BRAZORIA COUNTY SHERIFF'S OFFICE
CRIME LABORATORY

Seized Drugs Section
GC/MS #4 - Preventative Maintenance and Performance Check

June 6, 2025

On May 30, 2025, Preventative Maintenance servicing was performed on SD GC/MS #4 by Agilent Technology. The preventative maintenance consisted of source cleaning, filament replacement, inlet maintenance to include gold seal and liner replacement. The column was replaced with a new column, a DB-35MS-UI column with the dimensions of 30 meters x 0.250mm x 0.25µm. The maintenance was scheduled as part of the ongoing yearly instrument maintenance program at the Laboratory. LOG-15-09 speaks to the performance verification check to be performed after instrument repair or maintenance. Section 3.5 reads:

> Maintenance work performed on an instrument shall be completed either by an instrument service technician or by an individual having knowledge pertinent to instrument repair. After an instrument is repaired, it shall be tested to verify that it is functioning properly by the satisfactory analysis of a positive control.

After completion of the servicing, the instrument was allowed to pump down for several hours. On Tuesday morning – June 3, the instrument was tuned to verify that the mass spectrometer could accurately assign mass values and that there were no leaks in the system. The instrument passed the tune demonstrating accurate mass assignment with no leaks detected. On Tuesday morning, June 3, a performance check was commenced to verify the instrument was fit for purpose. The Laboratory utilizes as a primary method on this instrument an analysis that will identify most unknown substances submitted. This method is titled DrugTest35. Additional methods are also utilized for more sensitive substances such as psilocin and higher temperature eluting substances such as sildenafil. These methods are DrugTest35_20x and DrugTest35-FHTI respectively. A review of the data generated by the performance check begun on June 4 revealed there was a problem with one of the standards, psilocin (R-24-030), datafile SD GCMS 3 PC-060325-011). The data for this sample appeared negative. Upon further investigation it was noticed that the vial was low on standard. Reconstitution solvent was added to the vial and was reinjected on June 4. The reinjection produced unacceptable results; the sample still appeared negative. A new psilocin standard (R-25-007) was prepared for analysis. The newly prepared standard also produced unacceptable results; the sample still appeared negative. The new psilocin standard was placed on GCMS #1 to verify the preparation of the standard. The analysis on GCMS #1 produced acceptable results, confirming the preparation of the new psilocin standard. Maintenance was performed on GCMS #4 replacing the current syringe with a new syringe, and the psilocin standard was reinjected on June 6. Reinjection of the standard after replacing the syringe produced acceptable results for the psilocin standard.

The column installed, DB-35MS UI (Serial # US2637512H), and methods (DrugTest35 and DrugTest35_20x) delivered results which were consistent with prior results. This included mass spectra verification with the reference libraries utilized by the Seized Drug section. Also, retention time verification for all tested substances were evaluated against past testing of the system. This evaluation determined that all retention times after the preventative maintenance were slightly higher as compared with before preventative maintenance retention times. This outcome is expected, as the column is new and the number of theoretical plates differs from those of the previous column. DrugTestFHTI was a test method crafted by

adding additional hold time to the end of the DrugTest35 method to extend the run time to forty minutes, thereby allowing time for more complex substances like sildenafil to elute.

As with the prior performance check, baseline resolution is of utmost importance. Therefore, the realization that some compounds may co-elute while others may barely provide baseline separation is paramount. Observing the drugs standards analyzed by this system did reveal most drugs separated with baseline resolution. However, there are several substances that did not achieve baseline resolution such as carisoprodol, phencyclidine (PCP), morphine, hydrocodone, p-fluorofentanyl, and oxycodone using the DrugTest35 method. The possibility of co-eluting substances is an area where an analyst must stay on-guard. Changes to the system or column degradation may constitute an environment whereby baseline separation is no longer possible. The analyst must stay vigilant in the diagnosis of the system from week to week to determine if the system is capable of delivering accurate data that can be utilized in the separation and mass spectral identification of unknown compounds. Knowledge gained through training and experience should be utilized to make the appropriate determination as to whether a correct identification can be made or whether additional analysis and/or system diagnosis is required.

As with the previous performance check, no attempt was made to establish a limit of detection on this system set-up due to its qualitative nature. However, if newer methods are incorporated onto this system, limits of detection for commonly encountered drugs should be considered.

Table detailing standards analyzed on GC/MS #4:

#	Drug Standard	Ref #	Method	Retention Time
001.1	Methamphetamine	R-24-060	DrugTest35	8.207
001.2	Cocaine	R-24-060	DrugTest35	14.819
001.3	Heroin	R-24-060	DrugTest35	16.635
001.4	Fentanyl	R-24-060	DrugTest35	16.714
001.5	Alprazolam	R-24-060	DrugTest35	19.184
002	Carisoprodol	R-24-018	DrugTest35	13.436
003	Hydrocodone	R-24-033	DrugTest35	16.071
004	Eutylone	S-24-066	DrugTest35	13.210
005	Codeine	R-23-022	DrugTest35	15.728
006	Oxycodone	R-24-075	DrugTest35	16.435
007	Delta-8-THC	R-24-040	DrugTest35	15.423
008	Tramadol	R-24-014	DrugTest35	13.713
009	LSD	R-24-021	DrugTest35_20x	21.094
010	Testosterone (expired)	R-22-040	DrugTest35	16.752
011	Psilocin – Run #1	R-24-030	DrugTest35_20x	N/A
012	Phencyclidine (PCP) (expired)	R-24-017	DrugTest35	13.434
013	ADB-FUBINACA	R-24-045	DrugTest35	19.515
014	MMB-FUBINACA	R-24-042	DrugTest35	17.312
015	Amphetamine	R-24-035	DrugTest35	7.719
016	Buprenorphine	S-22-008	DrugTest35	22.535

017	Sildenafil (expired)	R-22-029	DrugTest35FHTI	38.609
018	Methadone	R-24-015	DrugTest35	14.314
019	Hydromorphone	R-24-023	DrugTest35	16.203
020	Morphine	R-24-024	DrugTest35	16.006
021	m-fluorfentanyl	R-24-039	DrugTest35	16.334
022	p-fluorofentanyl	S-22-063	DrugTest35	16.451
023	4'-chlorodescholoroaplrazolam (expired)	R-22-055	DrugTest35	20.346
024	Trazodone	R-24-012	DrugTest35	24.115
025	Promethazine	R-24-022	DrugTest35	15.065
026	Etizolam	R-24-029	DrugTest35	19.778
027	Flualprazolam	R-24-047	DrugTest35	18.553
028	2C-I	R-24-048	DrugTest35	13.764
029	3,4-methlyenedioxymethamphetamine (expired)	R-22-028	DrugTest35	11.747
030	Diphenhydramine	R-24-076	DrugTest35	13.330
011.2	Psilocin - Run #2	R-24-030	DrugTest35_20x	N/A
011.3	Psilocin – Run #3	R-25-007	DrugTest3_20x	N/A
011.4	Psilocin – Run #4	R-25-007	DrugTest35_20x	N/A
011.5	Psilocin – Run #5	R-25-007	DrugTest35_20x	14.439

In conclusion, SD GC/MS #4 was evaluated for mass spectral and retention time identification based on its annual preventative maintenance visit. The system was able to correctly identify numerous substances by mass fragmentation patterns. Additionally, retention times were documented during this analysis. Retention times were slightly elevated as compared to past retention times. This was expected due to the column being new. The system is recommended for the continued GC/MS analysis of submitted samples to the Laboratory. This write-up, along with the checklist generated by the Agilent technician will be maintained on the share drive.



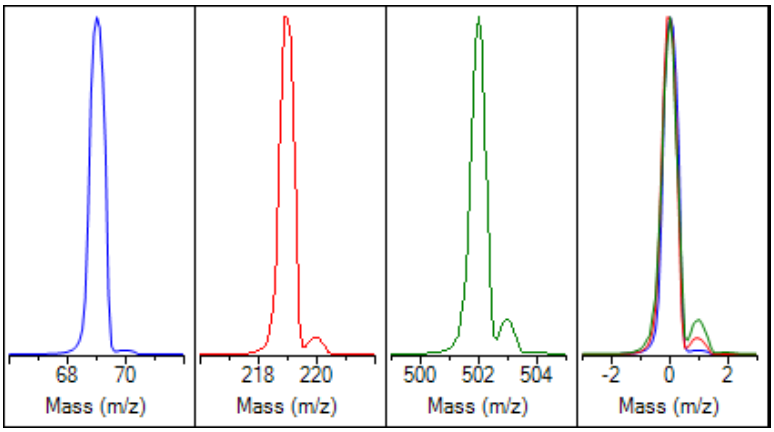
Kayla M. Baylor,
Seized Drug Analyst

tune prior to PM, air and water check and tune evaluation not performed
_KB 6/6/2025

High Efficiency Source Autotune - 5977

Tune timestamp: 5/30/2025 11:17 AM (UTC-05:00) GCMS #4

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



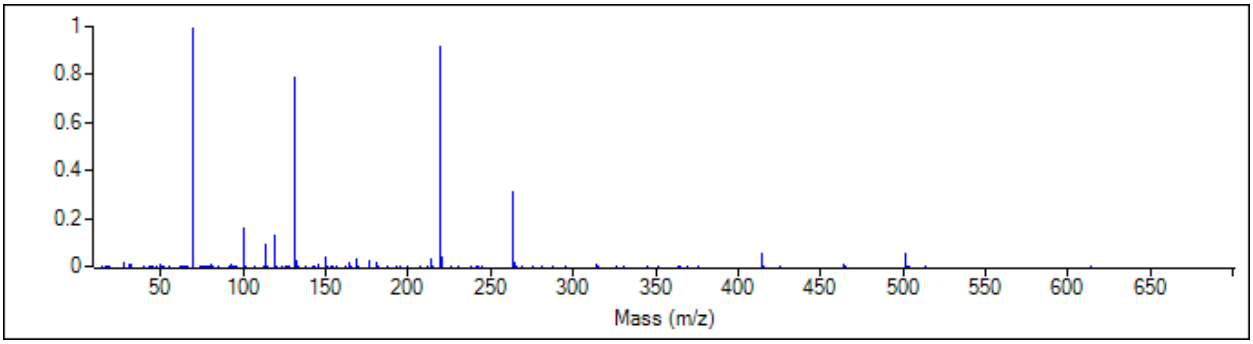
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	87
Electron Energy	70.0	Mass Offset	-27
Filament	1	Amu Gain	2452
Repeller	12.23	Amu Offset	137.44
Ion Focus	149.6	Width219	0.001
Entrance Lens	10.1	DC Polarity	Pos
Ent Lens Offset	13.90	HED Enable	On
Ion Body	4.75	EM Volts	2249.4
Post Extractor 1	12	Extractor Lens	13.80
Post Extractor 2	33	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	484,690	100.0%	0.60
218.90	432,816	89.3%	0.59
502.00	27,662	5.7%	0.59

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	8.19e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	119	69.00	458,432	1,819,175



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	458,432	100.0%	70.00	5,510	1.2%
219.00	219.00	420,224	91.7%	220.00	19,616	4.7%
502.00	502.00	25,088	5.5%	503.00	2,769	11.0%

Air/Water Check: H20 ~0.1% N2 ~2.0% O2 ~0.6% CO2 ~0.1% N2/H20 ~1610.1%

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

Ramp Criteria:

Ion Focus maximum 128 volts using ion 502; Electron Multiplier Gain 13649.675

Repeller maximum 35 volts using ion 219; Gain Factor 0.1365

Mass Gain Values(Scan Speed): 96(3) 98(2) 106(1) 123(0) 175(FS1) 174(FS2) 119(FS3)

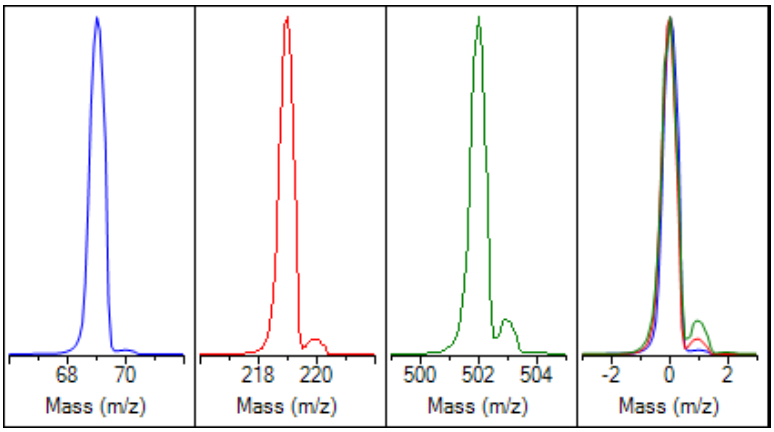
TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	137.4	137.4	137.4	137.4	137.4	137.4	137.4
Entrance Lens Offset	13.9	13.9	13.9	13.9	13.9	13.9	13.9

tune after PM -KB 6/6/2025

High Efficiency Source Autotune - 5977

Tune timestamp: 6/3/2025 9:42 AM (UTC-05:00) GCMS #4

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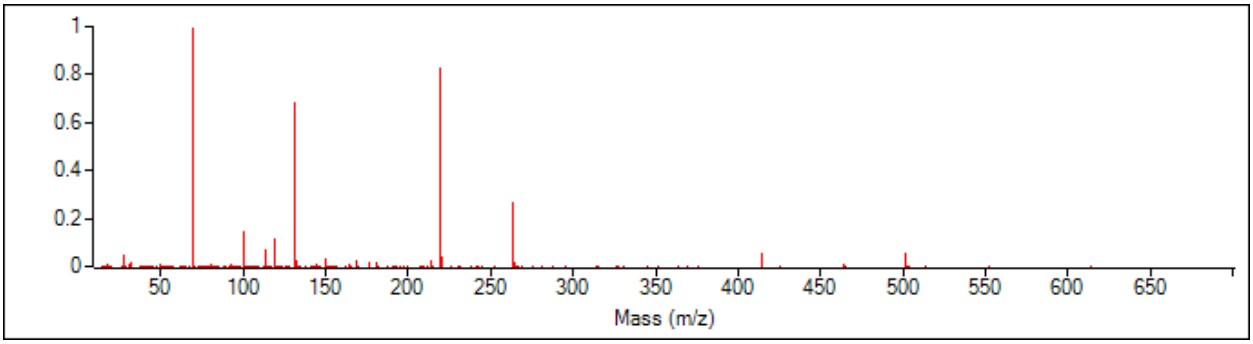
Ion Polarity	Pos	PFTBA	Open
Emission	100.0	Mass Gain	88
Electron Energy	70.0	Mass Offset	-28
Filament	1	Amu Gain	2460
Repeller	14.79	Amu Offset	136.50
Ion Focus	149.6	Width219	0.001
Entrance Lens	7.5	DC Polarity	Pos
Ent Lens Offset	18.23	HED Enable	On
Ion Body	4.75	EM Volts	2058.8
Post Extractor 1	10	Extractor Lens	14.20
Post Extractor 2	31	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	503,658	100.0%	0.61
219.00	424,904	84.4%	0.59
502.00	28,302	5.6%	0.61

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	7.83e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	164	69.00	474,880	1,771,182



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	474,880	100.0%	70.00	6,084	1.3%
219.00	219.00	392,384	82.6%	220.00	18,544	4.7%
502.00	502.00	25,368	5.3%	503.00	2,621	10.3%

Air/Water Check: H20 ~0.8% N2 ~5.2% O2 ~1.5% CO2 ~0.4% N2/H20 ~636.6%

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

Ramp Criteria:

Ion Focus maximum 128 volts using ion 502; Electron Multiplier Gain 12665.369

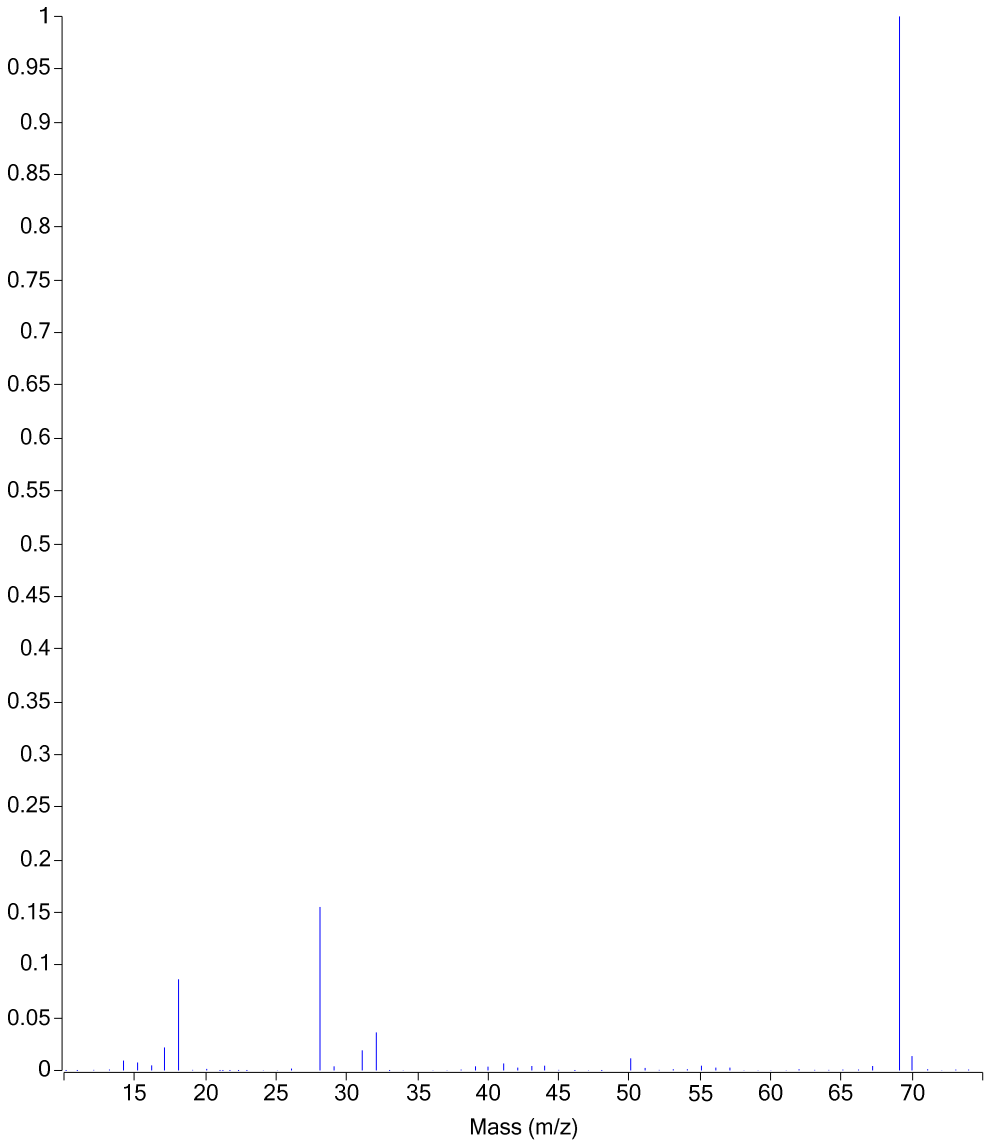
Repeller maximum 35 volts using ion 219; Gain Factor 0.1267

Mass Gain Values(Scan Speed): 94(3) 104(2) 108(1) 116(0) 169(FS1) 168(FS2) 146(FS3)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	136.5	136.5	136.5	136.5	136.5	136.5	136.5
Entrance Lens Offset	18.2	18.2	18.2	18.2	18.2	18.2	18.2

597x Air and Water Check

Instrument: GCMS #4
Tue Jun 03 09:31:33 2025 D:\MassHunter\GCMS\1\5977\



Current Params used: HES_Atune.u

Relative abundances:

18/69 =	8.64	Water%	(counts=72392)
28/69 =	15.51	Nitrogen%	(counts=129952)
32/69 =	3.62	Oxygen%	(counts=30312)
44/69 =	0.45	Carbon Dioxide%	(counts=3779)
28/18 =	179.51	Nitrogen/Water%	

Instrument Name : GCMS #4
DC Polarity : Positive
Filament 1
Current Vacuum status :High Vacuum: 5.85E-06 Torr Turbo:100%

BasePeak should be 69 or 219		OK
Position of mass 69	69.00	OK
Position of mass 219	219.00	OK
Position of mass 502	502.03	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%)	1.29	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.66	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.23	OK
Ratio of 219 to 69 should be > 40% and is	82.25	OK
Ratio of 502 to 69 should be > 2.4% and is	5.22	OK
Mass 69 Precursor (<= 3%)	0.89	OK
Mass 219 Precursor (<= 6%)	2.90	OK
Mass 502 Precursor (<= 12%)	5.24	OK

597x Air and Water Check
Tue Jun 03 09:46:51 2025 Instrument: GCMS #4
D:\MASSHUNTER\GCMS\1\5977\HES_Atune.u US1837D002

Testing for a leak in the system		
Ratio of 18 to 69 (<20%)	0.78	OK
Ratio of 28 to 69 (<10%)	5.06	OK
Electron Multiplier Voltage	2059	OK

Tune portion of System Verification passed.

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Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
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Method Sections To Run
(X) Full Method
( ) Reprocessing Only

Sequence Barcode Options
(X) On Mismatch, Inject Anyway
( ) On Mismatch, Don't Inject
( ) Barcode Disabled

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	Datafile		BLK001		
	Method		HOT TEMP BLANK		
2)	Blank	40	Blank (C-22-0046B)		
	Datafile		BLK002		
	Method		HOT TEMP BLANK		
3)	Blank	1	Blank prior to Cayman Mix (C-		
	Datafile		BLK003		
	Method		DrugTest35MS		
4)	Sample	2	Cayman GC-Mix 3 (R-24-060)		
	Datafile		SD GCMS 3 PC-060325-001		
	Method		DrugTest35MS		
5)	Blank	40	EtAC Blank (C-22-0046B)		
	Datafile		BLK004		
	Method		DrugTest35MS		
6)	Sample	3	Carisoprodol Std (R-24-018)		
	Datafile		SD GCMS 3 PC-060325-002		
	Method		DrugTest35MS		
7)	Sample	4	Hydrocodone Std (R-24-033)		
	Datafile		SD GCMS 3 PC-060325-003		
	Method		DrugTest35MS		
8)	Sample	5	Eutylone Std (S-24-066)		
	Datafile		SD GCMS 3 PC-060325-004		
	Method		DrugTest35MS		
9)	Sample	6	Codeine Std (R-23-022)		
	Datafile		SD GCMS 3 PC-060325-005		
	Method		DrugTest35MS		
10)	Sample	7	Oxycodone Std (R-24-075)		
	Datafile		SD GCMS 3 PC-060325-006		
	Method		DrugTest35MS		
11)	Blank	8	delta-8-THC Std (R-24-040)		
	Datafile		SD GCMS 3 PC-060325-007		
	Method		DrugTest35MS		
12)	Sample	9	Tramadol Std (R-24-014)		
	Datafile		SD GCMS 3 PC-060325-008		
	Method		DrugTest35MS		
13)	Sample	10	LSD Std (R-24-021)		
	Datafile		SD GCMS 3 PC-060325-009		
	Method		DrugTest35MS_20X		

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Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

Sequence Barcode Options
(X) On Mismatch, Inject Anyway
( ) On Mismatch, Don't Inject
( ) Barcode Disabled

Line	Type	ALS	File	Method	Sample Name/Misc Info
1)	Blank	40	Blank (C-22-0046B)		
	Datafile		BLK001		
	Method		HOT TEMP BLANK		
2)	Blank	40	Blank (C-22-0046B)		
	Datafile		BLK002		
14)	Sample	11	Testosterone Std (R-22-040)		
	Datafile		SD GCMS 3 PC-060325-010		
	Method		DrugTest35MS		
15)	Sample	12	Psilocin Std (R-24-030)		
	Datafile		SD GCMS 3 PC-060325-011		
	Method		DrugTest35MS_20X		
16)	Blank	40	Blank (C-22-0046B)		
	Datafile		BLK005		
	Method		DrugTest35MS		
17)	Sample	13	Phencyclidine Sttd (R-24-017)		
	Datafile		SD GCMS 3 PC-060325-012		
	Method		DrugTest35MS		
18)	Blank	40	Blank (C-22-0046B)		
	Datafile		BLK006		
	Method		DrugTest35MS		
19)	Sample	14	ADB-FUBINACA Std (R-24-045)		
	Datafile		SD GCMS 3 PC-060325-013		
	Method		DrugTest35MS		
20)	Sample	15	MMB-FUBINACA Std (R-24-042)		
	Datafile		SD GCMS 3 PC-060325-014		
	Method		DrugTest35MS		
21)	Blank	16	Amphetamine Std (R-24-035)		
	Datafile		SD GCMS 3 PC-060325-015		
	Method		DrugTest35MS		
22)	Sample	17	Buprenorphine Std (S-22-008)		
	Datafile		SD GCMS 3 PC-060325-016		
	Method		DrugTest35MS		
23)	Blank	40	Blank (C-22-0046B)		
	Datafile		BLK008		
	Method		DrugTest35MS-FHTI		
24)	Sample	18	Sildenafil Std (R-22-029)		
	Datafile		SD GCMS 3 PC-060325-017		
	Method		DrugTest35MS-FHTI		
25)	Blank	40	Blank (C-22-0046B)		

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Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

Sequence Barcode Options
(X) On Mismatch, Inject Anyway
( ) On Mismatch, Don't Inject
( ) Barcode Disabled

Line	Type	ALS	File	Method	Sample Name/Misc Info
1)	Blank	40	Blank (C-22-0046B)		
	Datafile		BLK001		
	Method		HOT TEMP BLANK		
2)	Blank	40	Blank (C-22-0046B)		
	Datafile		BLK002		
	Datafile		BLK009		
	Method		DrugTest35MS		
26)	Sample	19	Methadone Std (R-24-015)		
	Datafile		SD GCMS 3 PC-060325-018		
	Method		DrugTest35MS		
27)	Sample	20	Hydromorphone Std (R-24-023)		
	Datafile		SD GCMS 3 PC-060325-019		
	Method		DrugTest35MS		
28)	Sample	21	Morphine Std (R-24-024)		
	Datafile		SD GCMS 3 PC-060325-020		
	Method		DrugTest35MS		
29)	Sample	22	m-fluorofentanyl Std (R-24-03		
	Datafile		SD GCMS 3 PC-060325-021		
	Method		DrugTest35MS		
30)	Sample	23	p-fluorfentanyl Std (S-22-063		
	Datafile		SD GCMS 3 PC-060325-022		
	Method		DrugTest35MS		
31)	Sample	24	4'chlorodeschloroalprazolam S		
	Datafile		SD GCMS 3 PC-060325-023		
	Method		DrugTest35MS		
32)	Sample	25	Trazodone Std (R-24-012)		
	Datafile		SD GCMS 3 PC-060325-024		
	Method		DrugTest35MS		
33)	Blank	40	Blank (C-22-0046B)		
	Datafile		BLK010		
	Method		DrugTest35MS		
34)	Sample	26	Promethazine Std (R-24-022)		
	Datafile		SD GCMS 3 PC-060325-025		
	Method		DrugTest35MS		
35)	Sample	27	Etizolam Std (R-24-029)		
	Datafile		SD GCMS 3 PC-060325-026		
	Method		DrugTest35MS		
36)	Sample	28	Flualprazolam Std (R-24-047)		
	Datafile		SD GCMS 3 PC-060325-027		

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... K 060325.sequence.xml
Comment: Performance Check
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Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

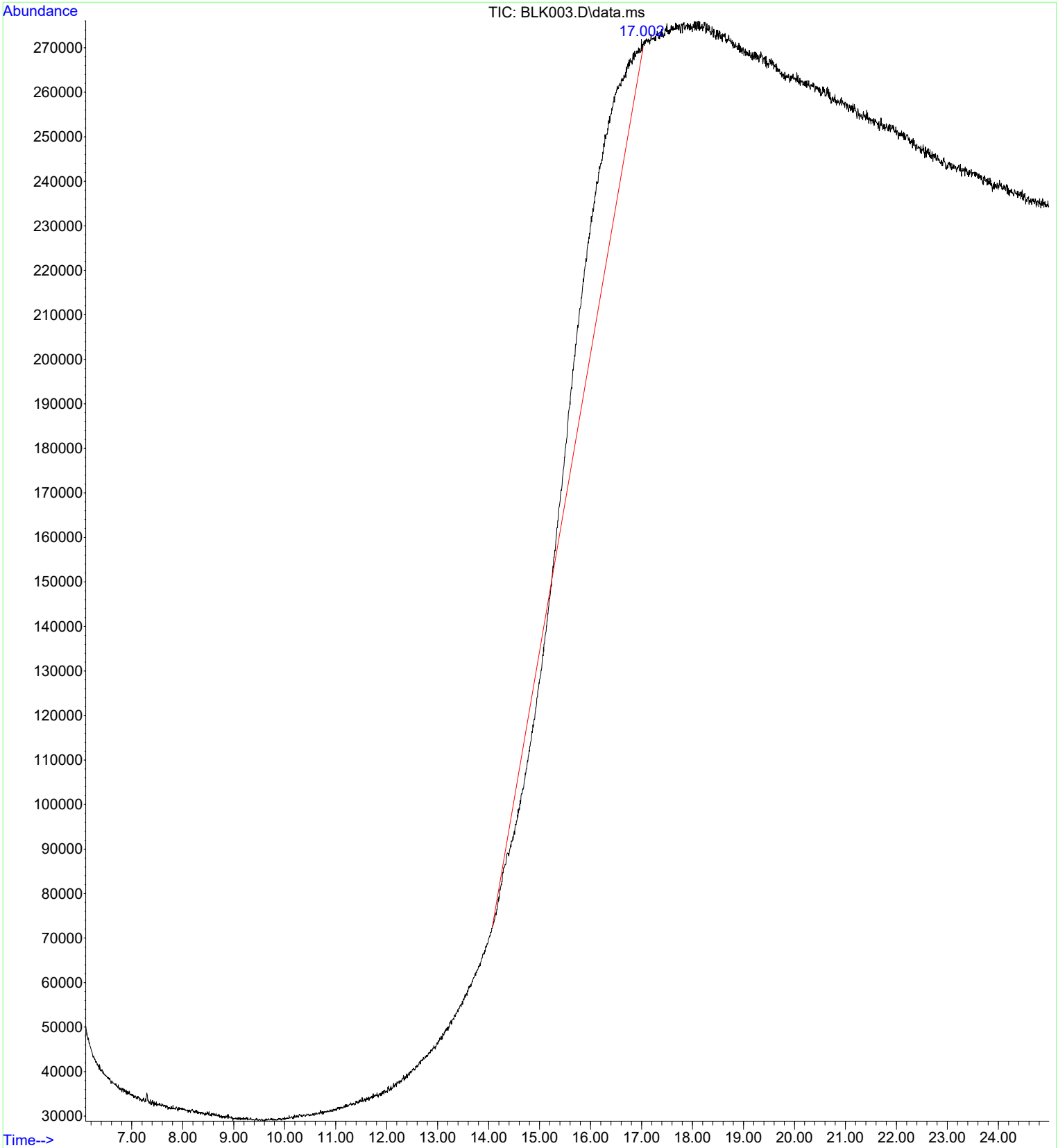
Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

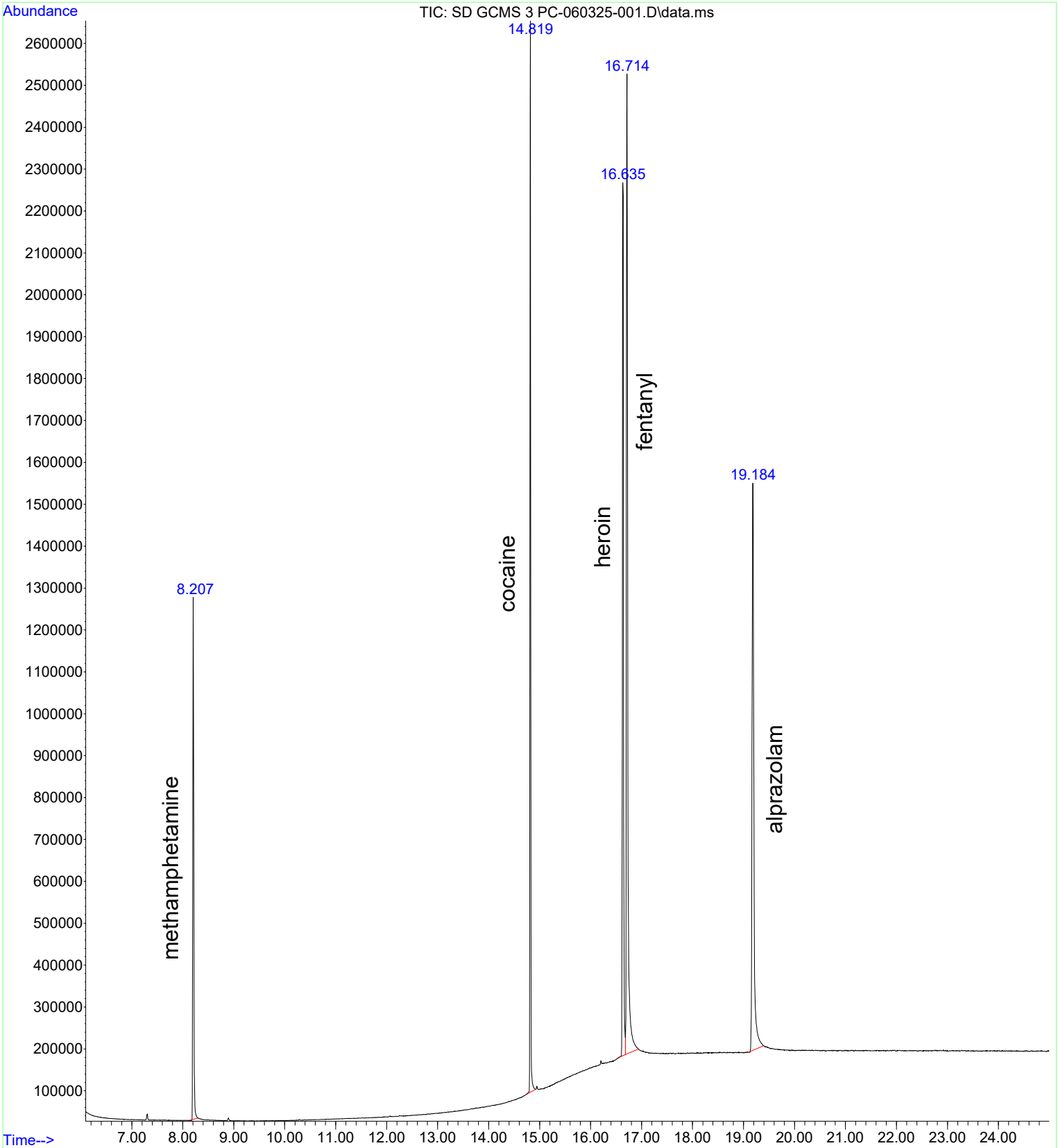
Sequence Barcode Options
(X) On Mismatch, Inject Anyway
( ) On Mismatch, Don't Inject
( ) Barcode Disabled

Line	Type	ALS	File	Method	Sample Name/Misc Info
1)	Blank	40	Blank (C-22-0046B)		
	Datafile		BLK001		
	Method		HOT TEMP BLANK		
2)	Blank	40	Blank (C-22-0046B)		
	Datafile		BLK002		
	Method		DrugTest35MS		
37)	Sample	29	2C-I (R-24-048)		
	Datafile		SD GCMS 3 PC-060325-028		
	Method		DrugTest35MS		
38)	Sample	30	3,4-methylenedioxymethampheta		
	Datafile		SD GCMS 3 PC-060325-029		
	Method		DrugTest35MS		
39)	Blank	40	Blank (C-22-0046B)		
	Datafile		BLK011		
	Method		DrugTest35MS		
40)	Sample	31	Diphenhydramine Std (R-24-076		
	Datafile		SD GCMS 3 PC-060325-030		
	Method		DrugTest35MS		
41)	Blank	1	BlankInstrument Ready (C-22-0		
	Datafile		BLK012		
	Method		DrugTest35MS		

