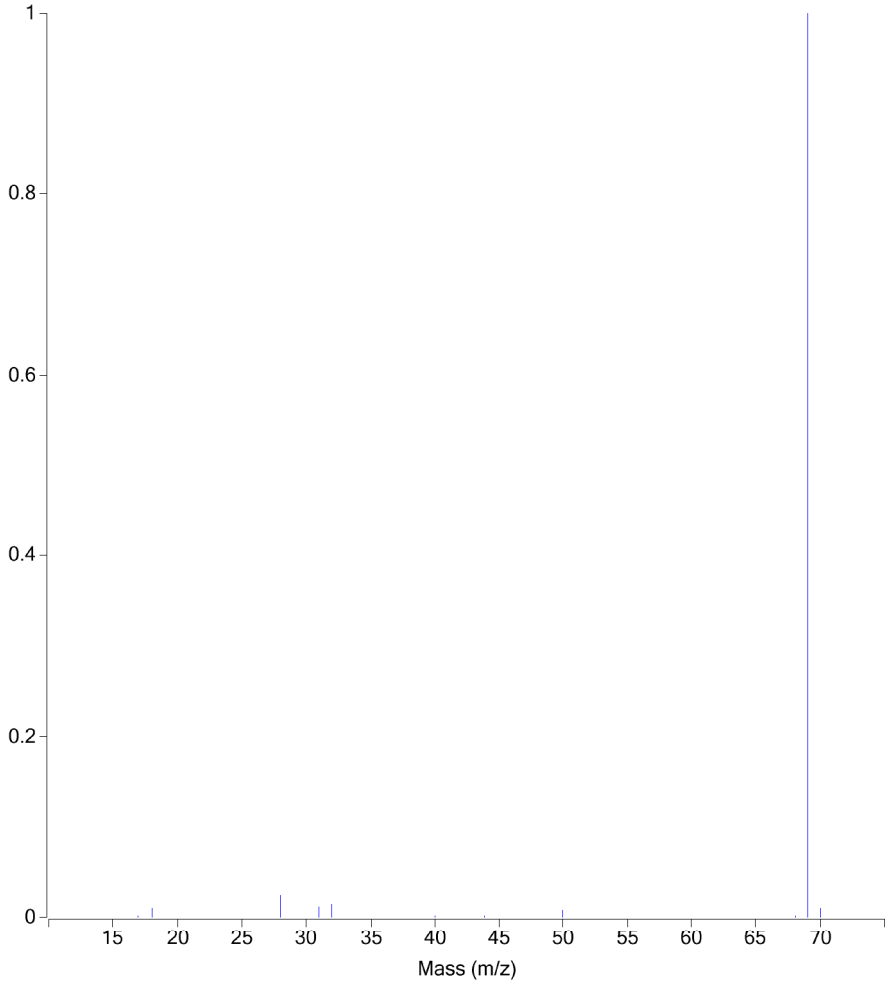
Repeller maximum 35 volts using ion 219; Gain Factor 0.8841

Mass Gain Values(Scan Speed): -361(3) -354(2) -361(1) -345(0) -292(FS1) -326(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	121.7	121.7	121.7	121.7	121.7	121.7	121.7
Entrance Lens Offset	12.2	12.2	12.2	12.2	12.2	12.2	12.2

597x Air and Water Check

Instrument: BCCL SD GCMS 3
Mon Aug 04 06:33:05 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: atune.u

Relative abundances:

18/69 =	0.98	Water%	(counts=10167)
28/69 =	2.50	Nitrogen%	(counts=26032)
32/69 =	1.36	Oxygen%	(counts=14162)
44/69 =	0.19	Carbon Dioxide%	(counts=2002)
28/18 =	256.04	Nitrogen/Water%	

System Verification - Tune (Detector Optimization) Portion

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%)	10.34	OK
Ratio of 219 to 69 should be > 40% and is	80.19	OK
Ratio of 502 to 69 should be > 2.4% and is	9.01	OK
Mass 69 Precursor (<= 3%)	0.16	OK
Mass 219 Precursor (<= 6%)	0.34	OK
Mass 502 Precursor (<= 12%)	0.72	OK

597x Air and Water Check

Mon Aug 04 06:54:51 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%)	0.60	OK
Ratio of 28 to 69 (<10%)	1.57	OK
Electron Multiplier Voltage	1876	OK

Tune portion of System Verification passed.

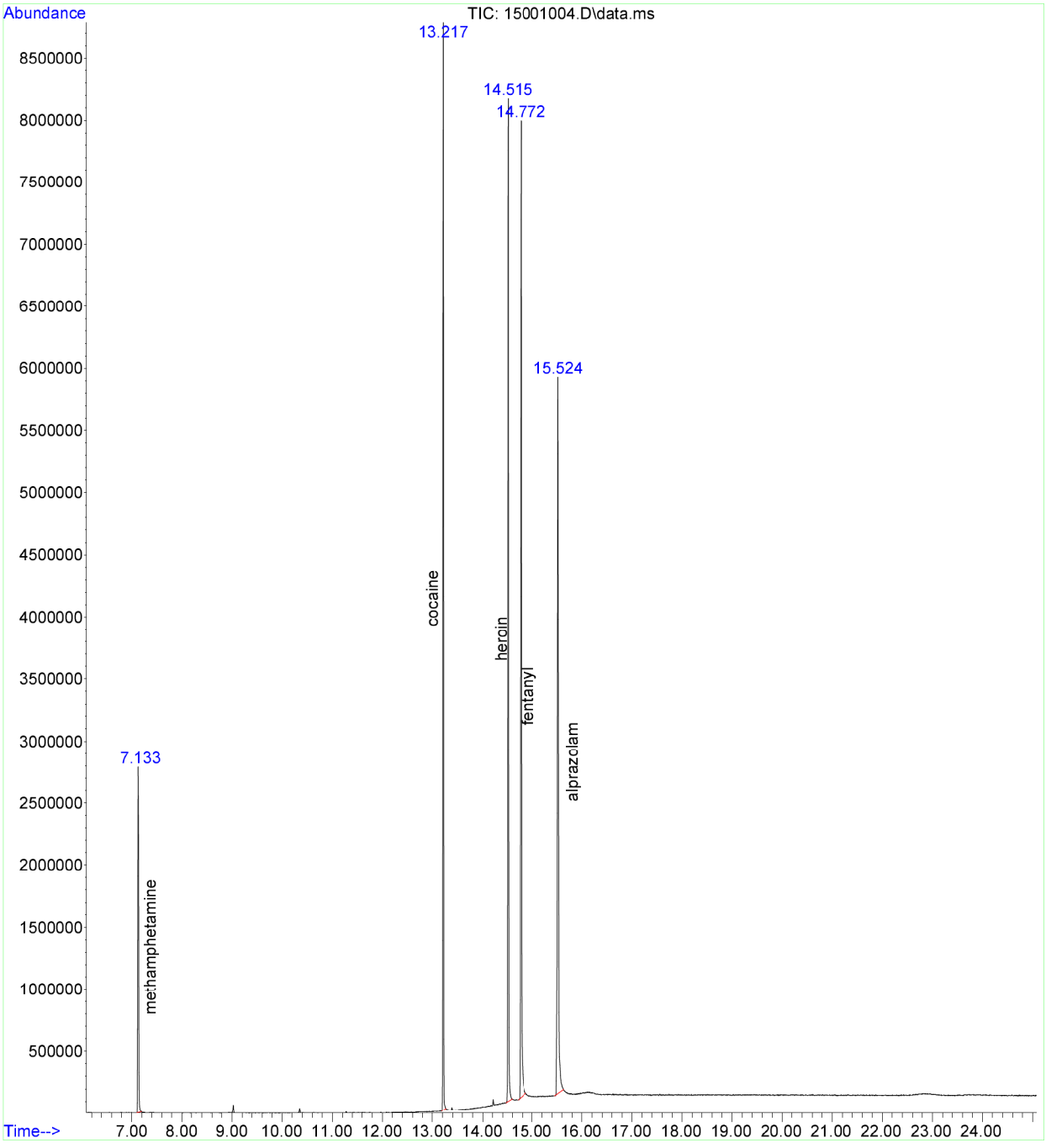
BCCL GC/MS #3
Retention Times for the Week of:

08/04/2025 - 08/10/2025

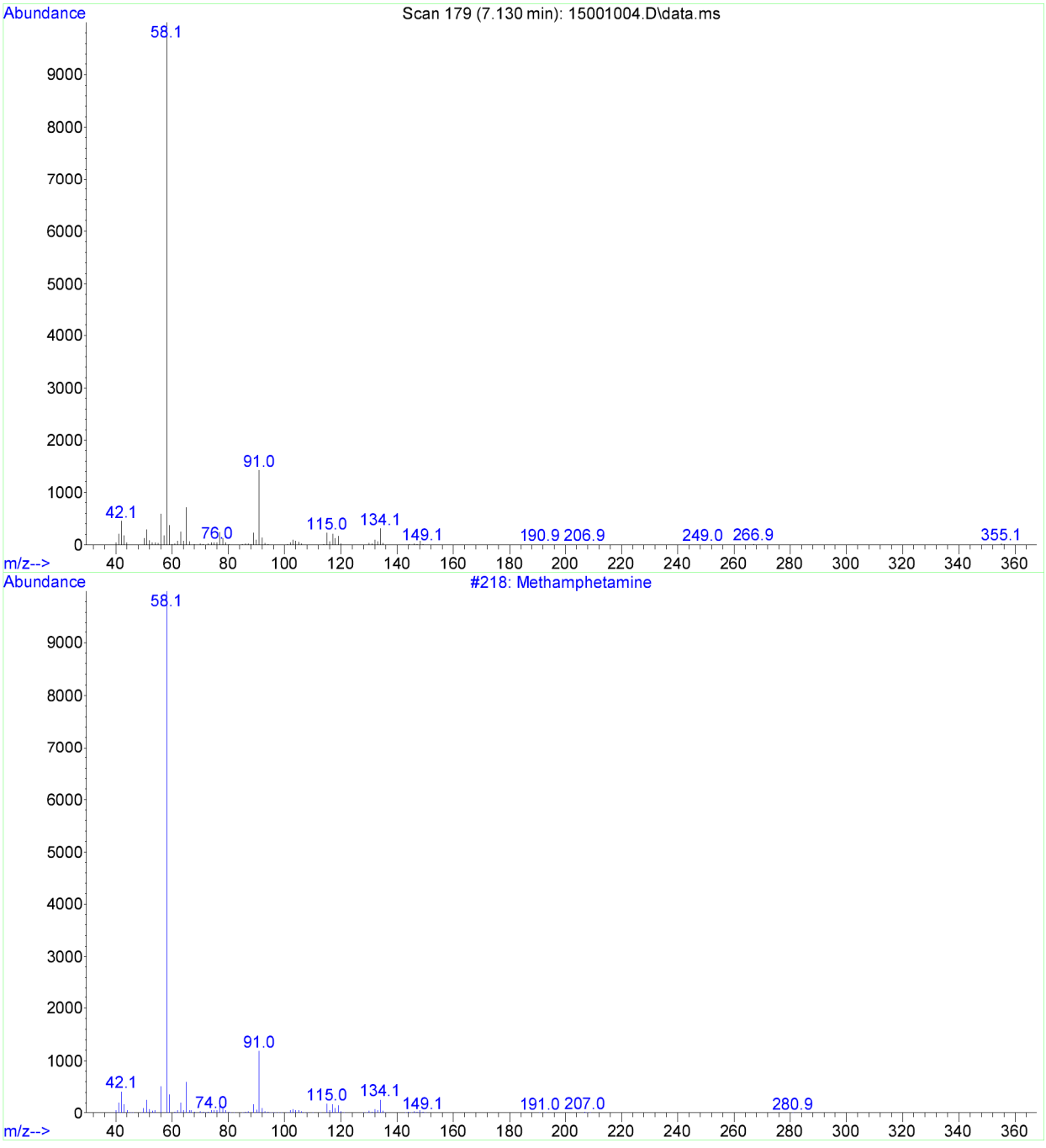
[X] **Tune: KB 08/04/2025 - Autotune**

Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35	7.133	7.061	7.204
Cocaine	R-24-060	DrugTest35	13.217	13.084	13.349
Heroin	R-24-060	DrugTest35	14.515	14.369	14.660
Fentanyl	R-24-060	DrugTest35	14.772	14.624	14.919
Alprazolam	R-24-060	DrugTest35	15.524	15.368	15.679

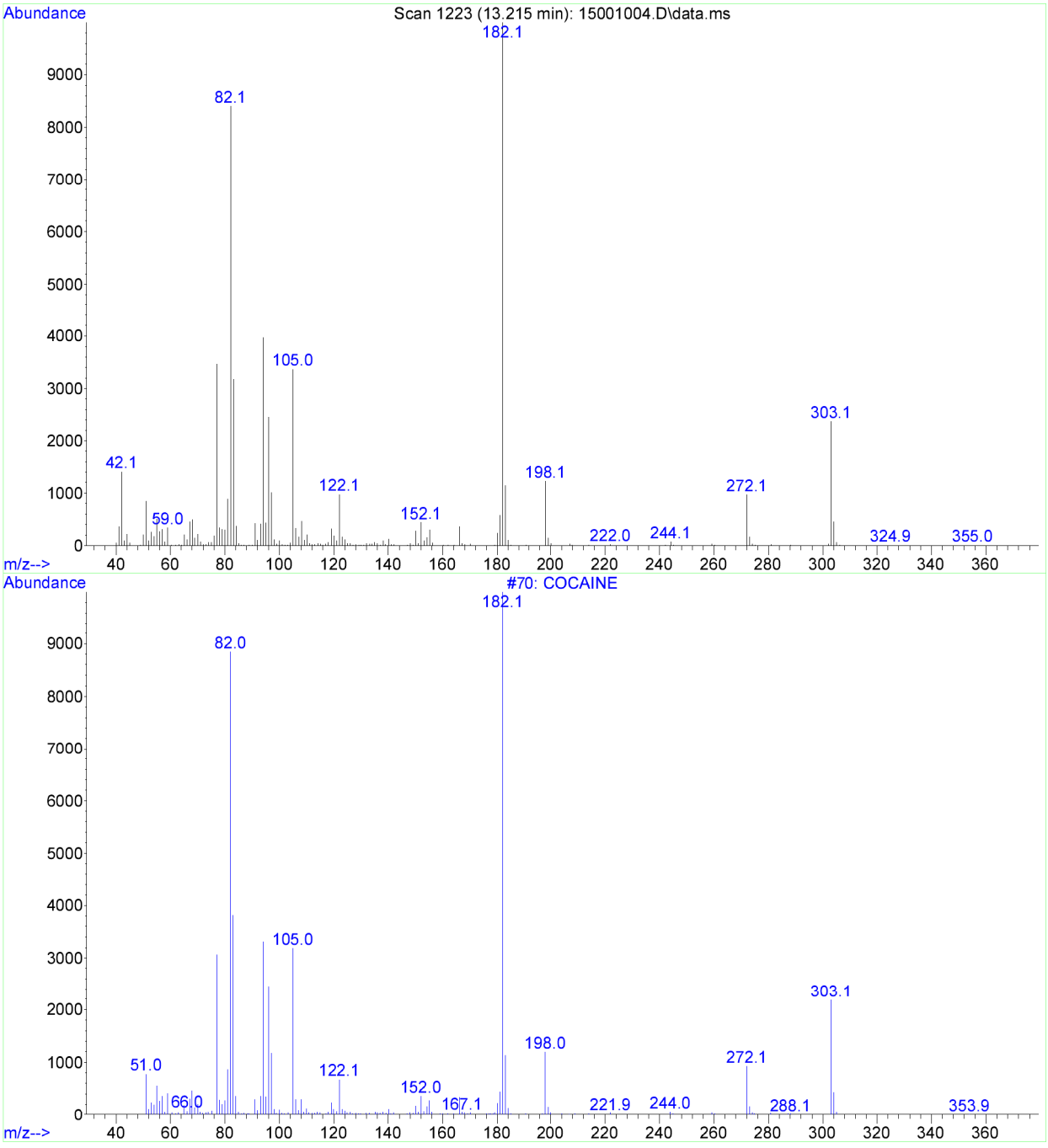
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Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 04 Aug 2025  08:15     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
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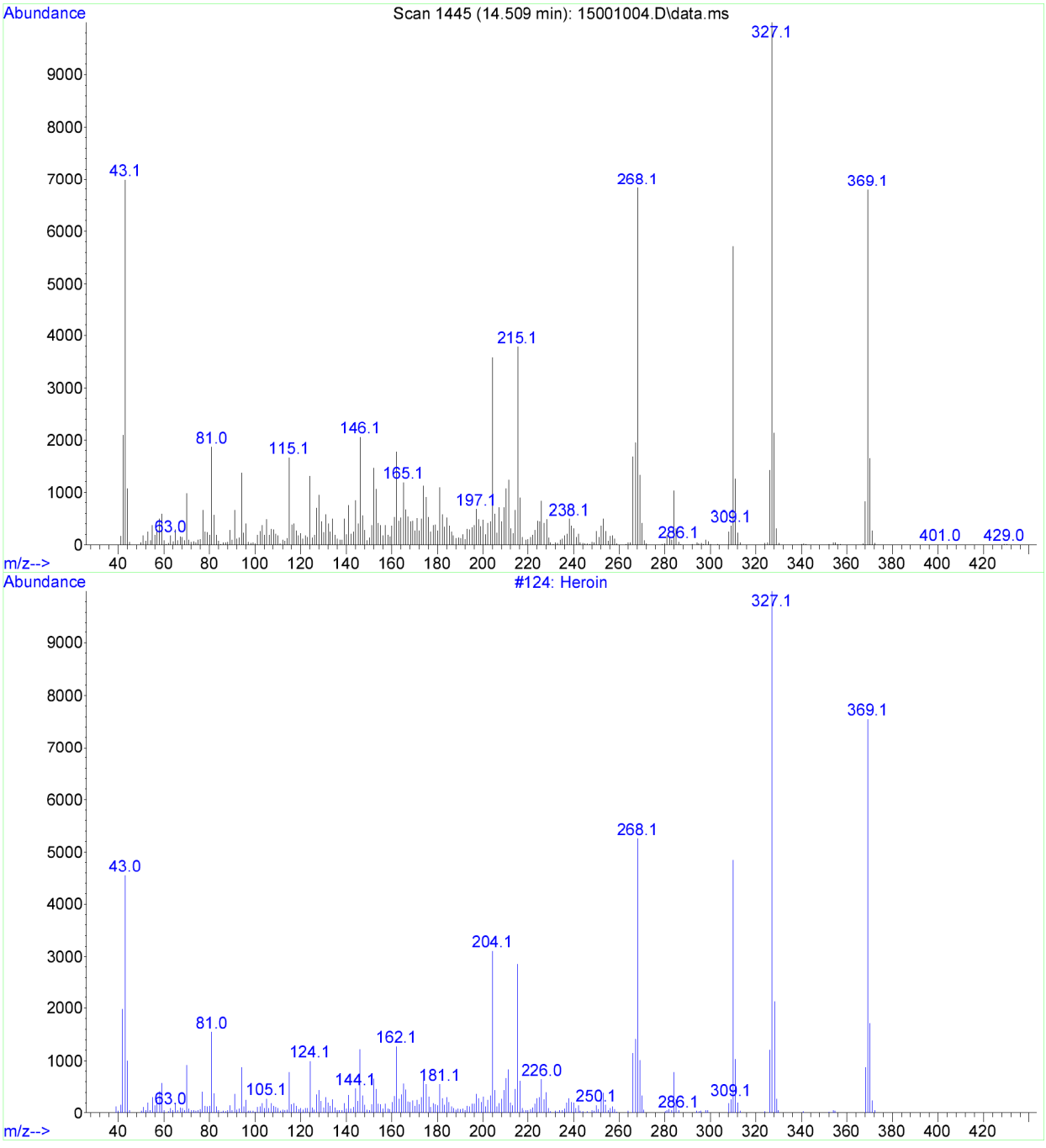
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Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 04 Aug 2025  08:15     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
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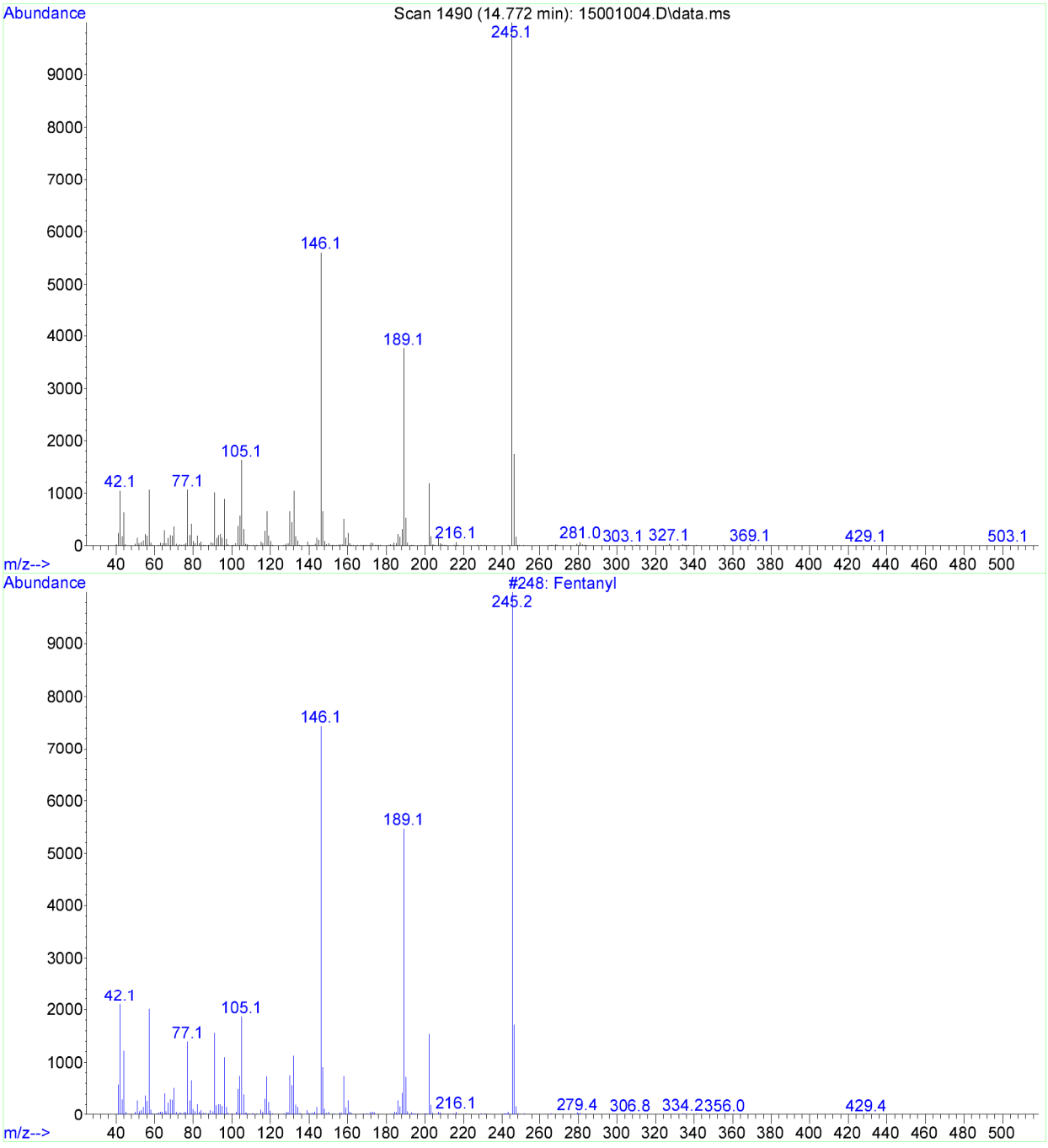
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Instrument :   BCCL SD GCMS 3
Acquired   : 04 Aug 2025  08:15     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
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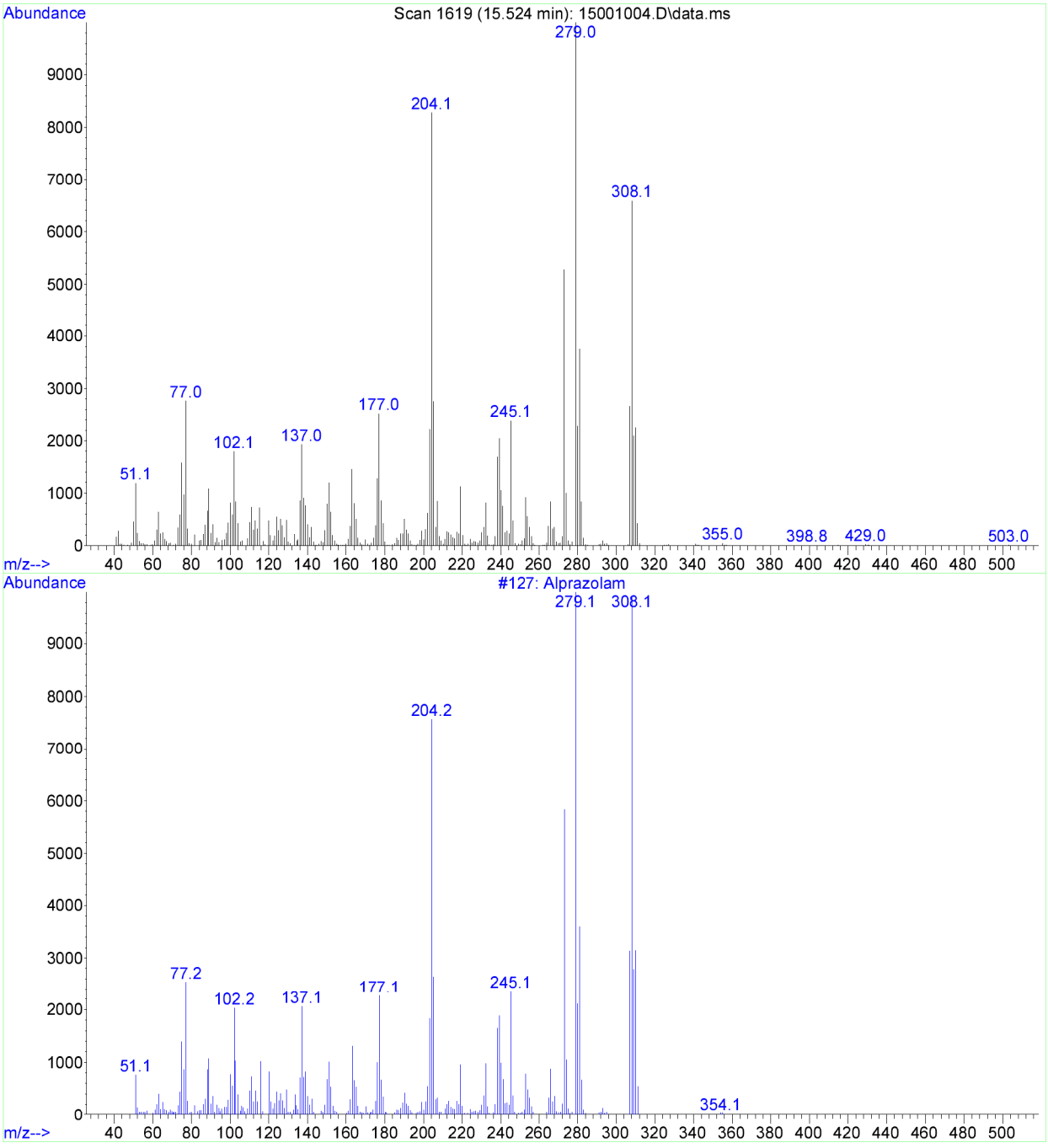
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Instrument :   BCCL SD GCMS 3
Acquired   : 04 Aug 2025  08:15     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
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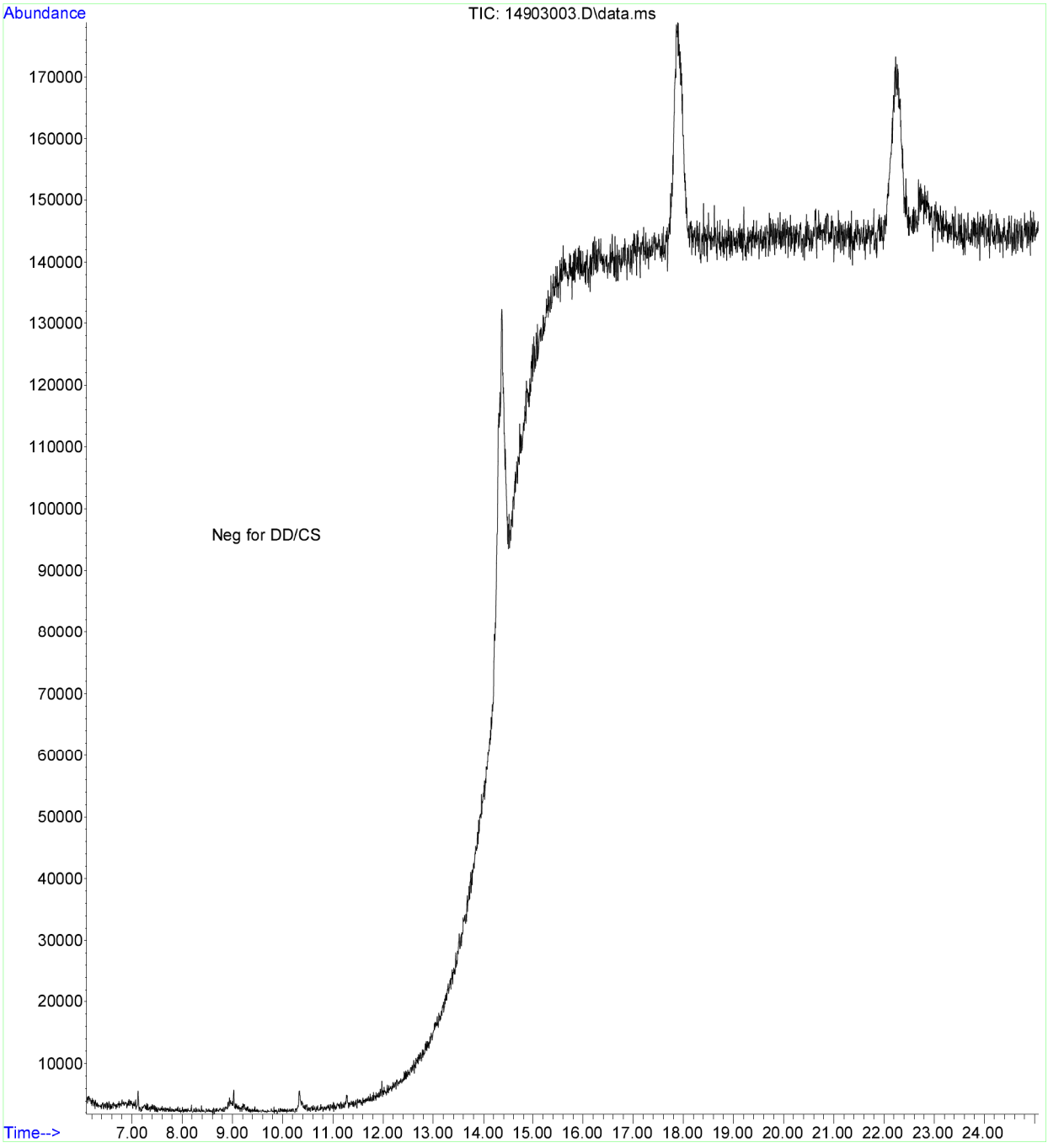
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Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 04 Aug 2025  08:15     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
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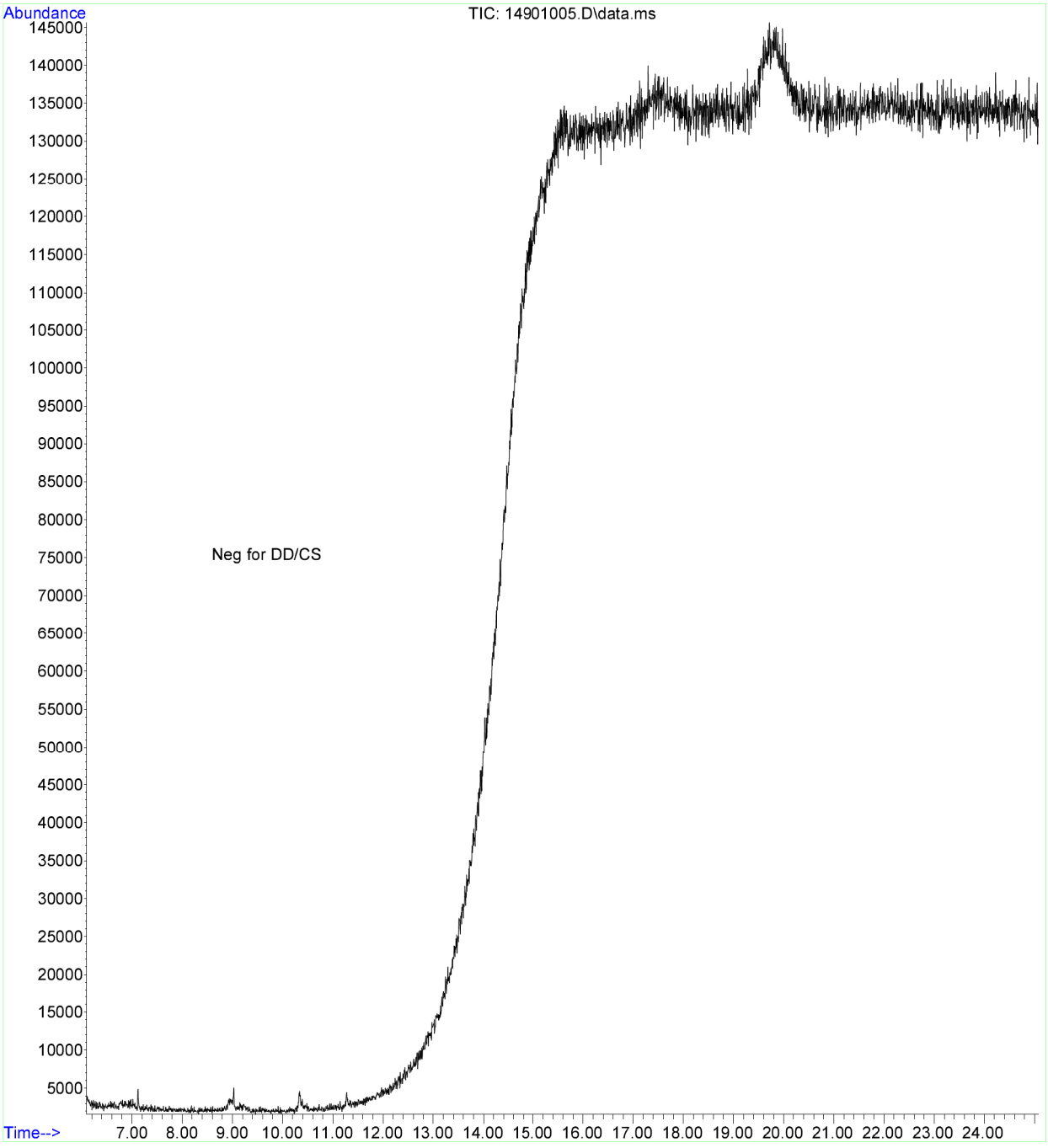
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Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 04 Aug 2025  08:15     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
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Operator : DrugChem-HP\admin
Instrument : BCCL SD GCMS 3
Acquired : 04 Aug 2025 07:47 using AcqMethod DrugTest35.M
Sample Name: BLANK (C-19-0068) PRIOR TO CAYMAN GC/MS MIX 3 (R-24-060) 000002666
Misc Info : 000002666