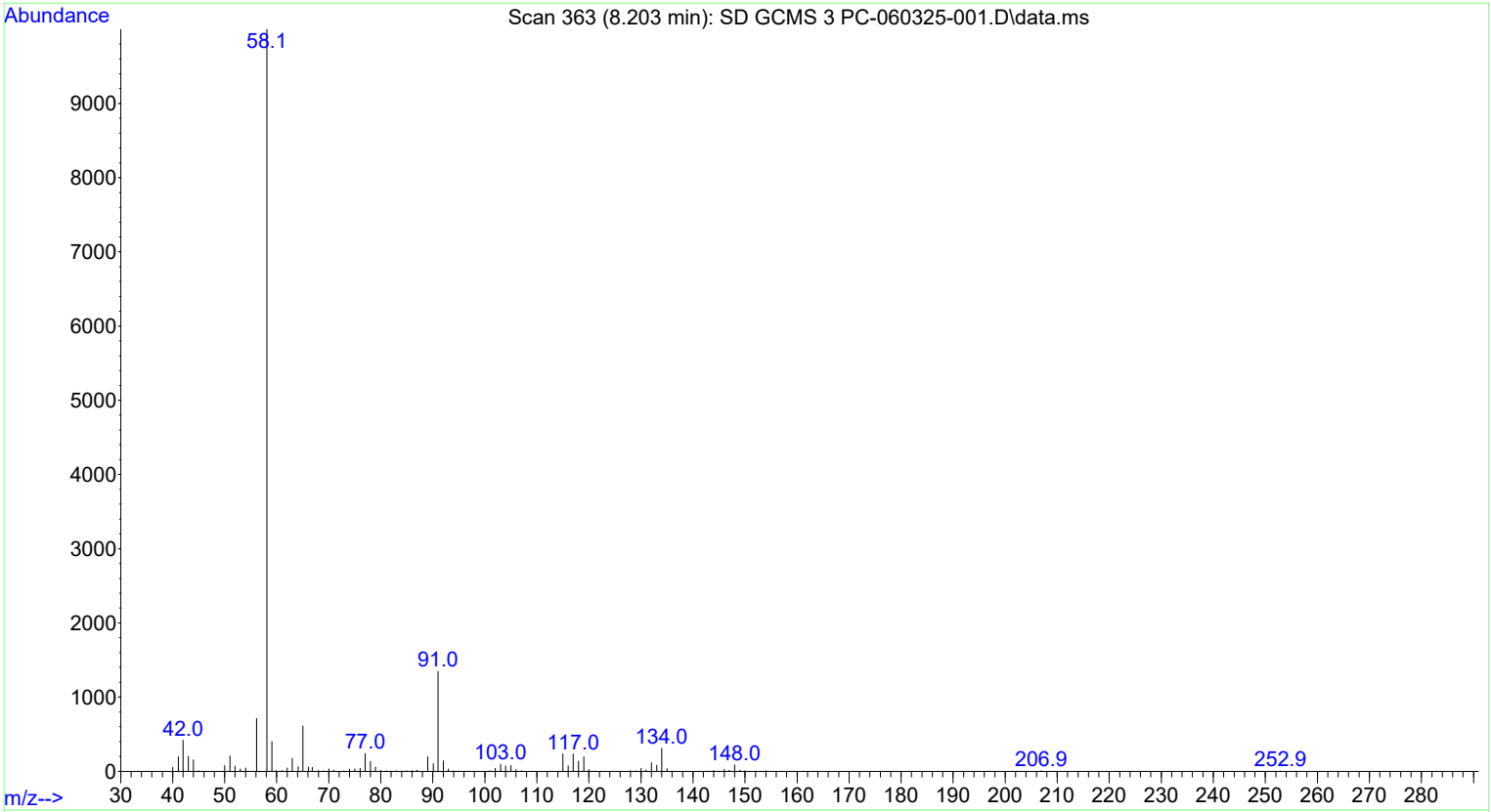
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Instrument : GCMS #4
Sample Name: Blank prior to Cayman Mix (C-19-0068) 000002668
Misc Info : 000002668
Vial Number: 1

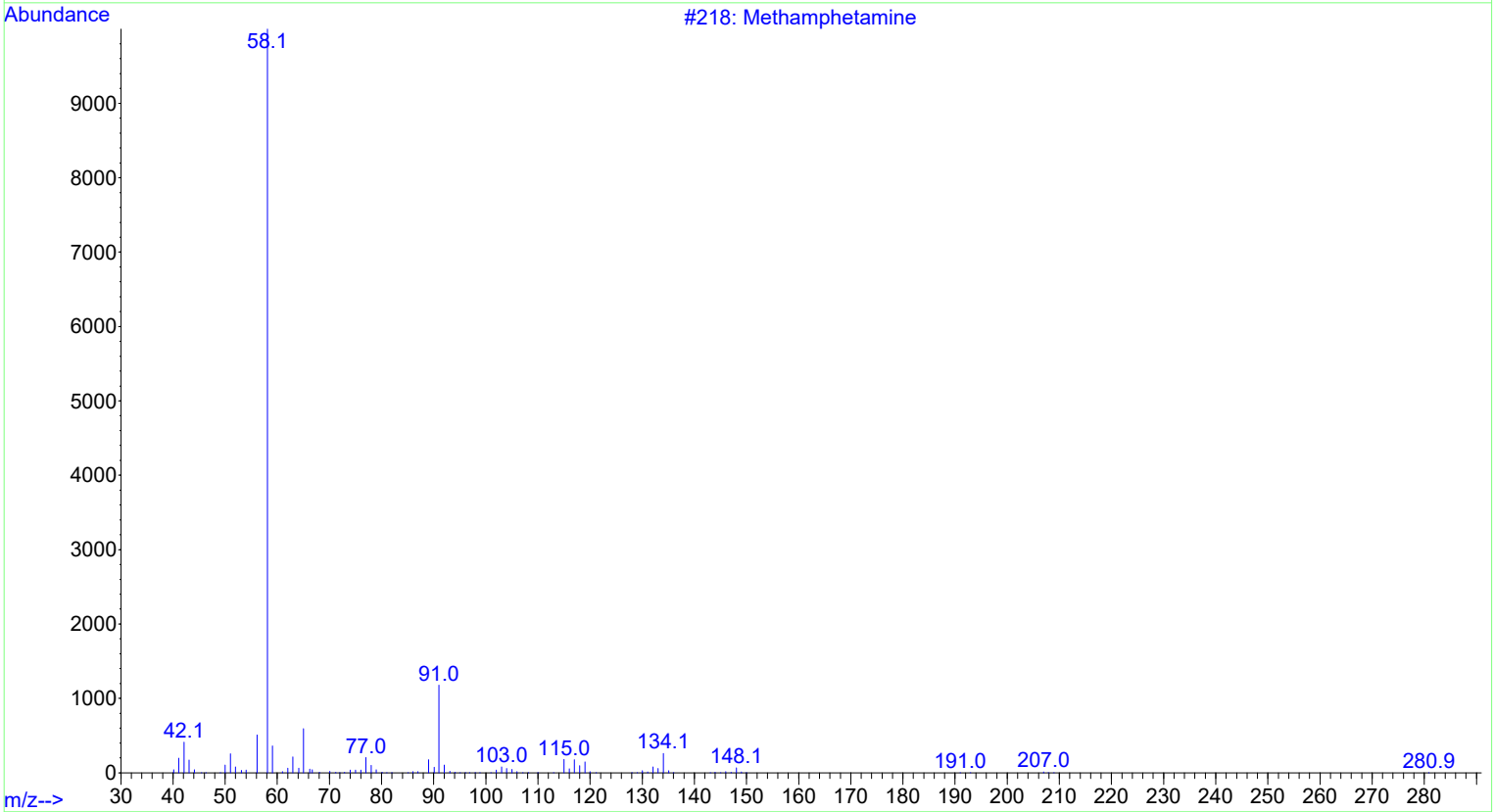


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Instrument : GCMS #4
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Misc Info : 000002669
Vial Number: 2

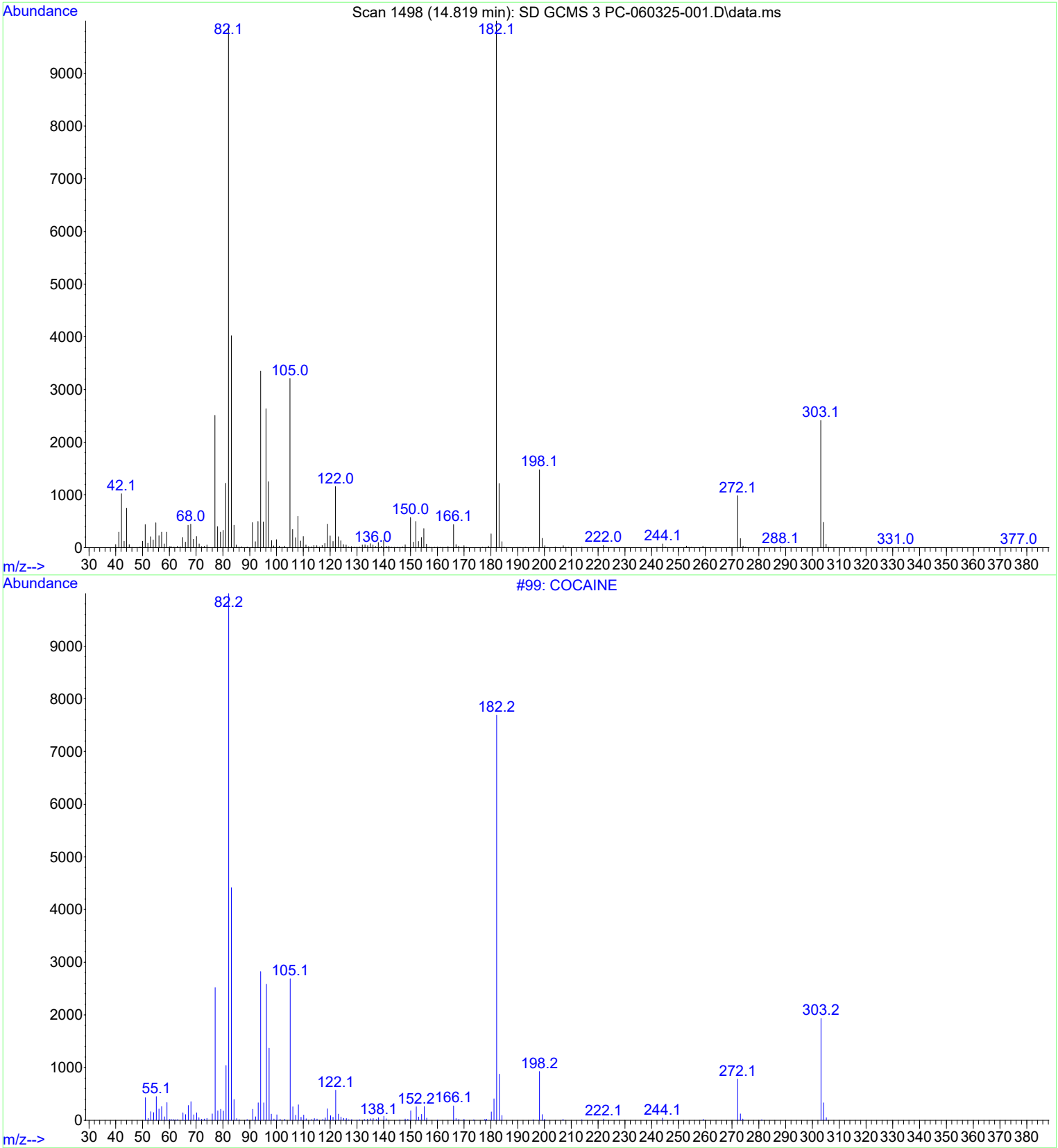


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Instrument : GCMS #4
Sample Name: Cayman GC-Mix 3 (R-24-060) 000002669
Misc Info : 000002669
Vial Number: 2

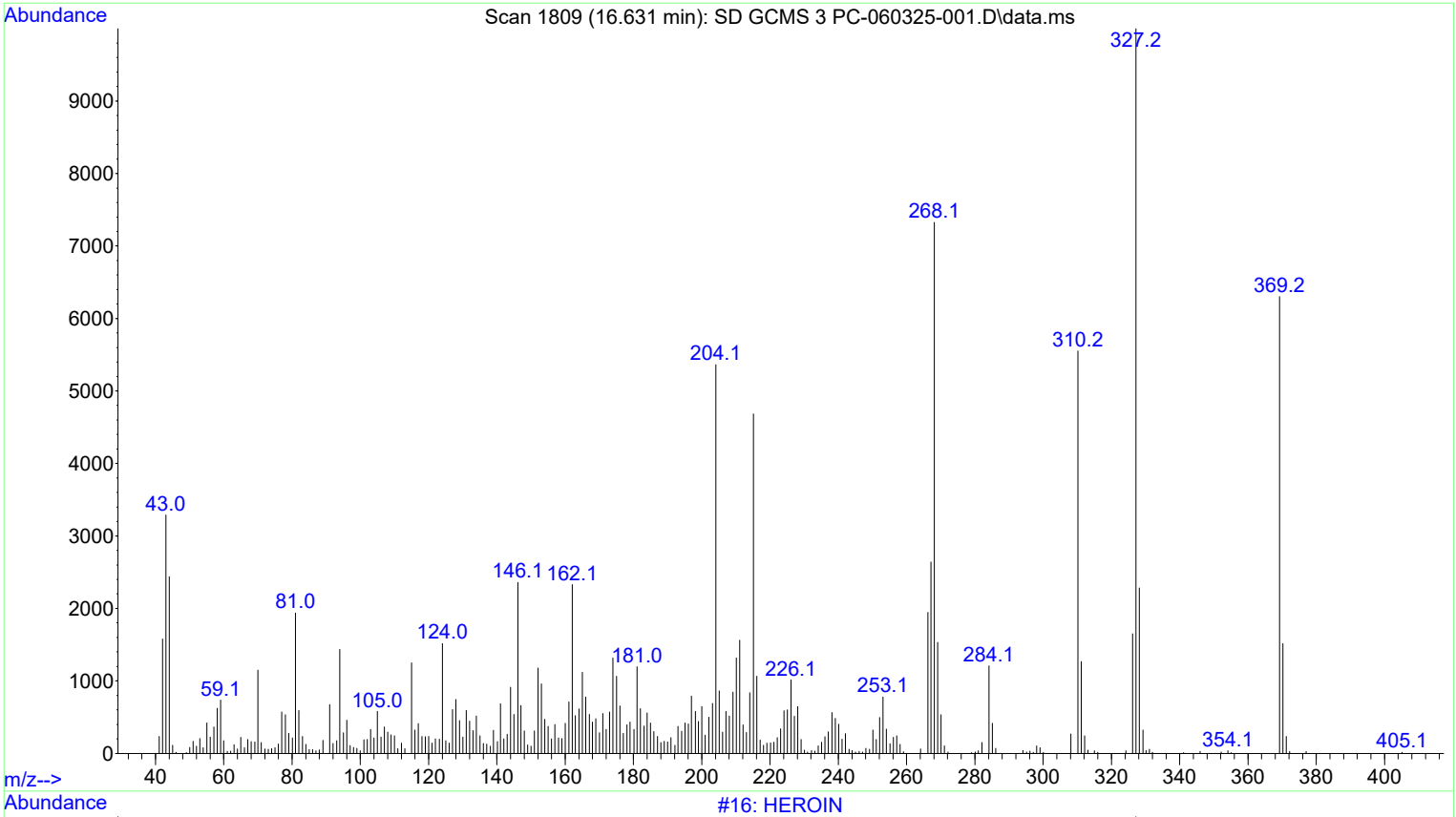


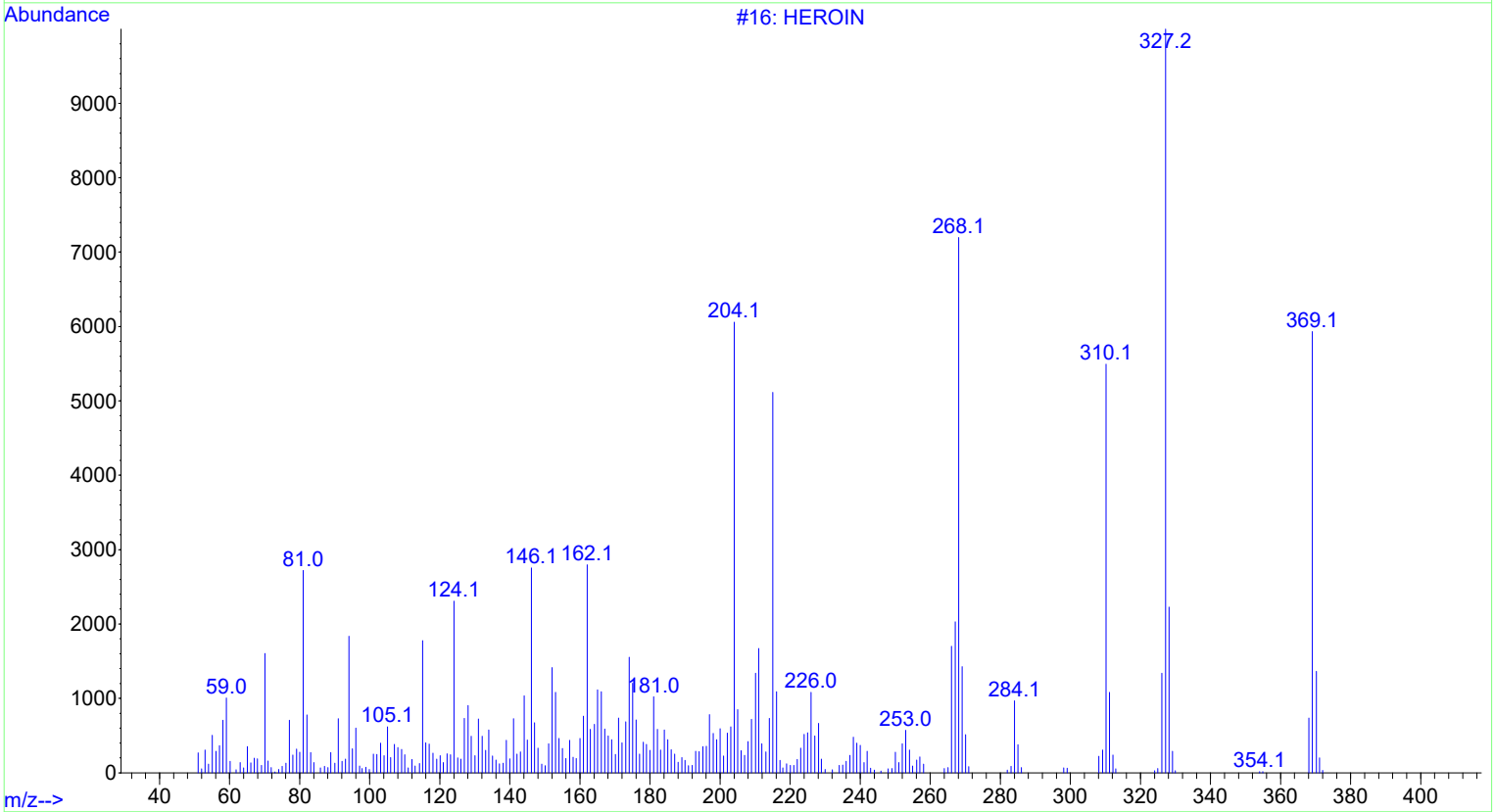


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Sample Name: Cayman GC-Mix 3 (R-24-060)                    000002669
Misc Info  :                                               000002669
Vial Number: 2
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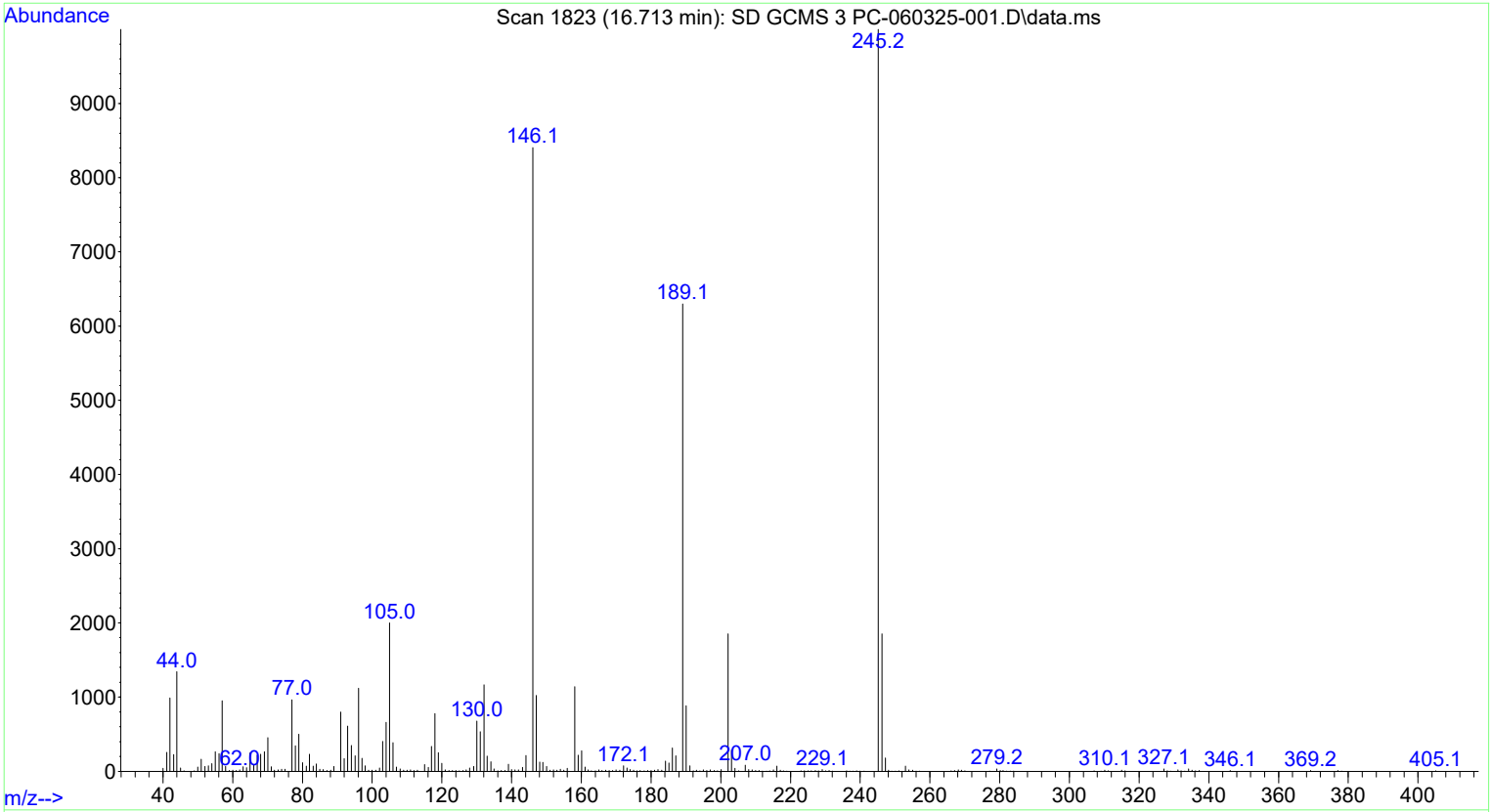


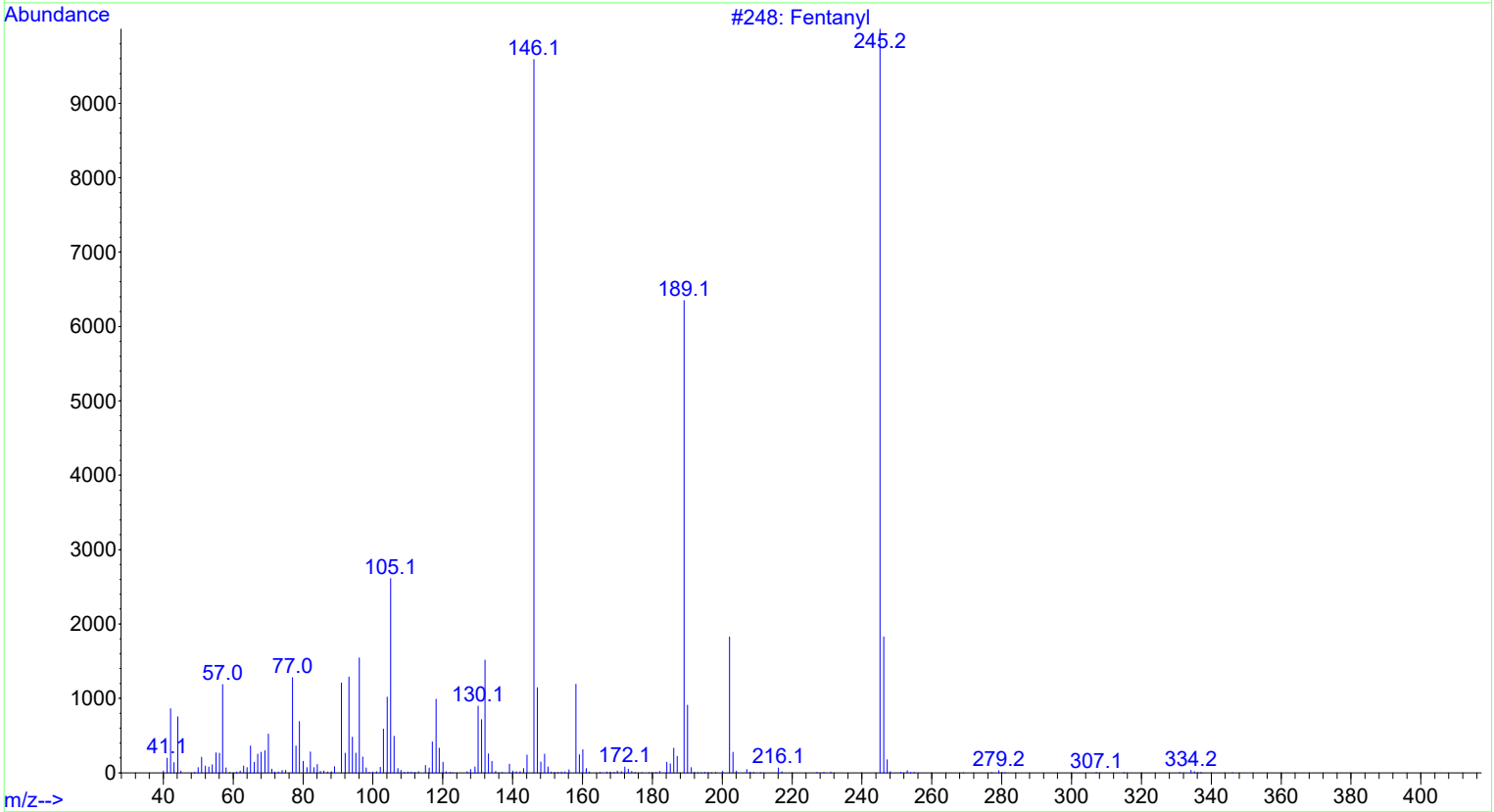
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Instrument : GCMS #4
Sample Name: Cayman GC-Mix 3 (R-24-060) 000002669
Misc Info : 000002669
Vial Number: 2



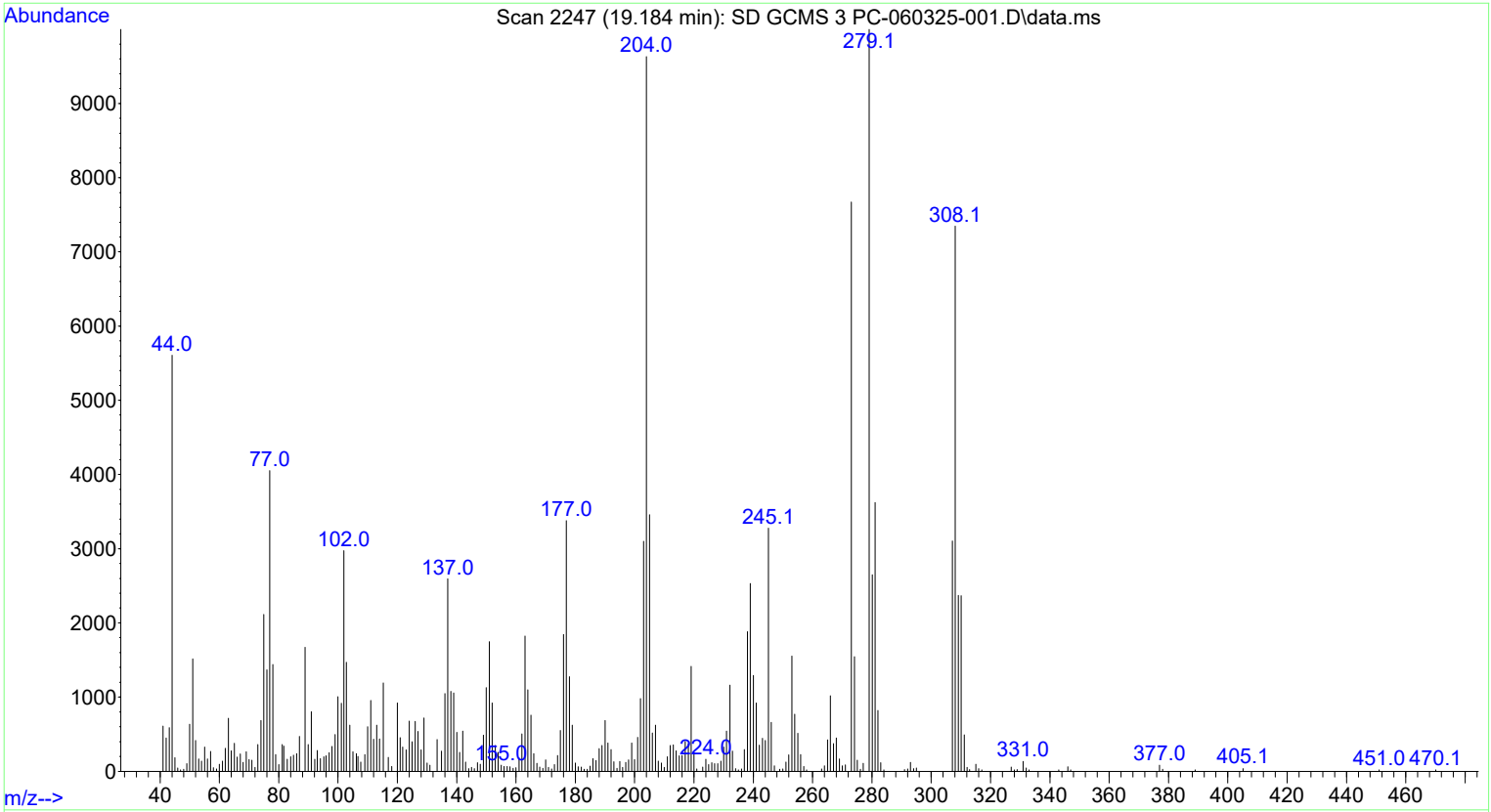


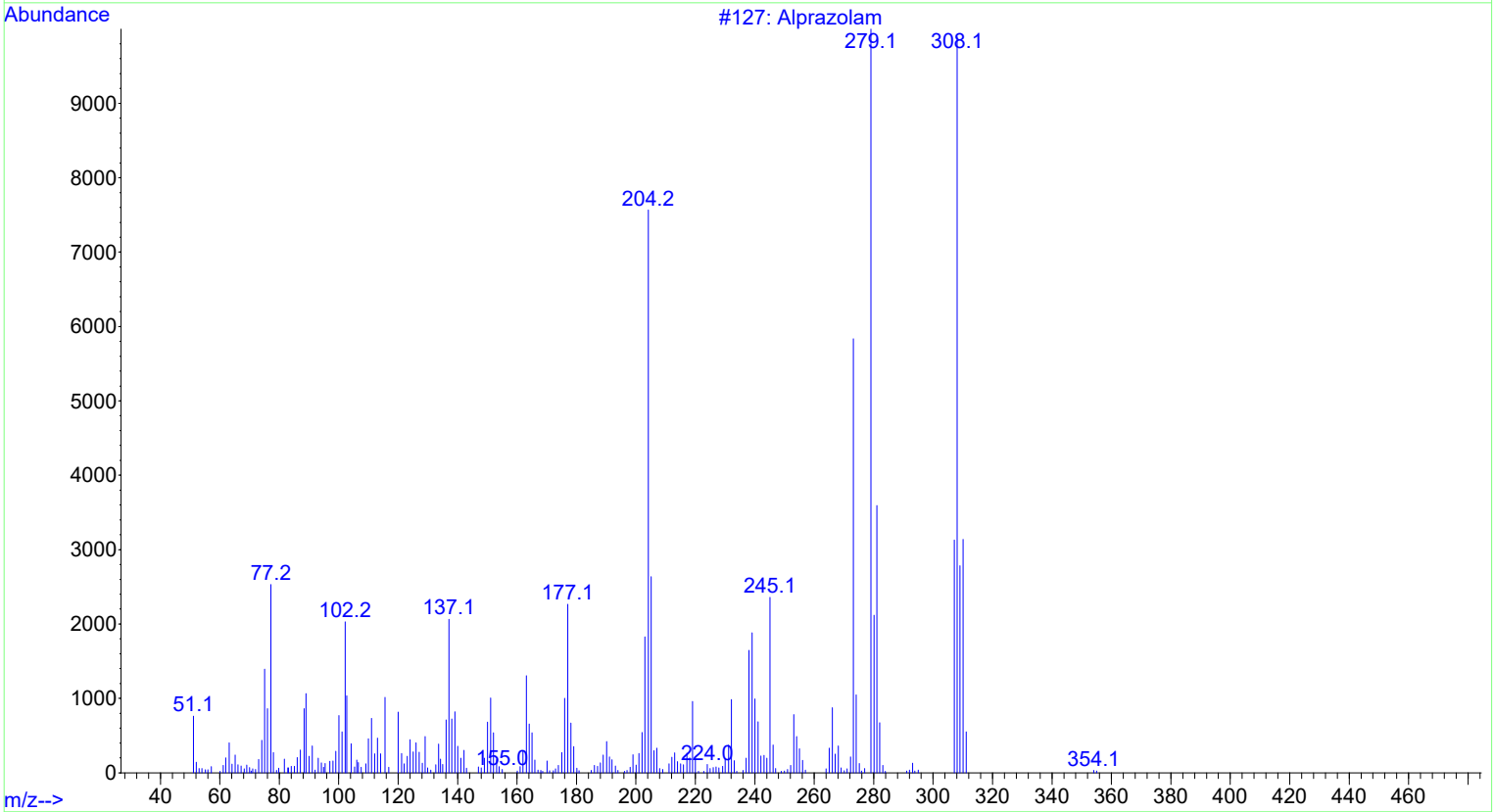
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Instrument : GCMS #4
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Misc Info : 000002669
Vial Number: 2



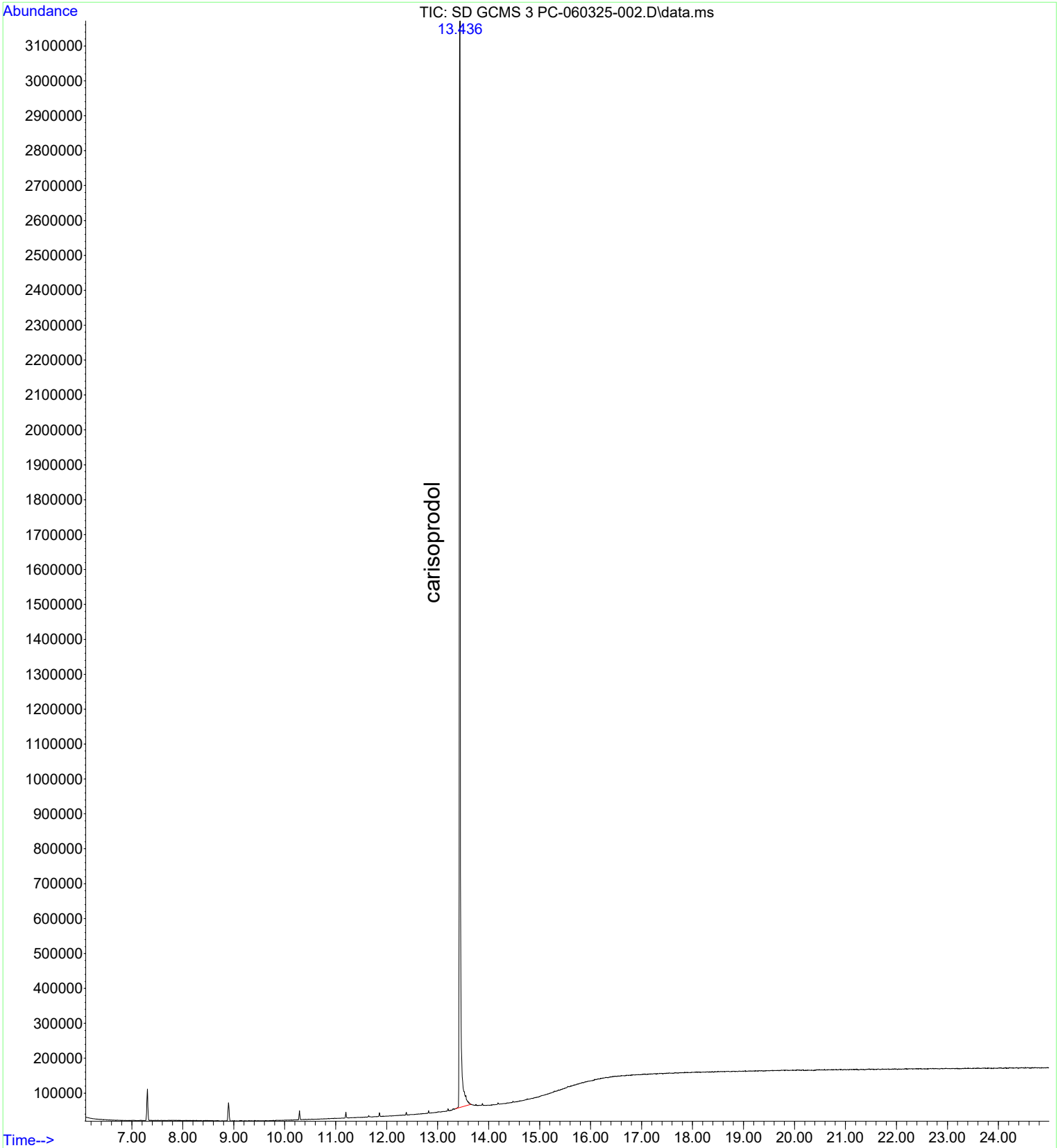


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Acquired : 03 Jun 2025 10:44 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Cayman GC-Mix 3 (R-24-060) 000002669
Misc Info : 000002669
Vial Number: 2

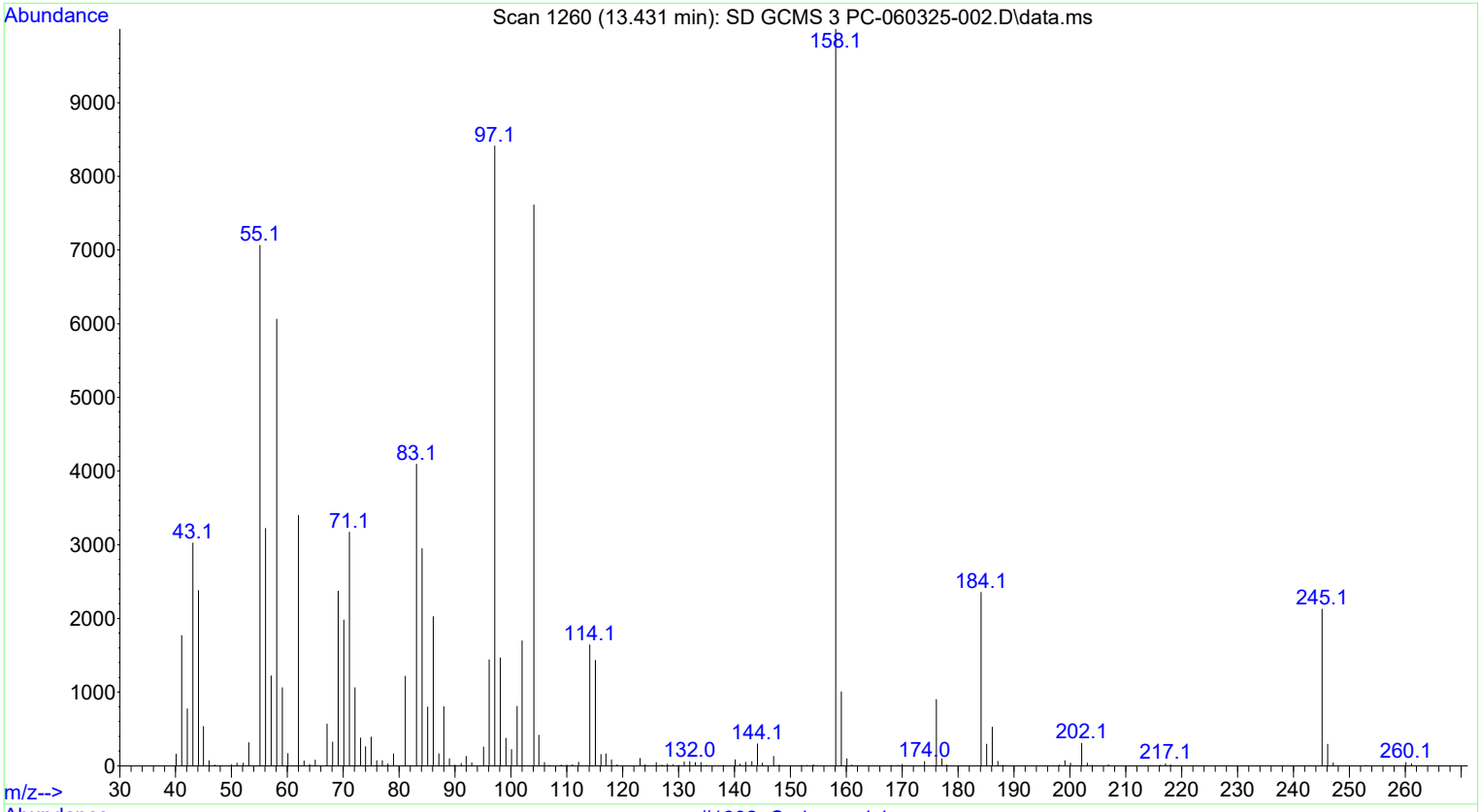


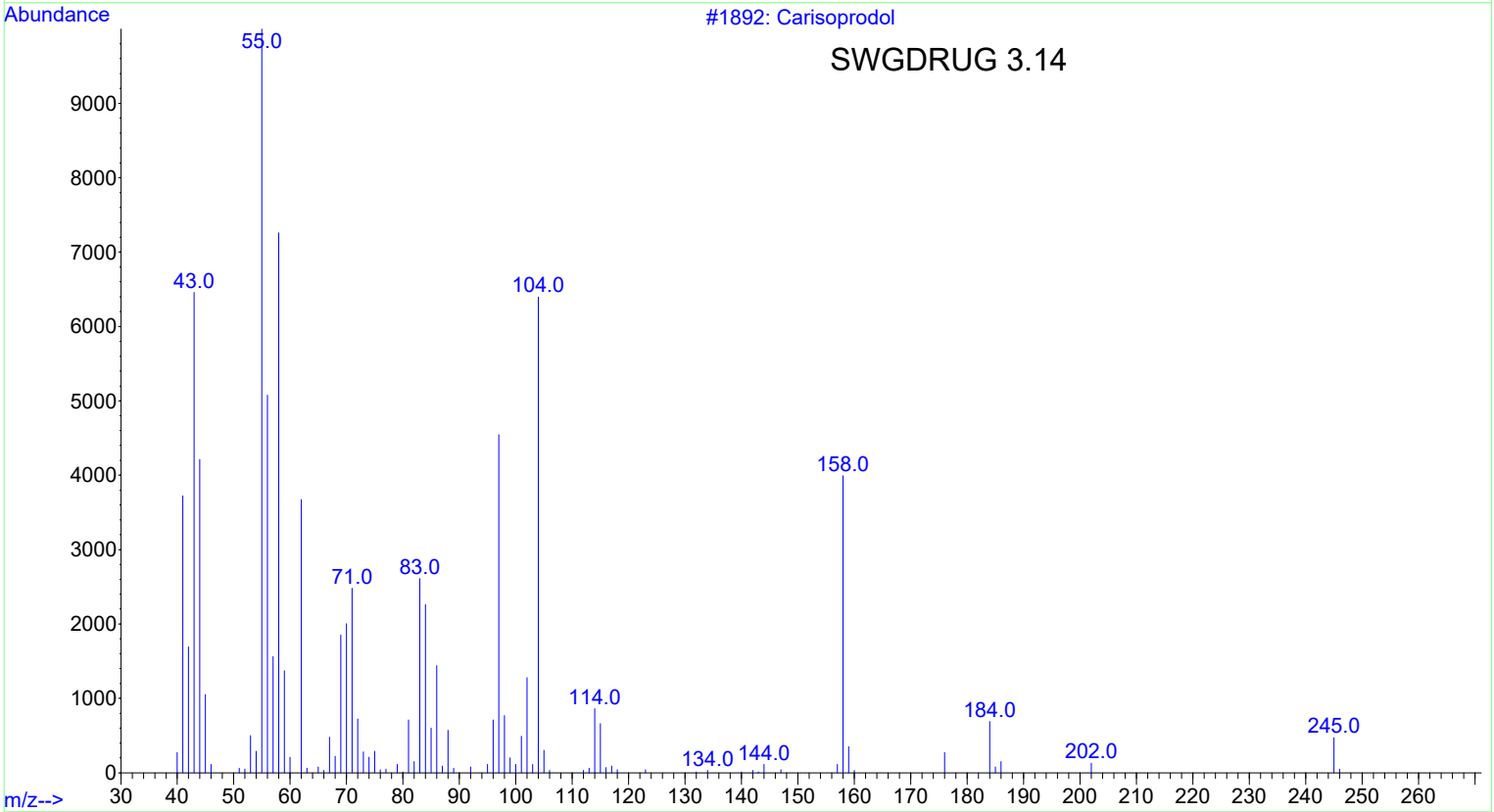


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Instrument : GCMS #4
Sample Name: Carisoprodol Std (R-24-018) 000002964
Misc Info : 000002964
Vial Number: 3

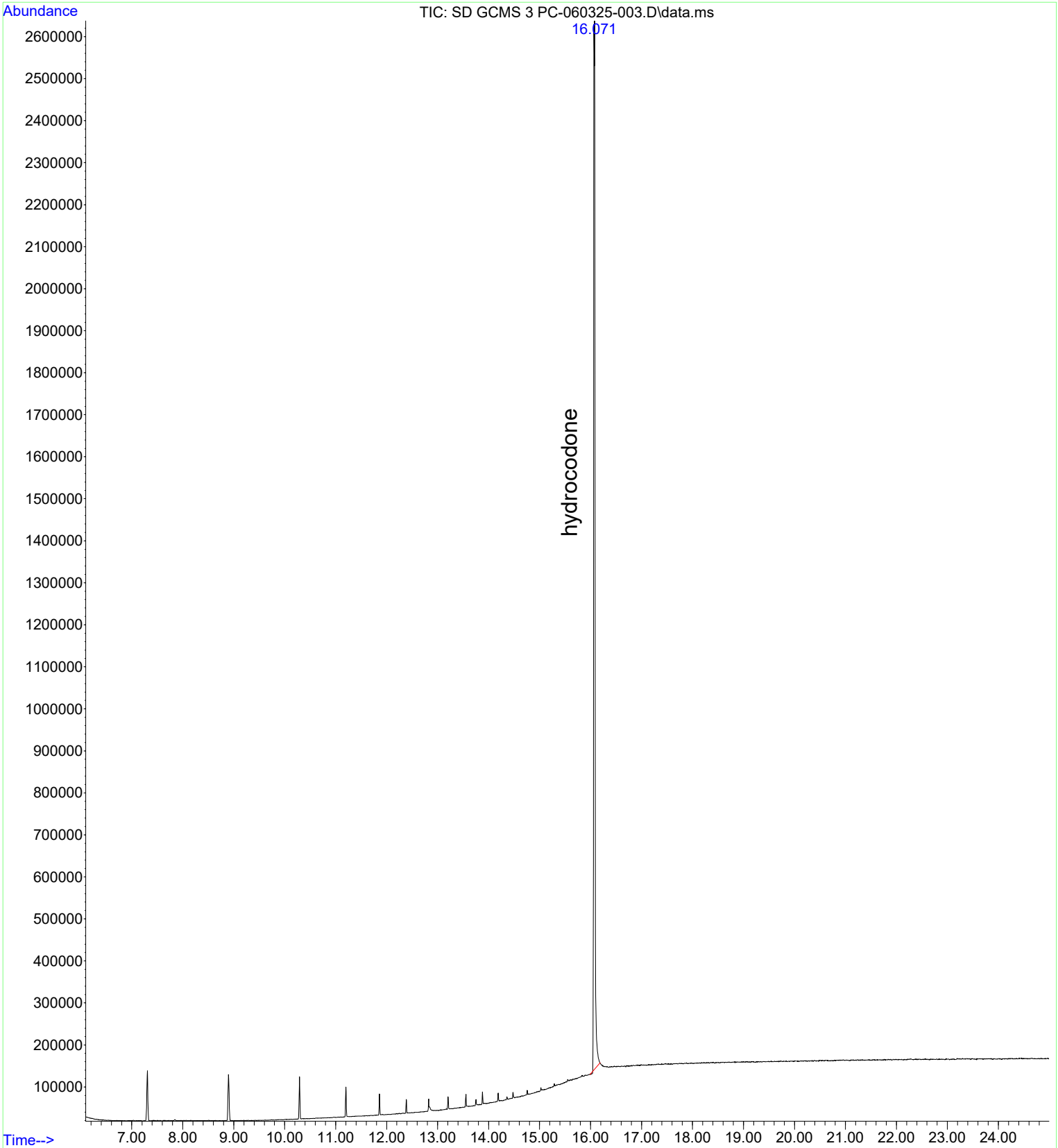


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File       :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verif
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Acquired   : 03 Jun 2025  11:42     using AcqMethod DrugTest35MS.M
Instrument :   GCMS #4
Sample Name: Carisoprodol Std (R-24-018)                    000002964
Misc Info  :                                                000002964
Vial Number: 3
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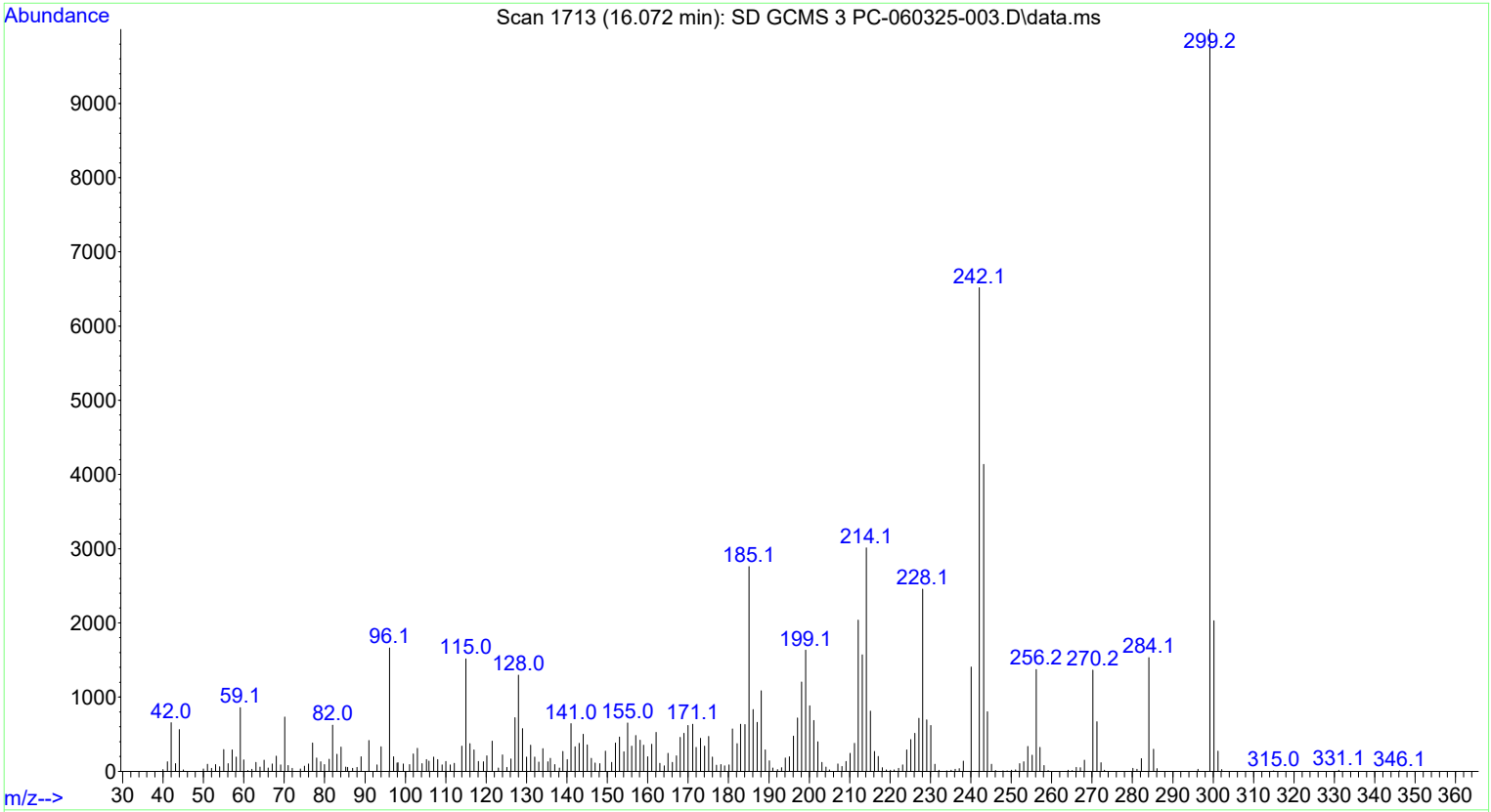


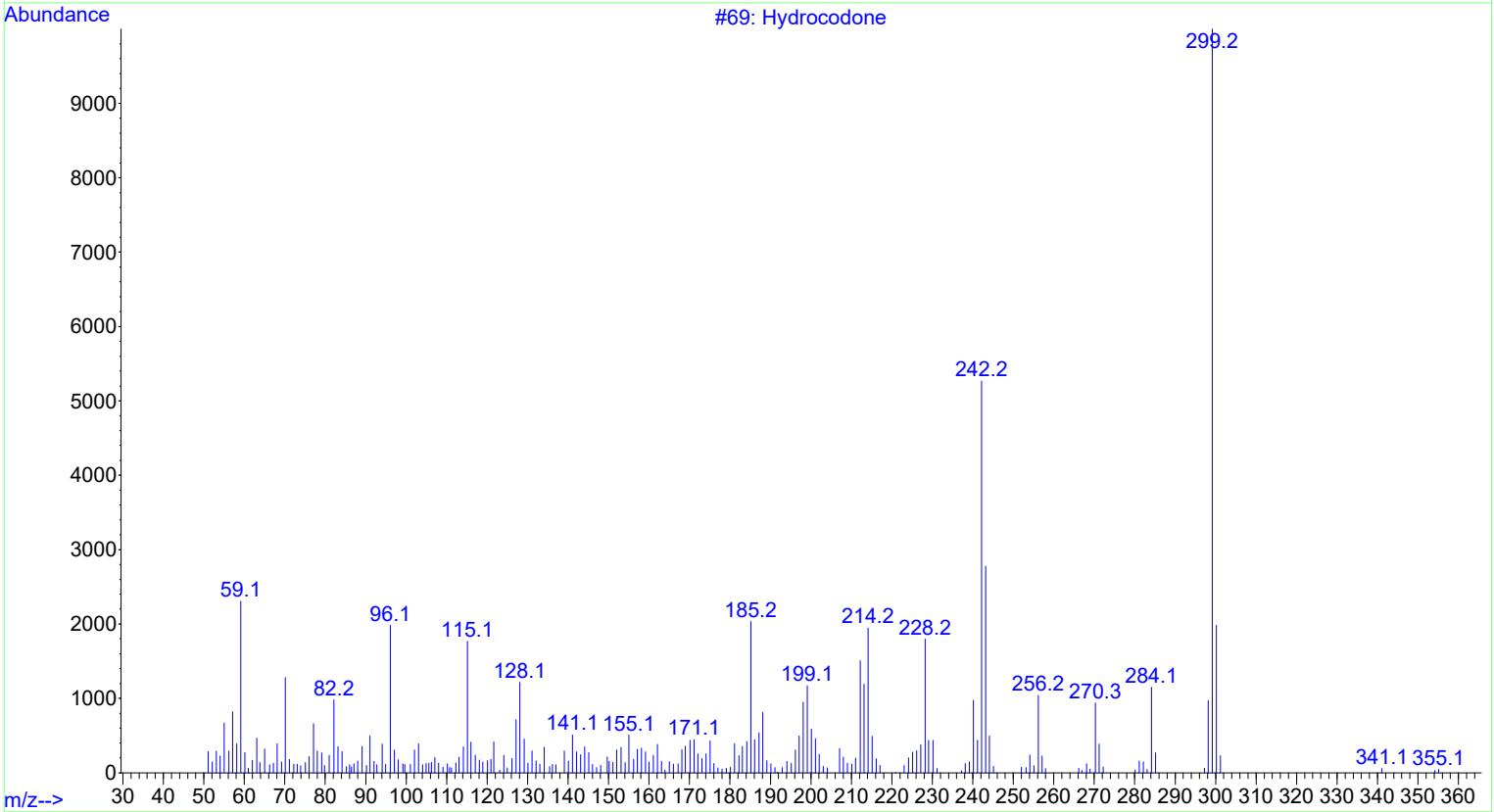


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Acquired : 03 Jun 2025 12:11 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Hydrocodone Std (R-24-033) 000002989
Misc Info : 000002989
Vial Number: 4

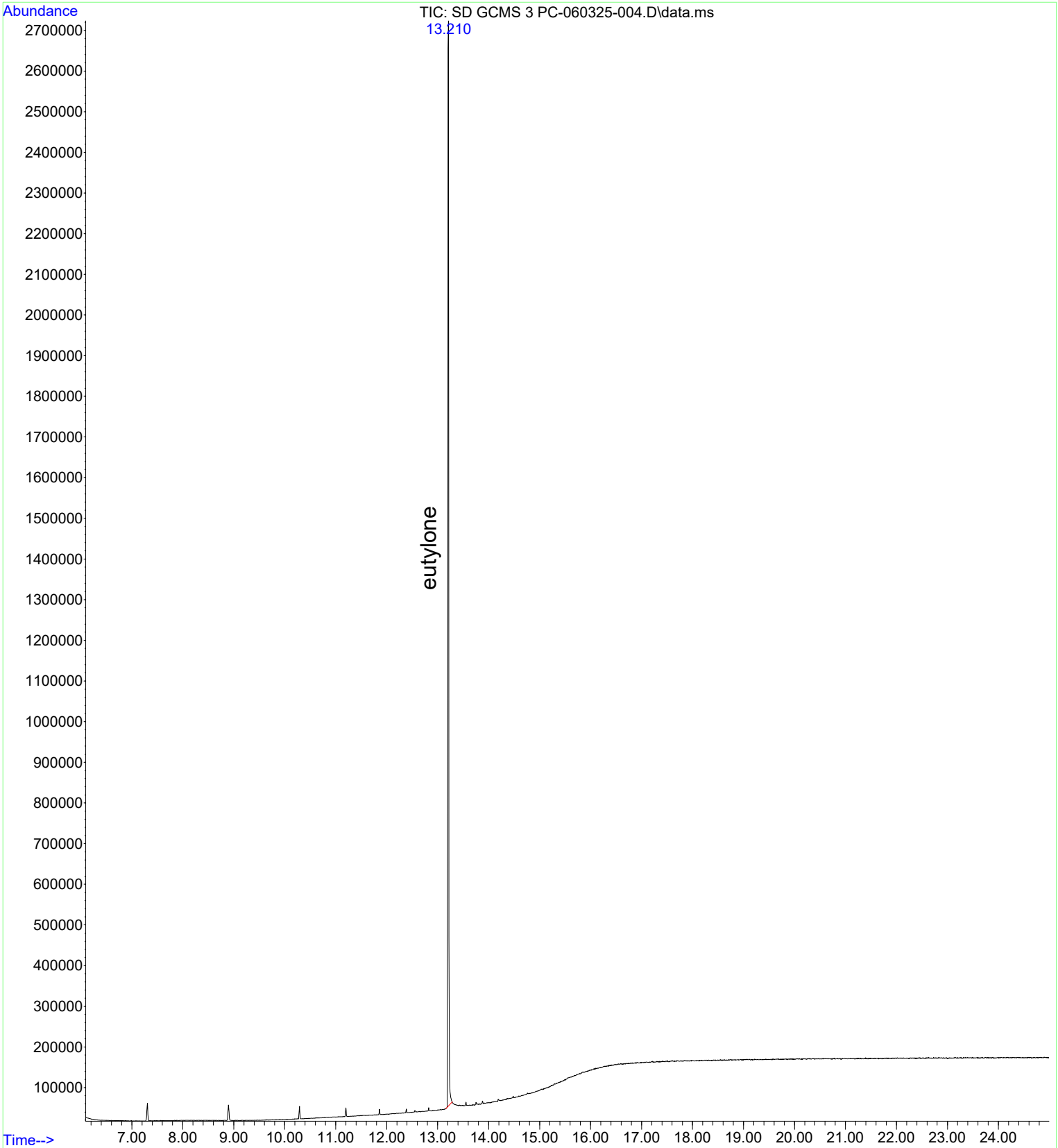


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Acquired : 03 Jun 2025 12:11 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Hydrocodone Std (R-24-033) 000002989
Misc Info : 000002989
Vial Number: 4

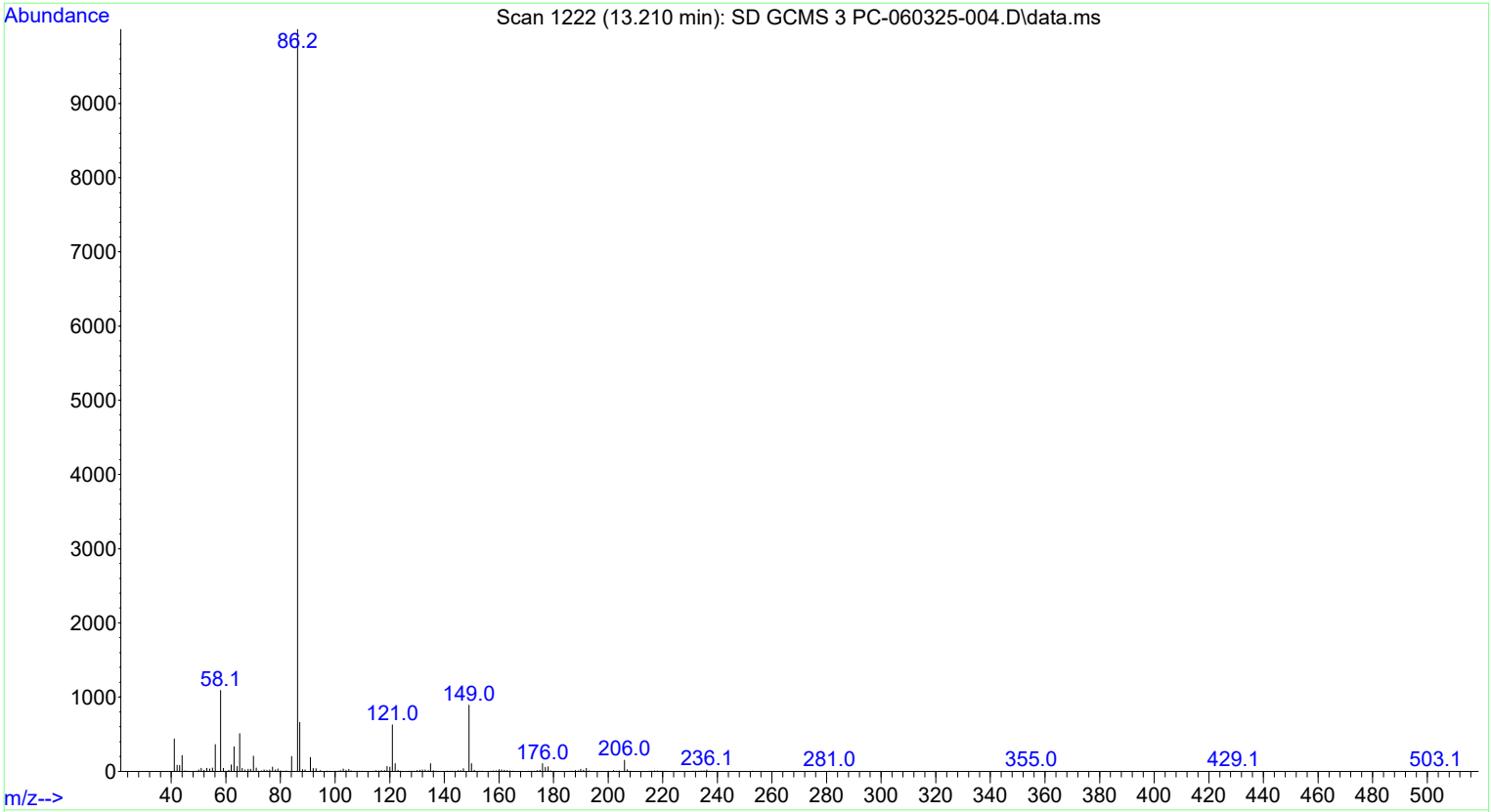


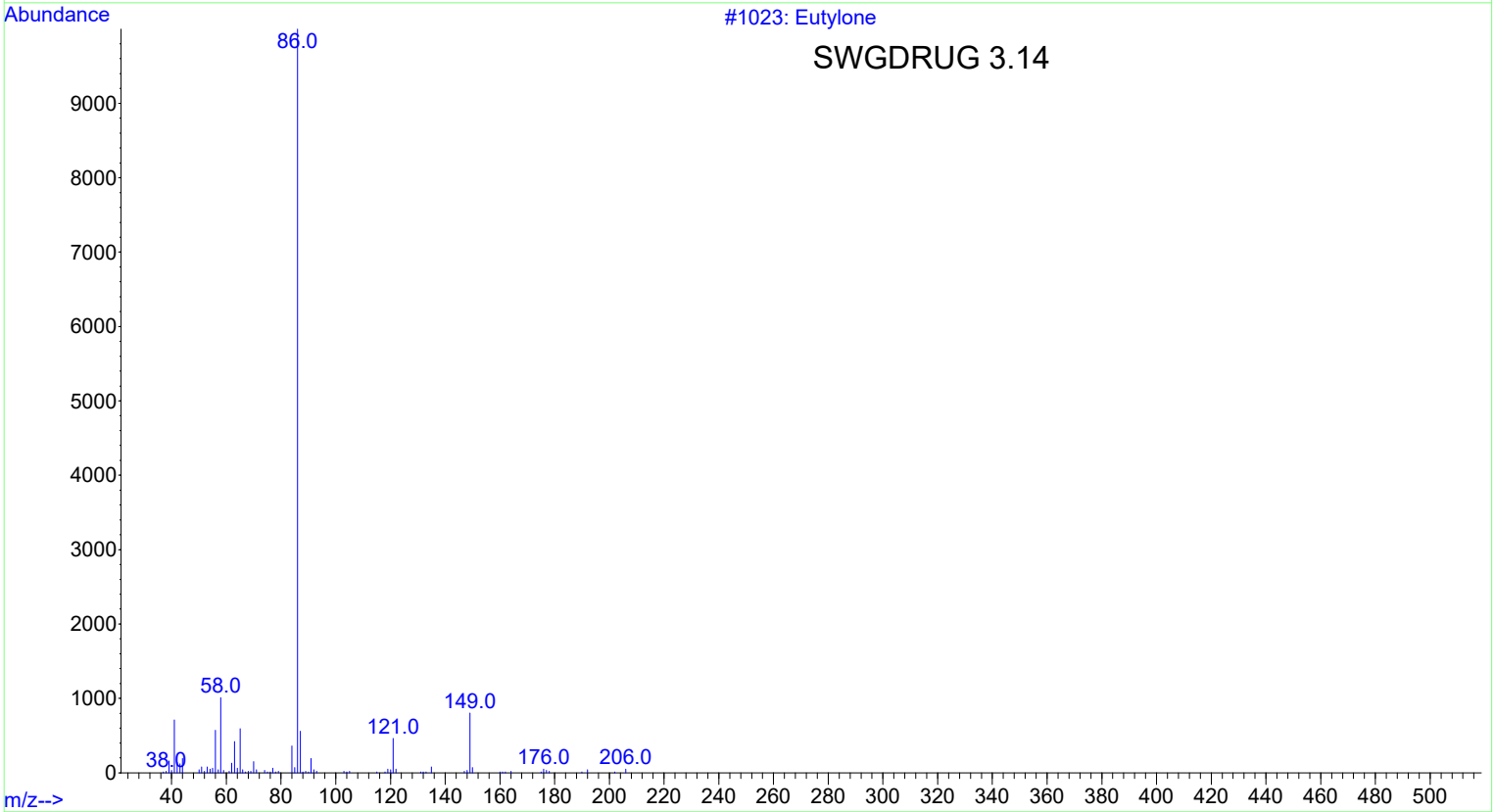


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Instrument : GCMS #4
Sample Name: Eutylone Std (S-24-066) 000002715
Misc Info : 000002715
Vial Number: 5

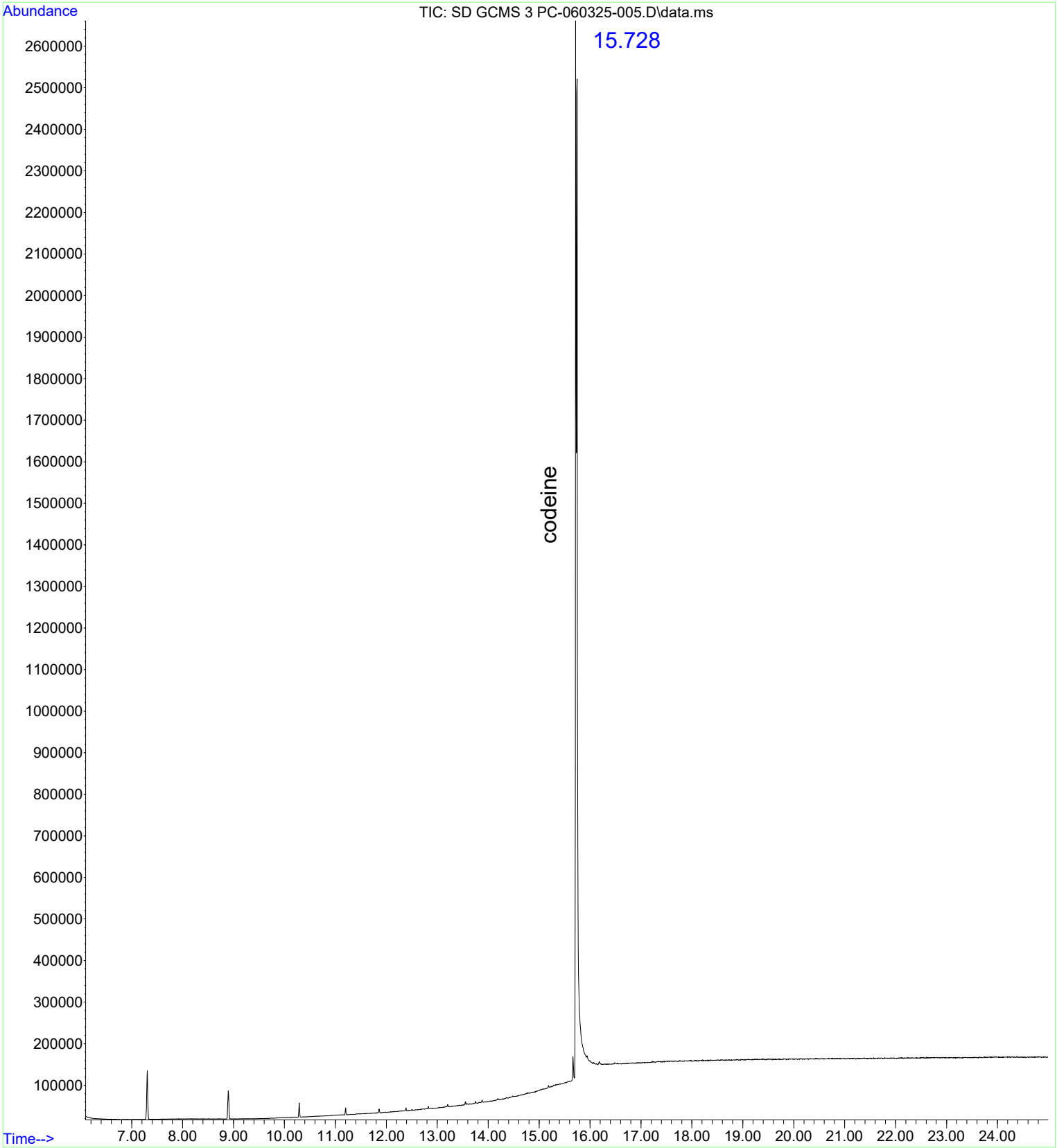


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Acquired   : 03 Jun 2025  12:40     using AcqMethod DrugTest35MS.M
Instrument :   GCMS #4
Sample Name: Eutylone Std (S-24-066)                          000002715
Misc Info  :                                                  000002715
Vial Number: 5
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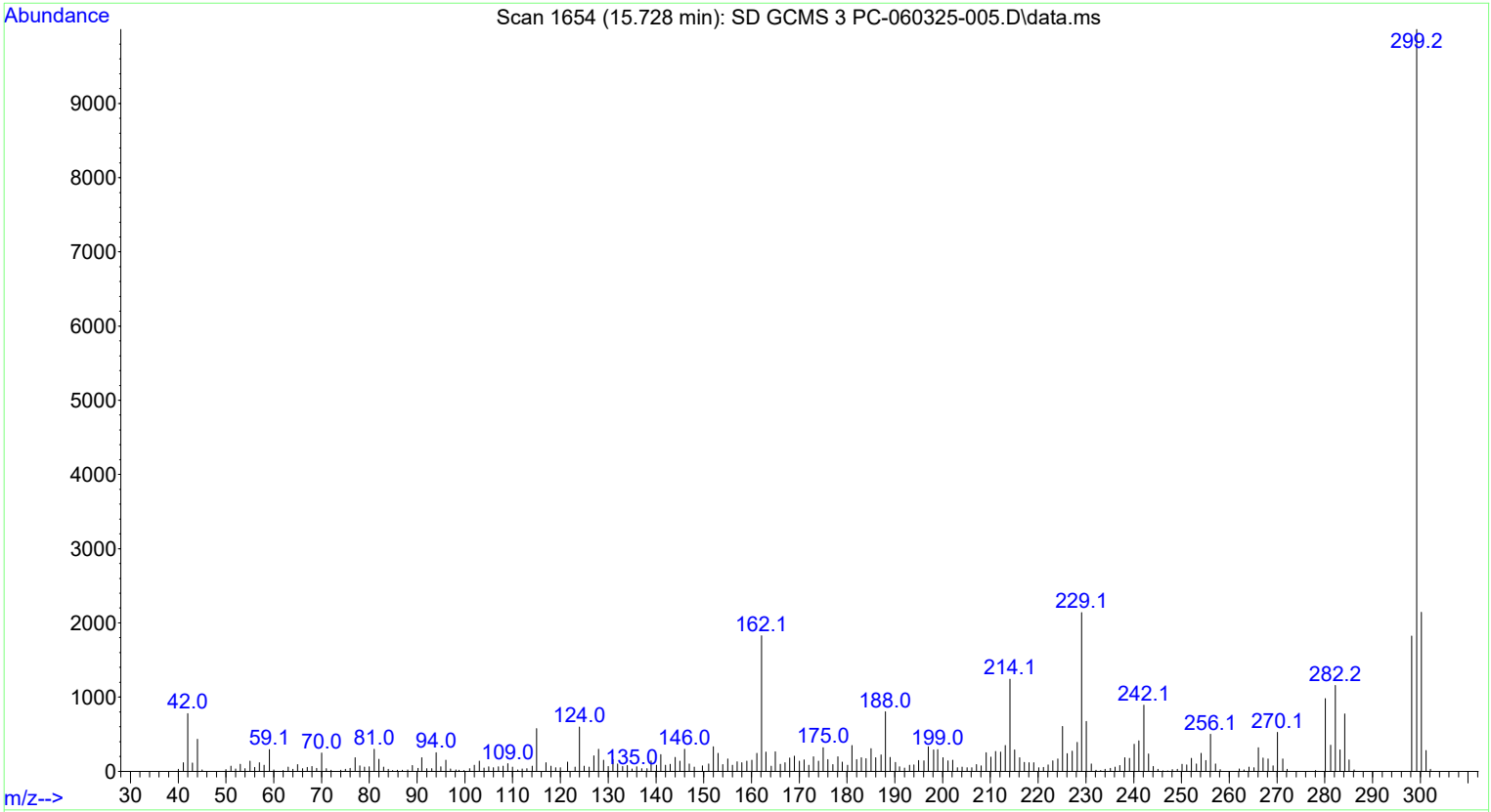