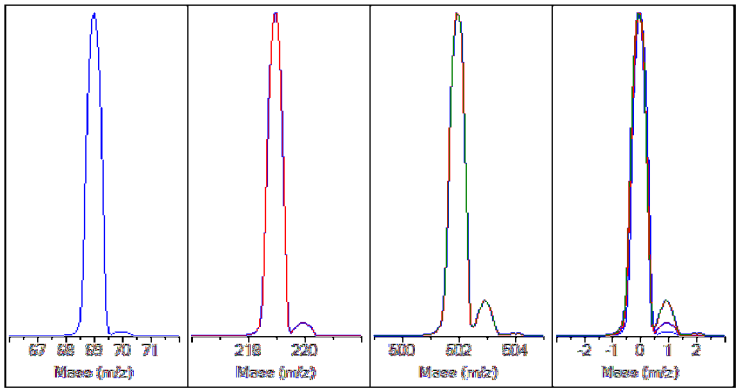
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Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 04 Aug 2025  08:44     using AcqMethod DrugTest35.M
Sample Name: BLANK (C-19-0068) - INSTRUMENT READY          000002666
Misc Info  :                                               000002666
```



Autotune - 5977

8/11/2025 8:45:56 AM (UTC-5:00) BCCL SD GCMS 3

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



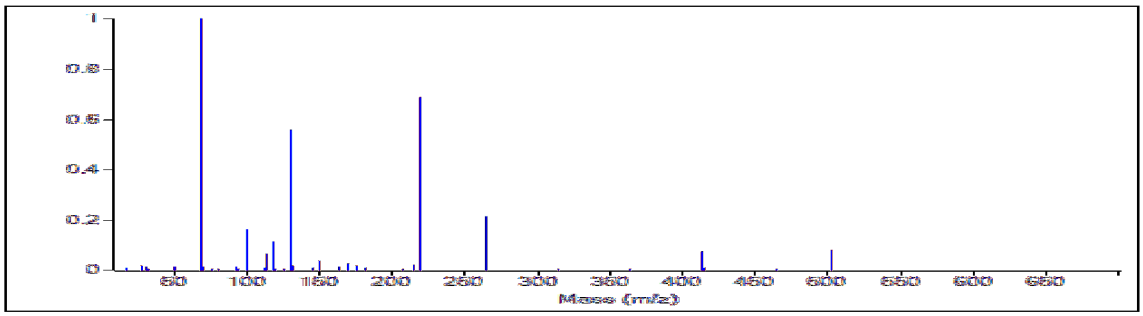
Ion Polarity	Pos	Mass Gain	-361
Emission	34.6	Mass Offset	-35
Electron Energy	70.0	Amu Gain	1671
Filament	2	Amu Offset	121.06
Repeller	32.31	Width219	-0.020
Ion Focus	90.3	DC Polarity	Pos
Entrance Lens	17.6	HED Enable	On
Ent Lens Offset	13.40	EM Volts	1876.4
Ion Body	0.00	Extractor Lens	0.00
		Scan Speed	3
		Averages	3
PFTBA	Open	Step Size	0.10

Mass	Abund	Rel Abund	Pw50
69.00	408,296	100.0%	0.61
219.00	287,818	70.5%	0.60
501.90	31,815	7.8%	0.60

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	8.81e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	98	69.00	394,944	1,312,257



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	394,944	100.00	70.00	4,616	1.17
219.00	271,680	68.79	220.00	12,114	4.46
502.00	30,056	7.61	503.00	3,349	11.14

Air/Water Check: H20 ~0.7% N2 ~1.7% O2 ~0.4% CO2 ~0.2% N2/H20 ~229.1%

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 90545.897

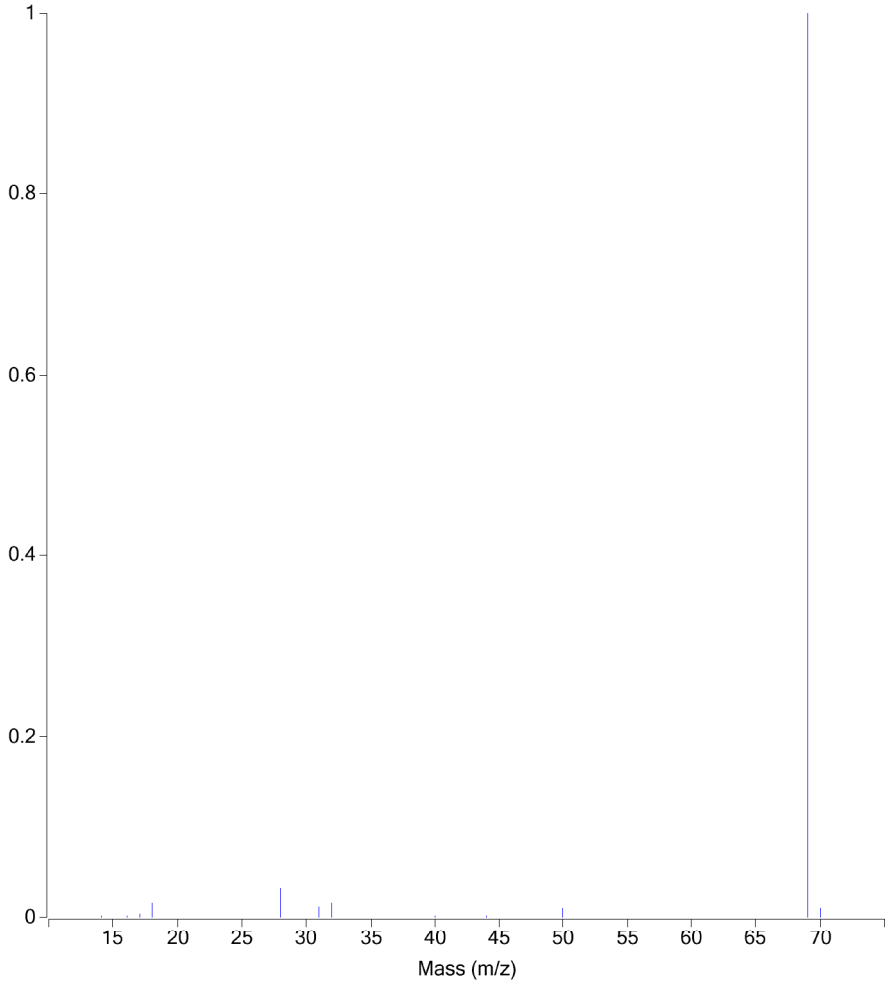
Repeller maximum 35 volts using ion 219; Gain Factor 0.9055

Mass Gain Values(Scan Speed): -359(3) -359(2) -336(1) -335(0) -334(FS1) -282(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	121.1	121.1	121.1	121.1	121.1	121.1	121.1
Entrance Lens Offset	13.4	13.4	13.4	13.4	13.4	13.4	13.4

597x Air and Water Check

Instrument: BCCL SD GCMS 3
Mon Aug 11 08:40:05 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: atune.u

Relative abundances:

18/69 =	1.63	Water%	(counts=18296)
28/69 =	3.21	Nitrogen%	(counts=36088)
32/69 =	1.58	Oxygen%	(counts=17768)
44/69 =	0.23	Carbon Dioxide%	(counts=2641)
28/18 =	197.25	Nitrogen/Water%	

System Verification - Tune (Detector Optimization) Portion

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	503.00	OK
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.09	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.36	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.20	OK
Ratio of 219 to 69 should be > 40% and is	72.86	OK
Ratio of 502 to 69 should be > 2.4% and is	8.16	OK
Mass 69 Precursor (<= 3%)	0.18	OK
Mass 219 Precursor (<= 6%)	0.68	OK
Mass 502 Precursor (<= 12%)	0.95	OK

597x Air and Water Check

Mon Aug 11 08:58:50 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%)	0.64	OK