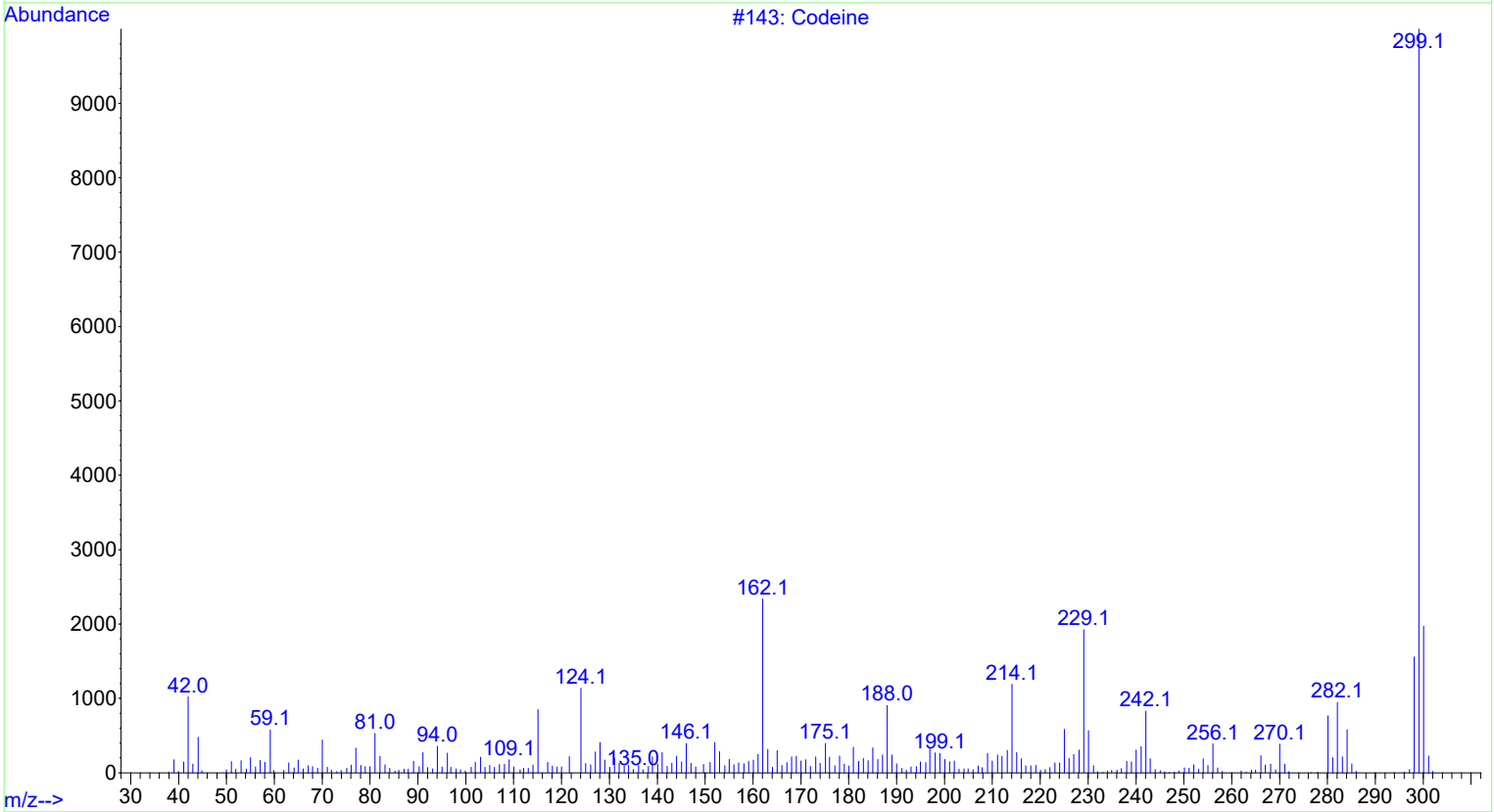


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Instrument : GCMS #4
Sample Name: Codeine Std (R-23-022) 000005945
Misc Info : 000005945
Vial Number: 6

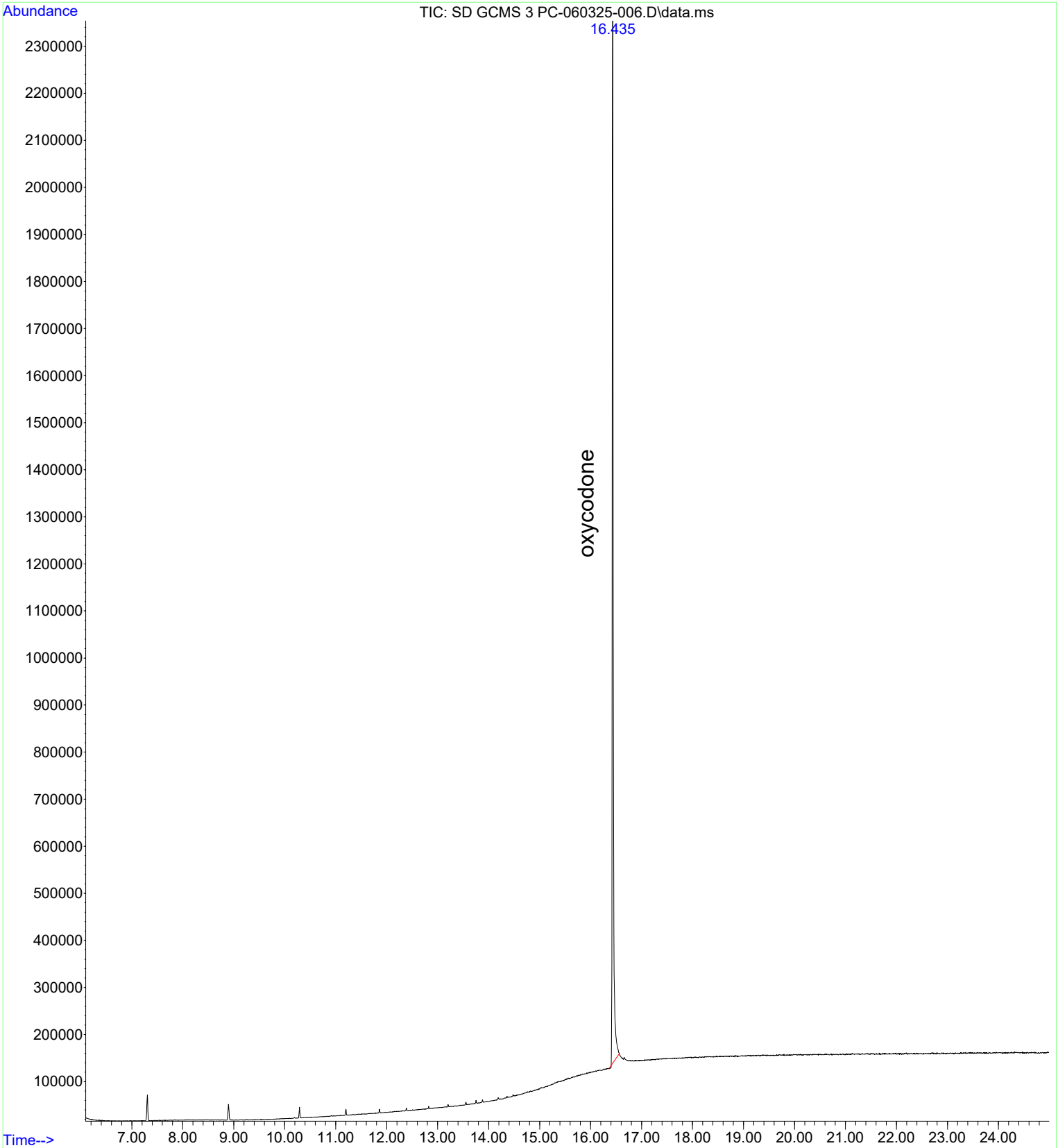


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Instrument : GCMS #4
Sample Name: Codeine Std (R-23-022) 000005945
Misc Info : 000005945
Vial Number: 6

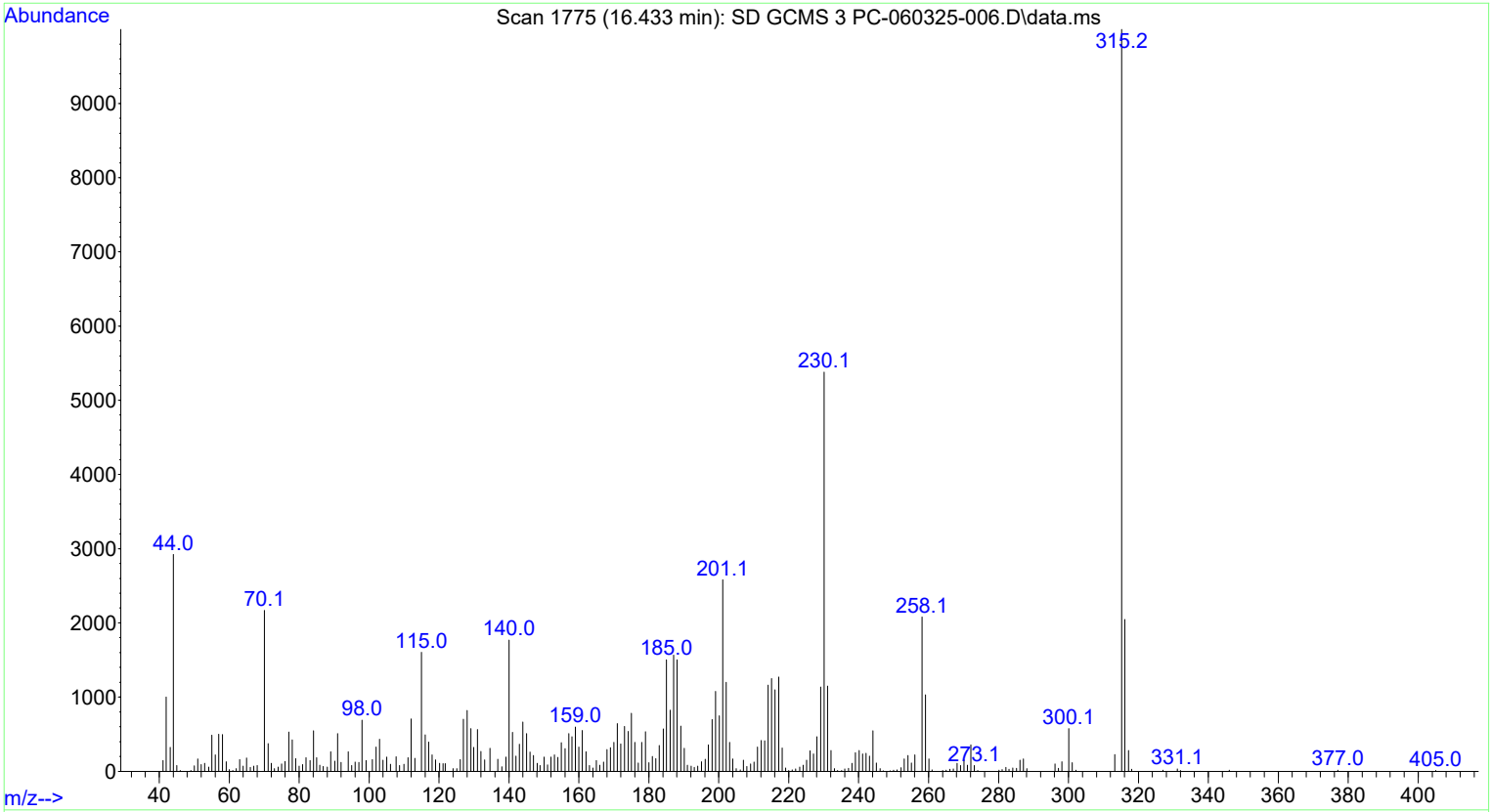


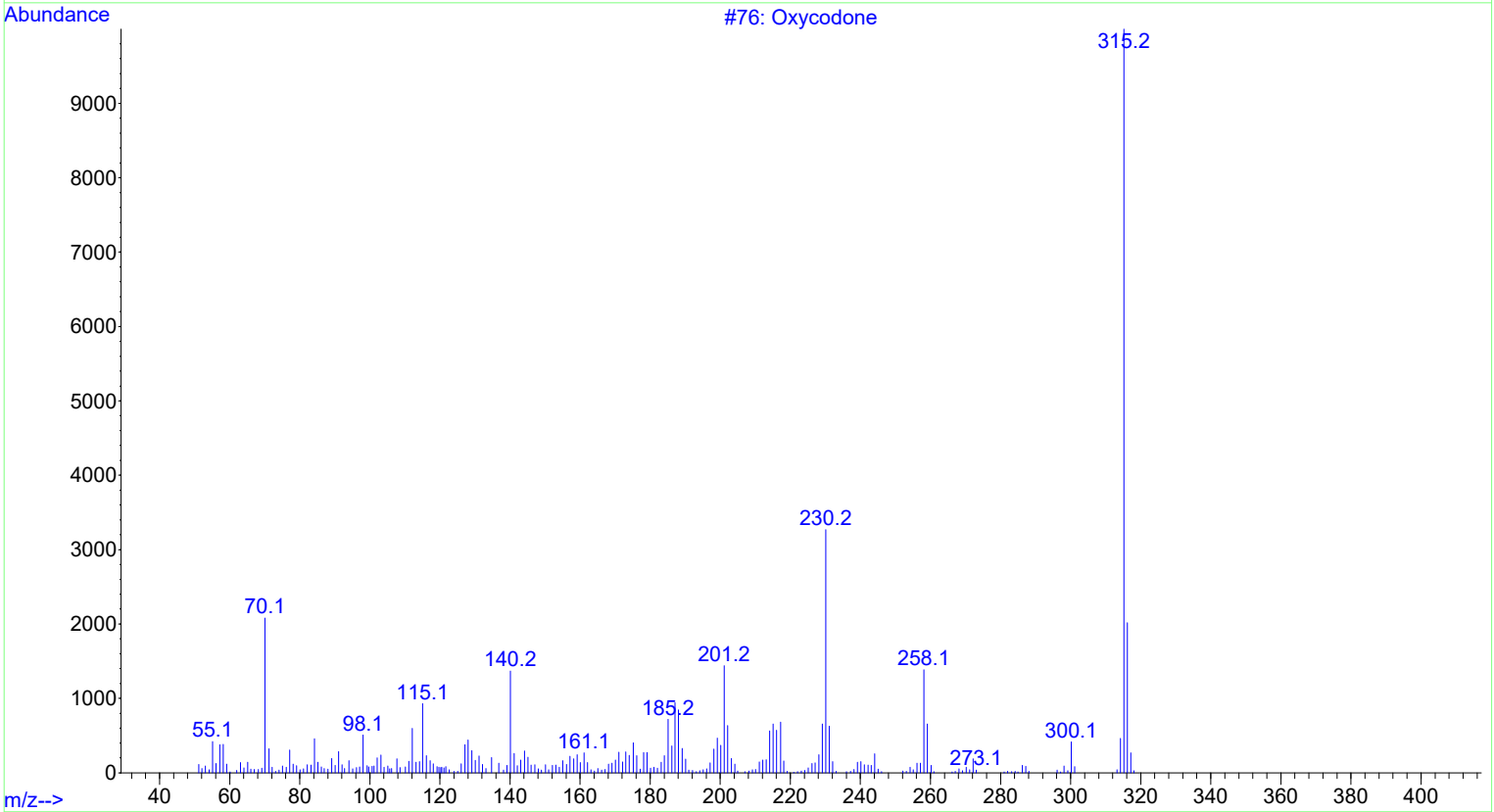


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Instrument : GCMS #4
Sample Name: Oxycodone Std (R-24-075) 000002129
Misc Info : 000002129
Vial Number: 7

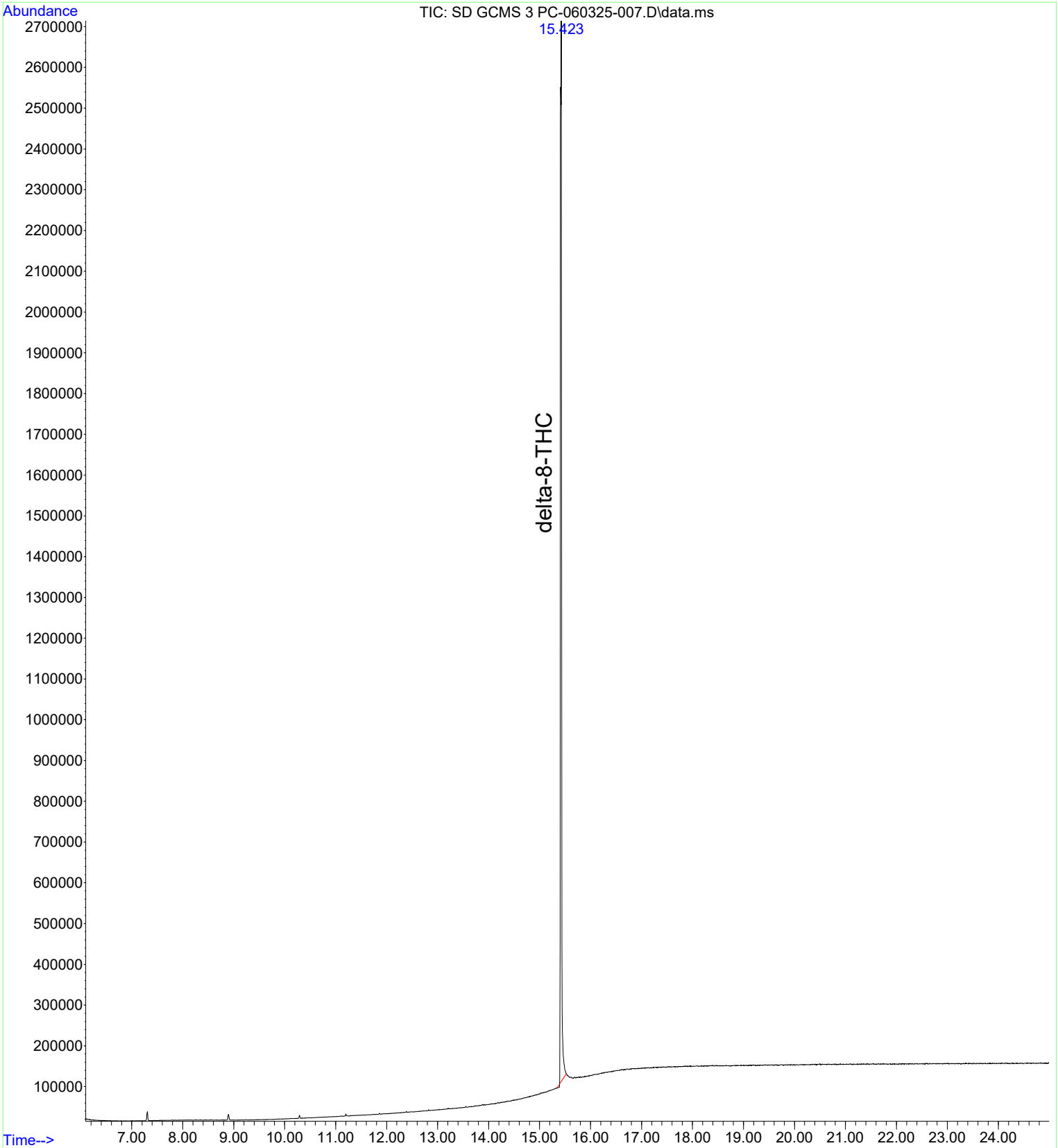


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Vial Number: 7

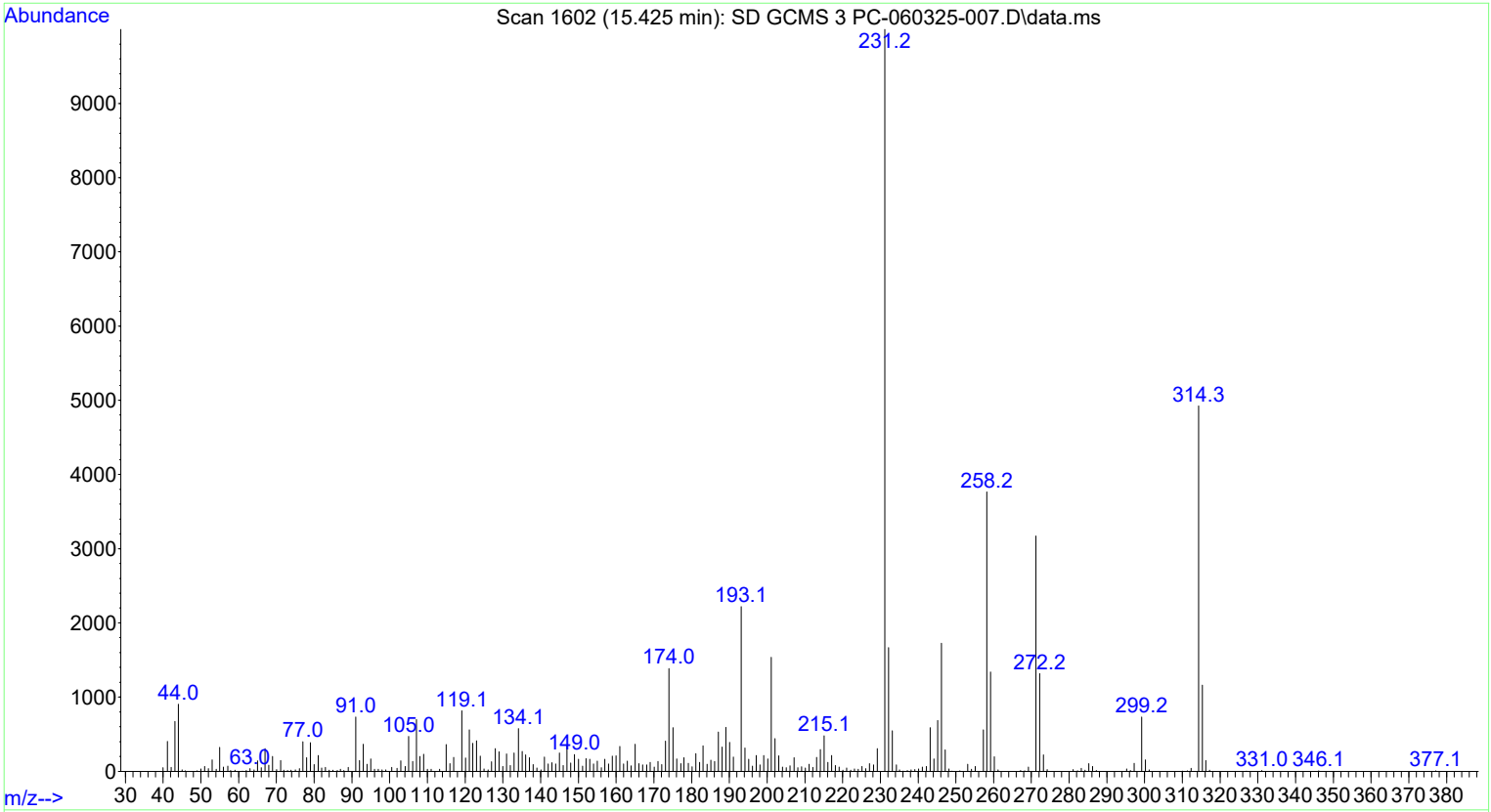


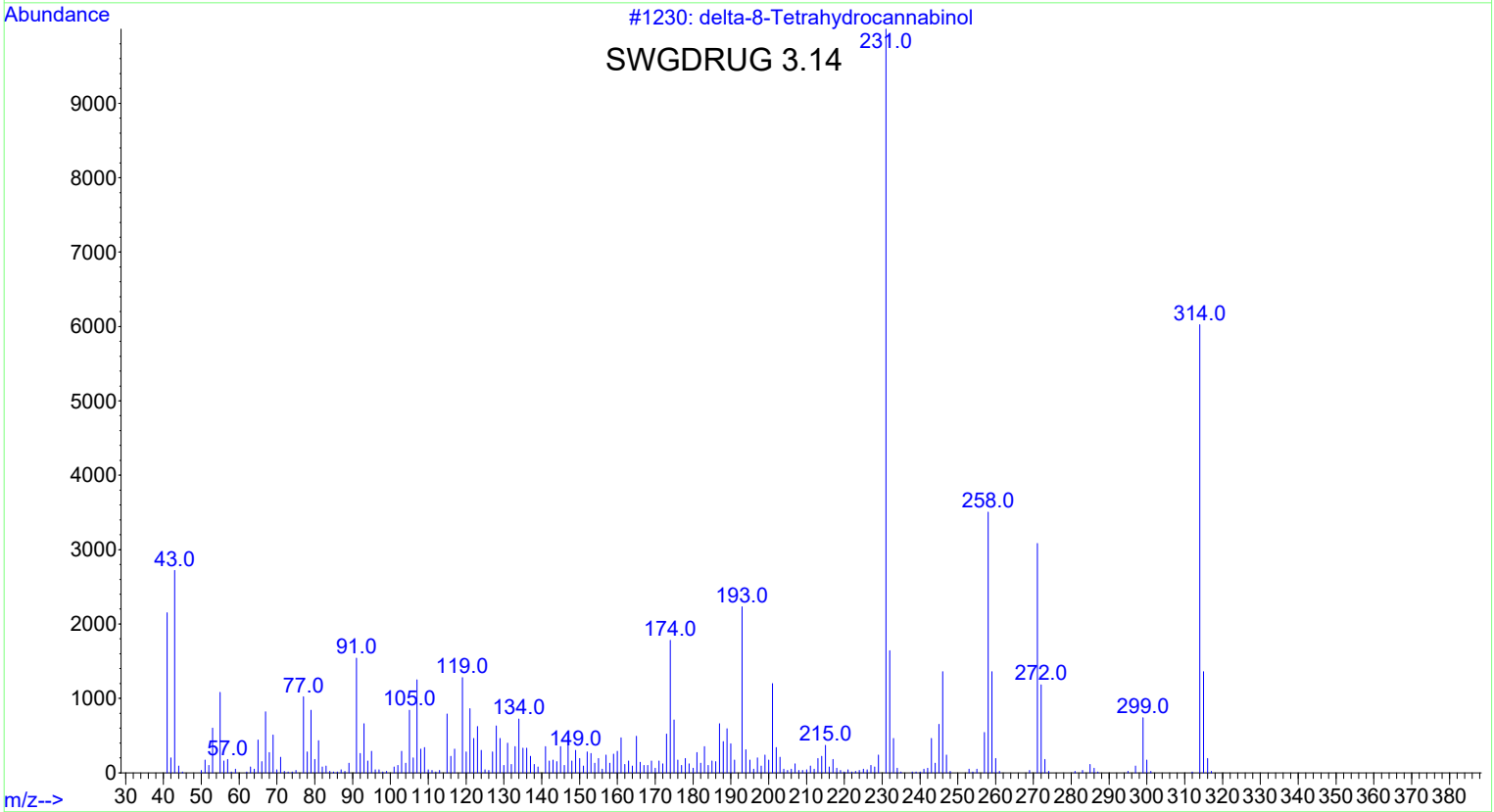


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Instrument : GCMS #4
Sample Name: delta-8-THC Std (R-24-040) 000002977
Misc Info : 000002977
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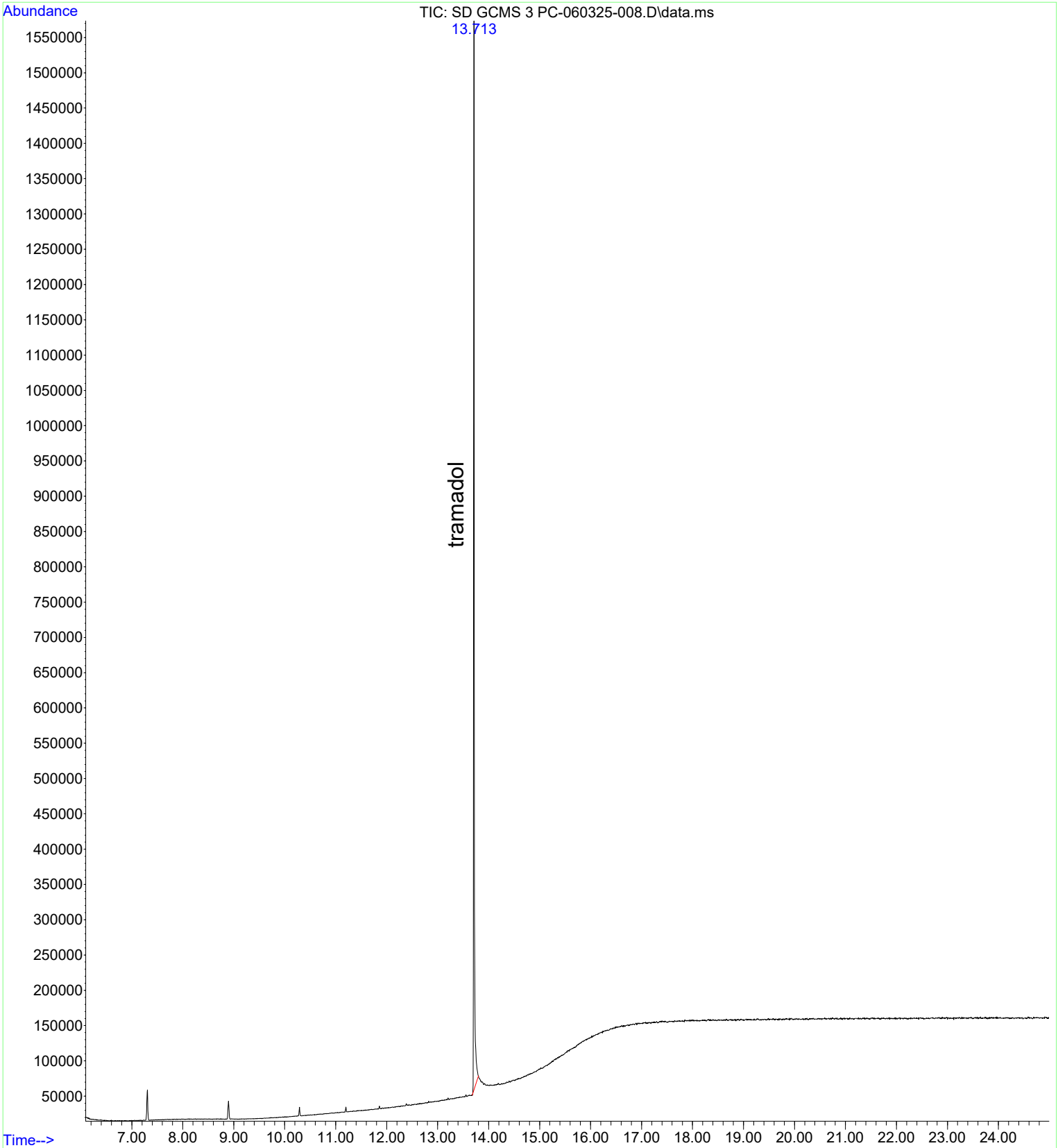


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Misc Info : 000002977
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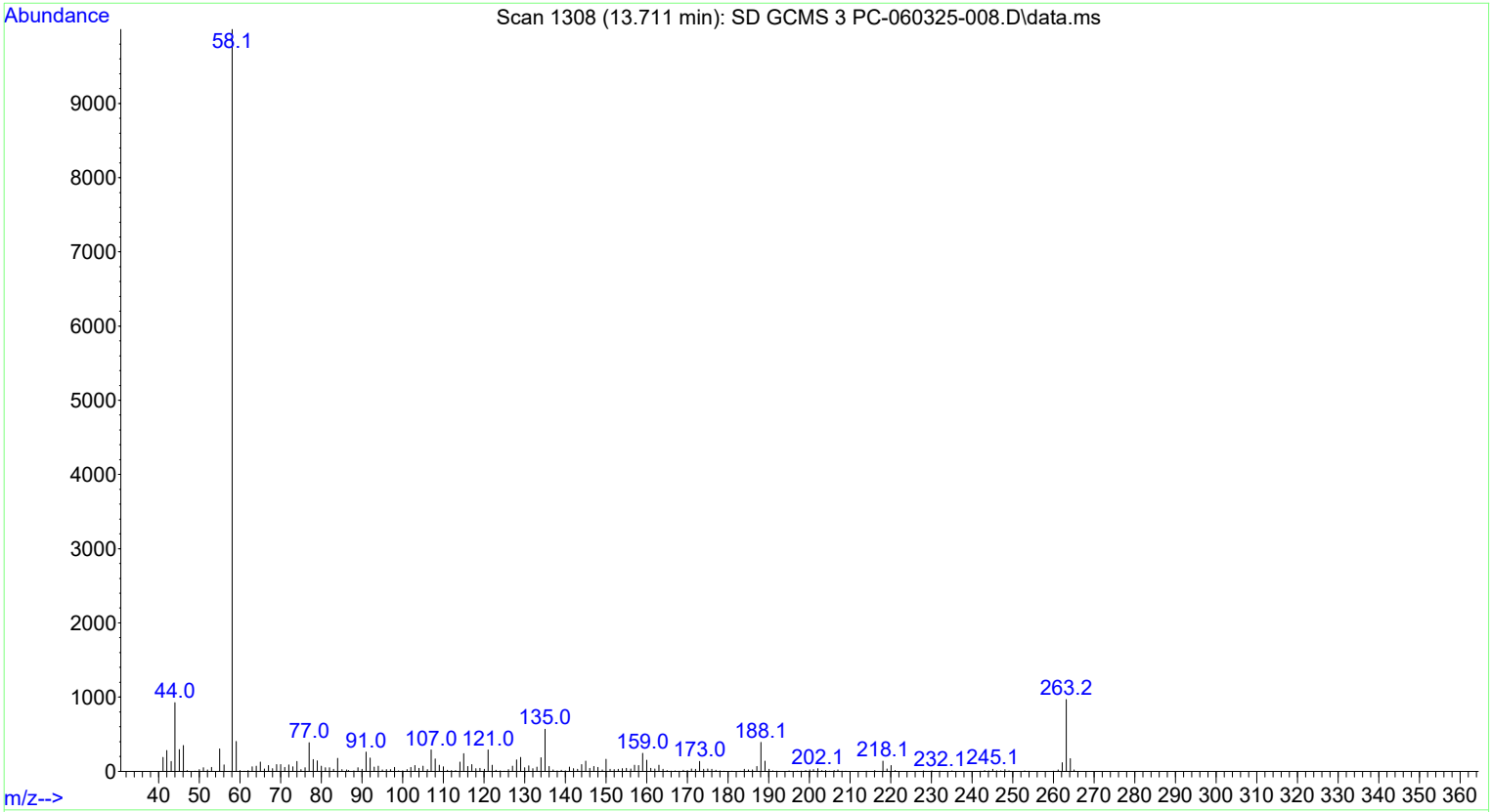