Ratio of 28 to 69 (<10%)	1.58	OK
Electron Multiplier Voltage	1876	OK

Tune portion of System Verification passed.

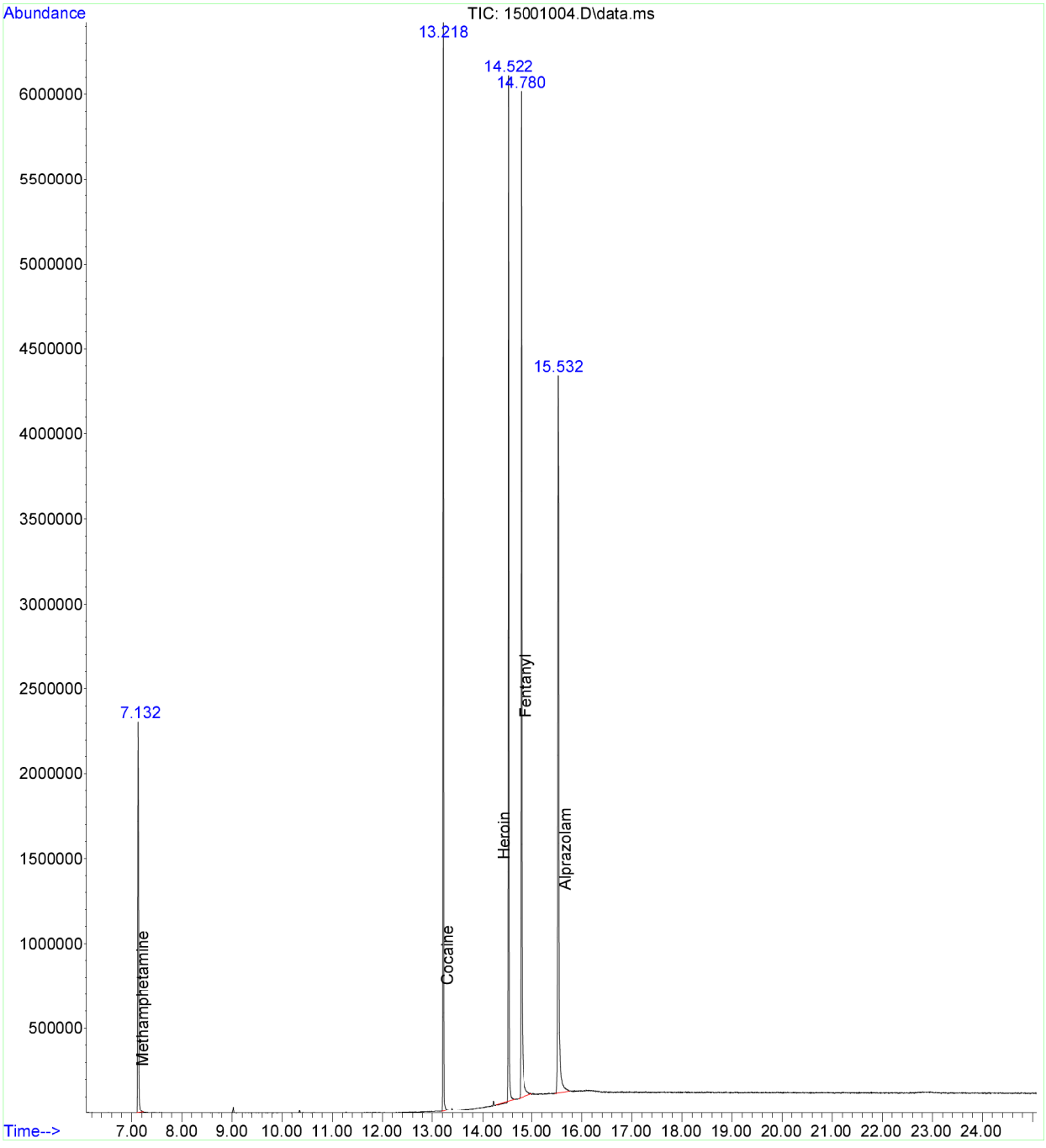
BCCL GC/MS #3
Retention Times for the Week of:

08/11/2025 - 08/17/2025

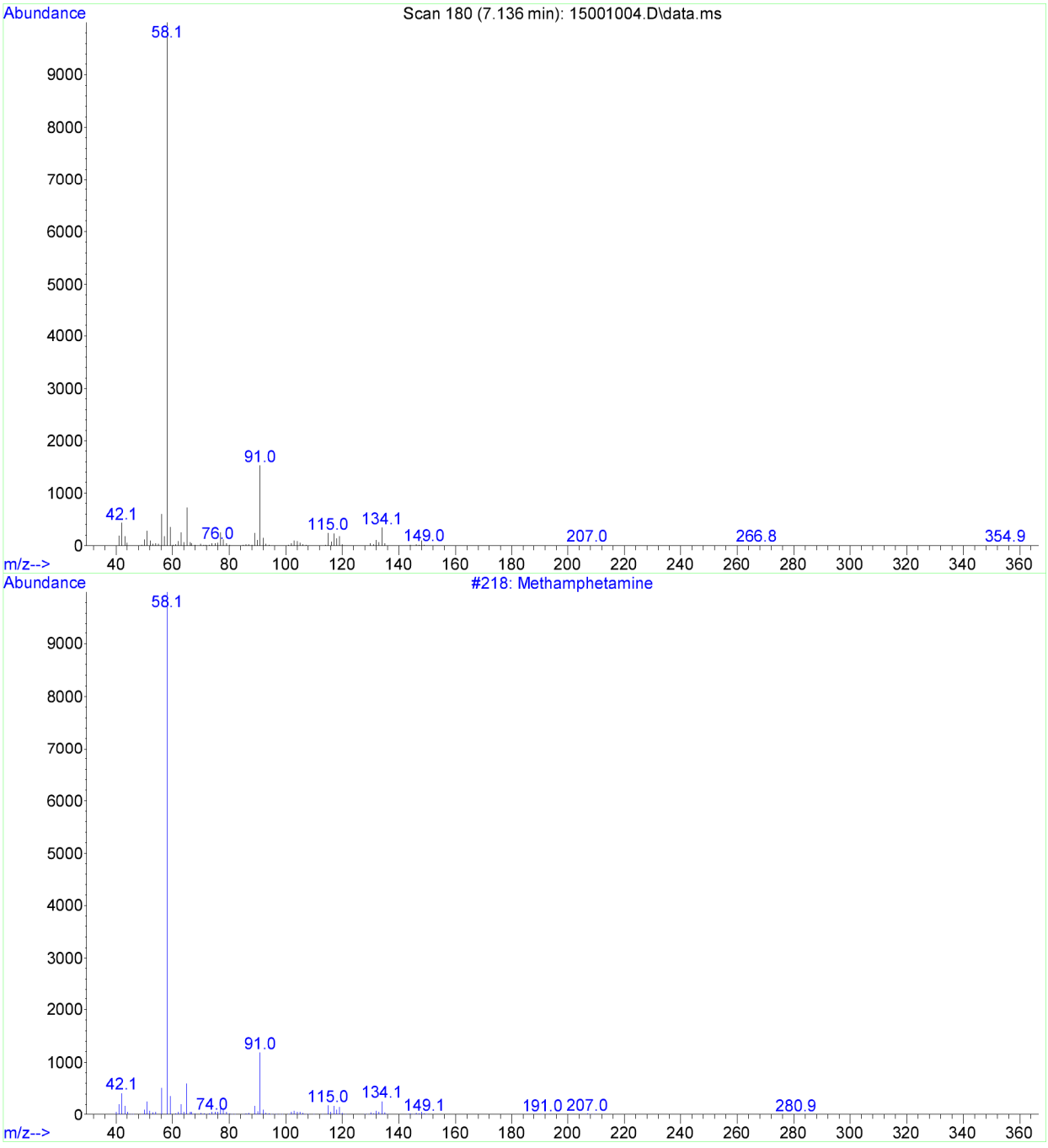
[X] **Tune: DS 08/11/2025 - Autotune**

Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35	7.132	7.060	7.203
Cocaine	R-24-060	DrugTest35	13.218	13.085	13.350
Heroin	R-24-060	DrugTest35	14.522	14.376	14.667
Fentanyl	R-24-060	DrugTest35	14.780	14.632	14.927
Alprazolam	R-24-060	DrugTest35	15.532	15.376	15.687

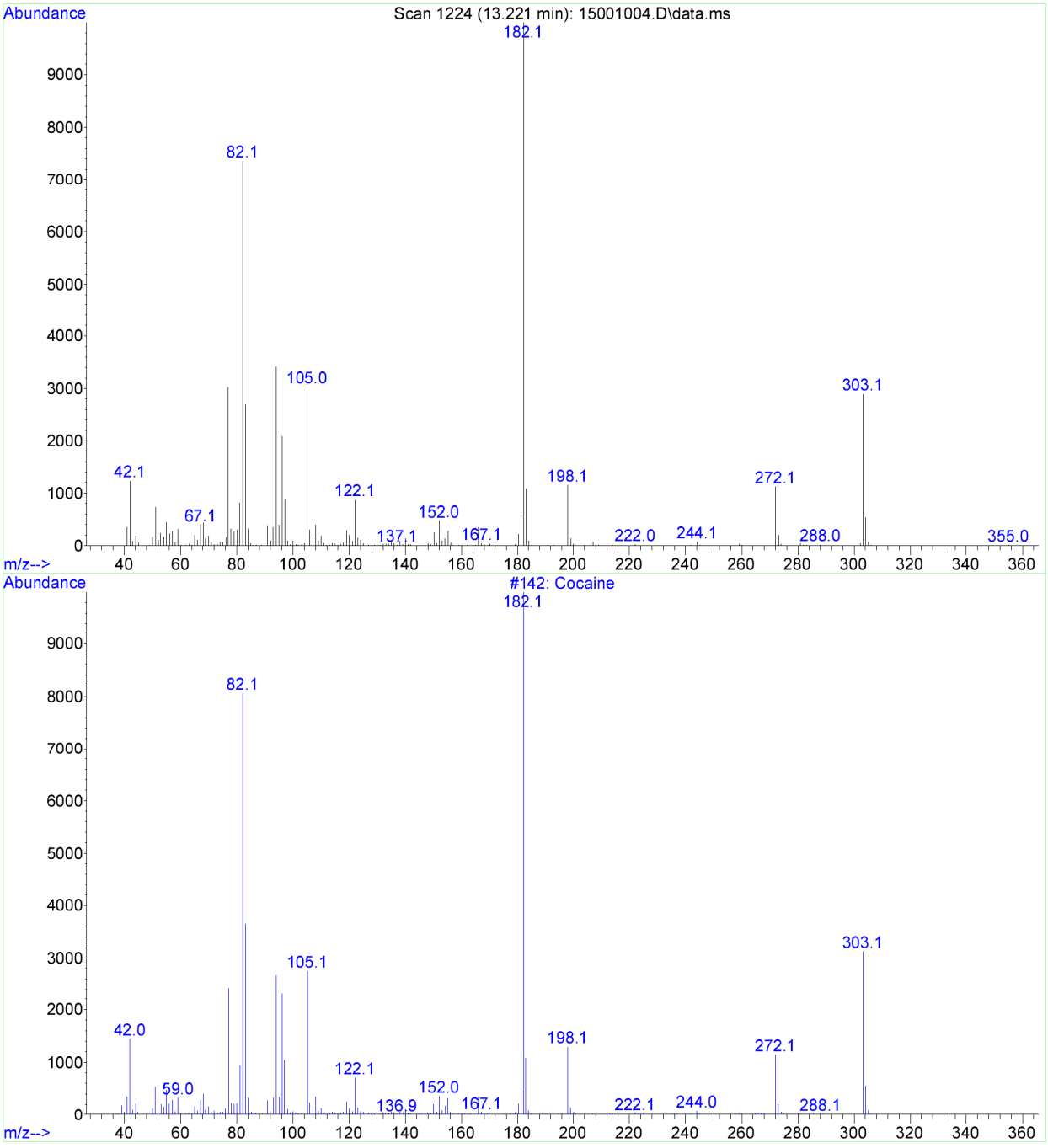
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Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 11 Aug 2025  10:23     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
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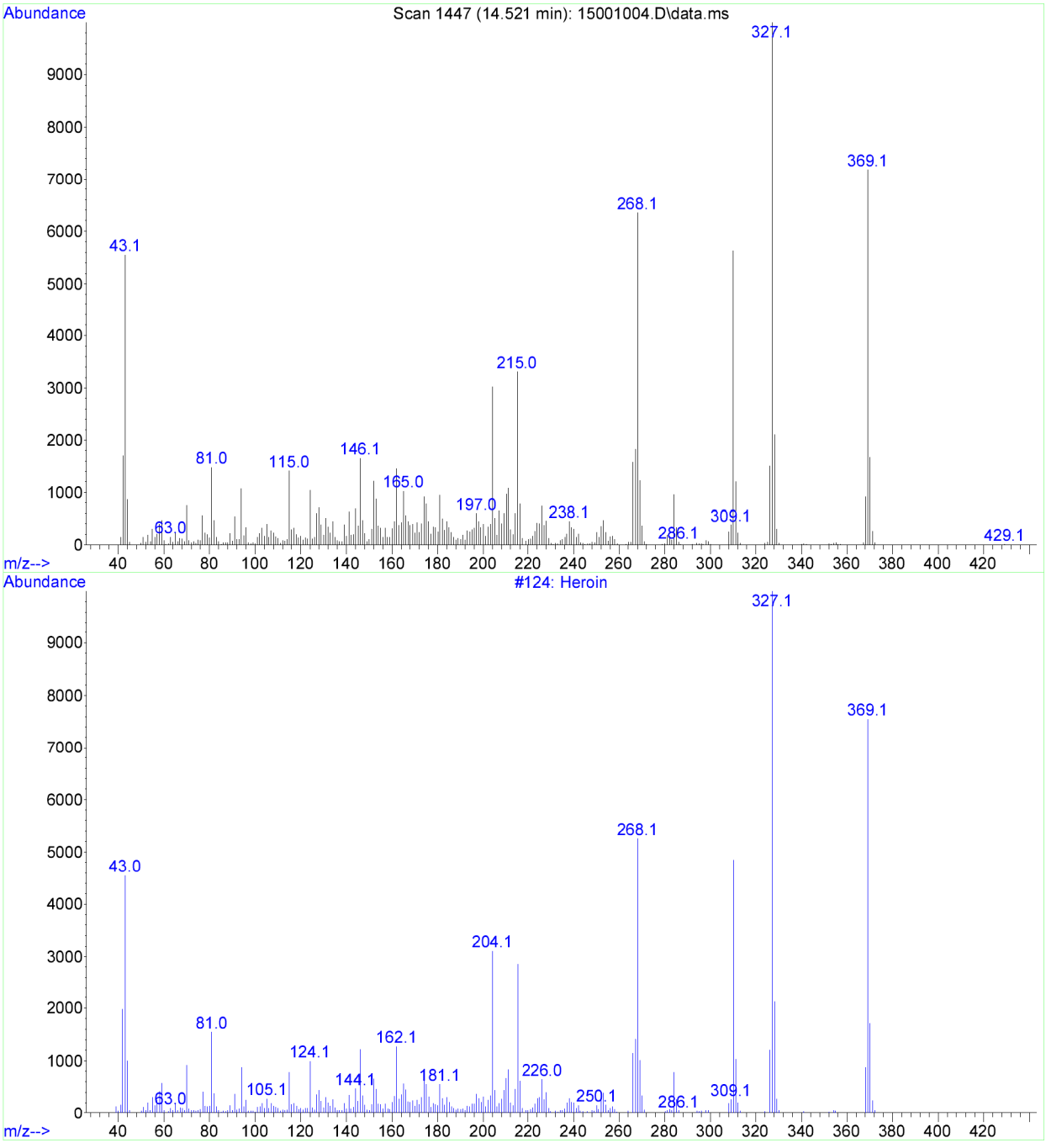
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...          Data\081125\15001004.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 11 Aug 2025  10:23     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
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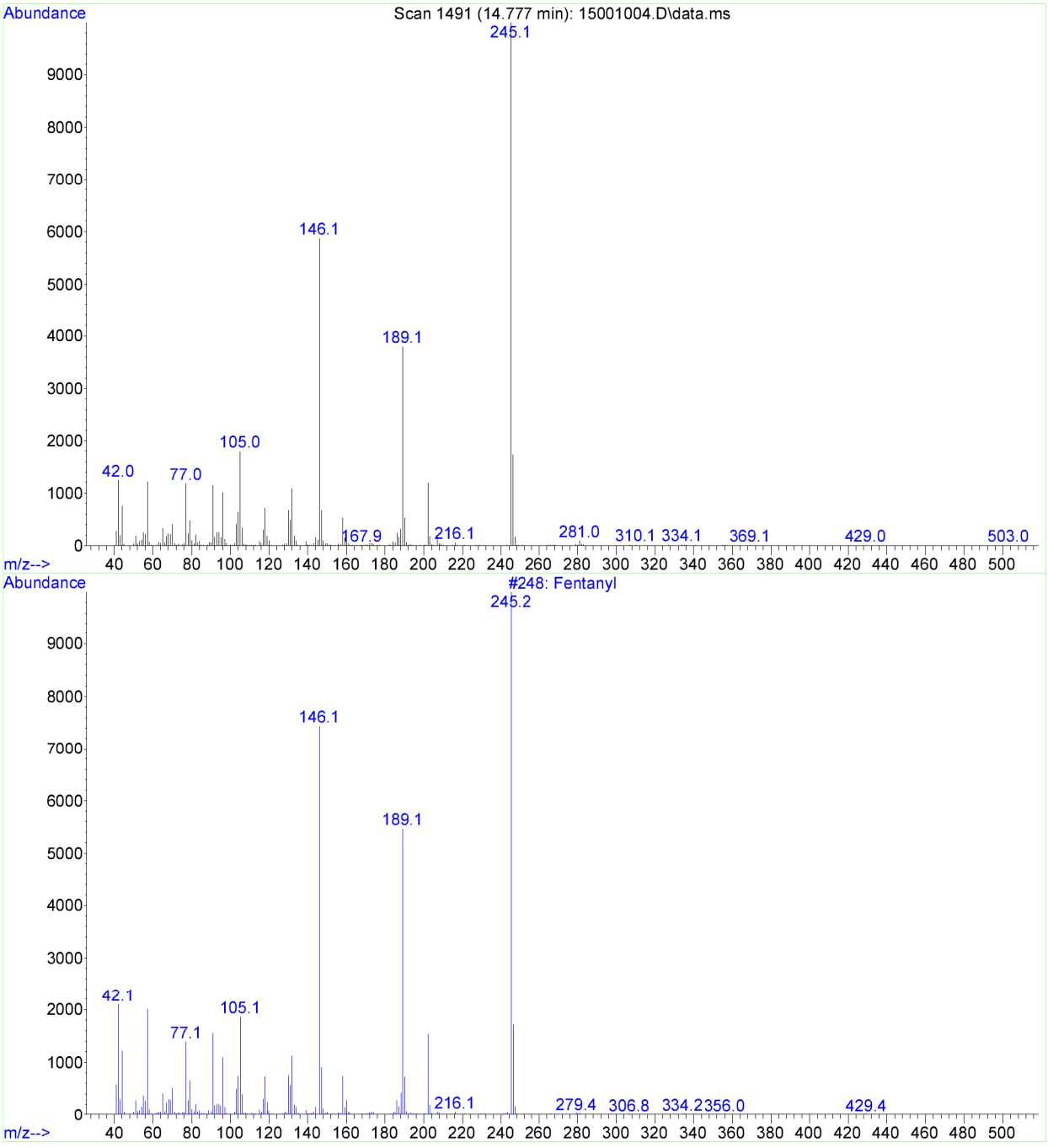
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Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 11 Aug 2025  10:23     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
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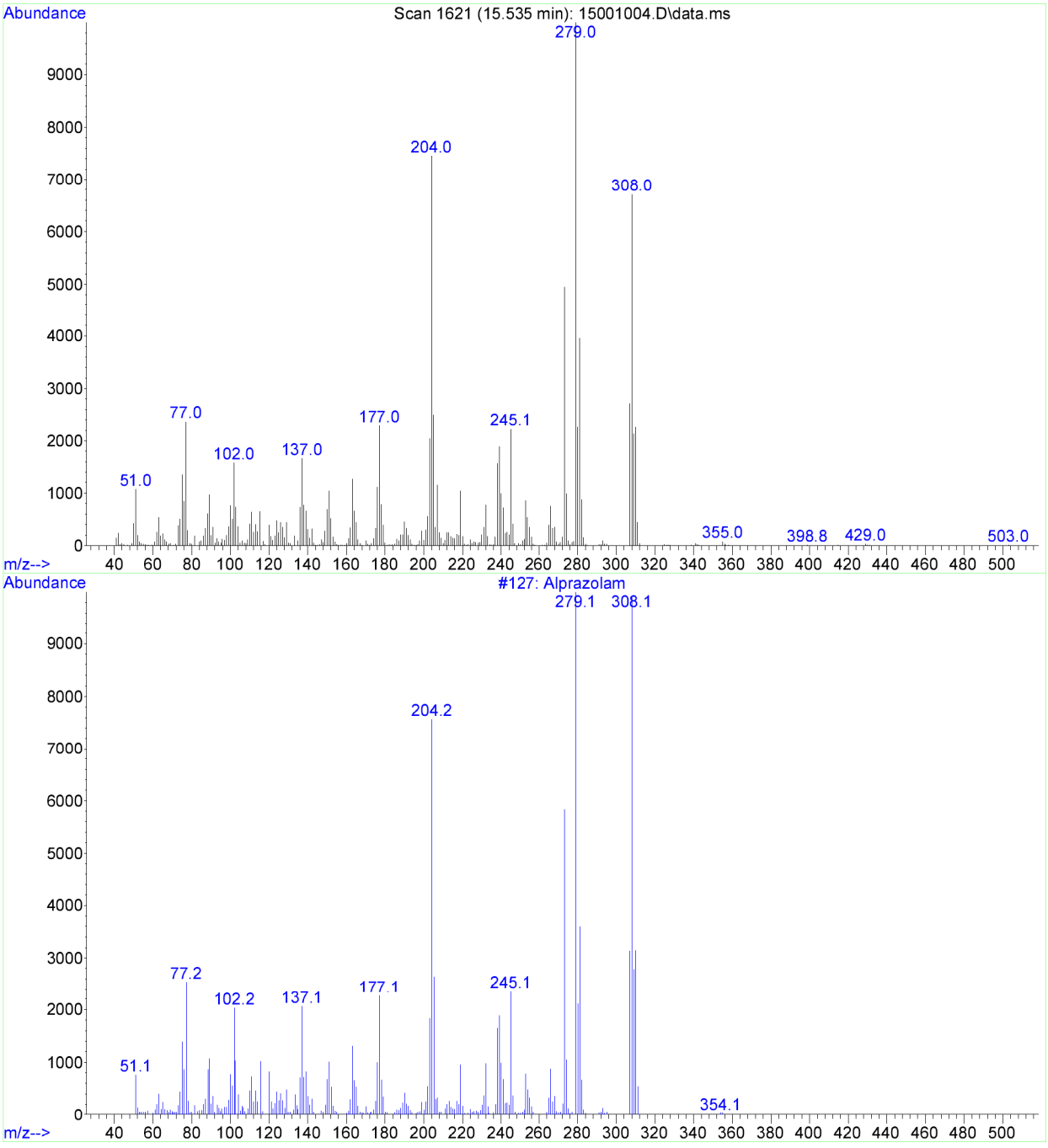
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File        :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...           Data\081125\15001004.D
Operator    : DrugChem-HP\admin
Instrument  :   BCCL SD GCMS 3
Acquired    : 11 Aug 2025  10:23     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info   :                                               000002667
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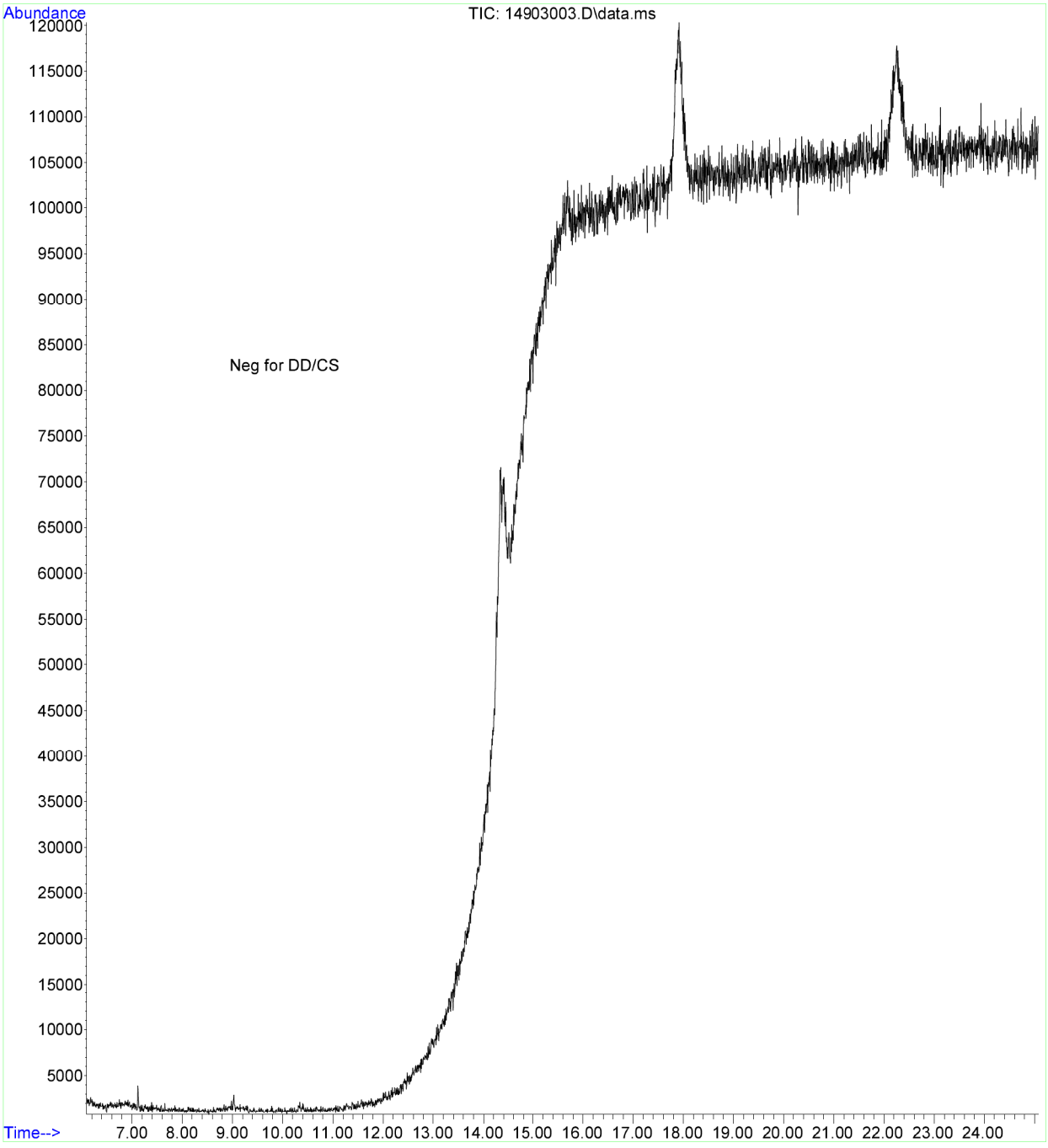
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File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\081125\15001004.D
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Instrument :   BCCL SD GCMS 3
Acquired   : 11 Aug 2025  10:23     using AcqMethod DrugTest35.M
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Misc Info  :                                                000002667
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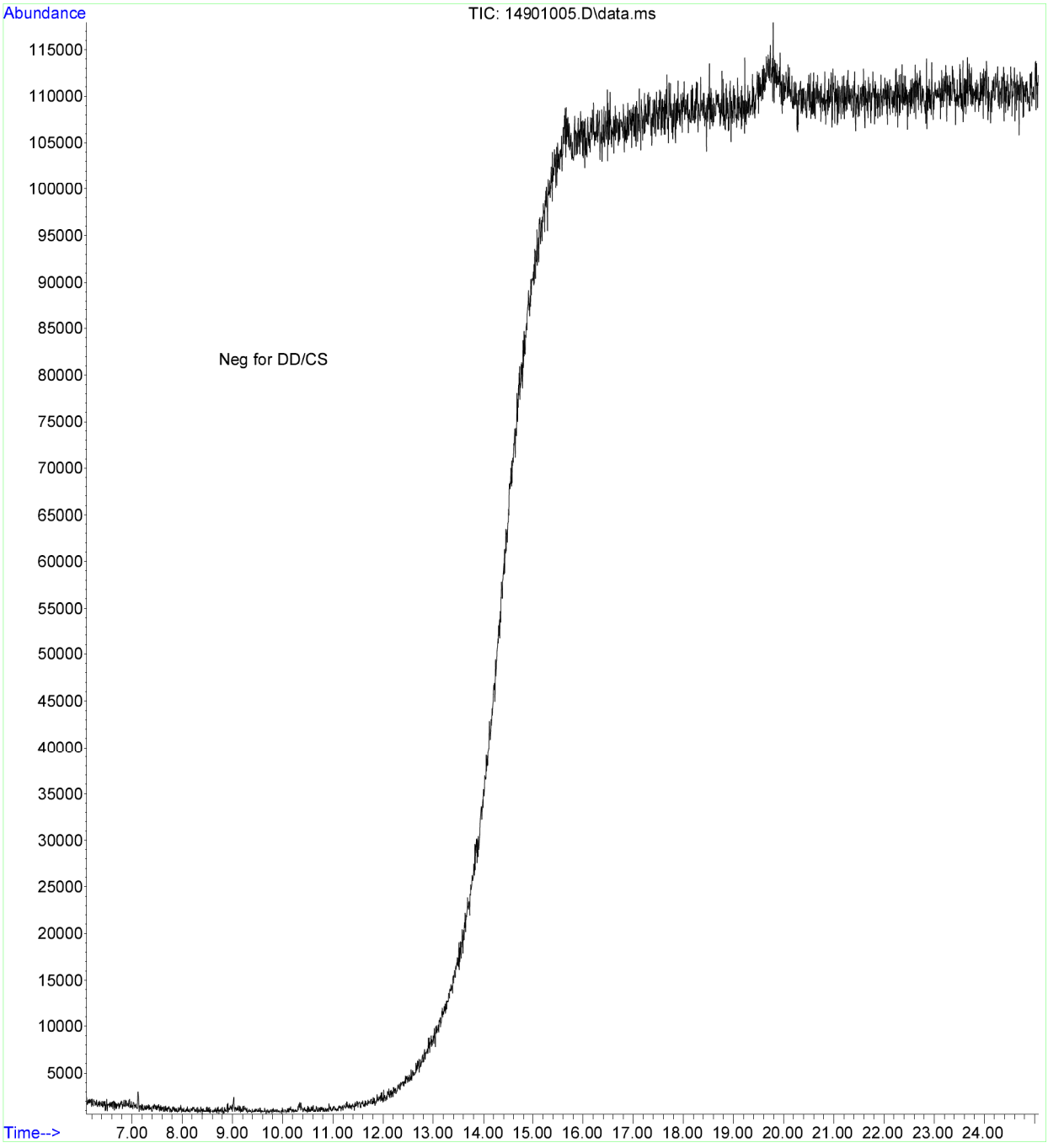
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...          Data\081125\15001004.D
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Instrument :   BCCL SD GCMS 3
Acquired   : 11 Aug 2025  10:23     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
```