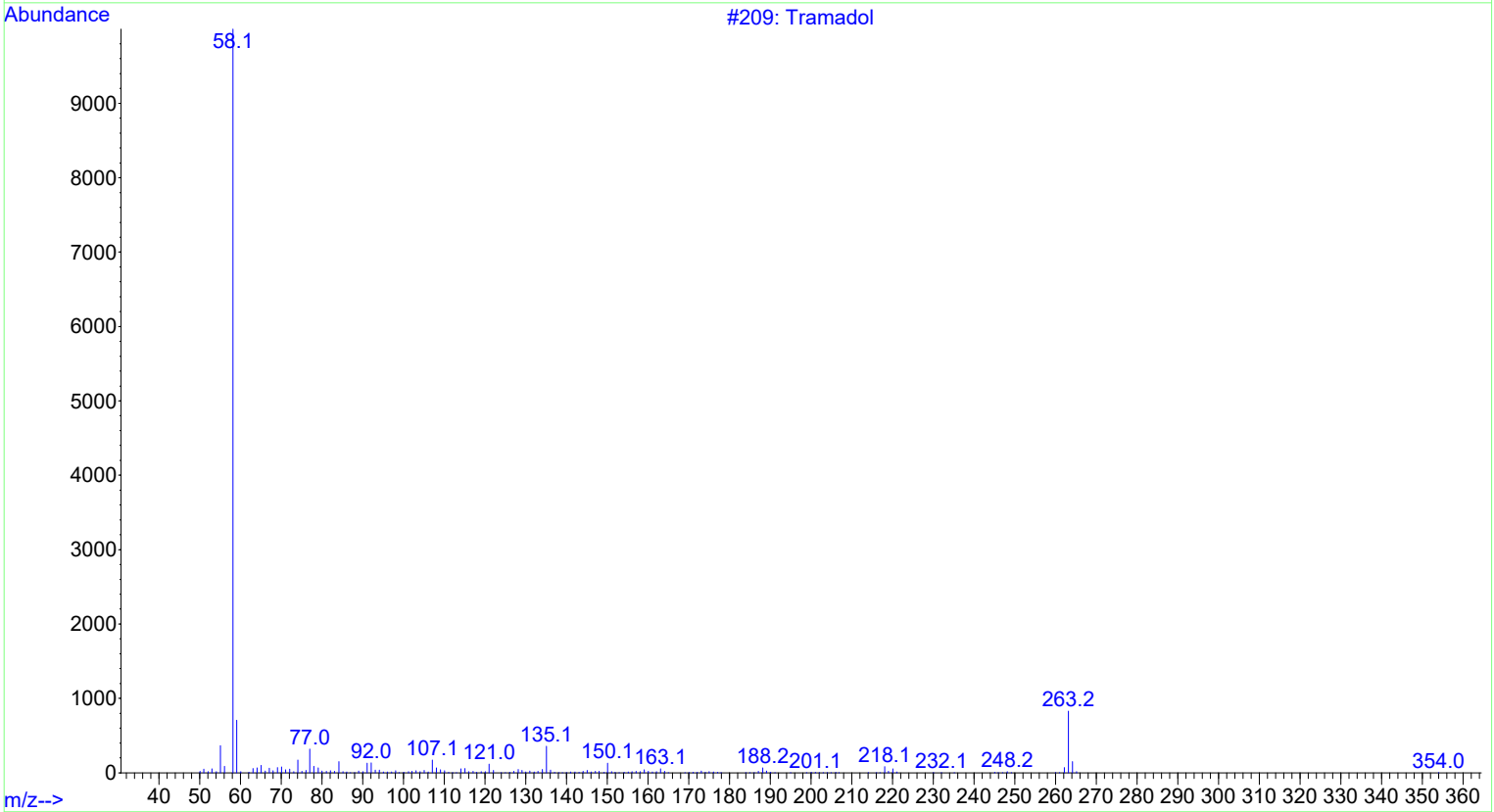


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Instrument : GCMS #4
Sample Name: Tramadol Std (R-24-014) 000002999
Misc Info : 000002999
Vial Number: 9

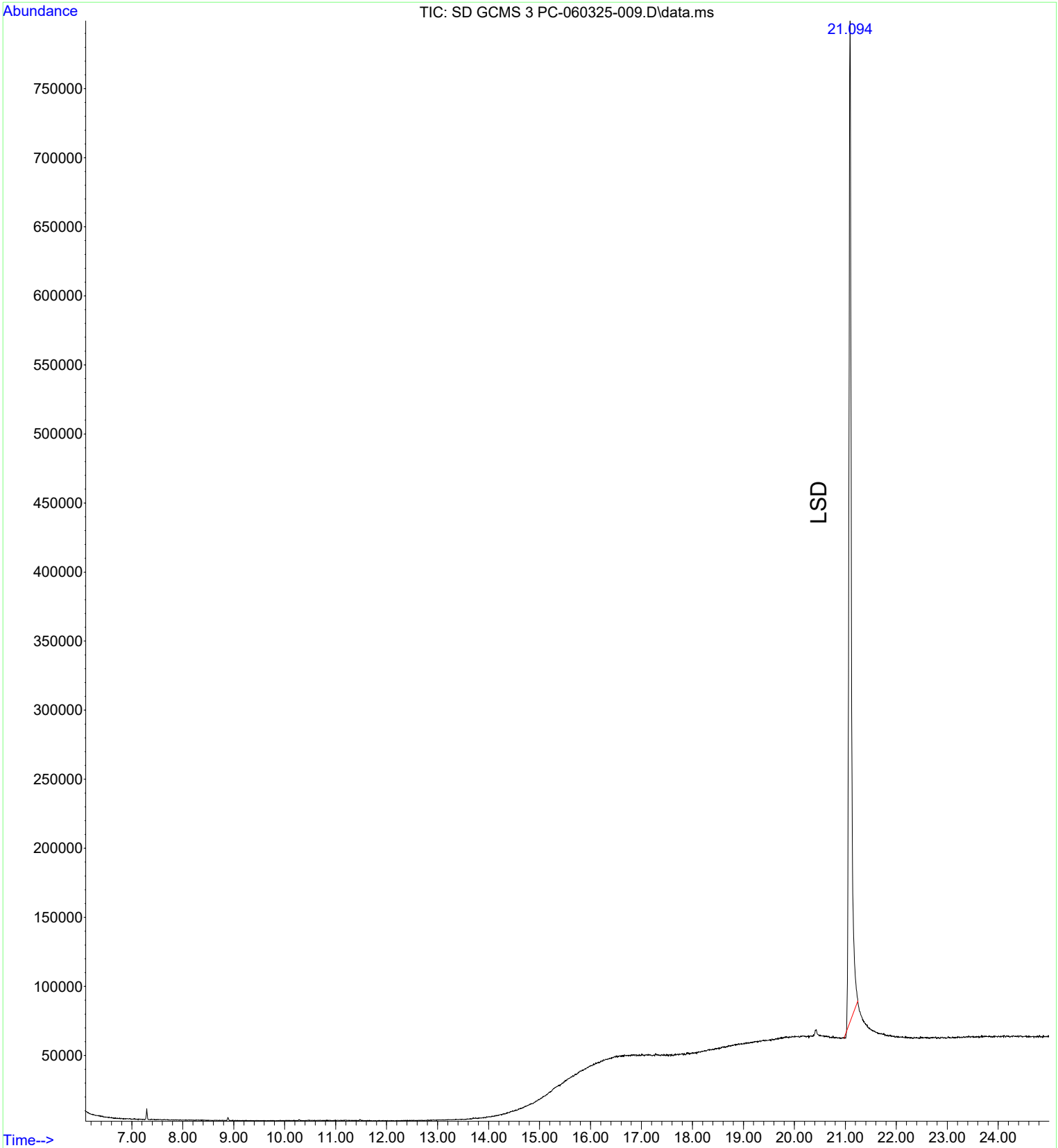


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Vial Number: 9

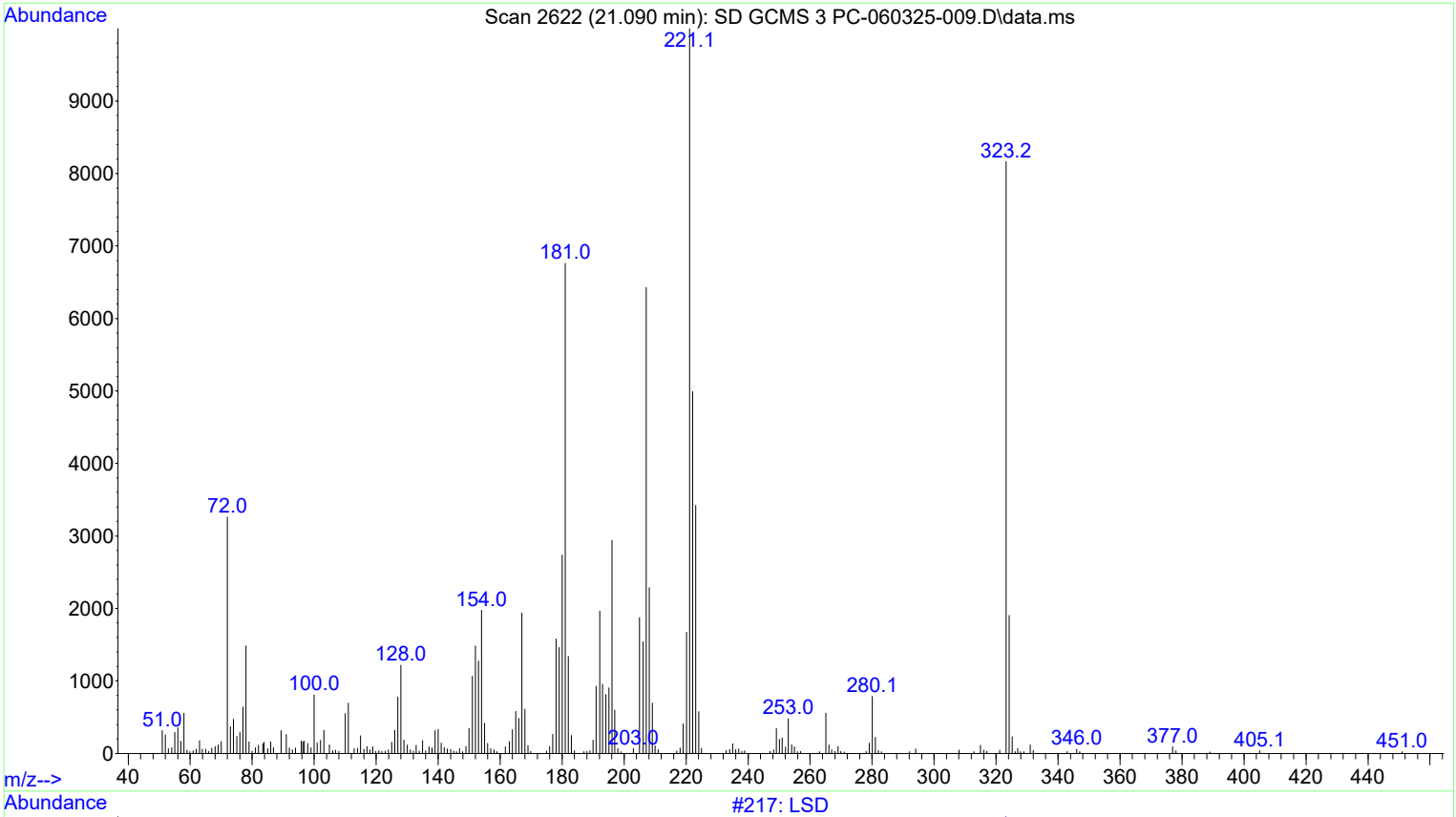


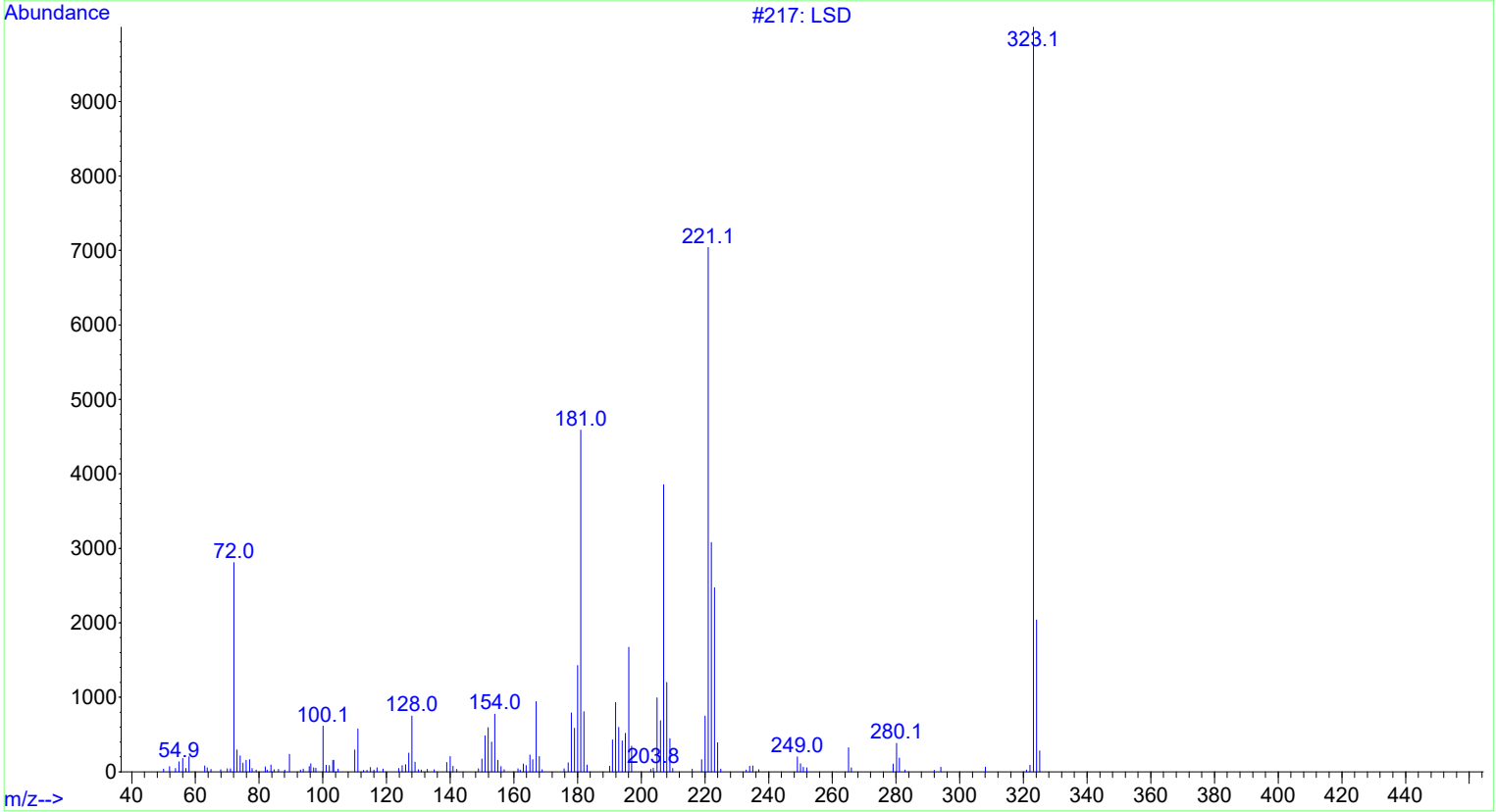


File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verif
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Acquired : 03 Jun 2025 15:03 using AcqMethod DrugTest35MS_20X.M
Instrument : GCMS #4
Sample Name: LSD Std (R-24-021) 000002998
Misc Info : 000002998
Vial Number: 10

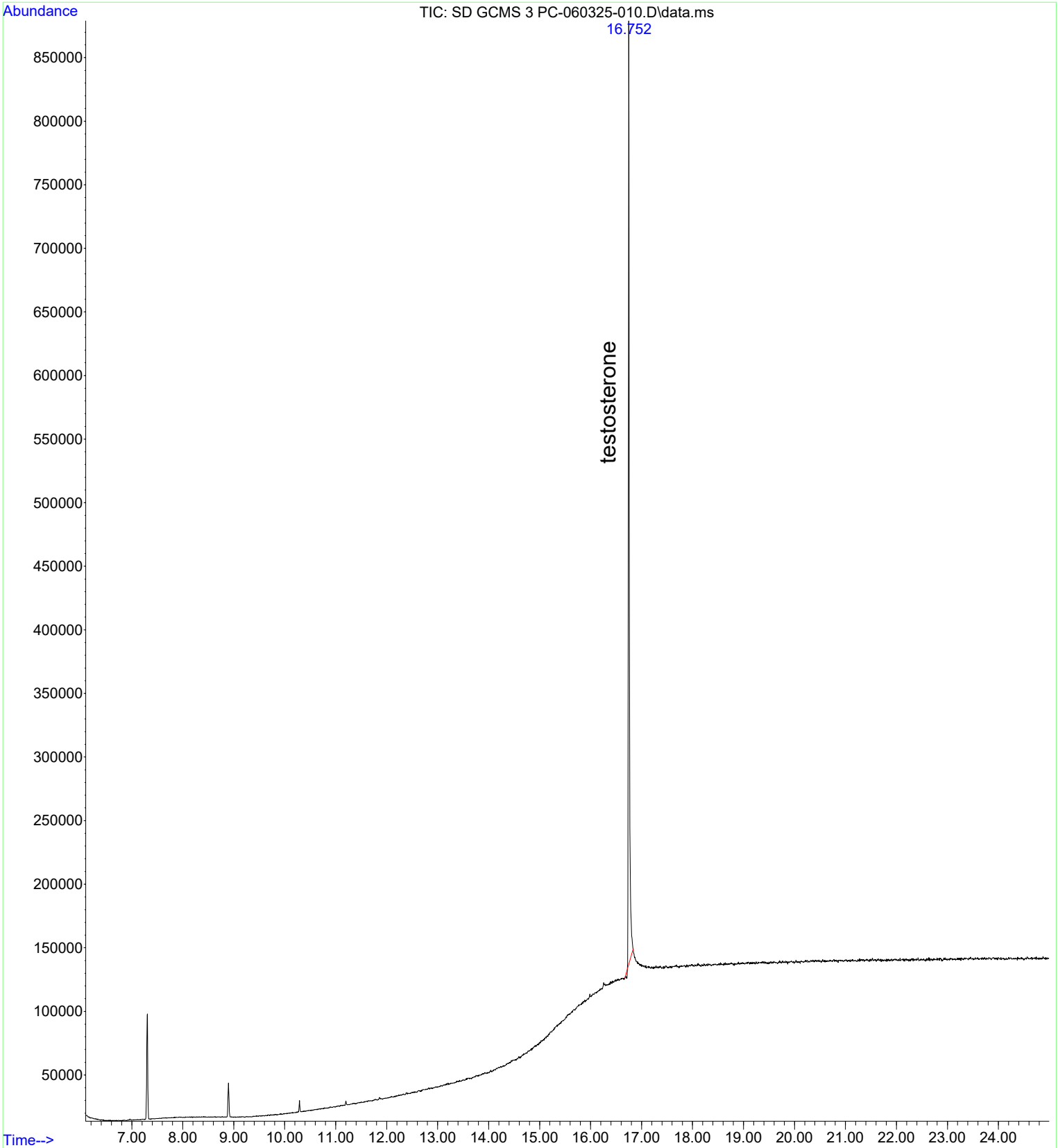


File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verif
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Acquired : 03 Jun 2025 15:03 using AcqMethod DrugTest35MS_20X.M
Instrument : GCMS #4
Sample Name: LSD Std (R-24-021) 000002998
Misc Info : 000002998
Vial Number: 10

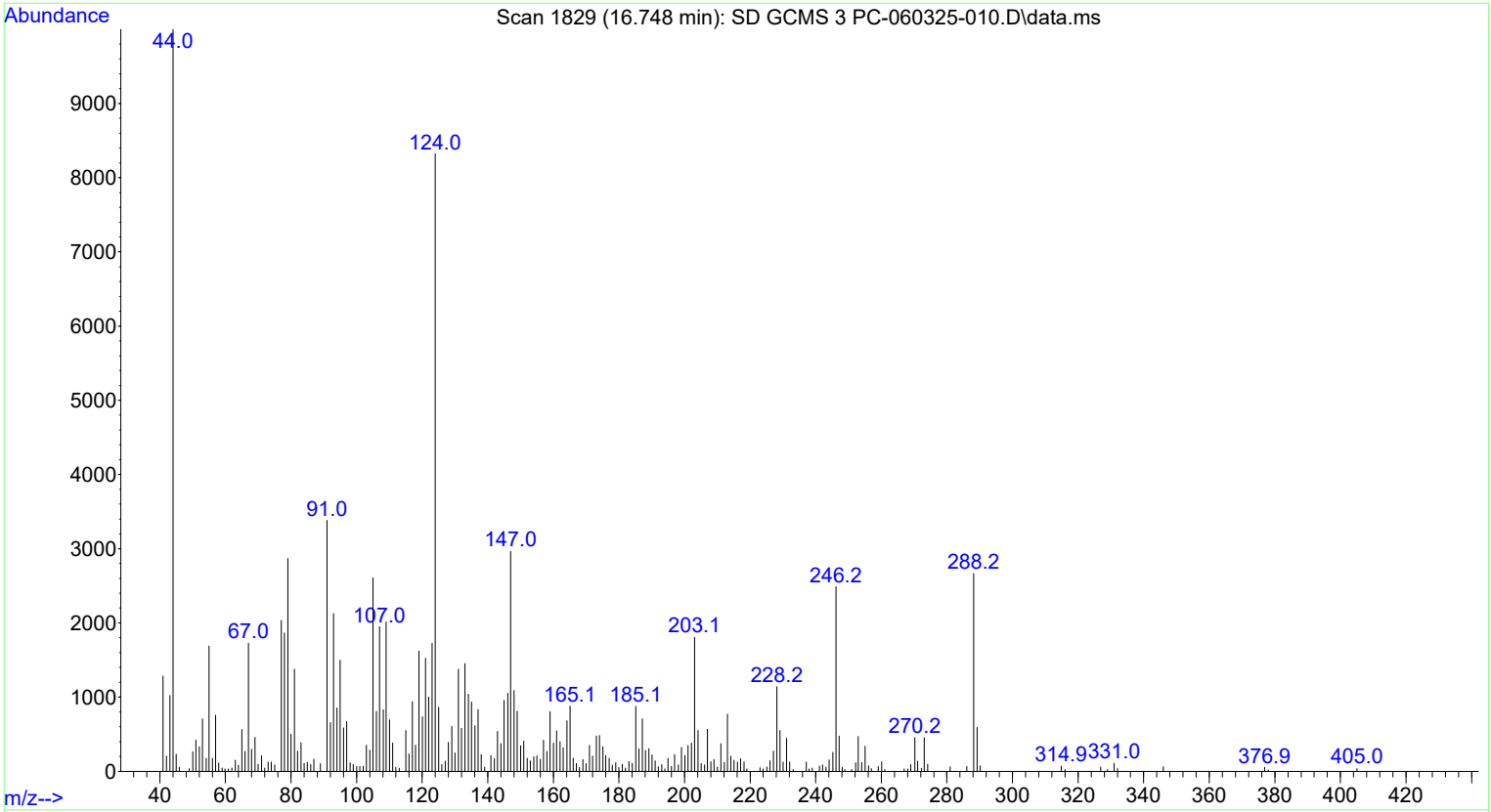


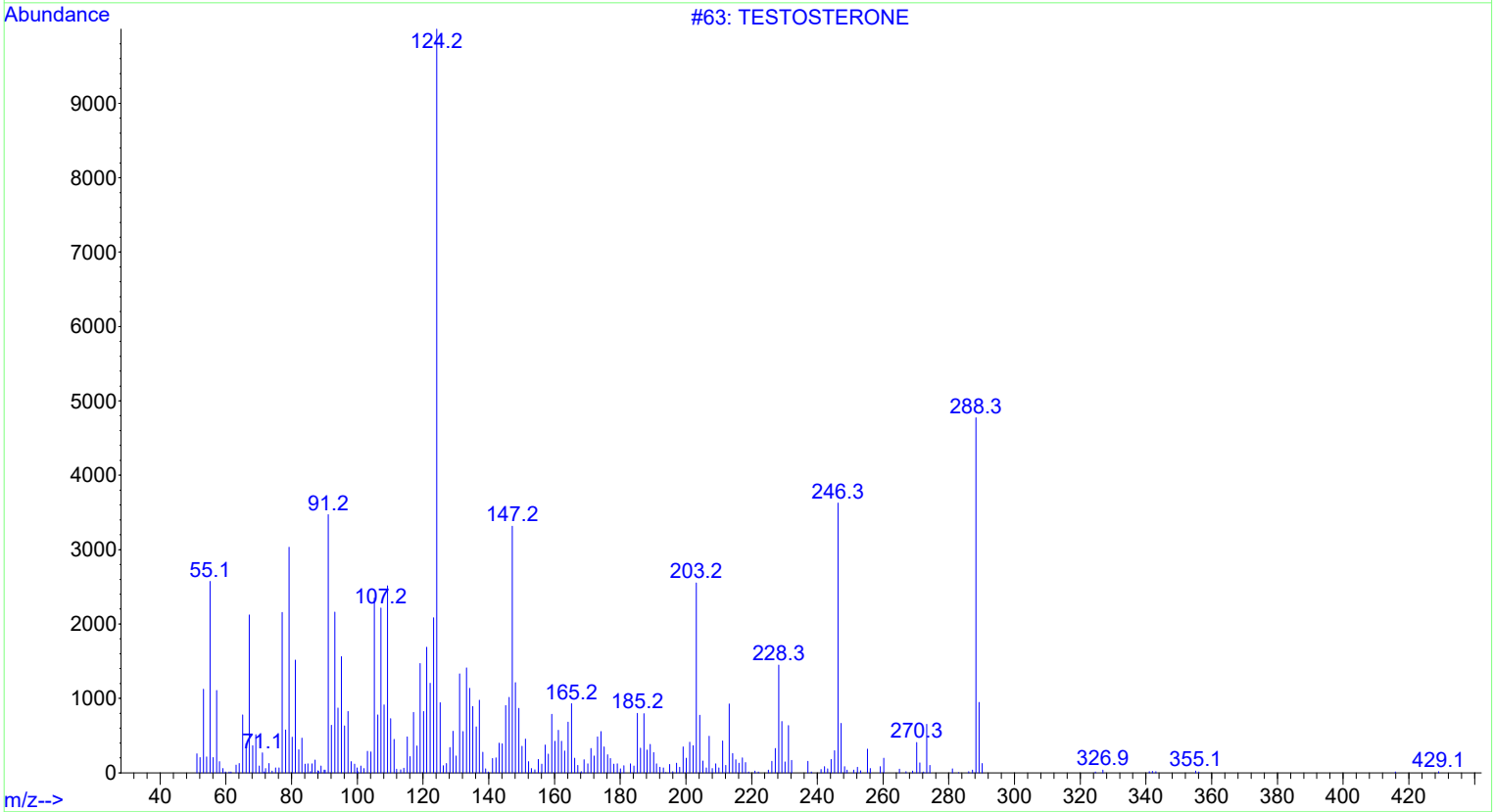


File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verif
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Instrument : GCMS #4
Sample Name: Testosterone Std (R-22-040) 000005988
Misc Info : 000005988
Vial Number: 11



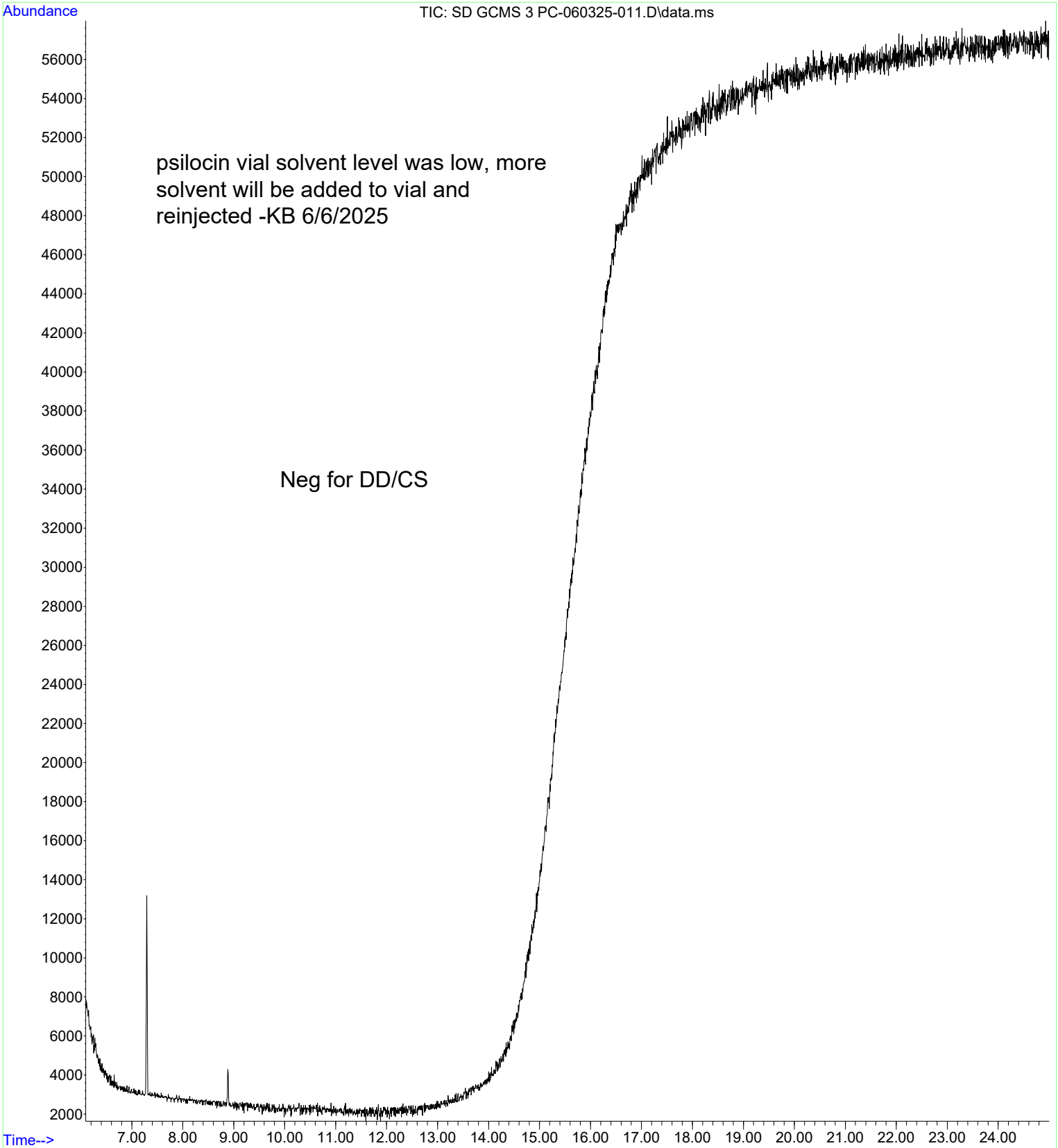
File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verif
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Acquired : 03 Jun 2025 15:32 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Testosterone Std (R-22-040) 000005988
Misc Info : 000005988
Vial Number: 11



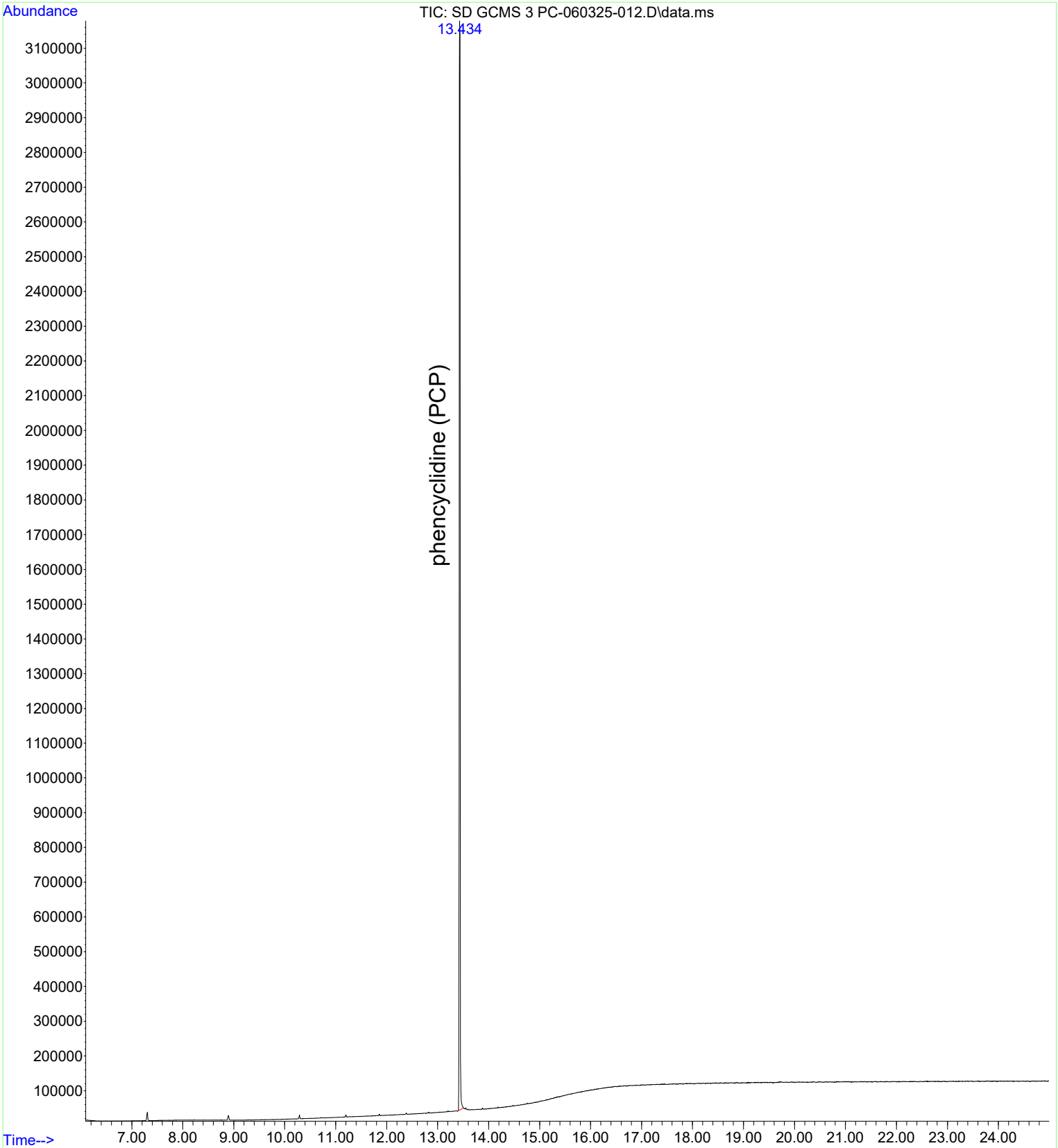


File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verif
... ication\060325\SD GCMS 3 PC-060325-011.D
Acquired : 03 Jun 2025 16:01 using AcqMethod DrugTest35MS_20X.M
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Sample Name: Psilocin Std (R-24-030) 000002968
Misc Info : 000002968
Vial Number: 12

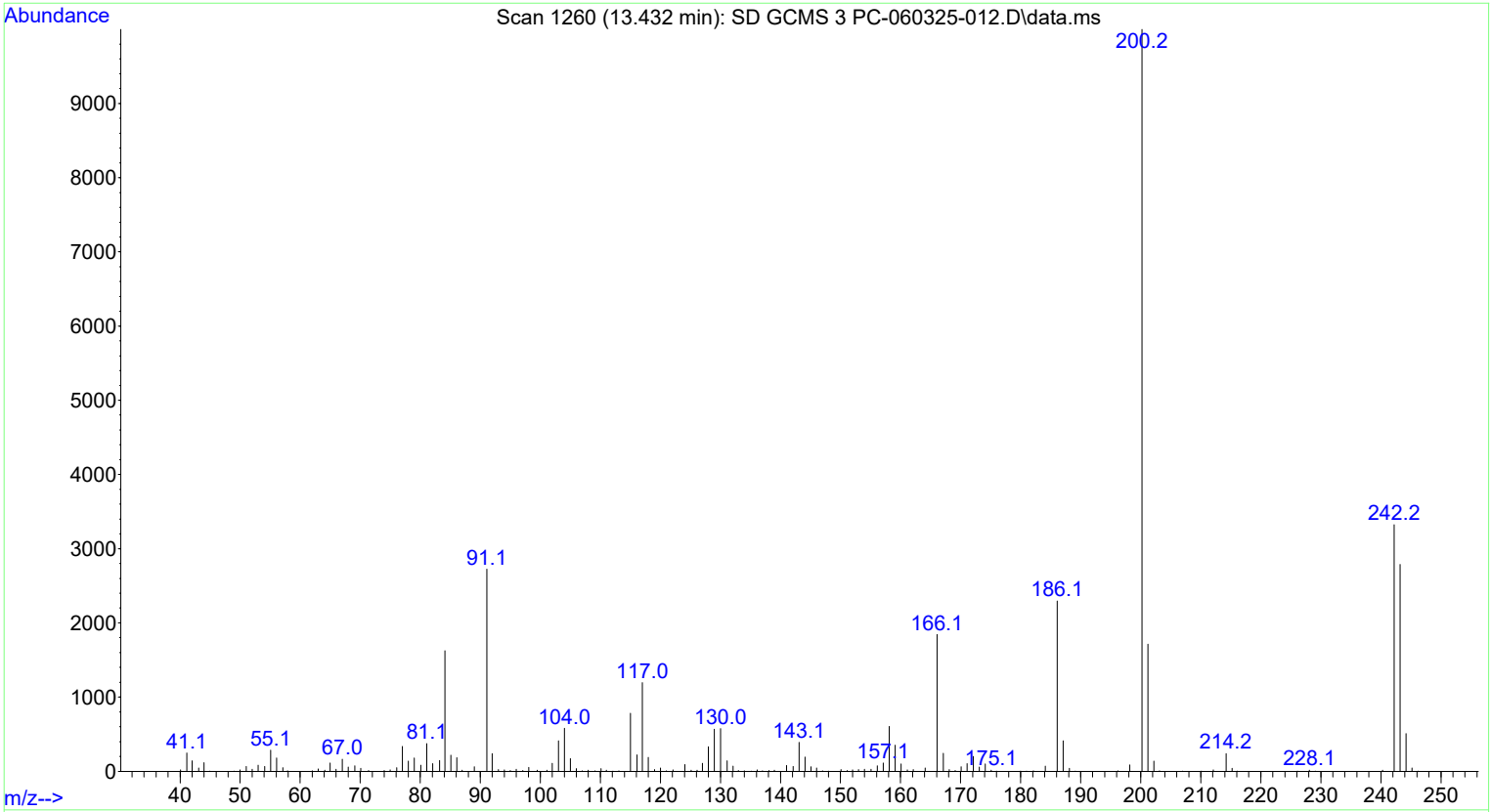
Run #1

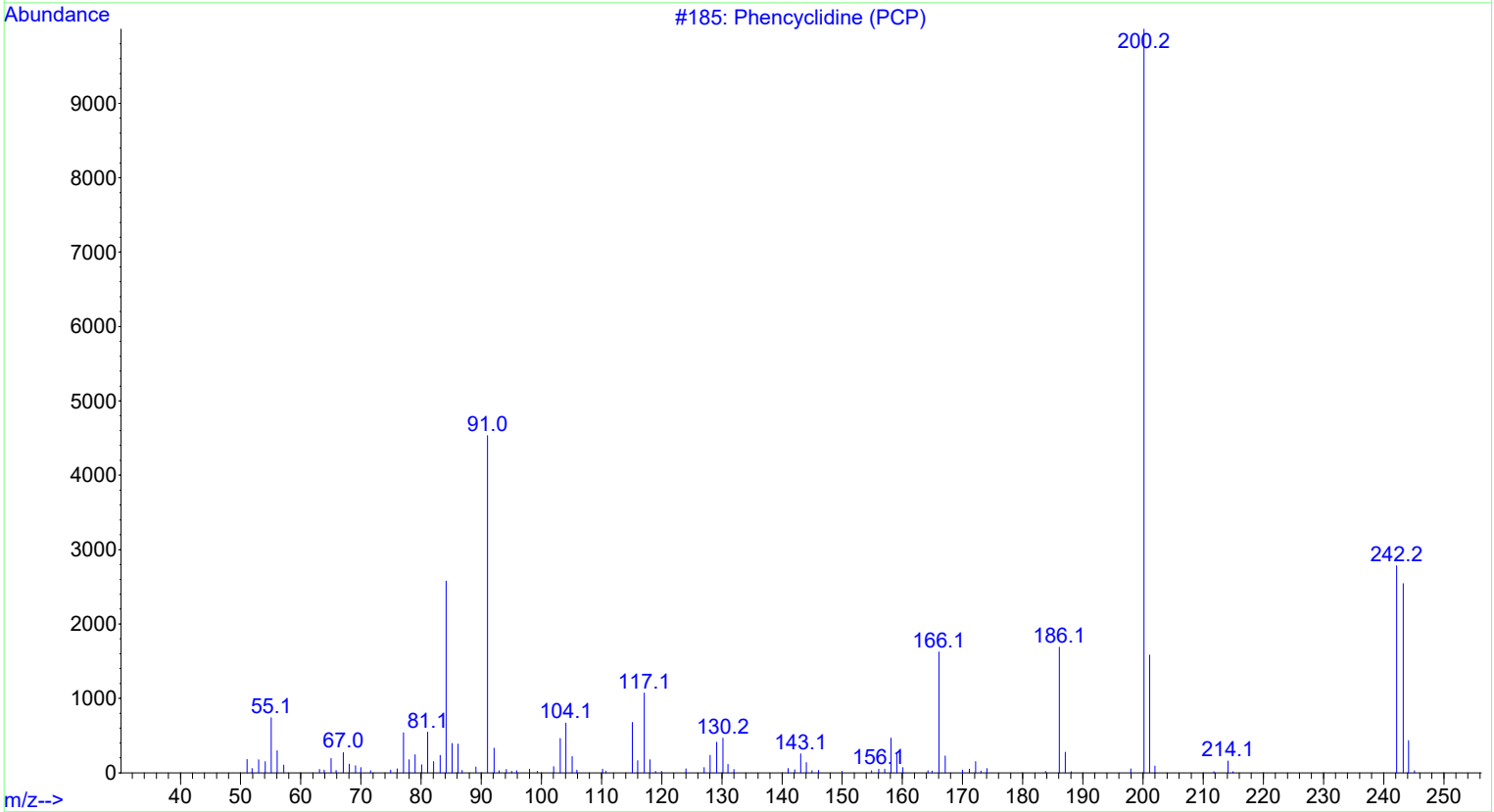


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... ication\060325\SD GCMS 3 PC-060325-012.D
Acquired : 03 Jun 2025 16:59 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Phencyclidine Sttd (R-24-017) 000002991
Misc Info : 000002991
Vial Number: 13