File :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
... Data\081125\14903003.D
Operator : DrugChem-HP\admin
Instrument : BCCL SD GCMS 3
Acquired : 11 Aug 2025 09:54 using AcqMethod DrugTest35.M
Sample Name: BLANK (C-19-0068) PRIOR TO CAYMAN GC/MS MIX 3 (R-24-060) 000002666
Misc Info : 000002666



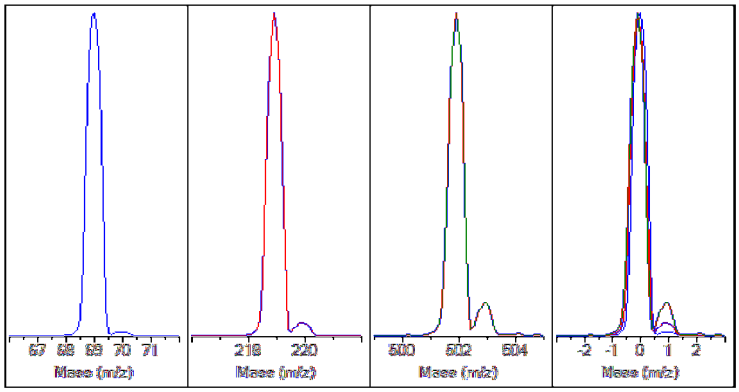
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File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\081125\14901005.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 11 Aug 2025  10:52     using AcqMethod DrugTest35.M
Sample Name: BLANK (C-19-0068) - INSTRUMENT READY          000002666
Misc Info  :                                               000002666
```



Autotune - 5977

8/18/2025 6:45:23 AM (UTC-5:00) BCCL SD GCMS 3

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



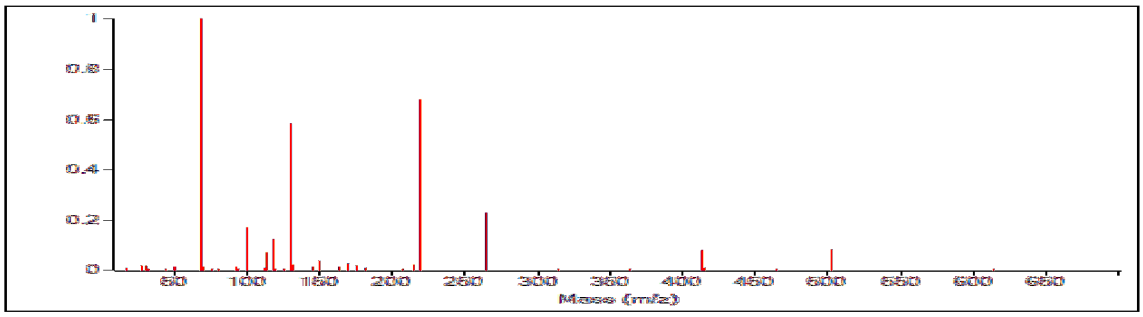
Ion Polarity	Pos	Mass Gain	-367
Emission	34.6	Mass Offset	-35
Electron Energy	70.0	Amu Gain	1670
Filament	2	Amu Offset	121.44
Repeller	32.31	Width219	-0.013
Ion Focus	90.3	DC Polarity	Pos
Entrance Lens	17.6	HED Enable	On
Ent Lens Offset	13.40	EM Volts	1876.4
Ion Body	0.00	Extractor Lens	0.00
		Scan Speed	3
		Averages	3
PFTBA	Open	Step Size	0.10

Mass	Abund	Rel Abund	Pw50
69.00	353,448	100.0%	0.61
218.90	250,780	71.0%	0.60
501.90	28,910	8.2%	0.59

Temperatures and Pressures

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

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	97	69.00	342,528	1,163,717



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	342,528	100.00	70.00	3,831	1.12
219.00	233,024	68.03	220.00	10,034	4.31
502.00	27,880	8.14	503.00	2,706	9.71

Air/Water Check: H20 ~0.6% N2 ~1.4% O2 ~0.4% CO2 ~0.2% N2/H20 ~233.9%

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 94391.379

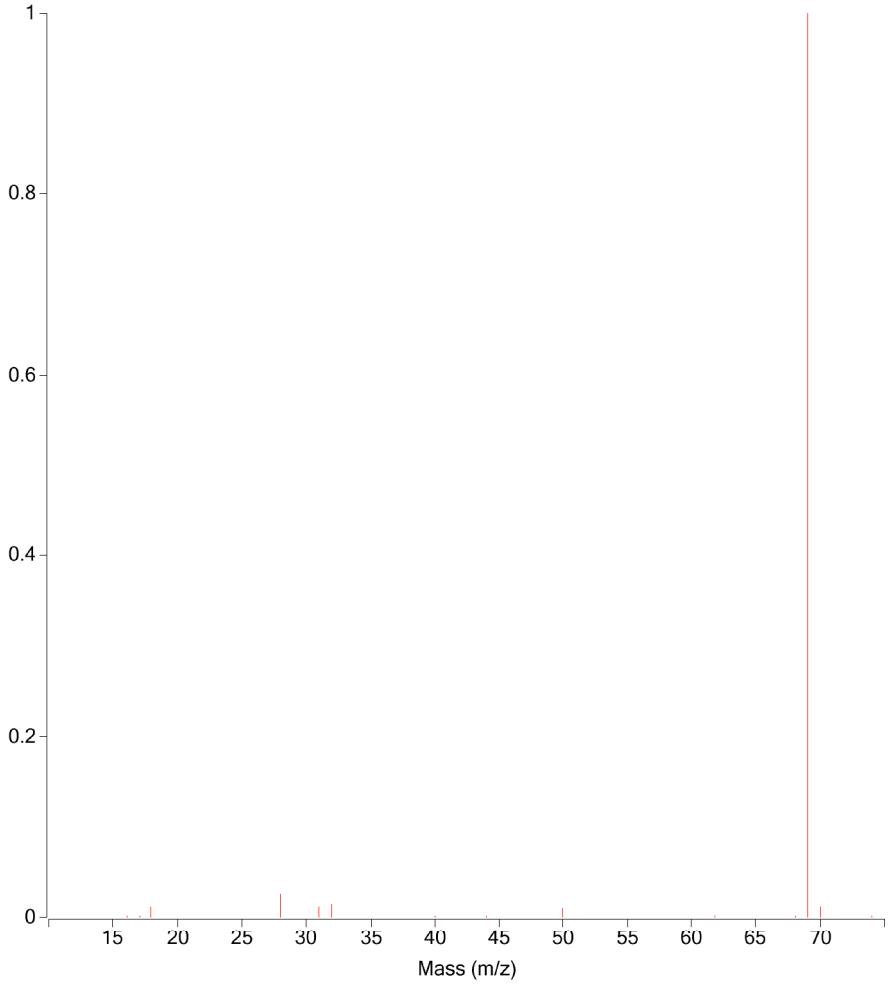
Repeller maximum 35 volts using ion 219; Gain Factor 0.9439

Mass Gain Values(Scan Speed): -360(3) -350(2) -361(1) -343(0) -290(FS1) -376(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	121.4	121.4	121.4	121.4	121.4	121.4	121.4
Entrance Lens Offset	13.4	13.4	13.4	13.4	13.4	13.4	13.4

597x Air and Water Check

Instrument: BCCL SD GCMS 3
Mon Aug 18 06:37:06 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: atune.u

Relative abundances:

18/69 =	1.23	Water%	(counts=11431)
28/69 =	2.56	Nitrogen%	(counts=23760)
32/69 =	1.39	Oxygen%	(counts=12905)
44/69 =	0.23	Carbon Dioxide%	(counts=2104)
28/18 =	207.86	Nitrogen/Water%	

System Verification - Tune (Detector Optimization) Portion

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	219.99	OK
Position of isotope mass 503	502.99	OK
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.11	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.35	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.32	OK
Ratio of 219 to 69 should be > 40% and is	71.46	OK
Ratio of 502 to 69 should be > 2.4% and is	8.38	OK
Mass 69 Precursor (<= 3%)	0.18	OK
Mass 219 Precursor (<= 6%)	0.42	OK
Mass 502 Precursor (<= 12%)	0.84	OK

597x Air and Water Check

Mon Aug 18 07:00:30 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%)	0.54	OK
Ratio of 28 to 69 (<10%)	1.40	OK
Electron Multiplier Voltage	1876	OK

Tune portion of System Verification passed.

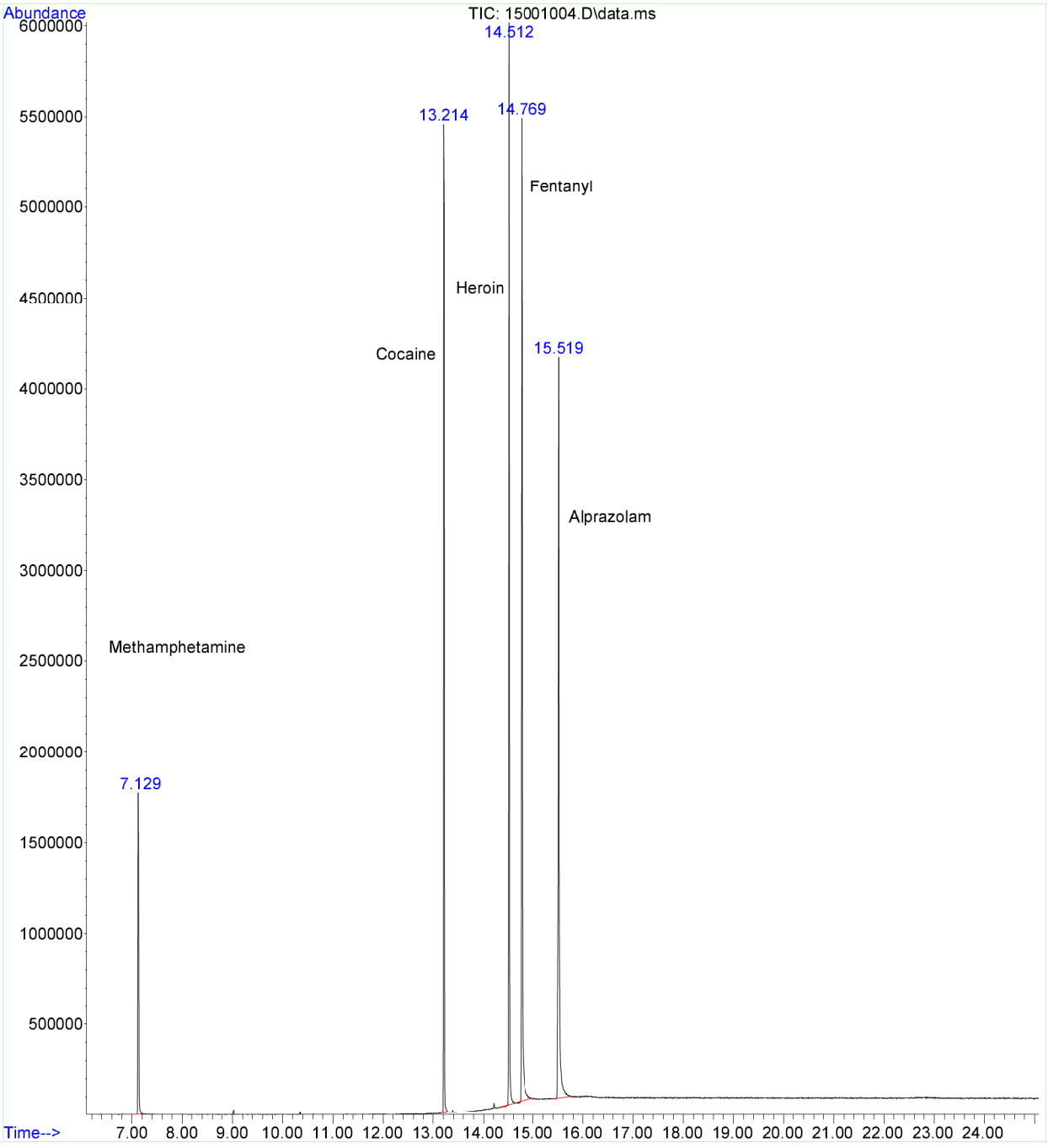
BCCL GC/MS #3
Retention Times for the Week of:

08/18/2025 - 08/24/2025

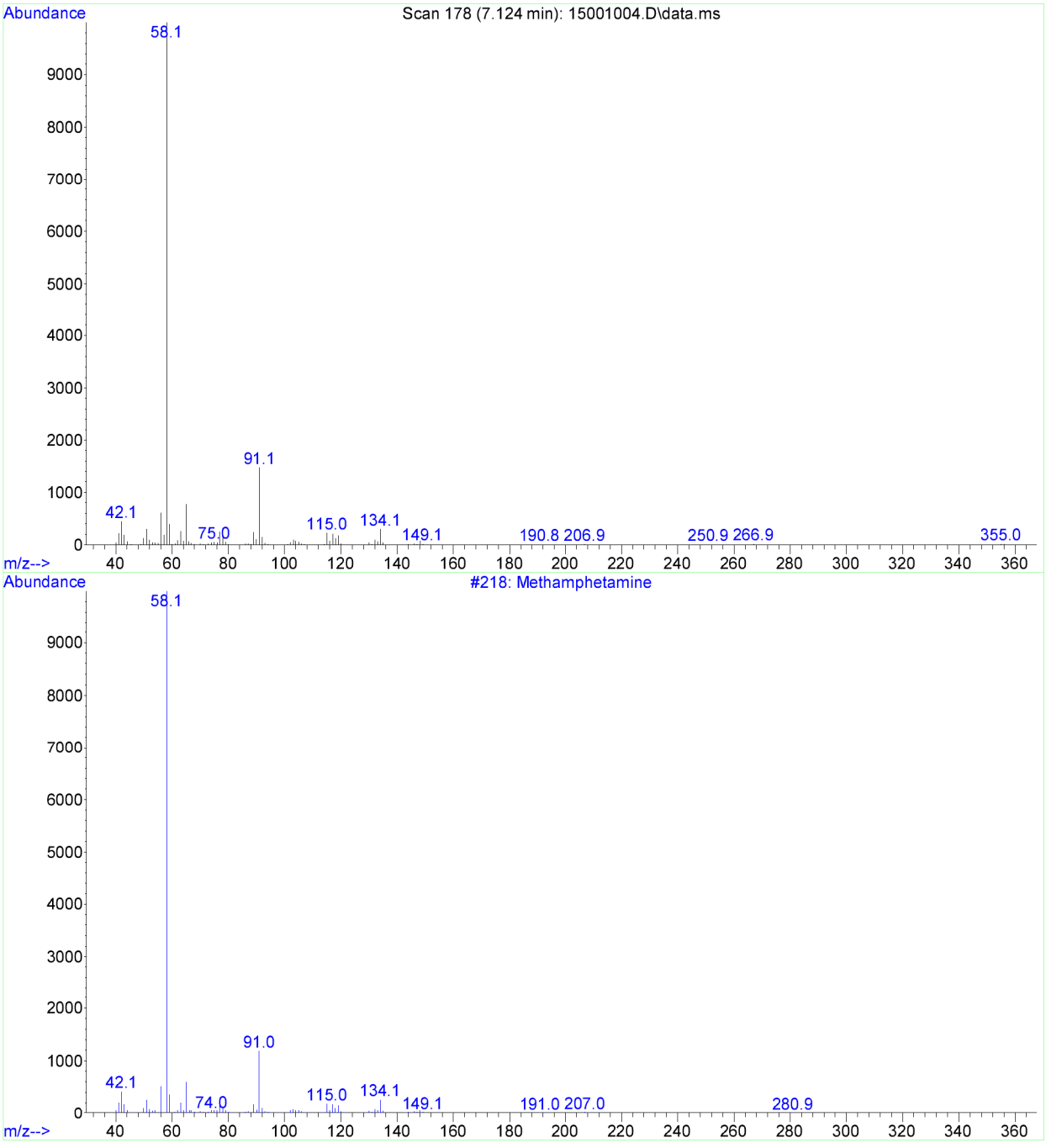
[X] **Tune: KB 08/18/2025 - Autotune**

Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35	7.129	7.057	7.200
Cocaine	R-24-060	DrugTest35	13.214	13.081	13.346
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	15.519	15.363	15.674

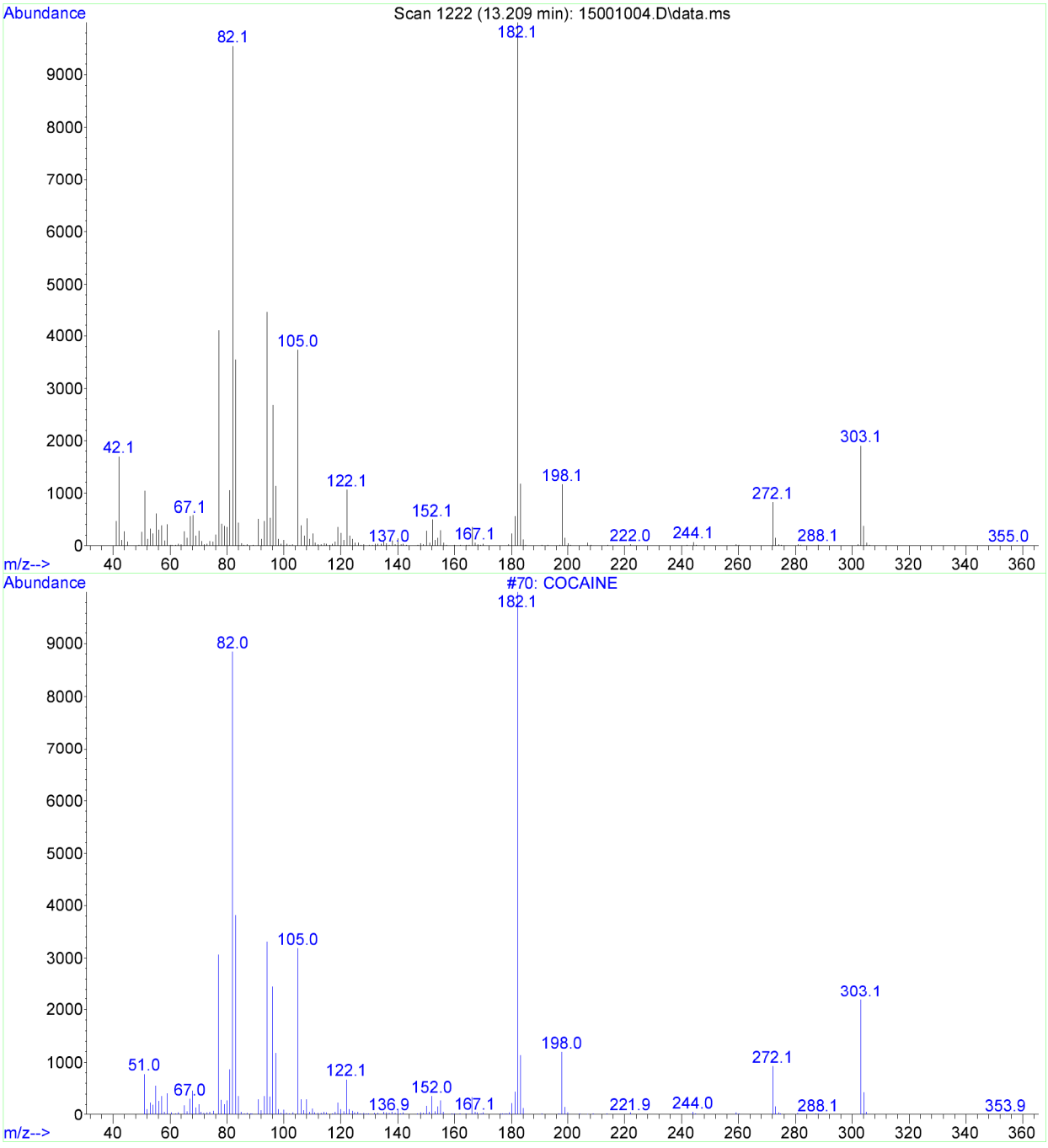
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File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\081825\15001004.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 18 Aug 2025  08:29     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
```