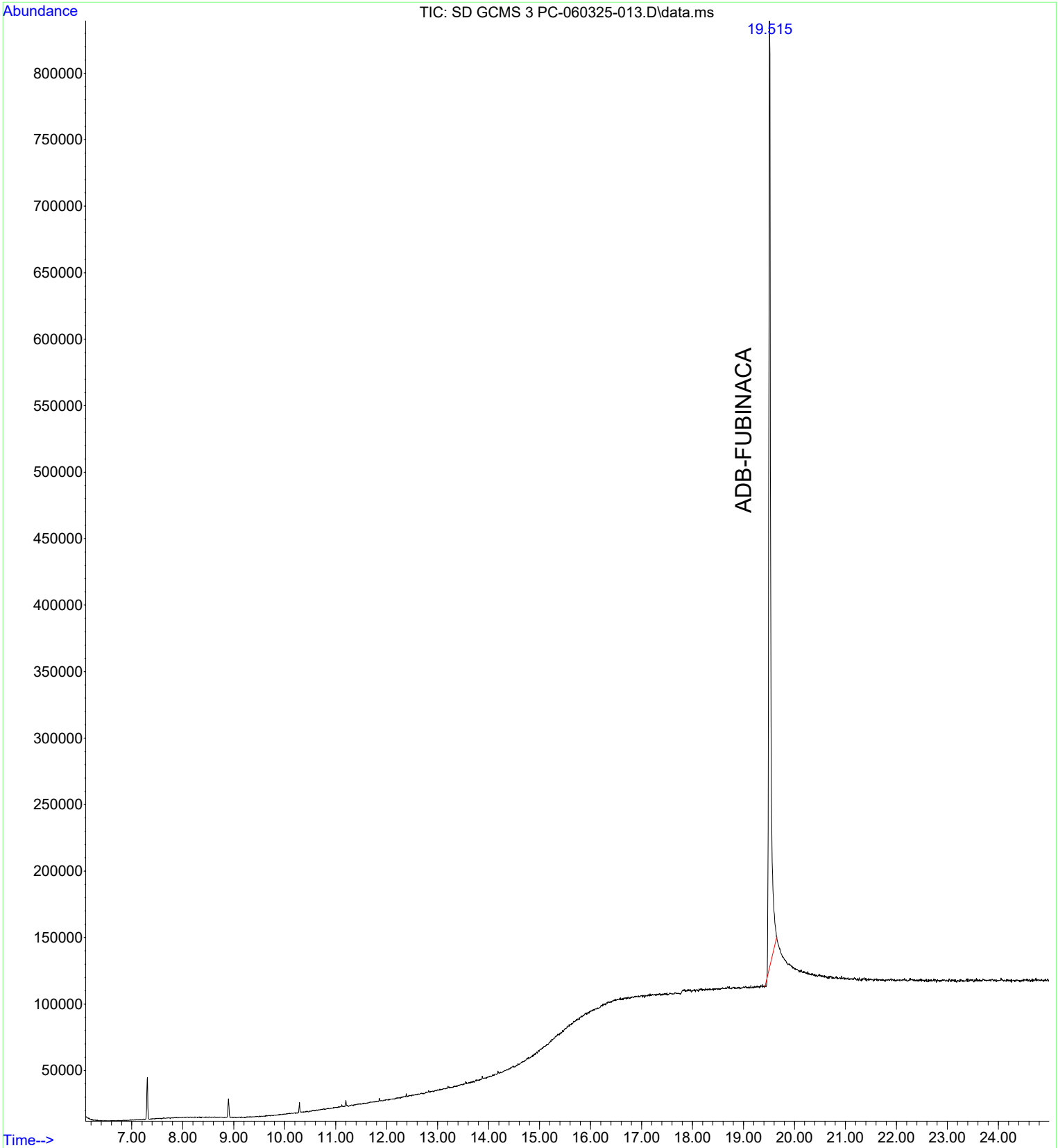


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Acquired : 03 Jun 2025 16:59 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Phencyclidine Sttd (R-24-017) 000002991
Misc Info : 000002991
Vial Number: 13

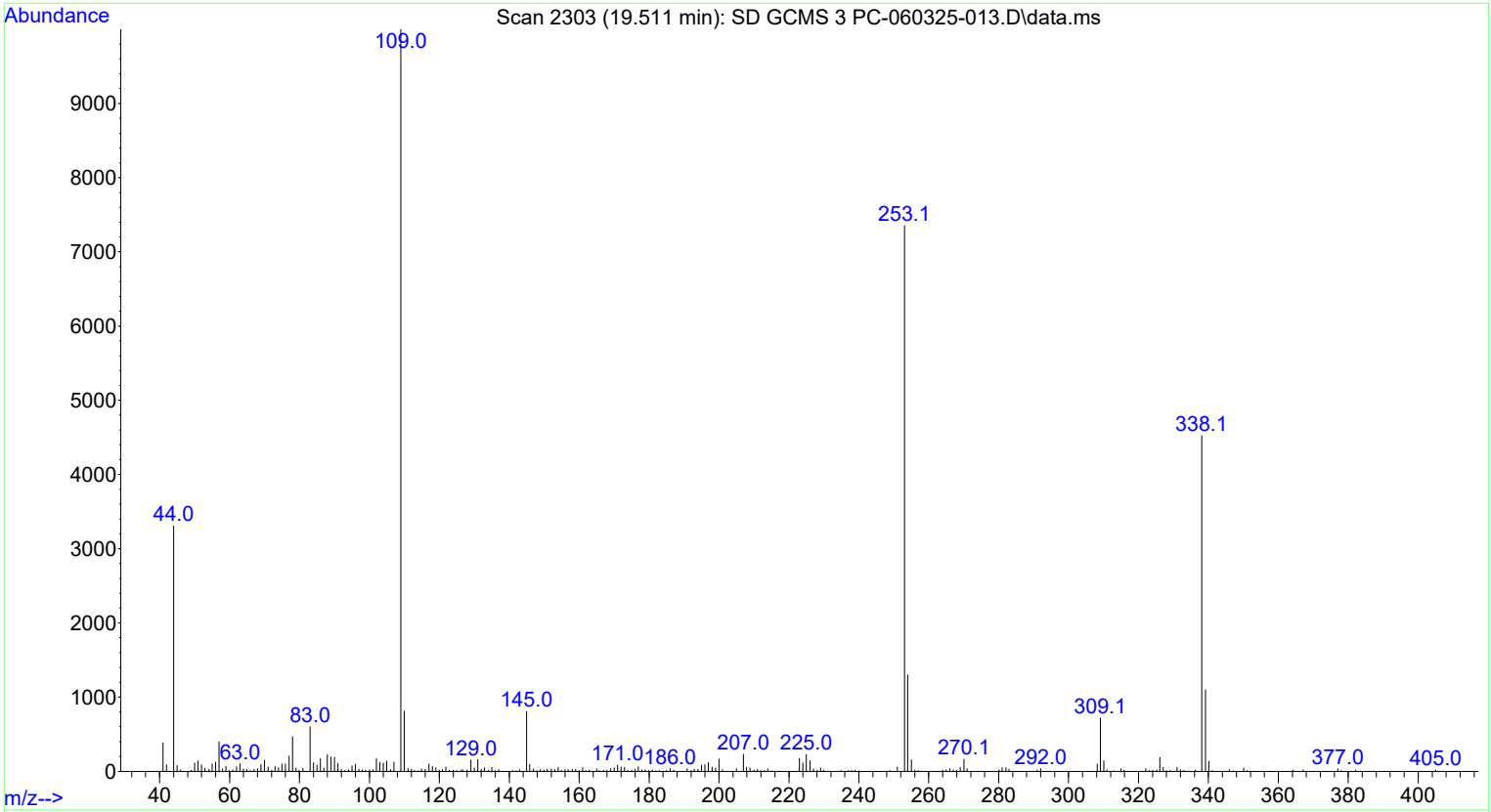


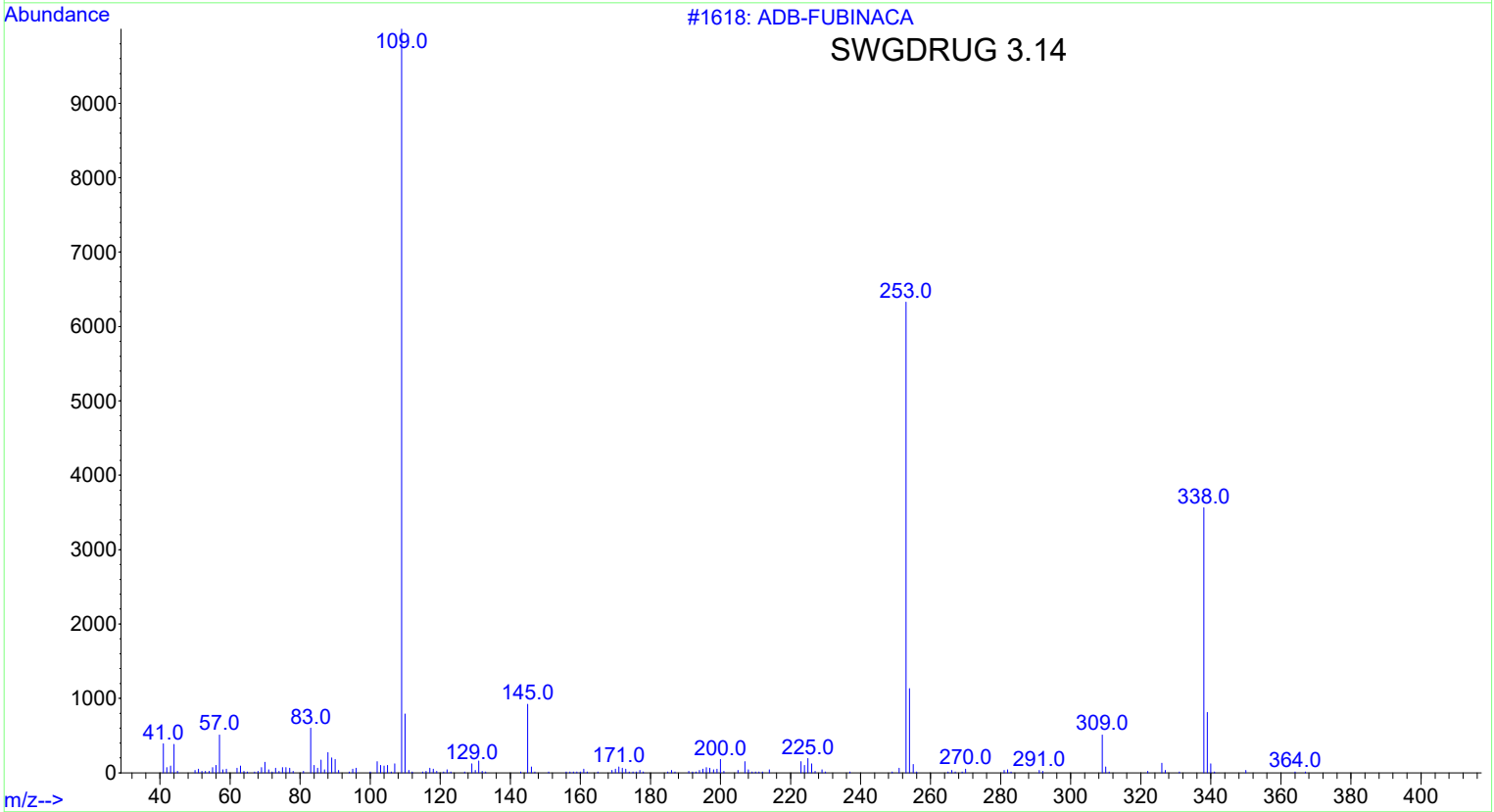


File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verif
... ication\060325\SD GCMS 3 PC-060325-013.D
Acquired : 03 Jun 2025 17:56 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: ADB-FUBINACA Std (R-24-045) 000002394
Misc Info : 000002394
Vial Number: 14

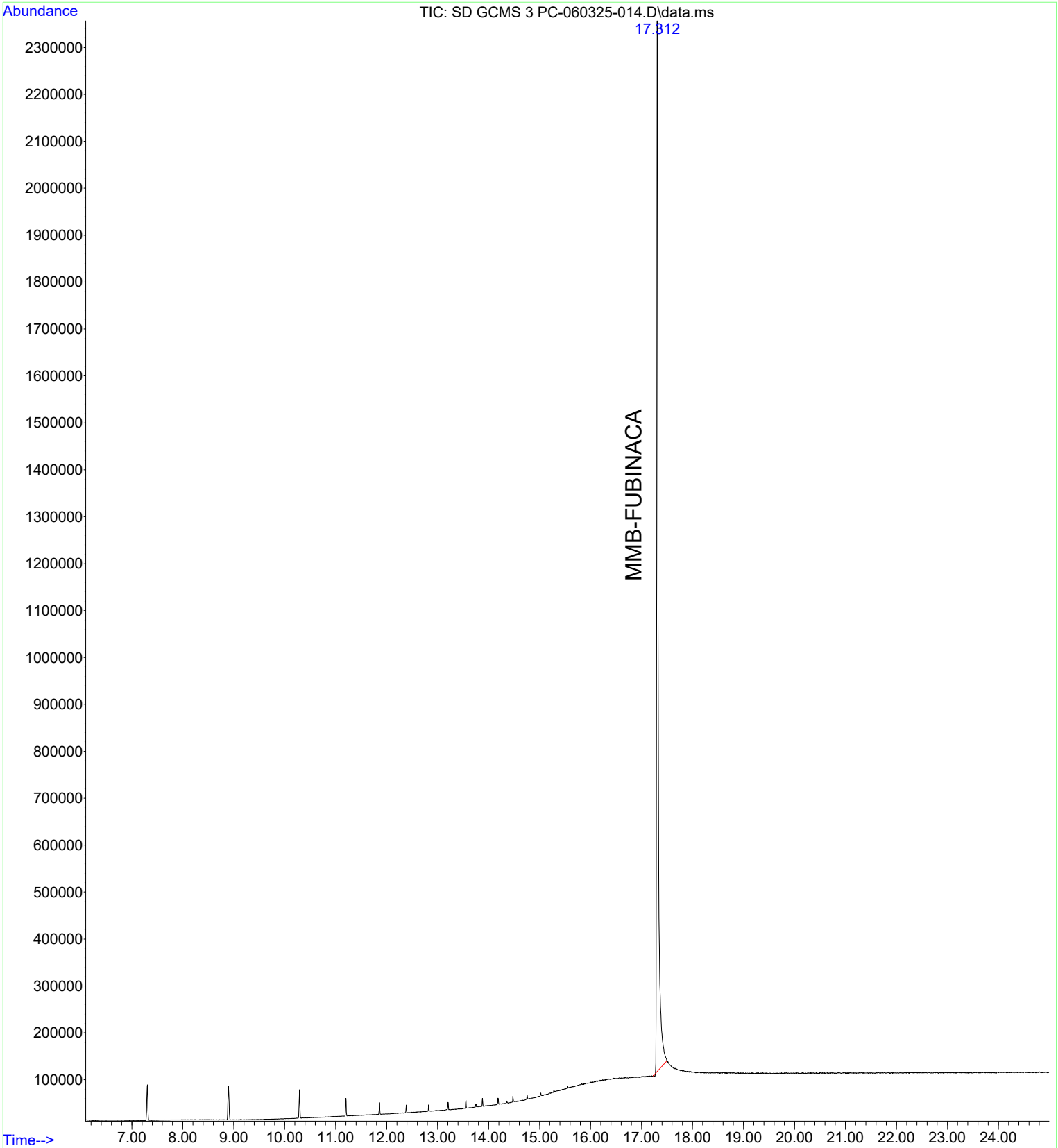


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Acquired : 03 Jun 2025 17:56 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: ADB-FUBINACA Std (R-24-045) 000002394
Misc Info : 000002394
Vial Number: 14

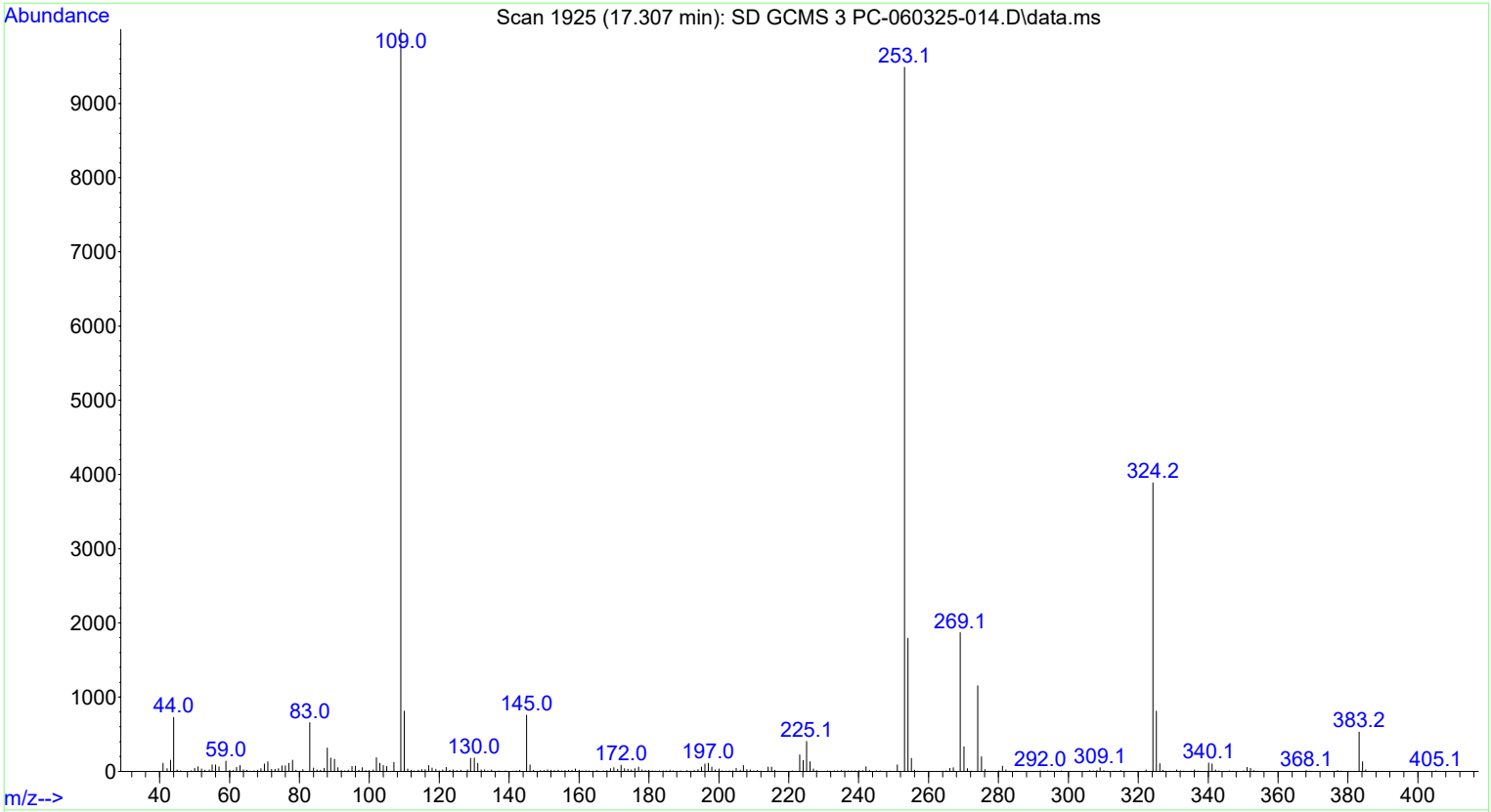


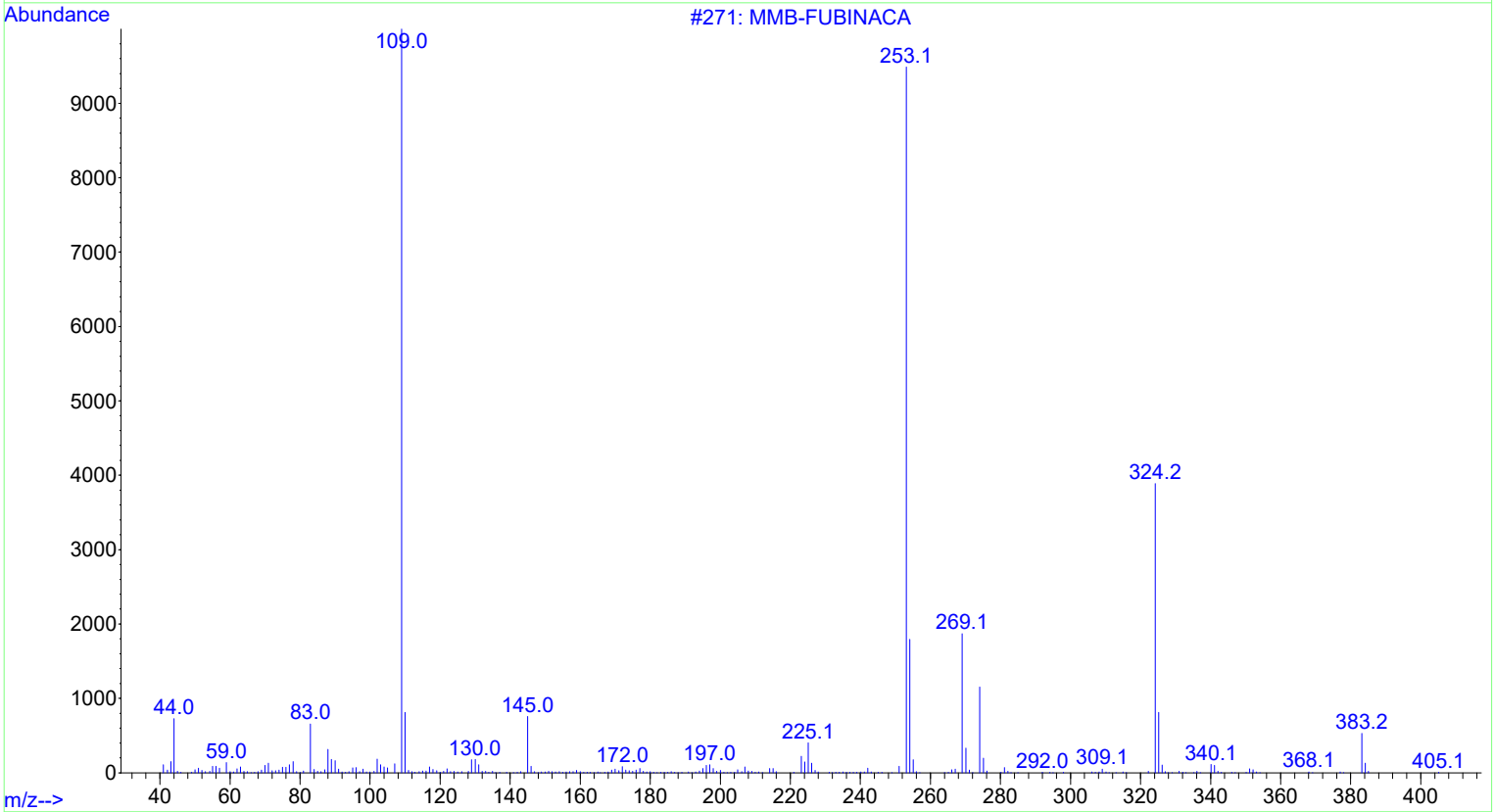


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Acquired : 03 Jun 2025 18:25 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: MMB-FUBINACA Std (R-24-042) 000002391
Misc Info : 000002391
Vial Number: 15

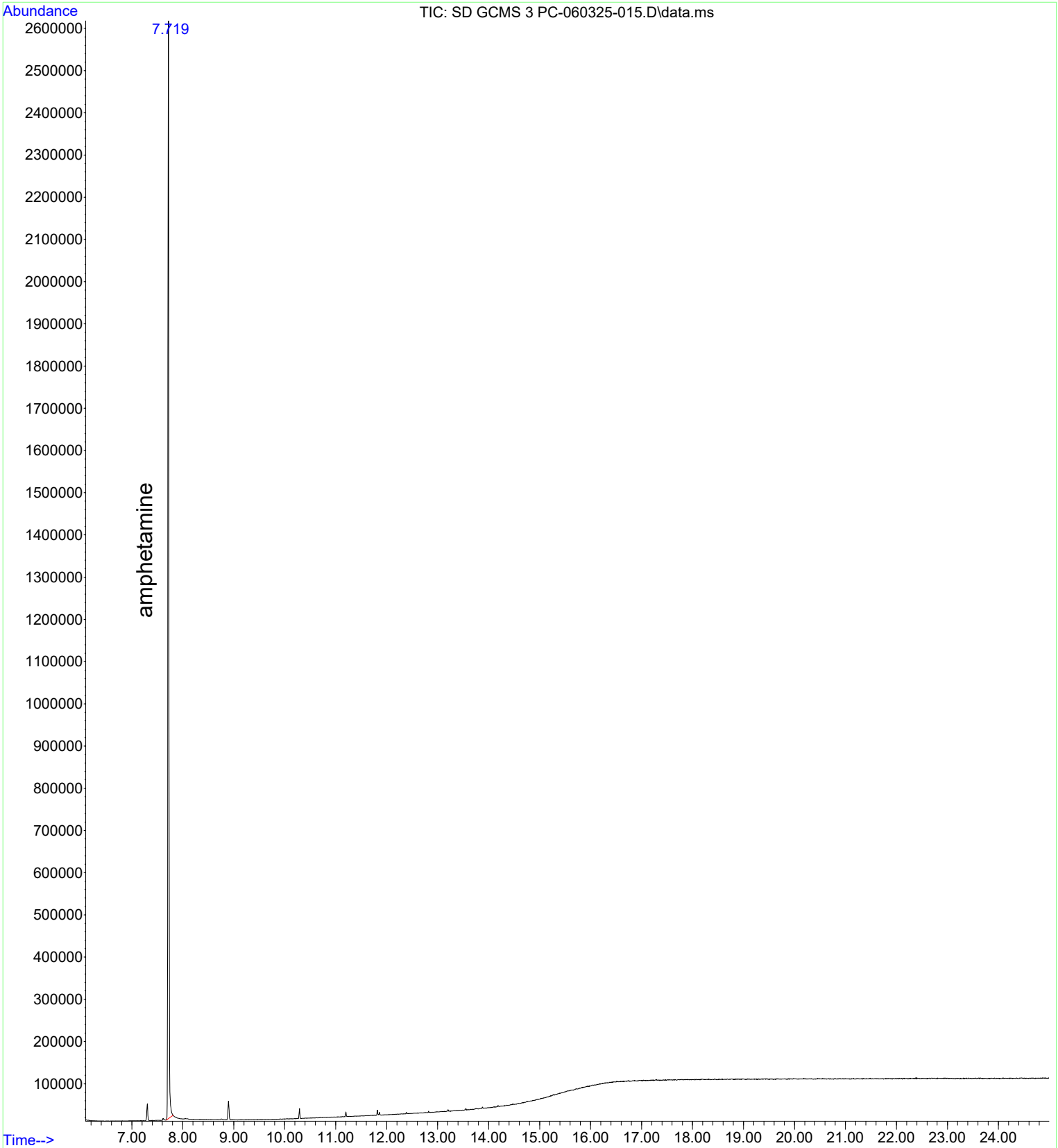


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Acquired : 03 Jun 2025 18:25 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: MMB-FUBINACA Std (R-24-042) 000002391
Misc Info : 000002391
Vial Number: 15

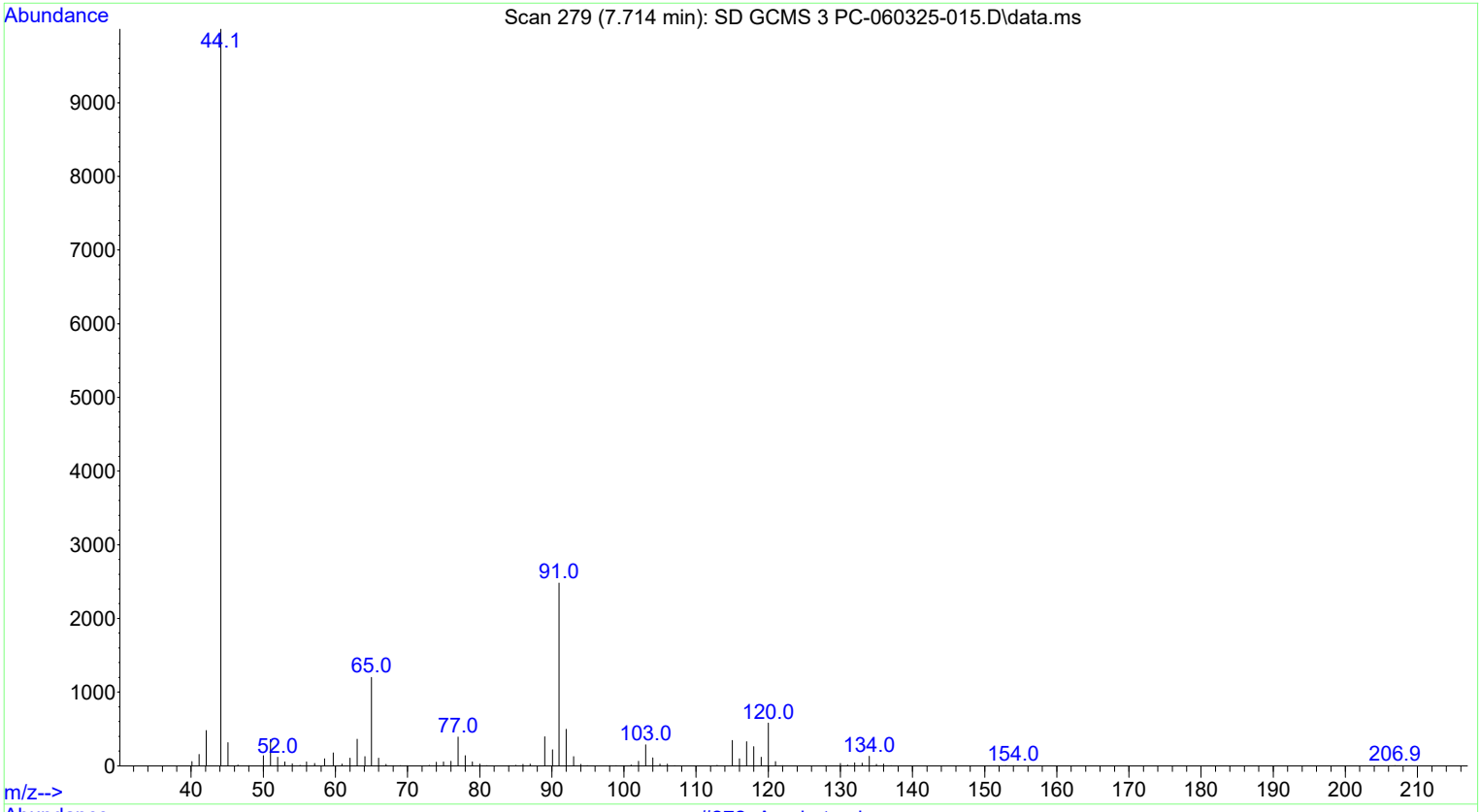


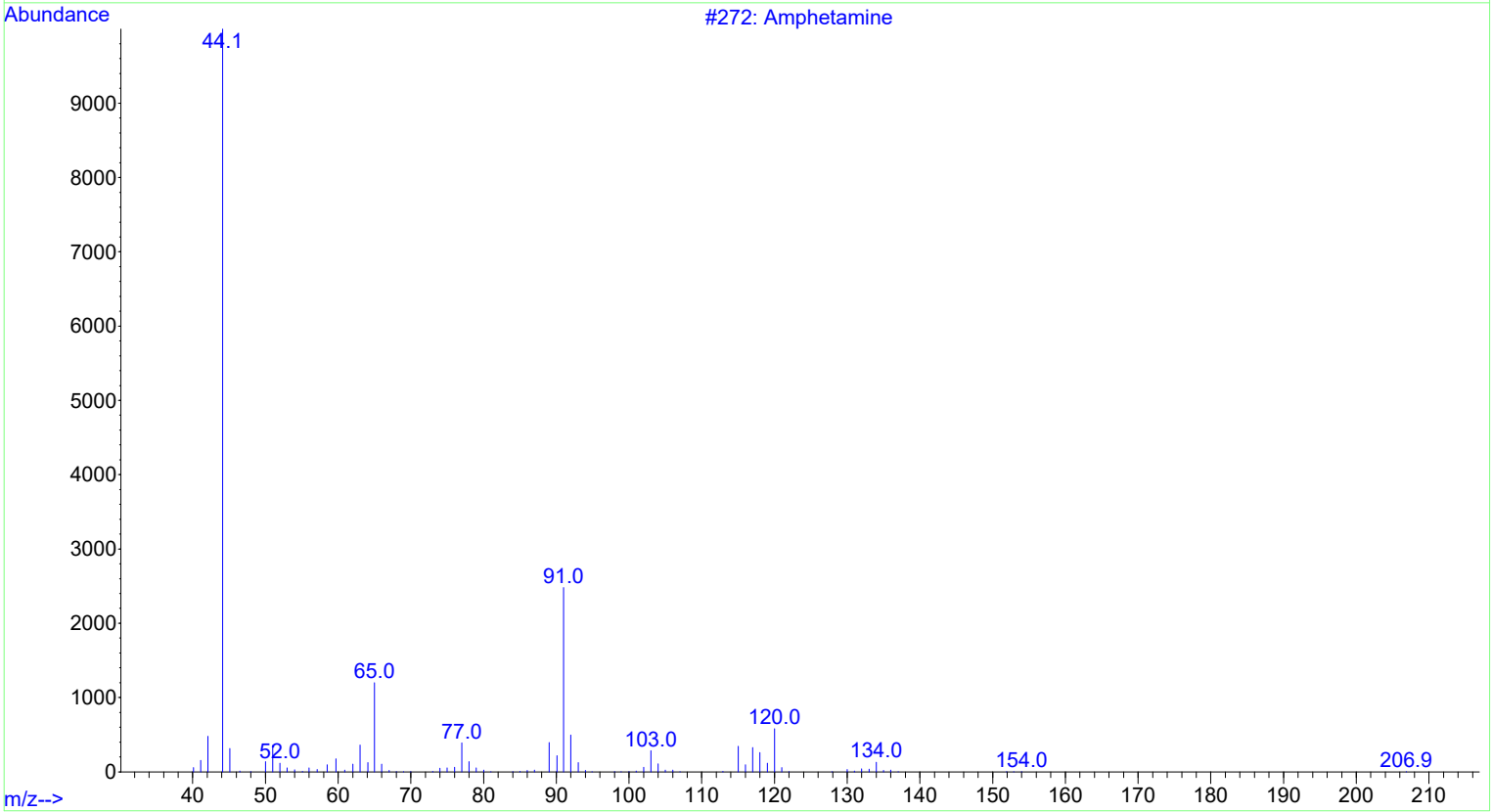


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... ication\060325\SD GCMS 3 PC-060325-015.D
Acquired : 03 Jun 2025 18:54 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Amphetamine Std (R-24-035) 000002987
Misc Info : 000002987
Vial Number: 16

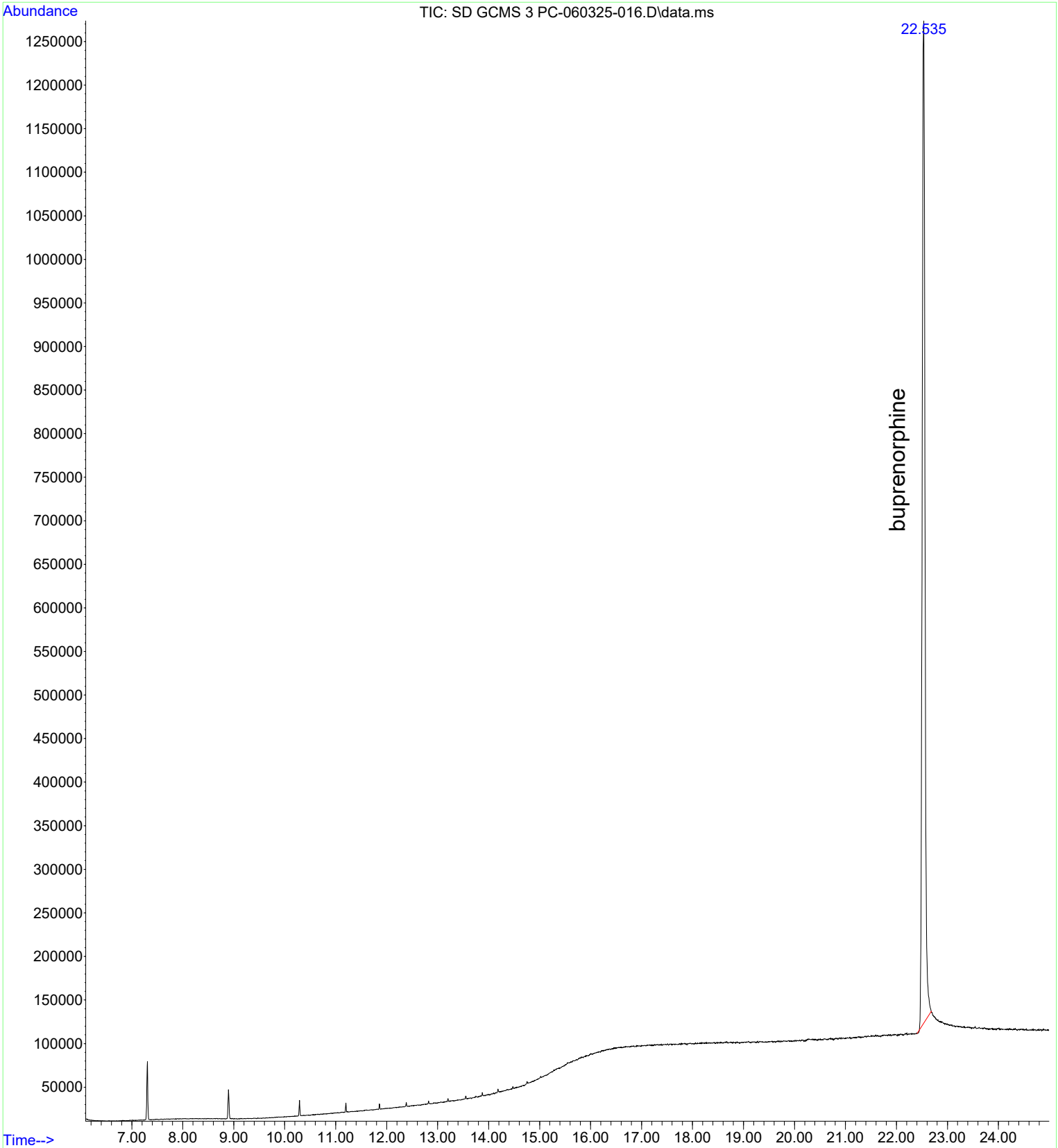


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Acquired : 03 Jun 2025 18:54 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Amphetamine Std (R-24-035) 000002987
Misc Info : 000002987
Vial Number: 16

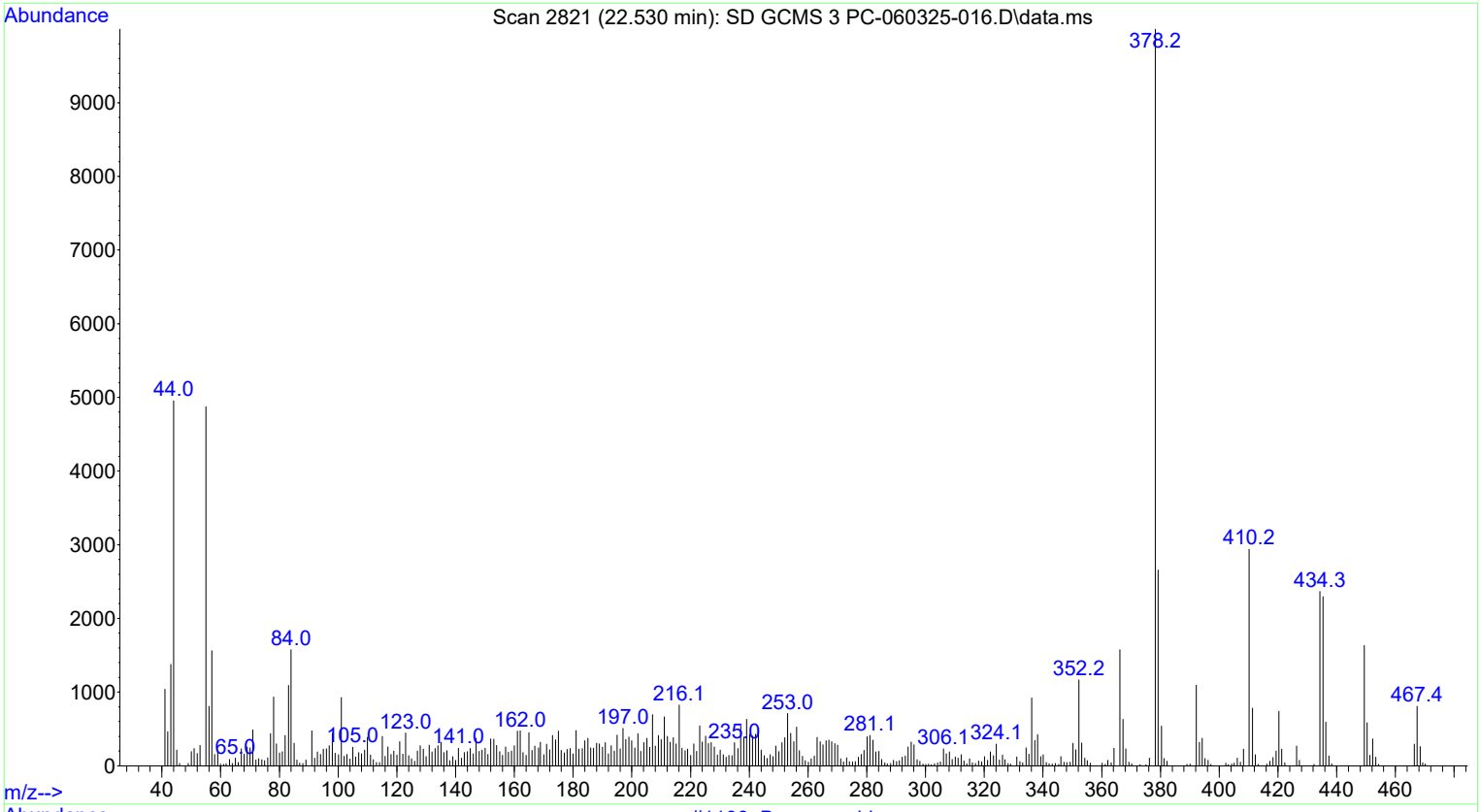


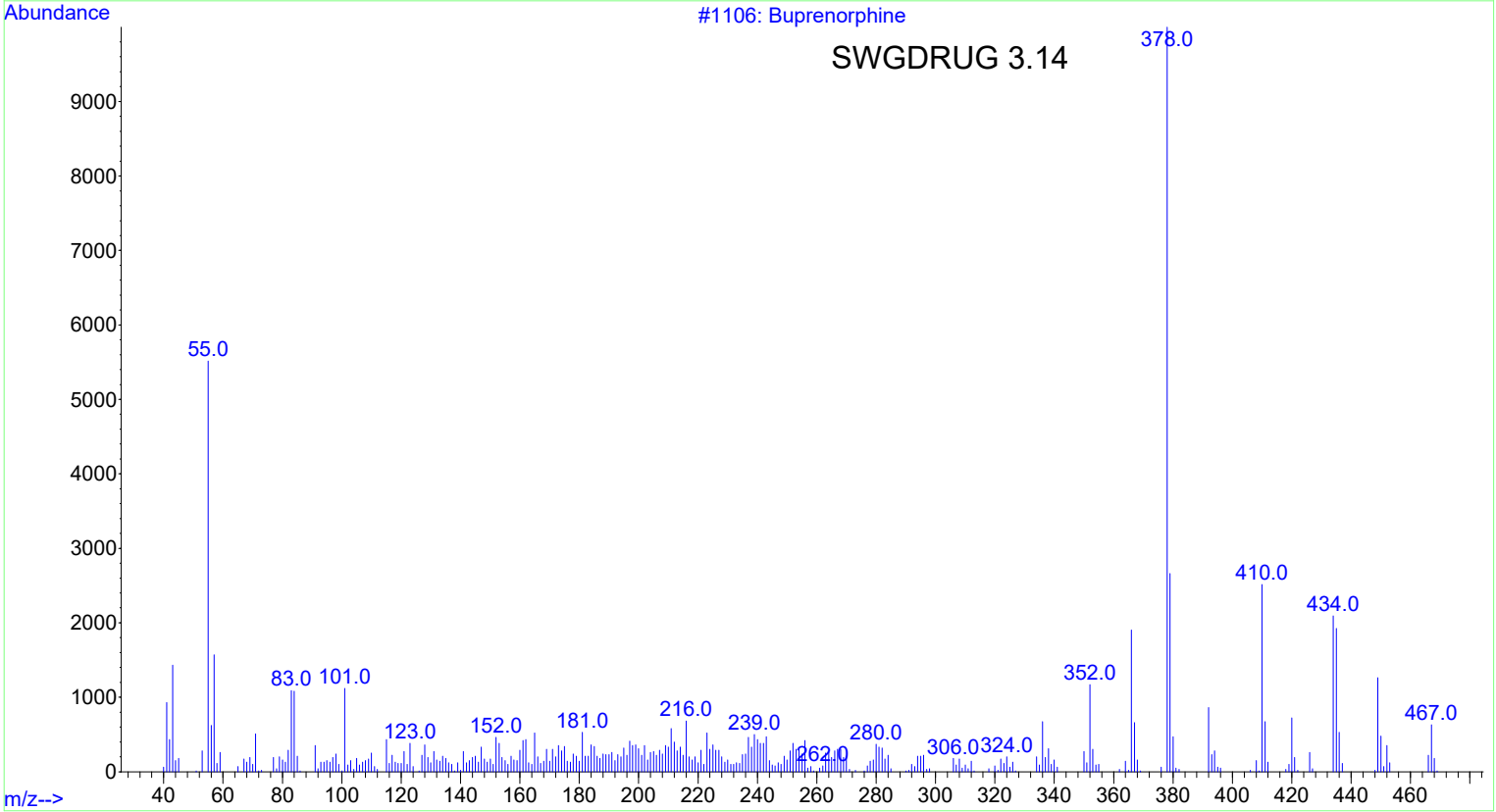


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Acquired : 03 Jun 2025 19:23 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Buprenorphine Std (S-22-008) 000005957
Misc Info : 000005957
Vial Number: 17

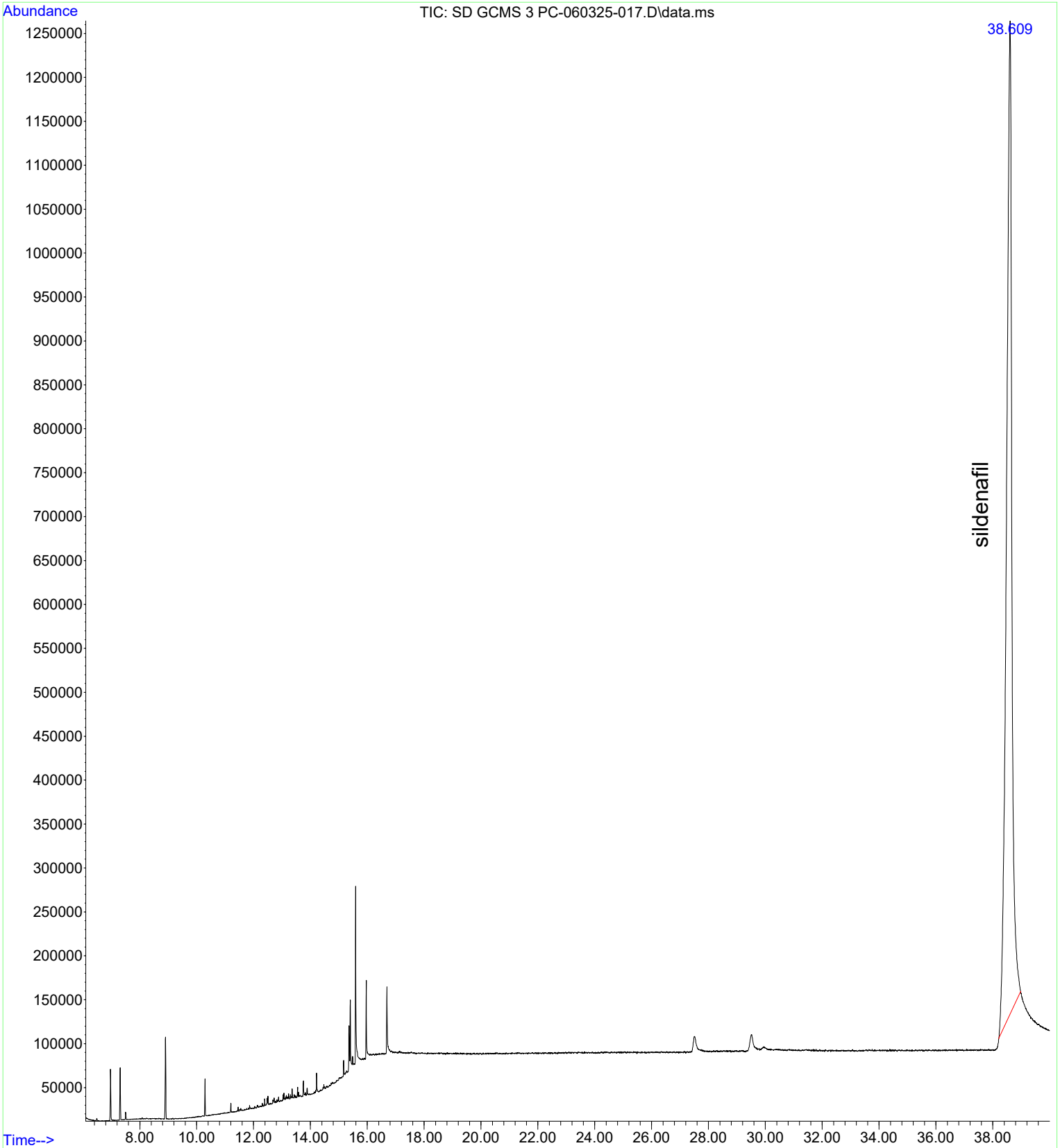


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Instrument : GCMS #4
Sample Name: Buprenorphine Std (S-22-008) 000005957
Misc Info : 000005957
Vial Number: 17

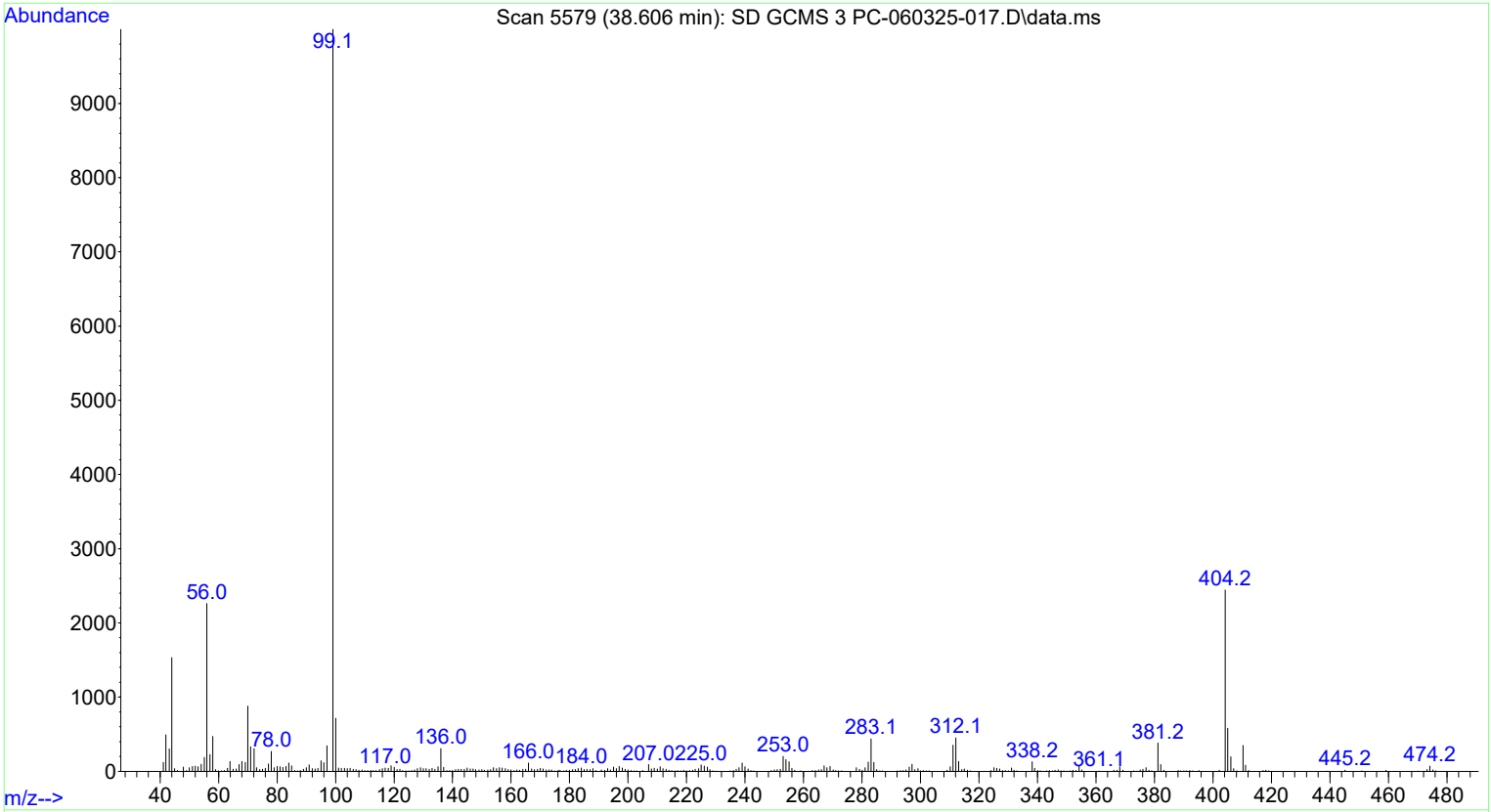


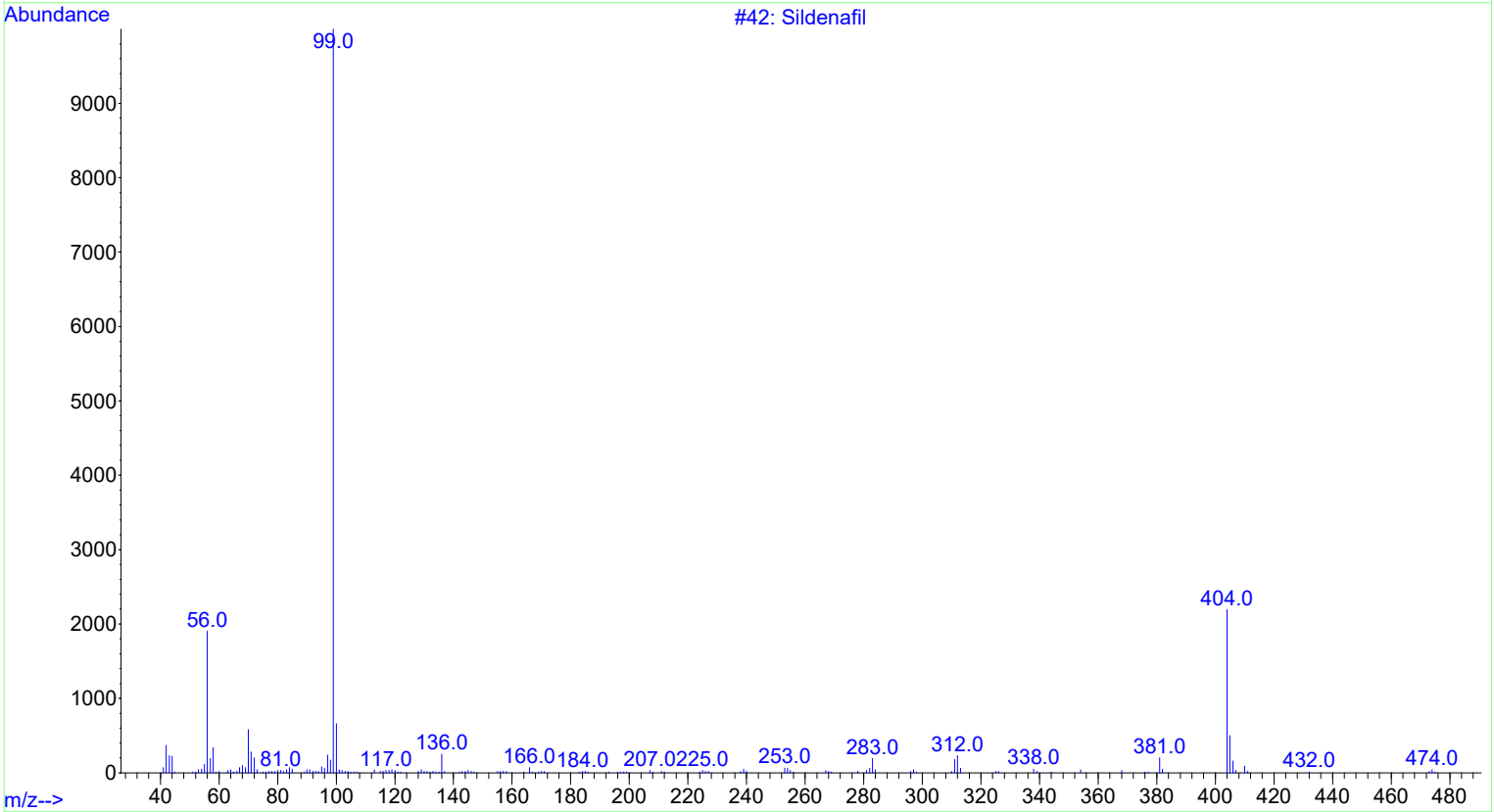


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Acquired : 03 Jun 2025 20:34 using AcqMethod DrugTest35MS-FHTI.M
Instrument : GCMS #4
Sample Name: Sildenafil Std (R-22-029) 000001333
Misc Info : 000001333
Vial Number: 18

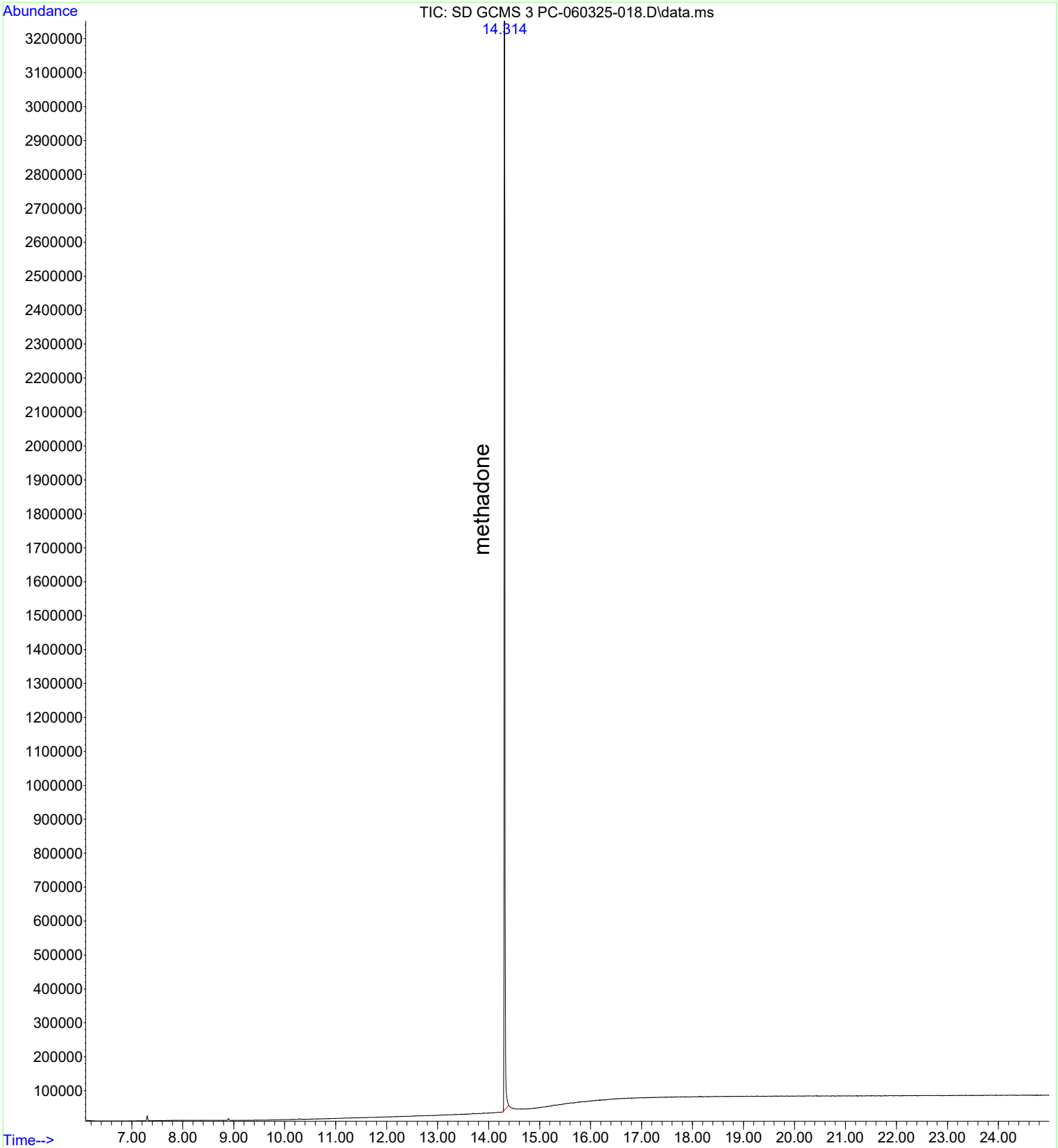


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Acquired : 03 Jun 2025 20:34 using AcqMethod DrugTest35MS-FHTI.M
Instrument : GCMS #4
Sample Name: Sildenafil Std (R-22-029) 000001333
Misc Info : 000001333
Vial Number: 18

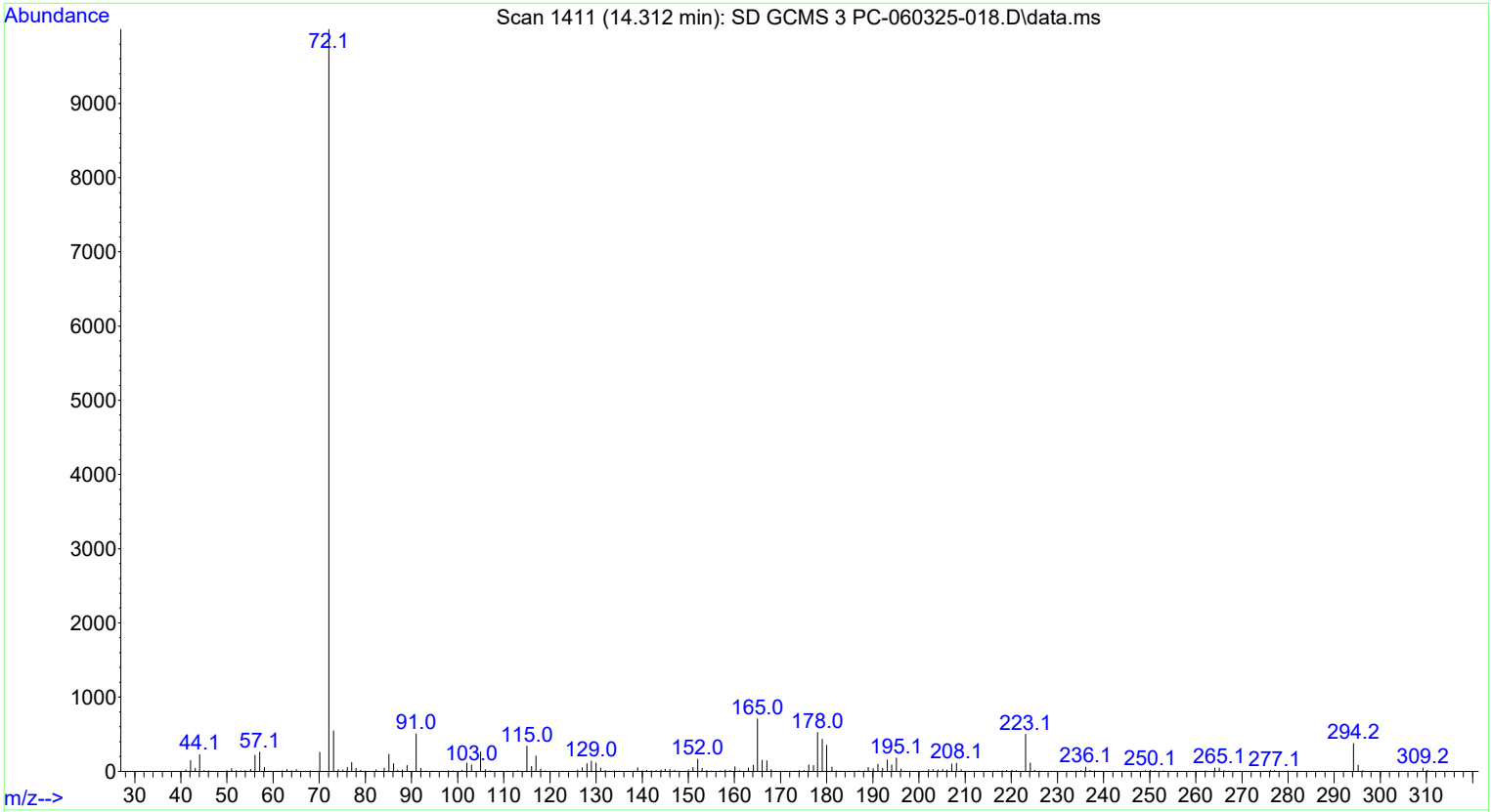


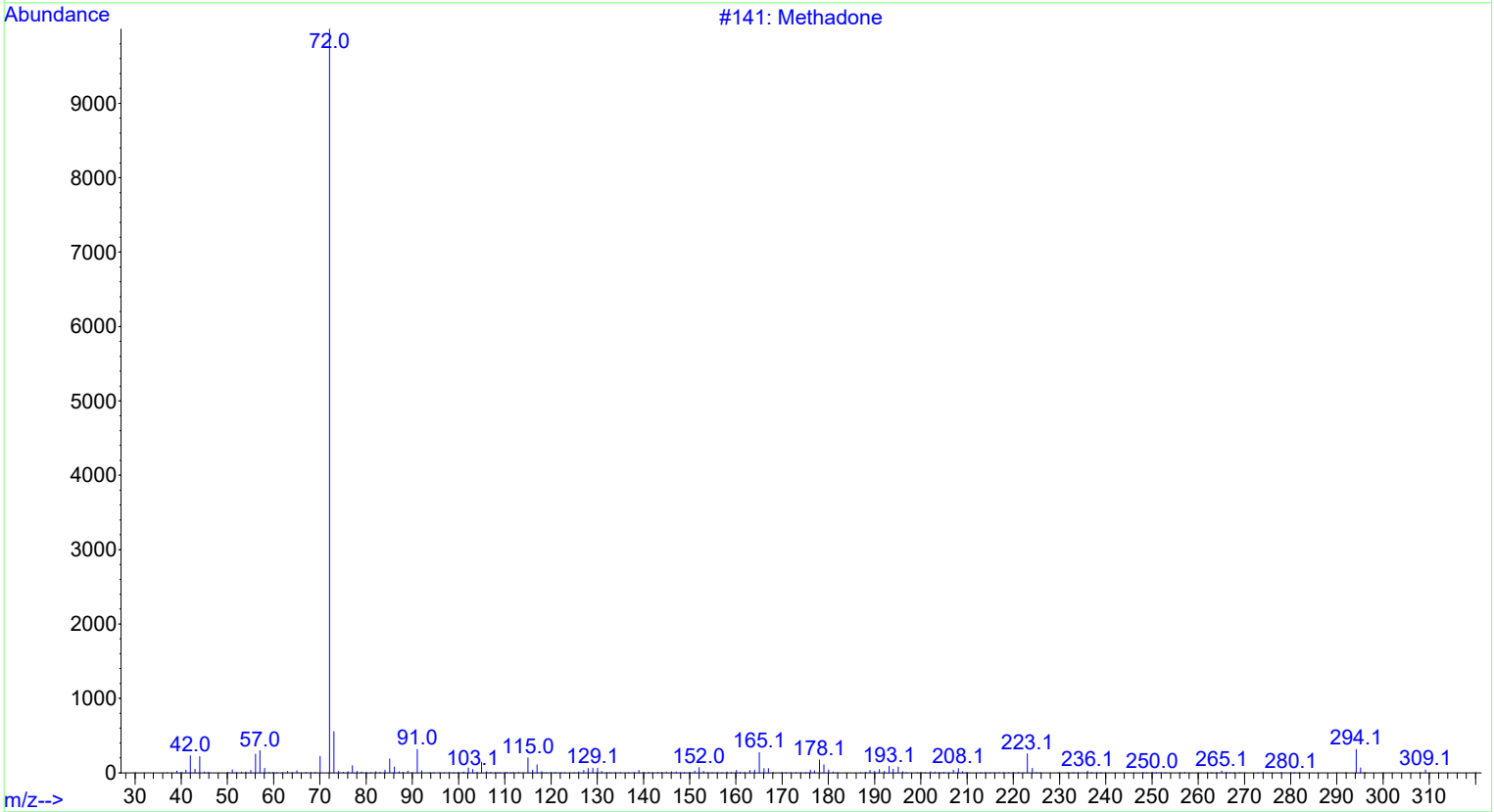


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Acquired : 03 Jun 2025 21:47 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Methadone Std (R-24-015) 000002962
Misc Info : 000002962
Vial Number: 19