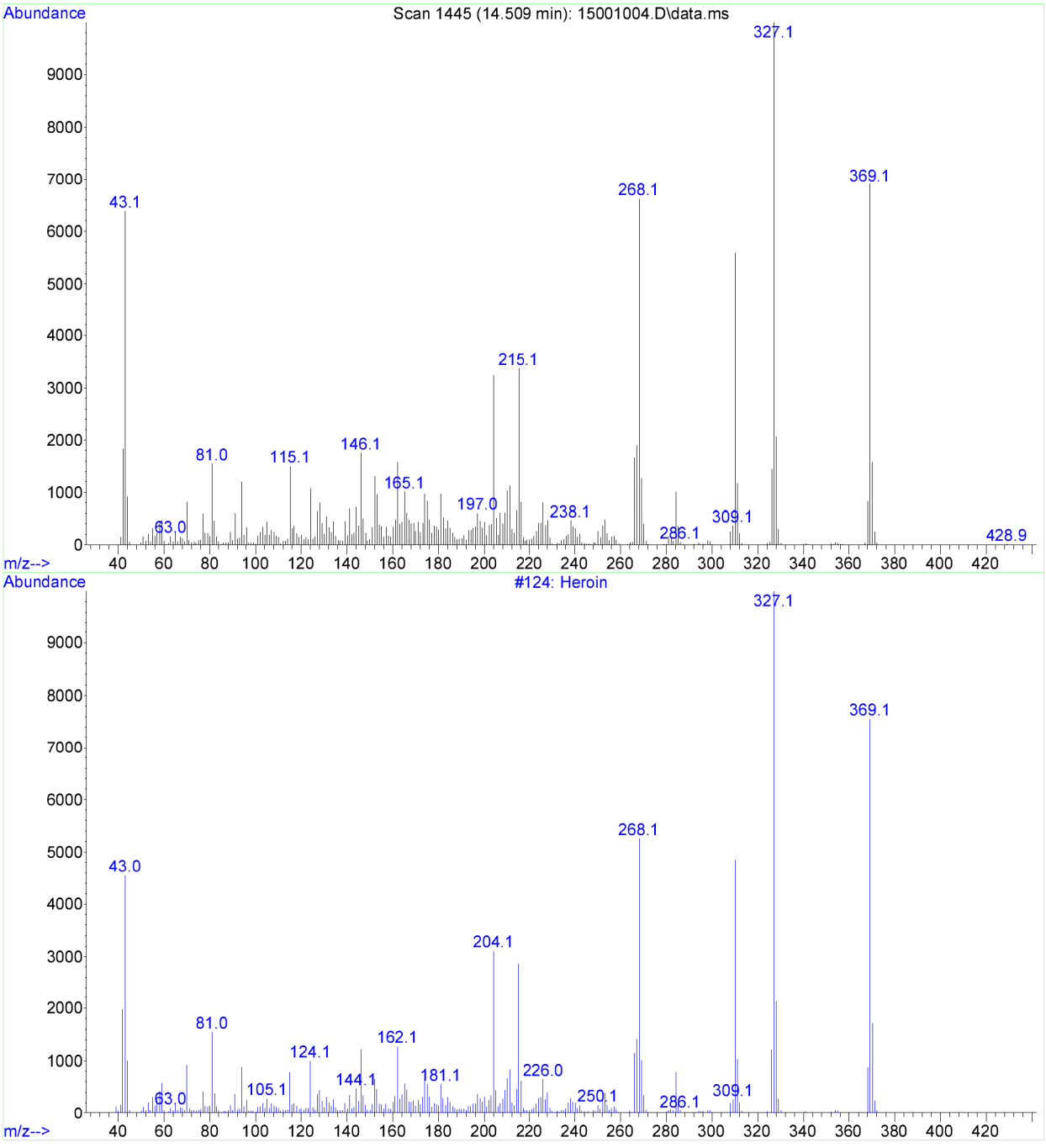
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File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
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Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 18 Aug 2025  08:29     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
```



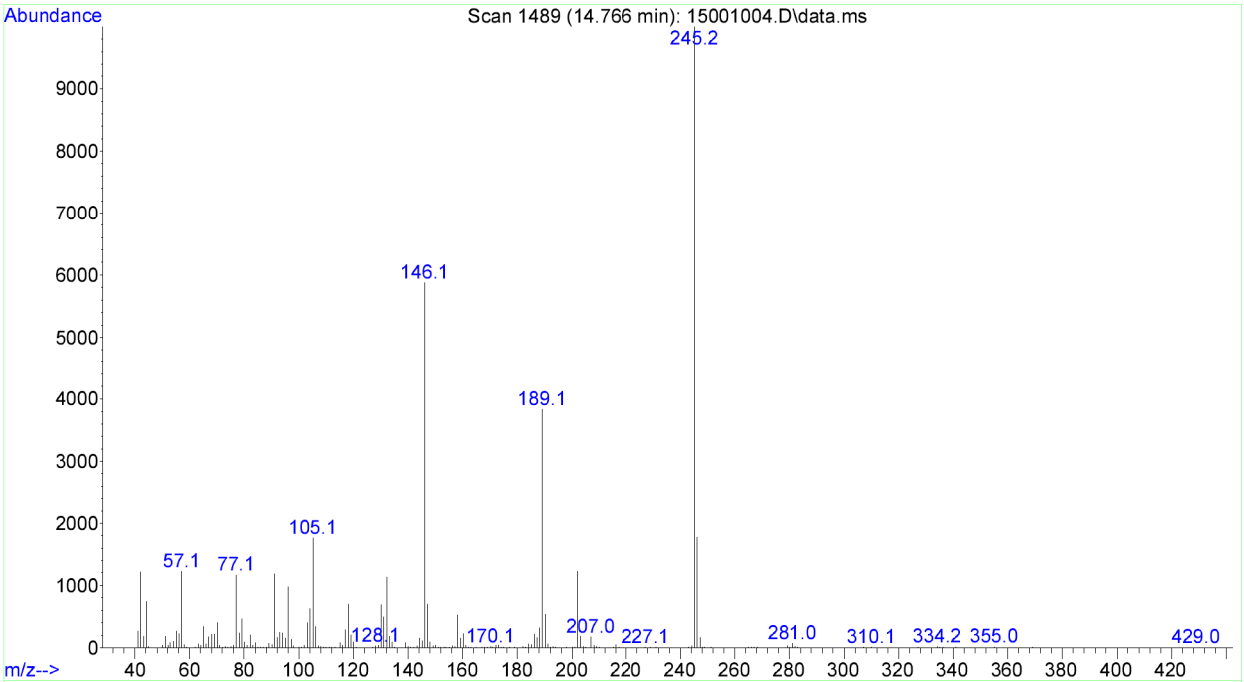
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...          Data\081825\15001004.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 18 Aug 2025  08:29     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
```

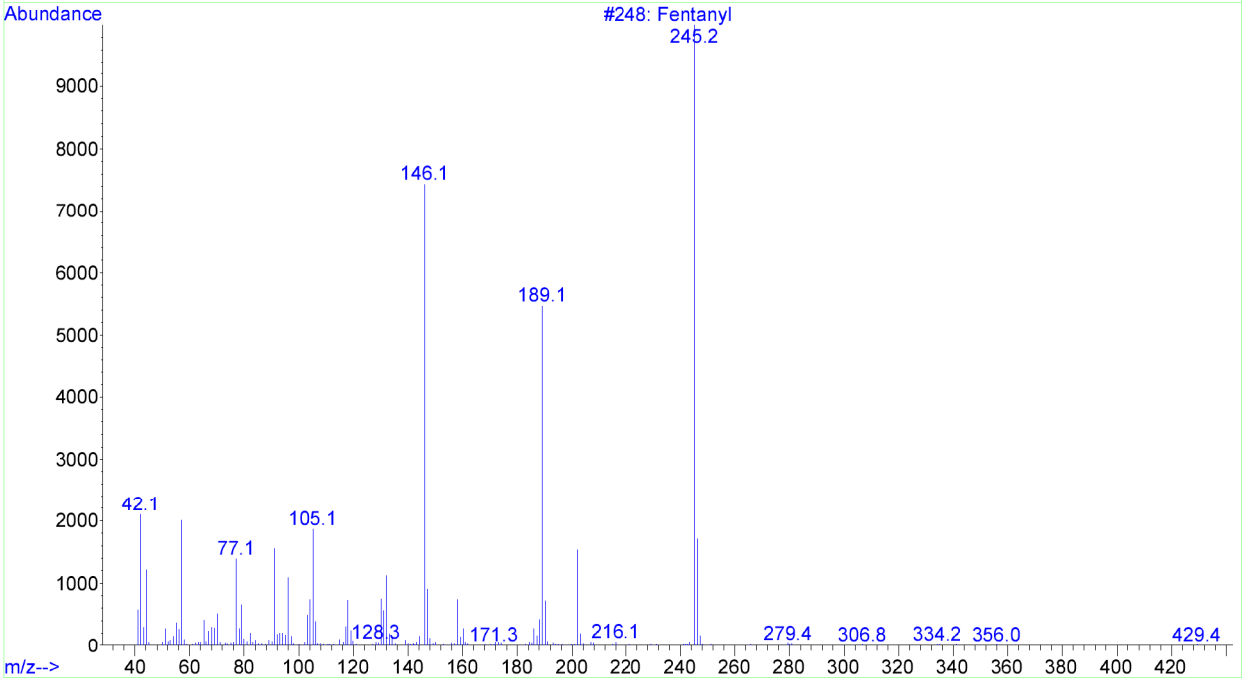


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File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\081825\15001004.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 18 Aug 2025  08:29     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
```

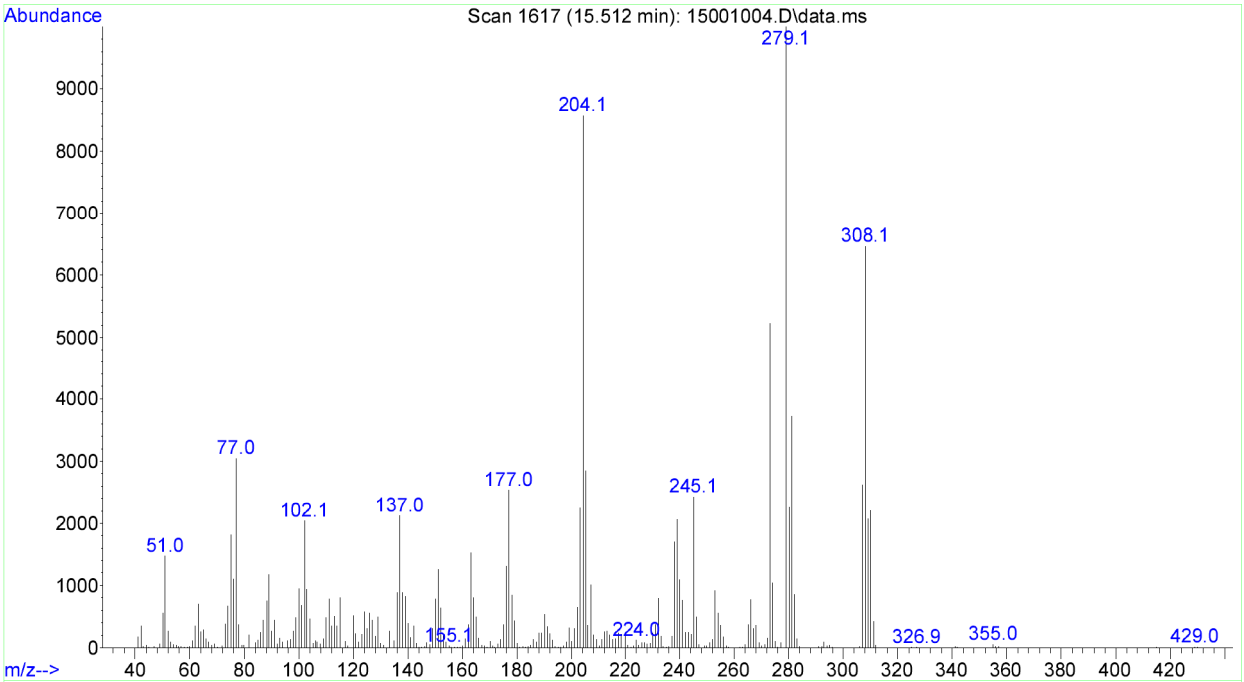


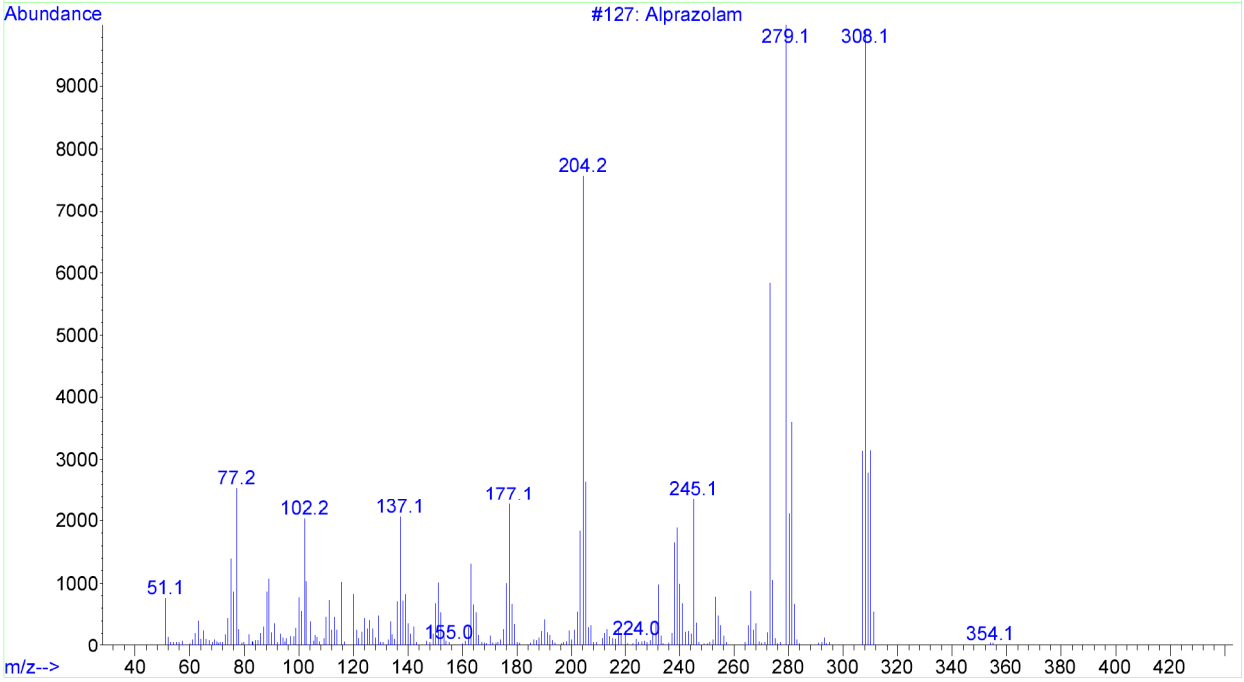
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File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\081825\15001004.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 18 Aug 2025  08:29     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
```



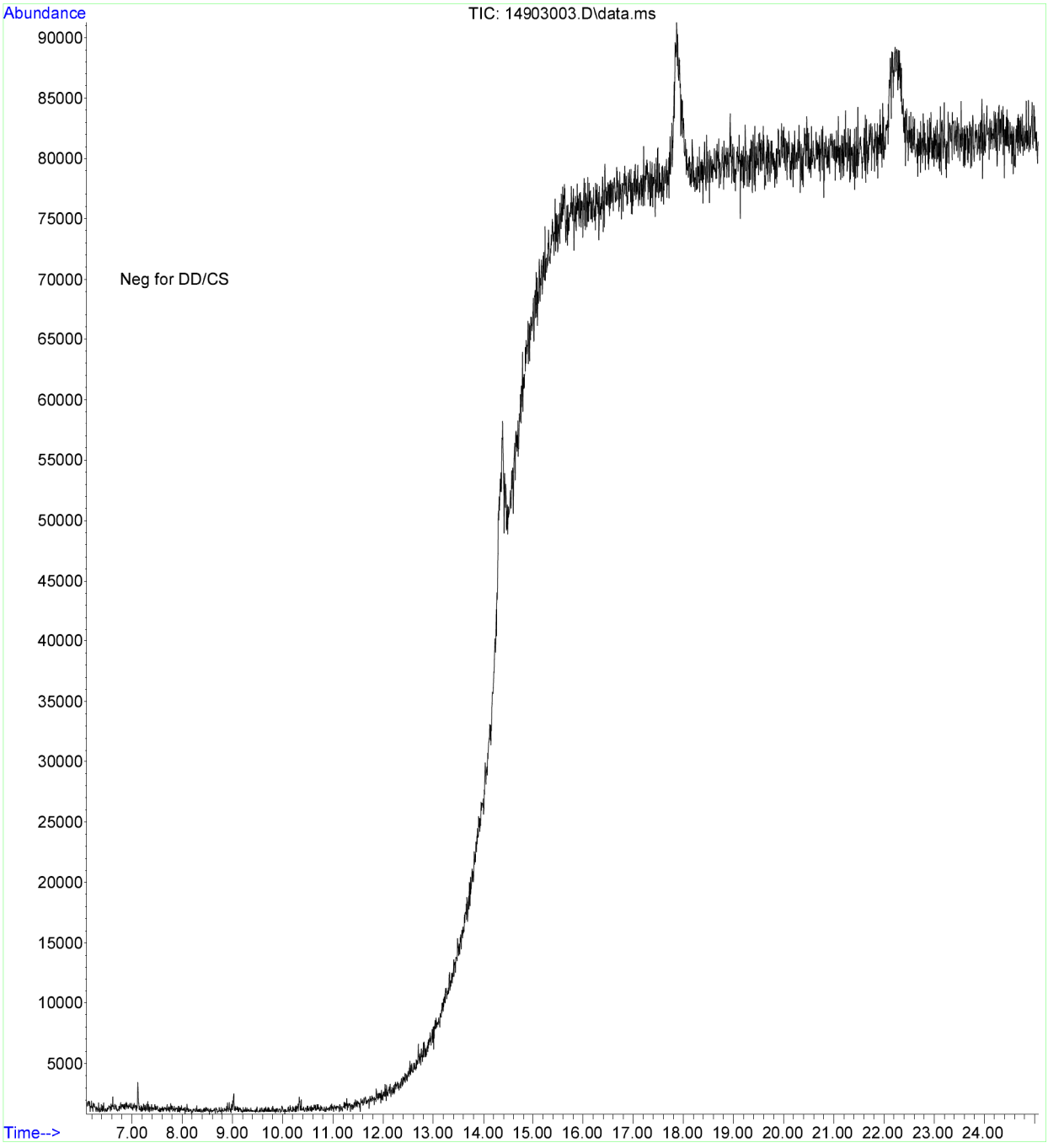


File :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
... Data\081825\15001004.D
Operator : DrugChem-HP\admin
Instrument : BCCL SD GCMS 3
Acquired : 18 Aug 2025 08:29 using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060) 000002667
Misc Info : 000002667

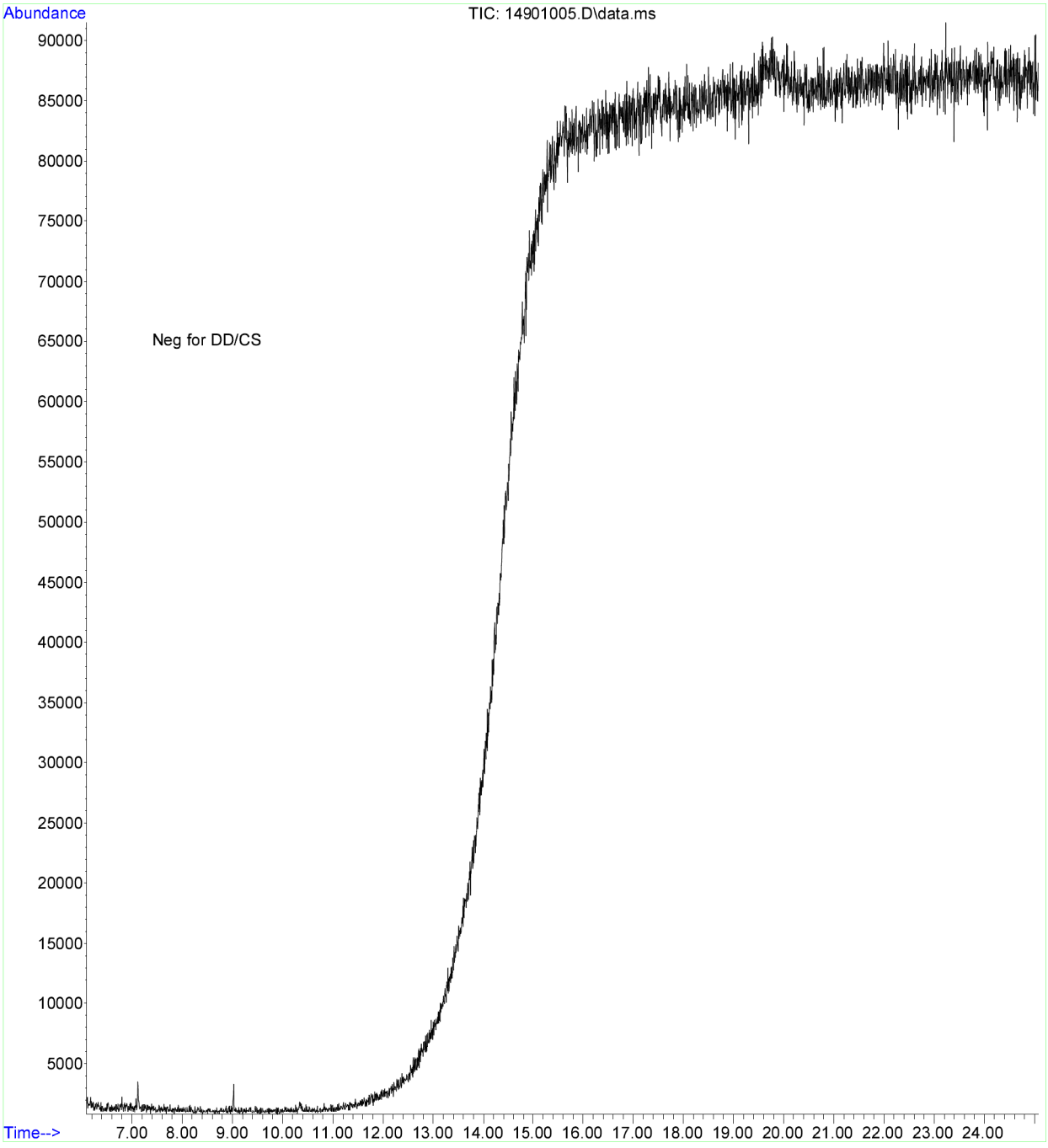




File :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
... Data\081825\14903003.D
Operator : DrugChem-HP\admin
Instrument : BCCL SD GCMS 3
Acquired : 18 Aug 2025 08:01 using AcqMethod DrugTest35.M
Sample Name: BLANK (C-19-0068) PRIOR TO CAYMAN GC/MS MIX 3 (R-24-060) 000002666
Misc Info : 000002666



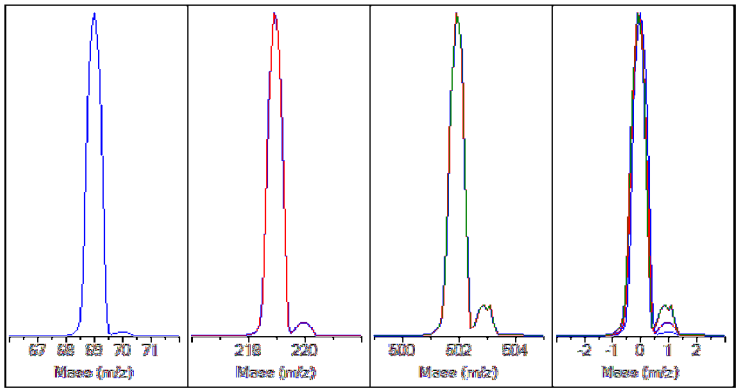
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File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\081825\14901005.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 18 Aug 2025  08:58     using AcqMethod DrugTest35.M
Sample Name: BLANK (C-19-0068) - INSTRUMENT READY          000002666
Misc Info  :                                               000002666
```



Autotune - 5977

8/25/2025 8:37:51 AM (UTC-5:00) BCCL SD GCMS 3

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



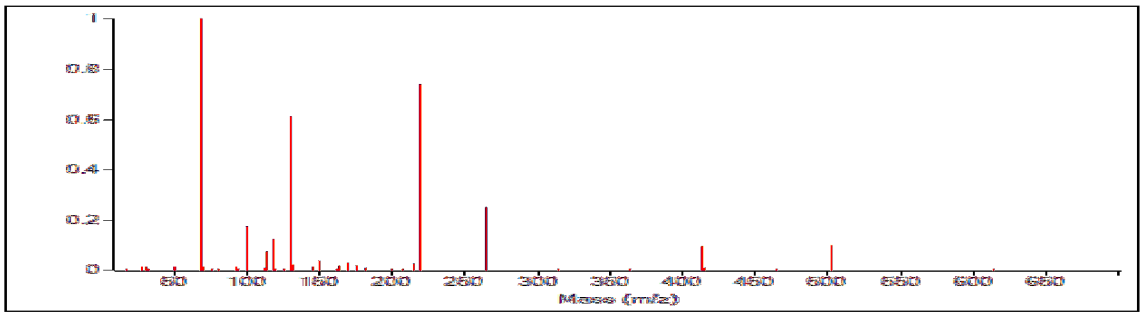
Ion Polarity	Pos	Mass Gain	-366
Emission	34.6	Mass Offset	-34
Electron Energy	70.0	Amu Gain	1672
Filament	2	Amu Offset	120.56
Repeller	32.71	Width219	-0.021
Ion Focus	90.3	DC Polarity	Pos
Entrance Lens	15.1	HED Enable	On
Ent Lens Offset	13.57	EM Volts	1923.5
Ion Body	0.00	Extractor Lens	0.00
		Scan Speed	3
		Averages	3
PFTBA	Open	Step Size	0.10

Mass	Abund	Rel Abund	Pw50
69.00	421,741	100.0%	0.60
218.90	319,218	75.7%	0.60
501.90	42,892	10.2%	0.58

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	8.86e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	98	69.00	403,072	1,433,016



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	403,072	100.00	70.00	4,527	1.12
219.00	297,984	73.93	220.00	12,905	4.33
502.00	39,648	9.84	503.00	3,895	9.82

Air/Water Check: H20 ~0.4% N2 ~1.3% O2 ~0.3% CO2 ~0.1% N2/H20 ~312.6%

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 124256.709

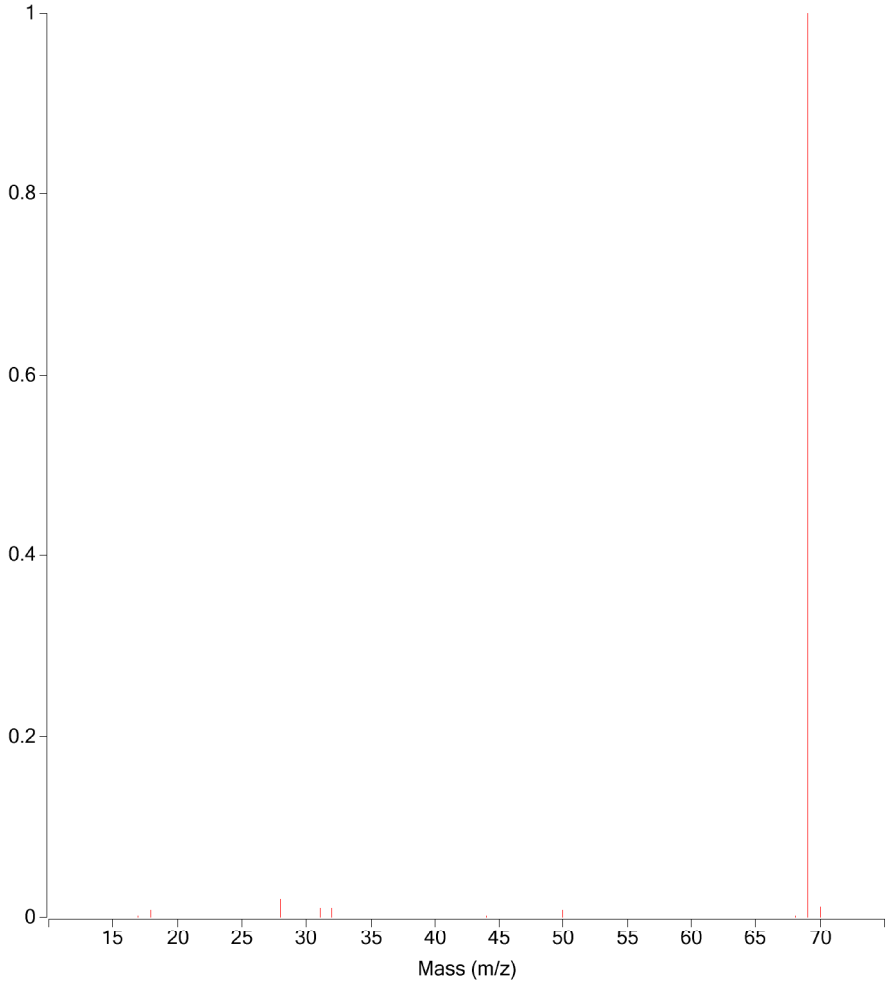
Repeller maximum 35 volts using ion 219; Gain Factor 1.2426

Mass Gain Values(Scan Speed): -364(3) -366(2) -341(1) -342(0) -341(FS1) -236(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	13.6	13.6	13.6	13.6	13.6	13.6	13.6

597x Air and Water Check

Instrument: BCCL SD GCMS 3
Mon Aug 25 08:32:49 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: atune.u

Relative abundances:

18/69 =	0.74	Water%	(counts=5553)
28/69 =	2.01	Nitrogen%	(counts=15166)
32/69 =	1.08	Oxygen%	(counts=8166)
44/69 =	0.22	Carbon Dioxide%	(counts=1642)
28/18 =	273.11	Nitrogen/Water%	

System Verification - Tune (Detector Optimization) Portion

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	501.99	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	220.00	OK
Position of isotope mass 503	502.99	OK
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.11	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.40	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.06	OK
Ratio of 219 to 69 should be > 40% and is	77.50	OK
Ratio of 502 to 69 should be > 2.4% and is	10.27	OK
Mass 69 Precursor (<= 3%)	0.20	OK
Mass 219 Precursor (<= 6%)	0.57	OK
Mass 502 Precursor (<= 12%)	0.81	OK

597x Air and Water Check

Mon Aug 25 08:44:52 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%)	0.39	OK
Ratio of 28 to 69 (<10%)	1.36	OK
Electron Multiplier Voltage	1923	OK

Tune portion of System Verification passed.

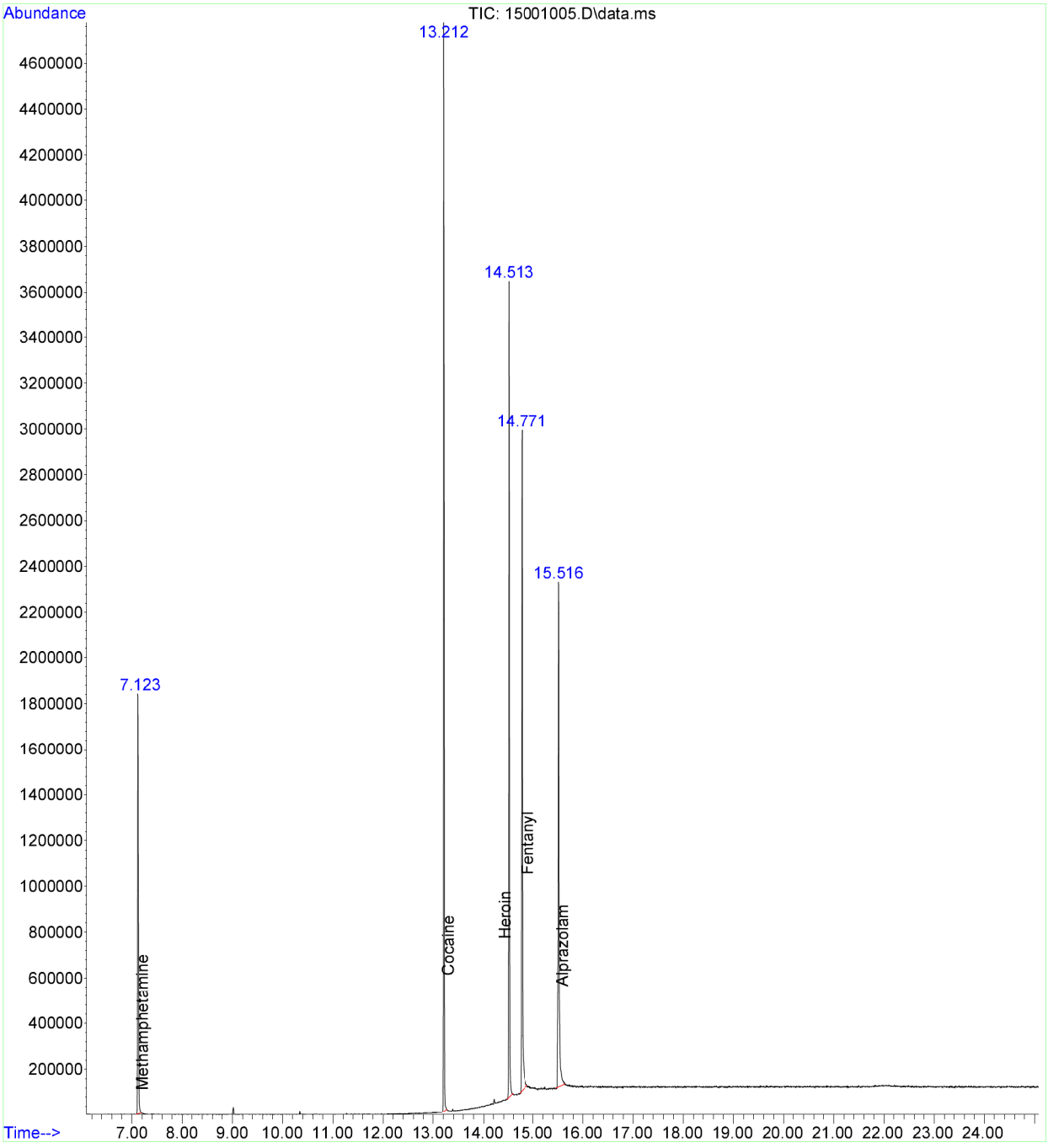
BCCL GC/MS #3
Retention Times for the Week of:

08/25/2025 - 08/31/2025

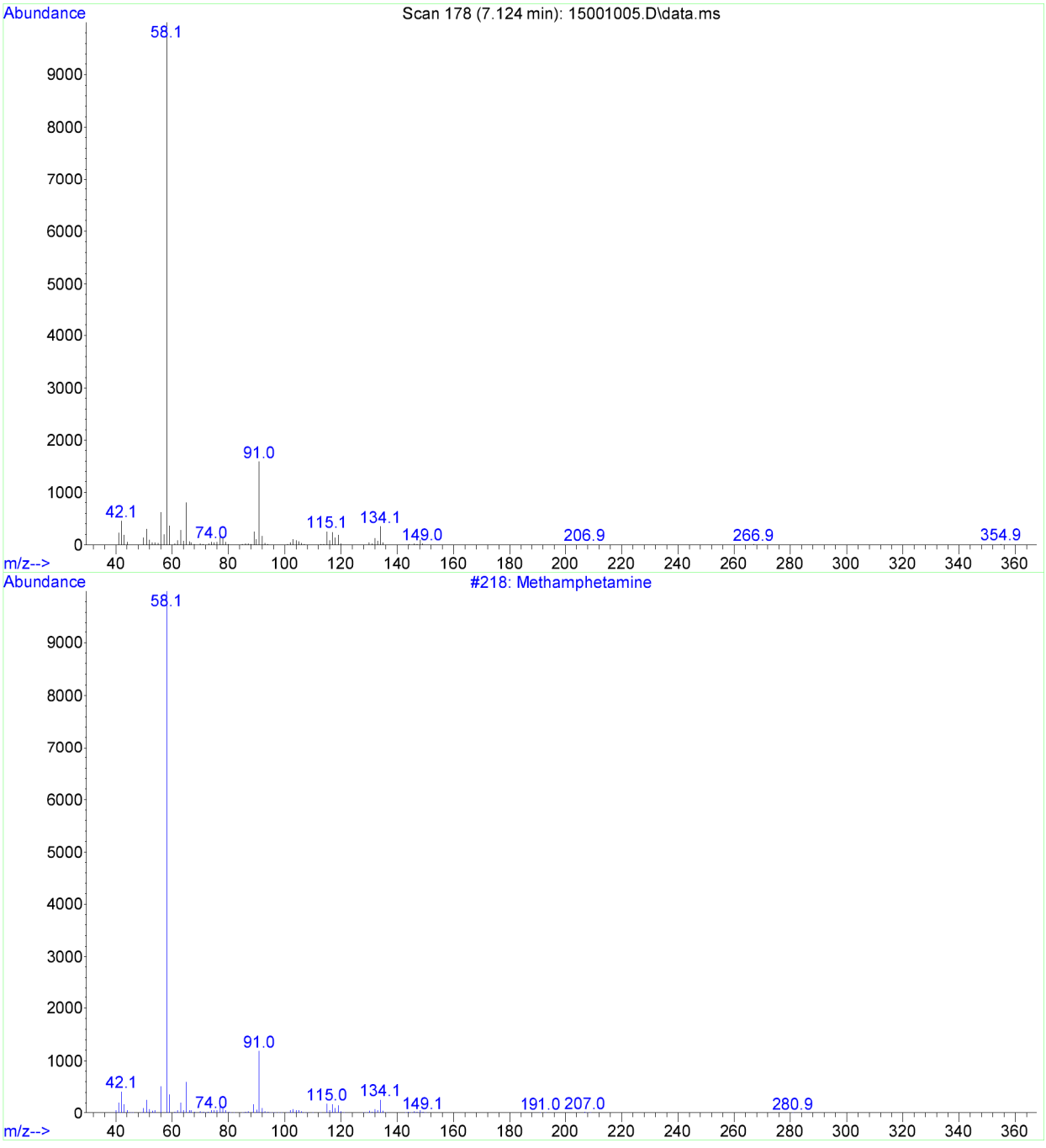
[X] **Tune: DS 08/25/2025 - Autotune**

Standard	Standard #	Method	Retention Time	1% Window	
Methamphetamine	R-24-060	DrugTest35	7.123	7.051	7.194
Cocaine	R-24-060	DrugTest35	13.212	13.079	13.344
Heroin	R-24-060	DrugTest35	14.513	14.367	14.658
Fentanyl	R-24-060	DrugTest35	14.771	14.623	14.918
Alprazolam	R-24-060	DrugTest35	15.516	15.360	15.671

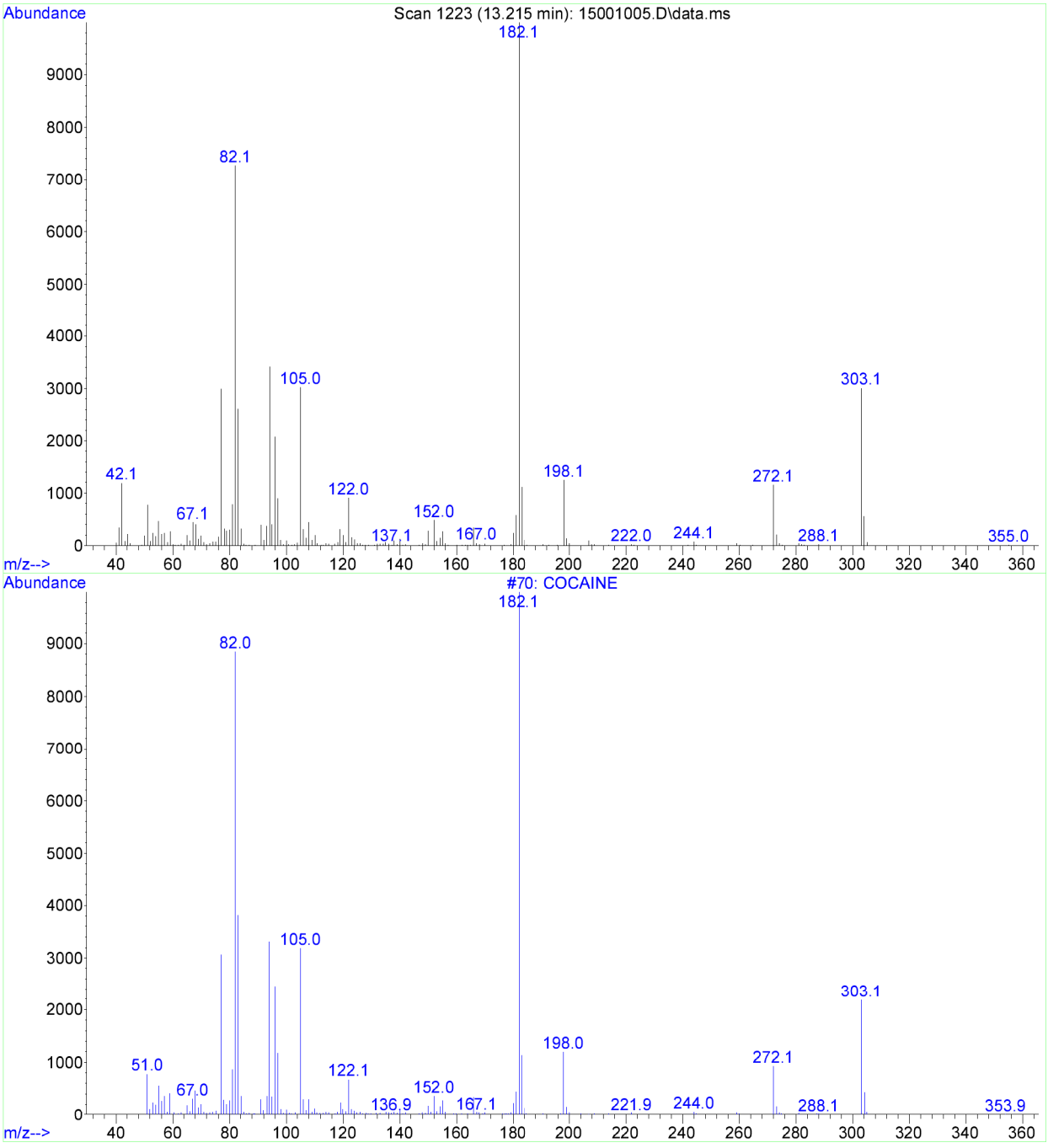
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File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\082525\15001005.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 25 Aug 2025  10:48     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
```



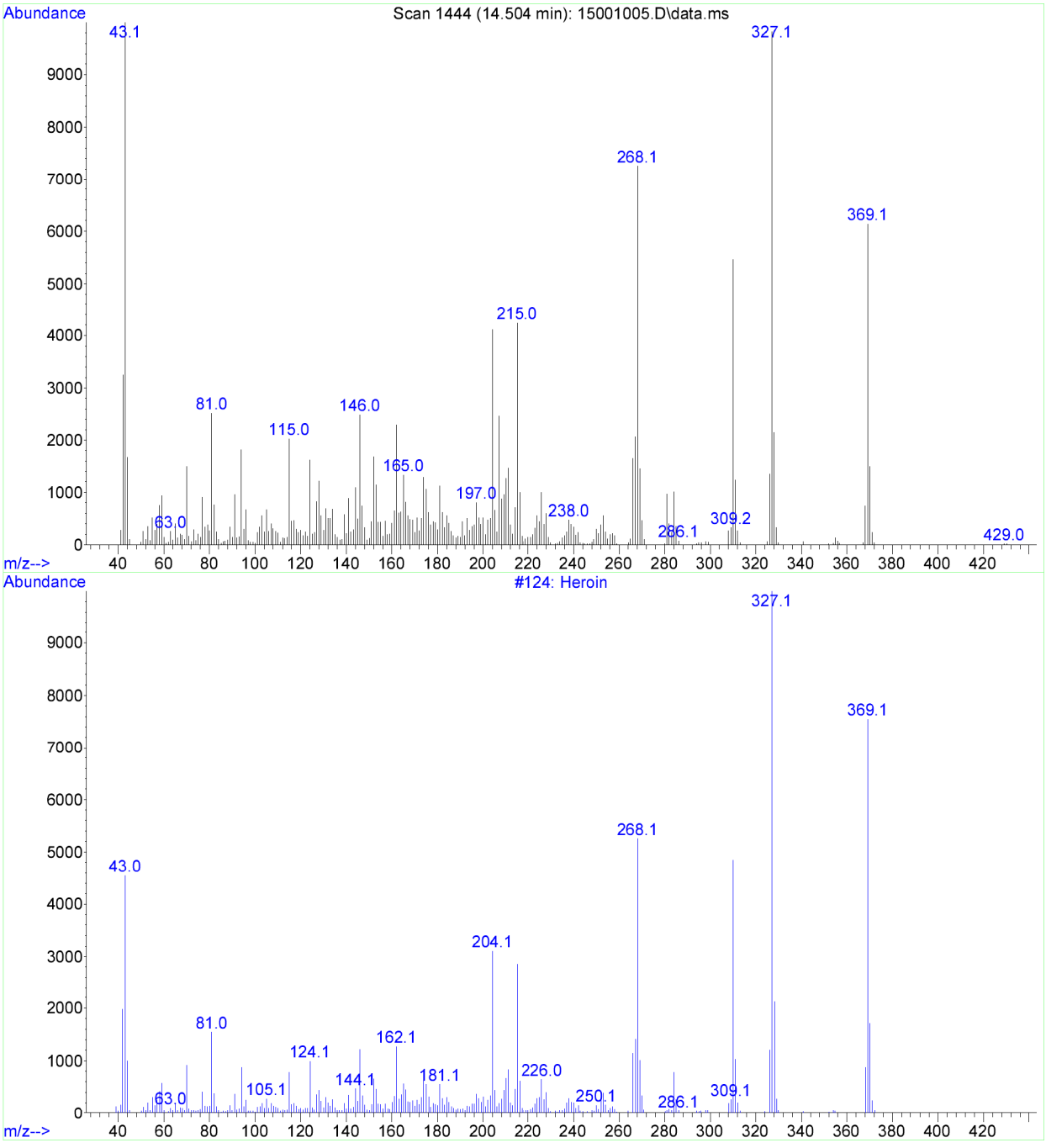
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File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\082525\15001005.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 25 Aug 2025  10:48     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
```



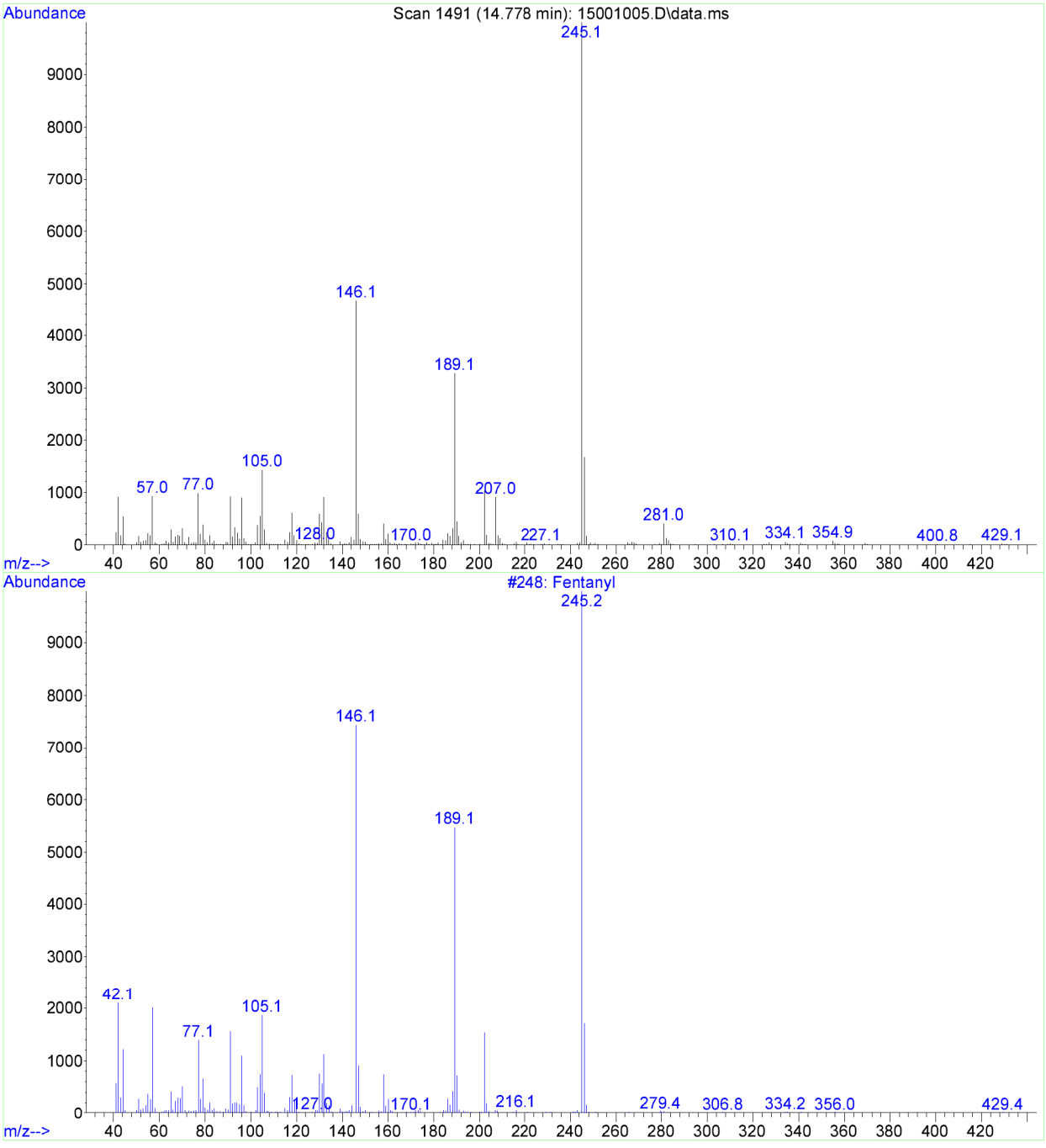
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...          Data\082525\15001005.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 25 Aug 2025  10:48     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
```



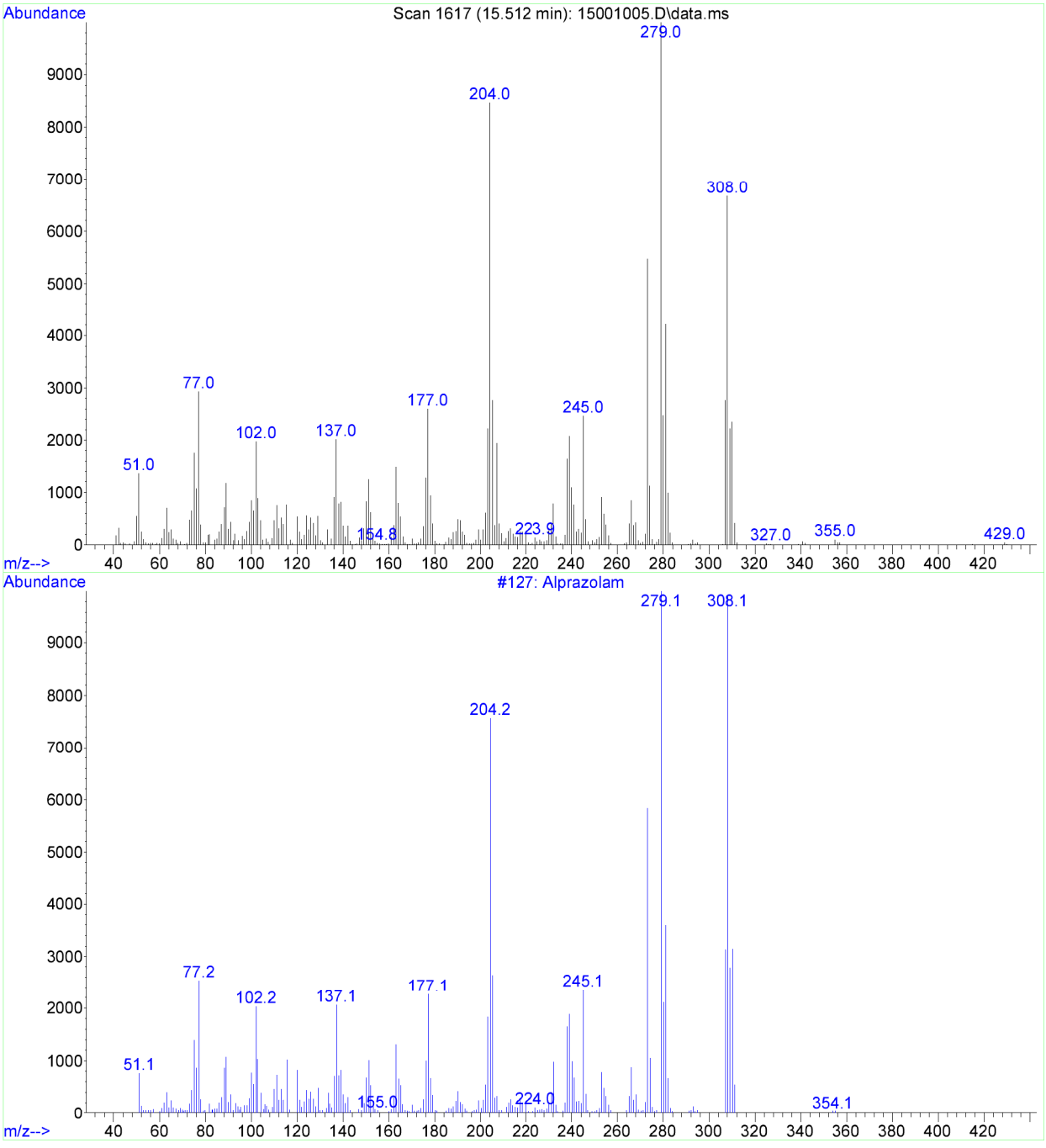
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File        :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...           Data\082525\15001005.D
Operator    : DrugChem-HP\admin
Instrument  :   BCCL SD GCMS 3
Acquired    : 25 Aug 2025  10:48     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info   :                                               000002667
```



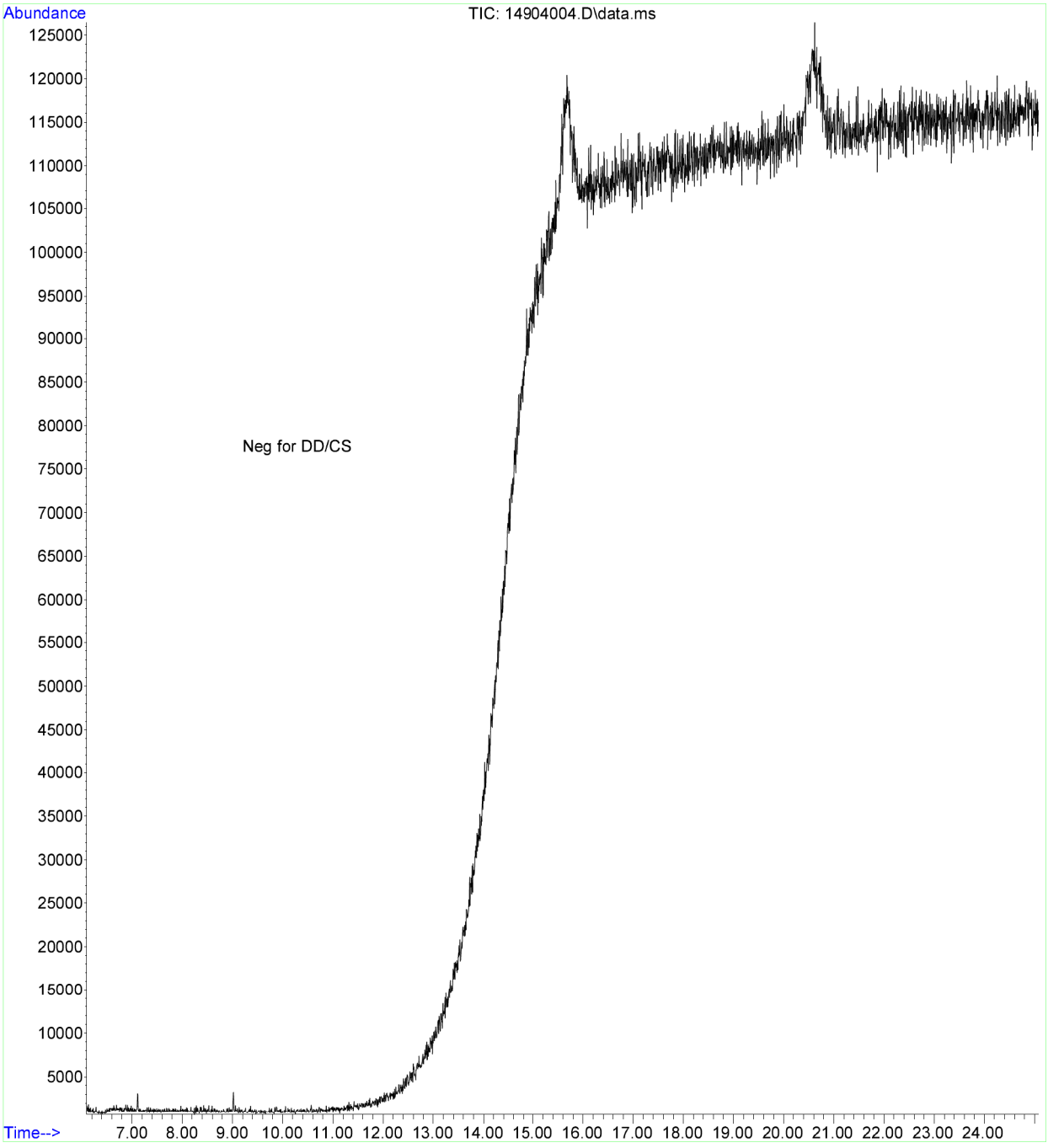
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...          Data\082525\15001005.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 25 Aug 2025  10:48     using AcqMethod DrugTest35.M
Sample Name: CAYMAN GC/MS MIX 3 (R-24-060)                  000002667
Misc Info  :                                                000002667
```



```
File       :D:\MassHunter\GCMS\1\GCMS 3 data\Standards\Weekly Check\2025
...          Data\082525\15001005.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 25 Aug 2025  10:48     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\082525\14904004.D
Operator : DrugChem-HP\admin
Instrument : BCCL SD GCMS 3
Acquired : 25 Aug 2025 10:19 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\082525\14901006.D
Operator   : DrugChem-HP\admin
Instrument :   BCCL SD GCMS 3
Acquired   : 25 Aug 2025  11:16     using AcqMethod DrugTest35.M
Sample Name: BLANK (C-19-0068) - INSTRUMENT READY          000002666
Misc Info  :                                               000002666
```