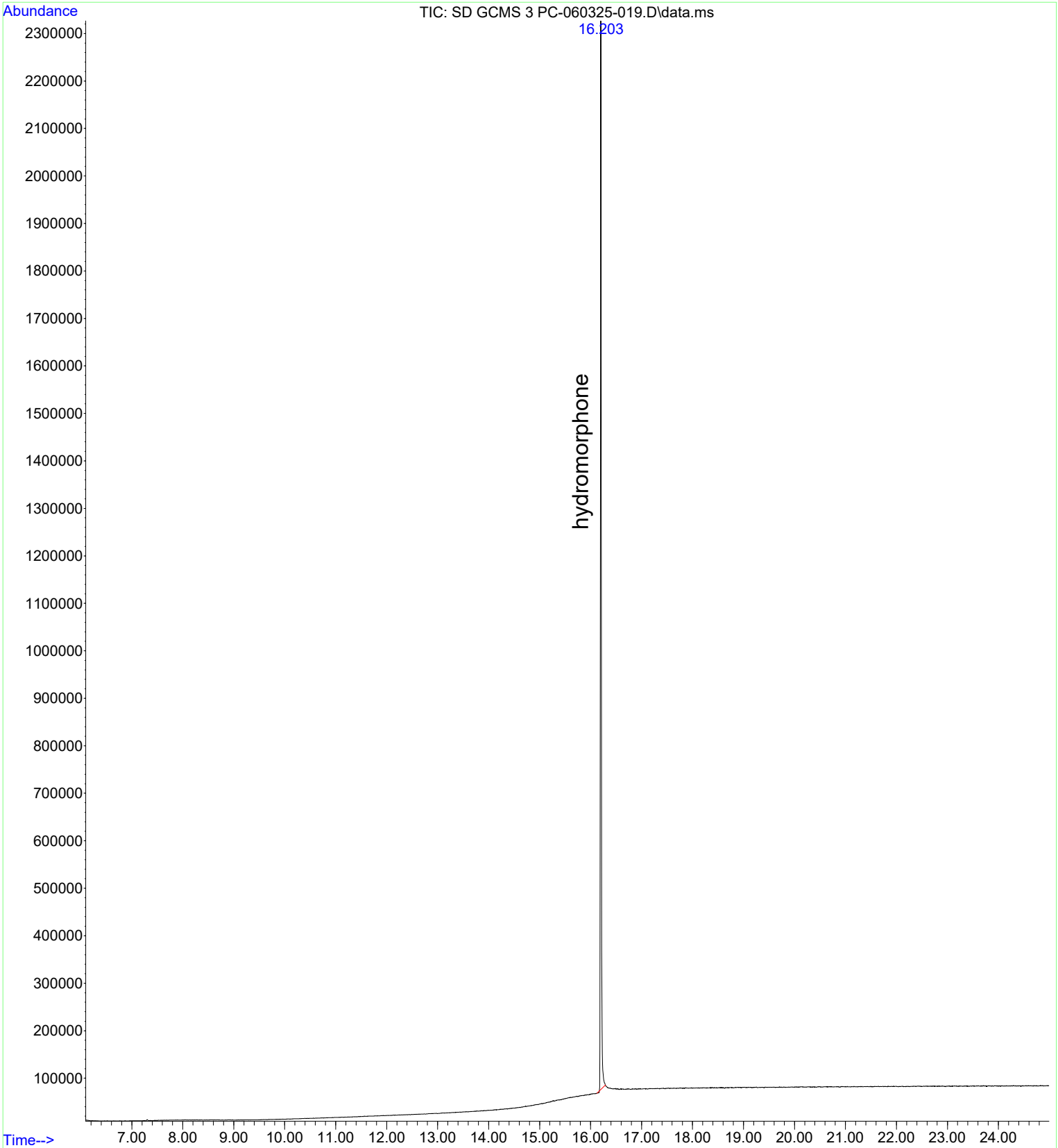


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Acquired : 03 Jun 2025 21:47 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Methadone Std (R-24-015) 000002962
Misc Info : 000002962
Vial Number: 19

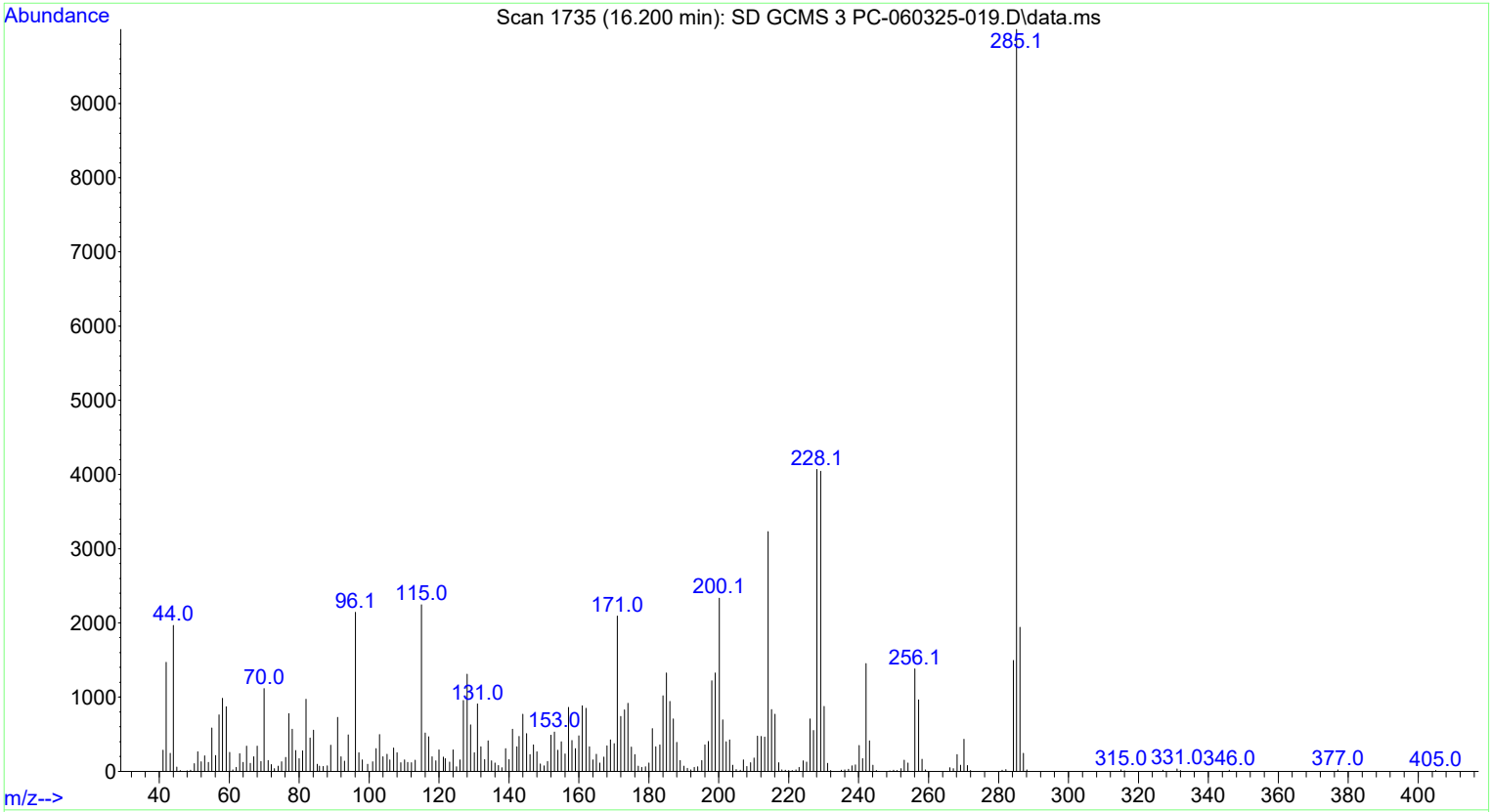


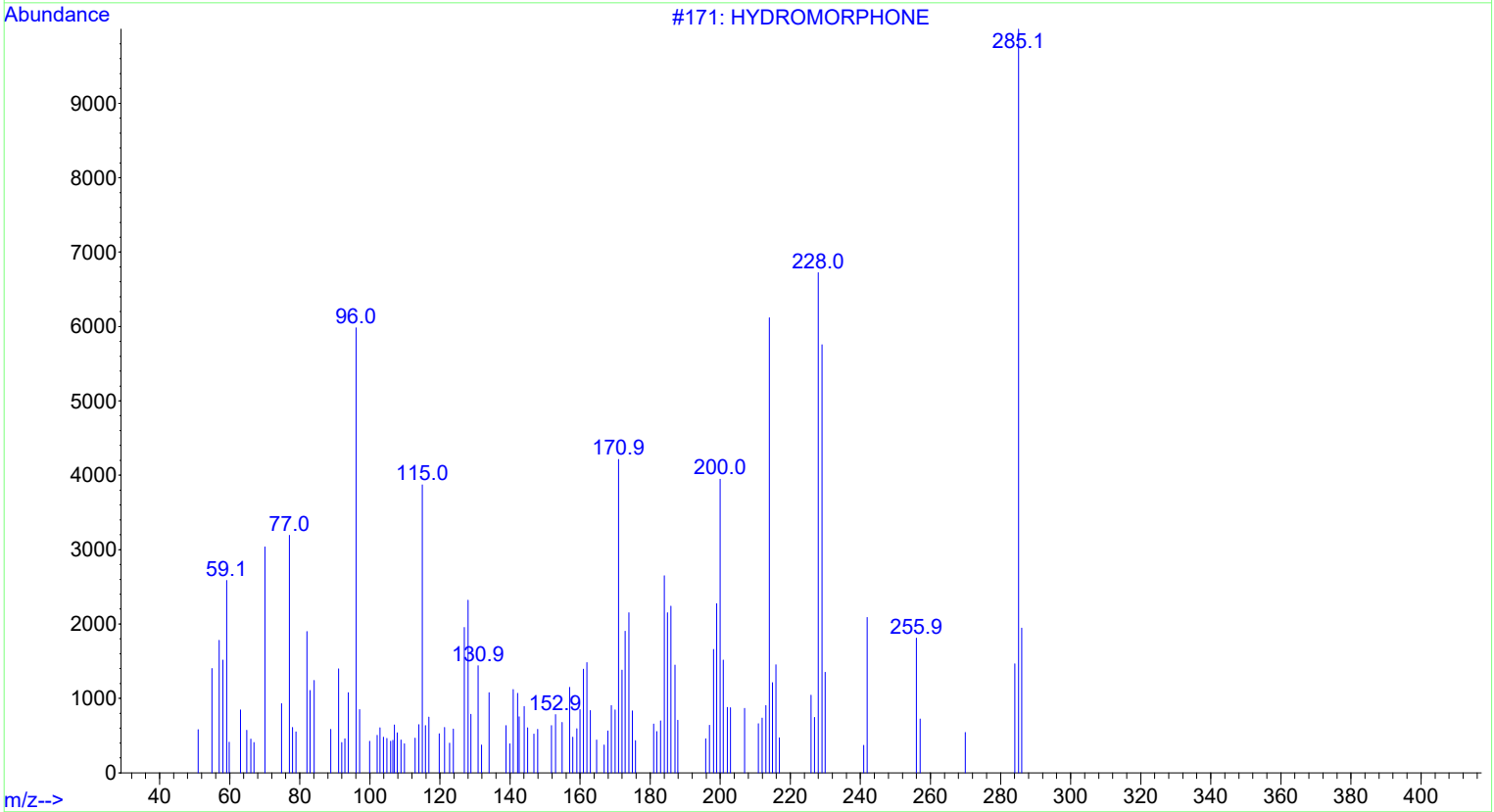


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Acquired : 03 Jun 2025 22:16 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Hydromorphone Std (R-24-023) 000002995
Misc Info : 000002995
Vial Number: 20

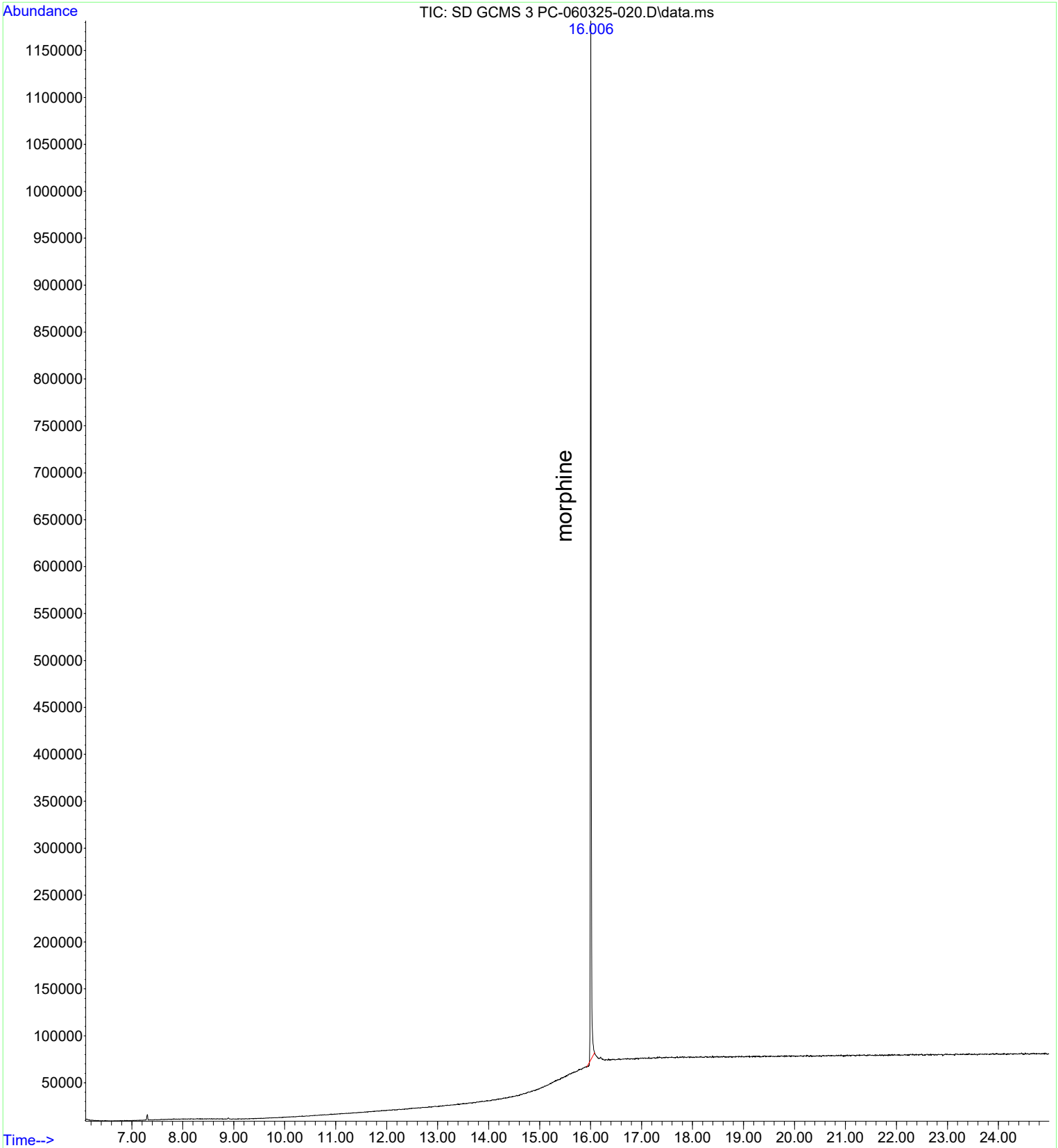


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Acquired : 03 Jun 2025 22:16 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Hydromorphone Std (R-24-023) 000002995
Misc Info : 000002995
Vial Number: 20

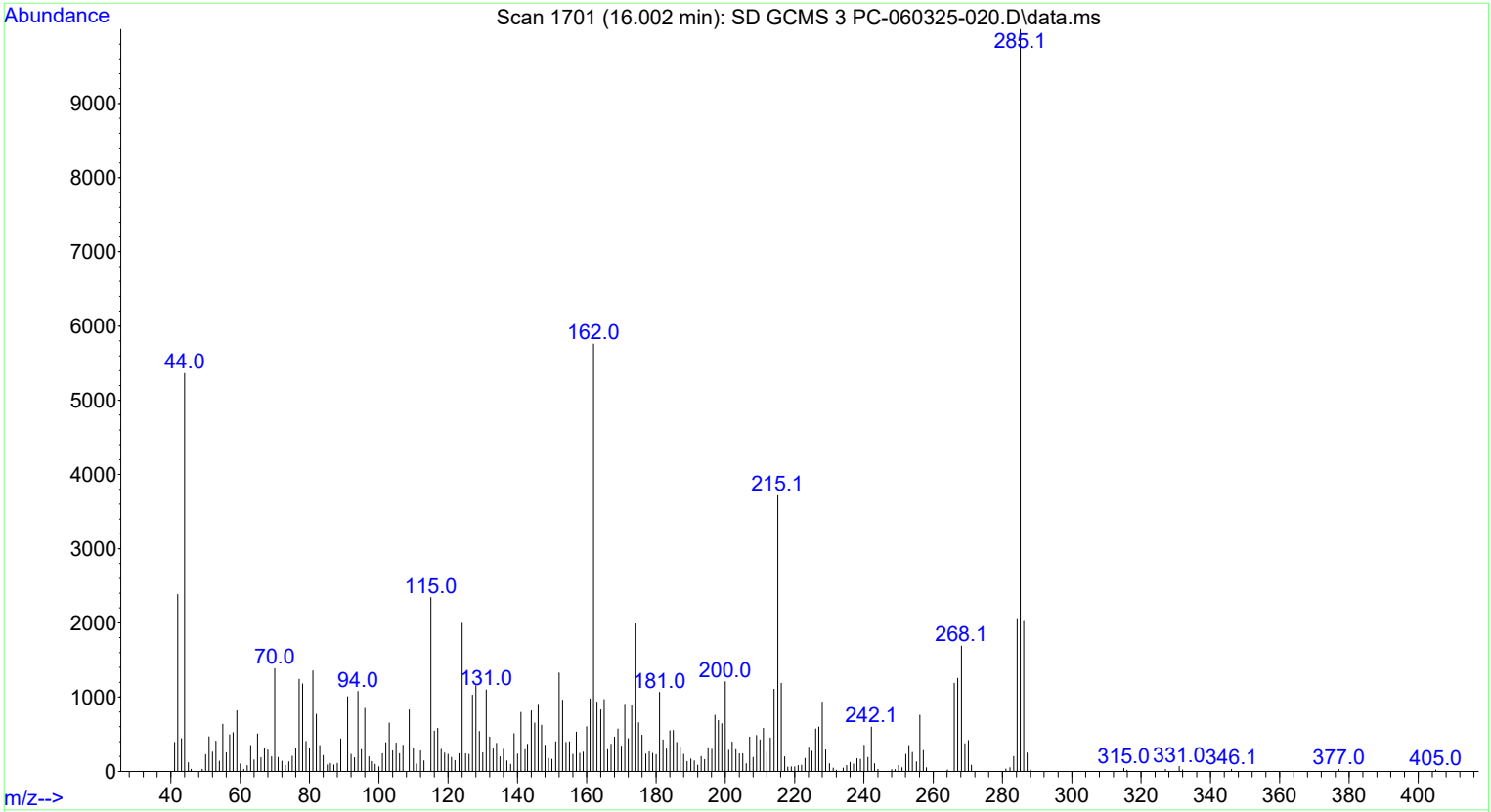


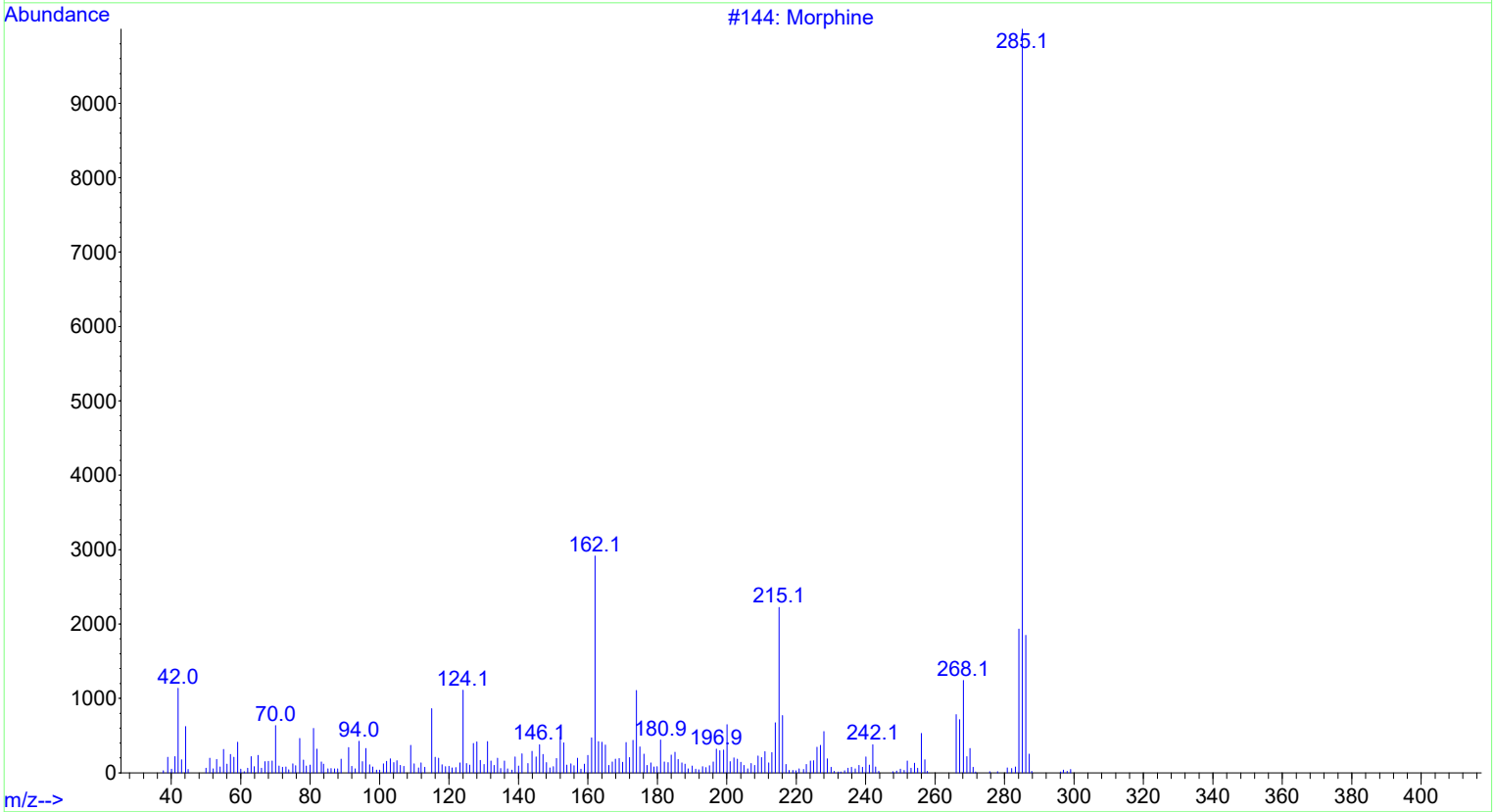


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... ication\060325\SD GCMS 3 PC-060325-020.D
Acquired : 03 Jun 2025 22:45 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Morphine Std (R-24-024) 000002970
Misc Info : 000002970
Vial Number: 21

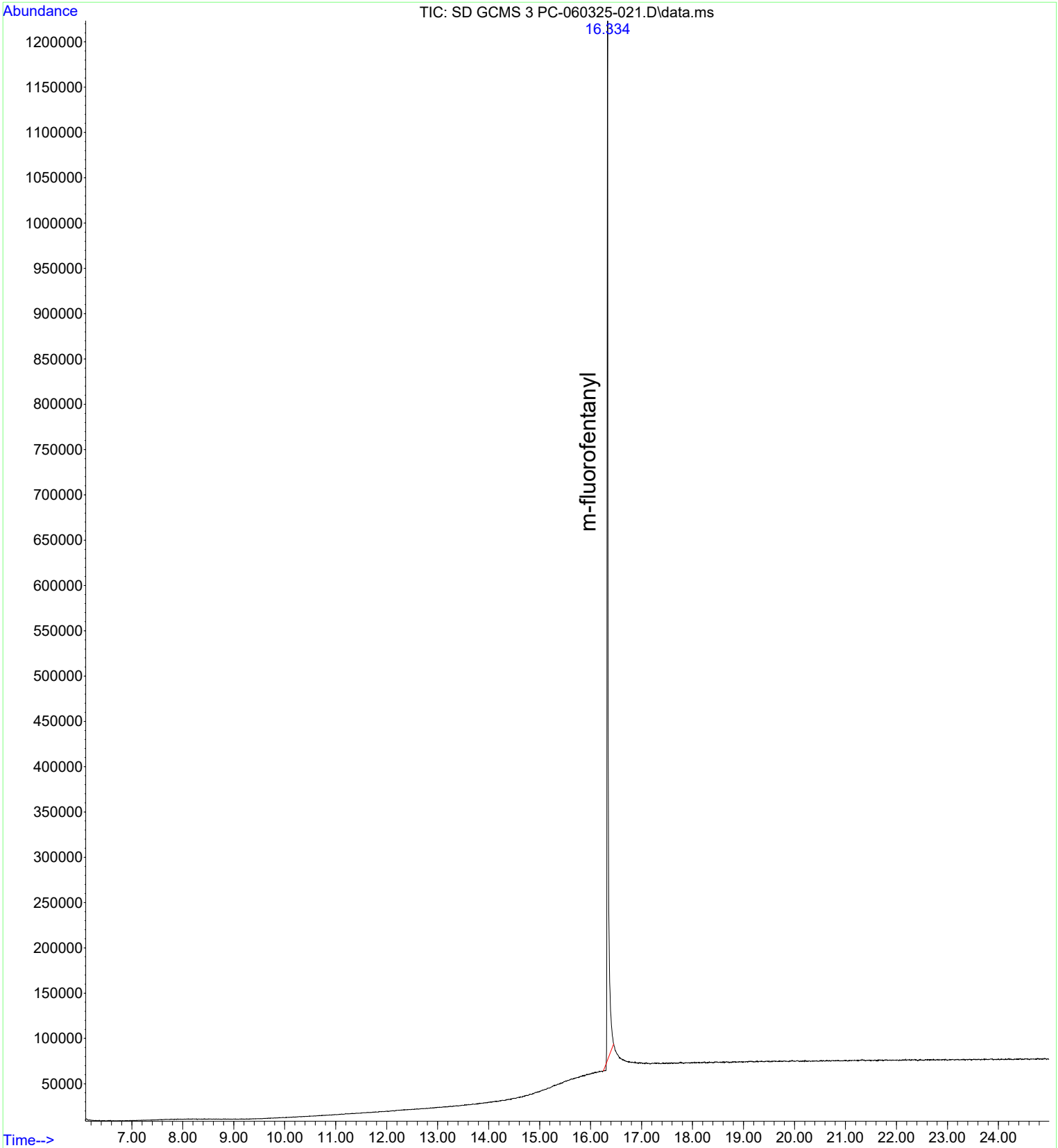


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Acquired : 03 Jun 2025 22:45 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Morphine Std (R-24-024) 000002970
Misc Info : 000002970
Vial Number: 21

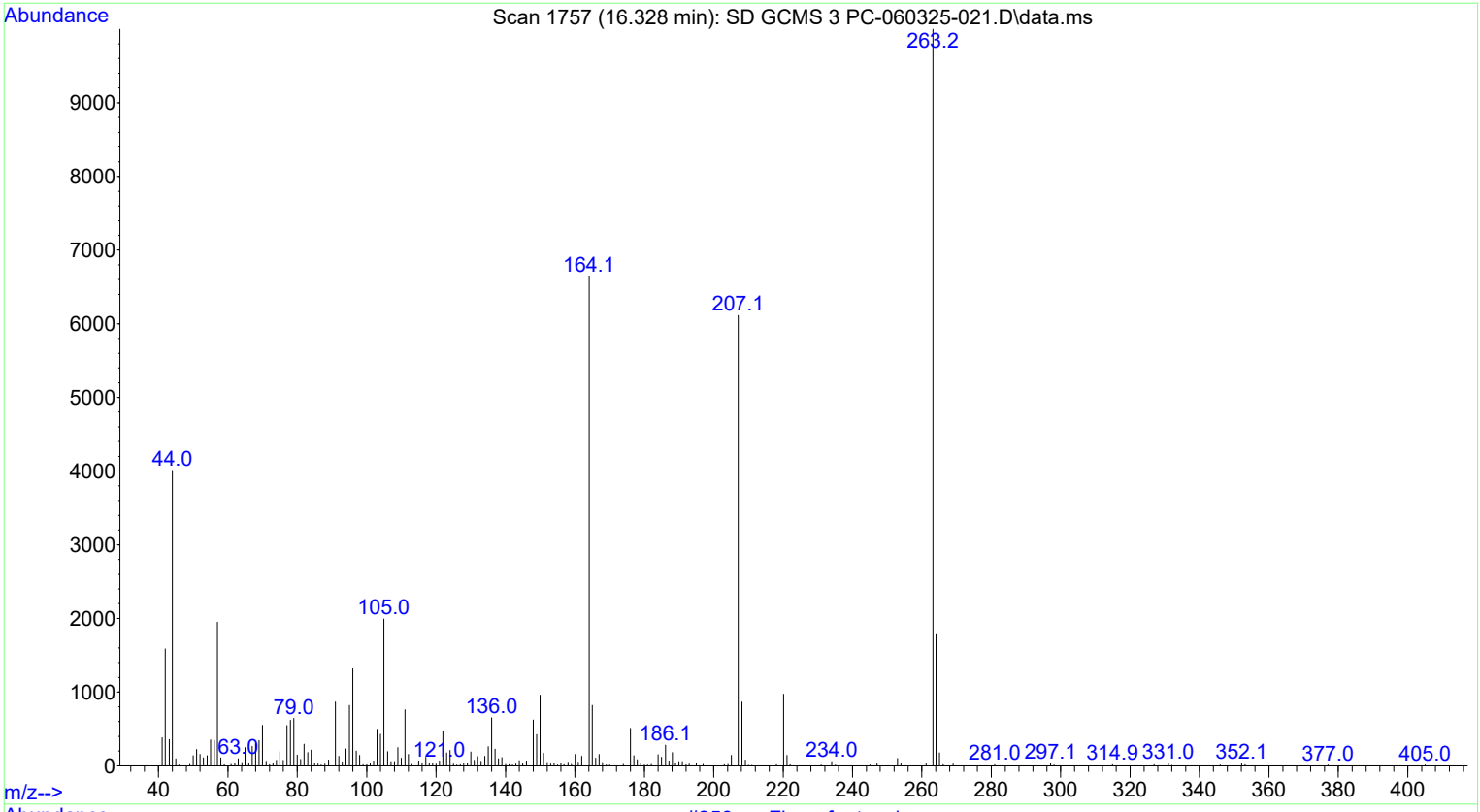


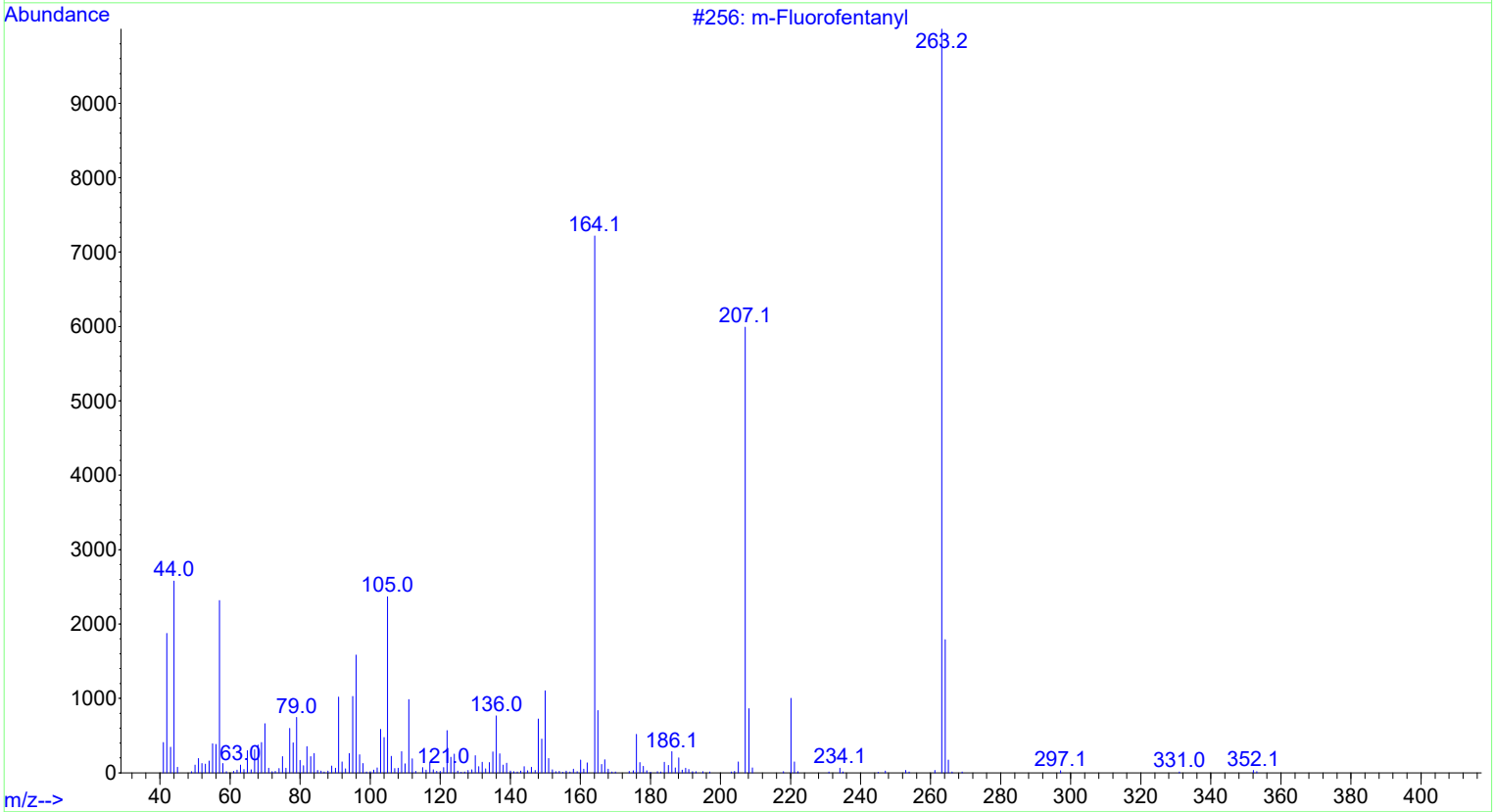


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Acquired : 03 Jun 2025 23:14 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: m-fluorofentanyl Std (R-24-039) 000002062
Misc Info : 000002062
Vial Number: 22

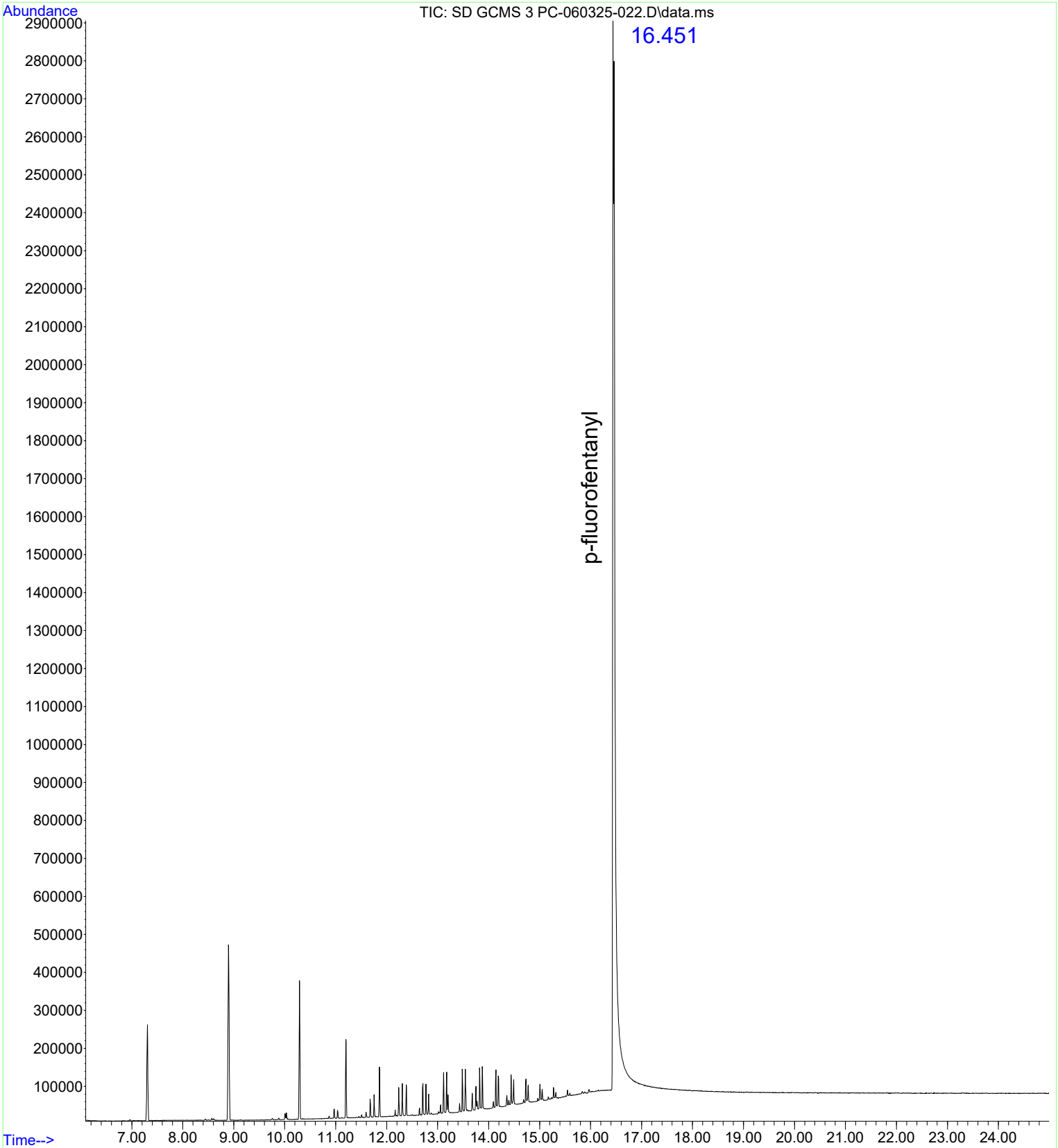


File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verif
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Acquired : 03 Jun 2025 23:14 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: m-fluorofentanyl Std (R-24-039) 000002062
Misc Info : 000002062
Vial Number: 22

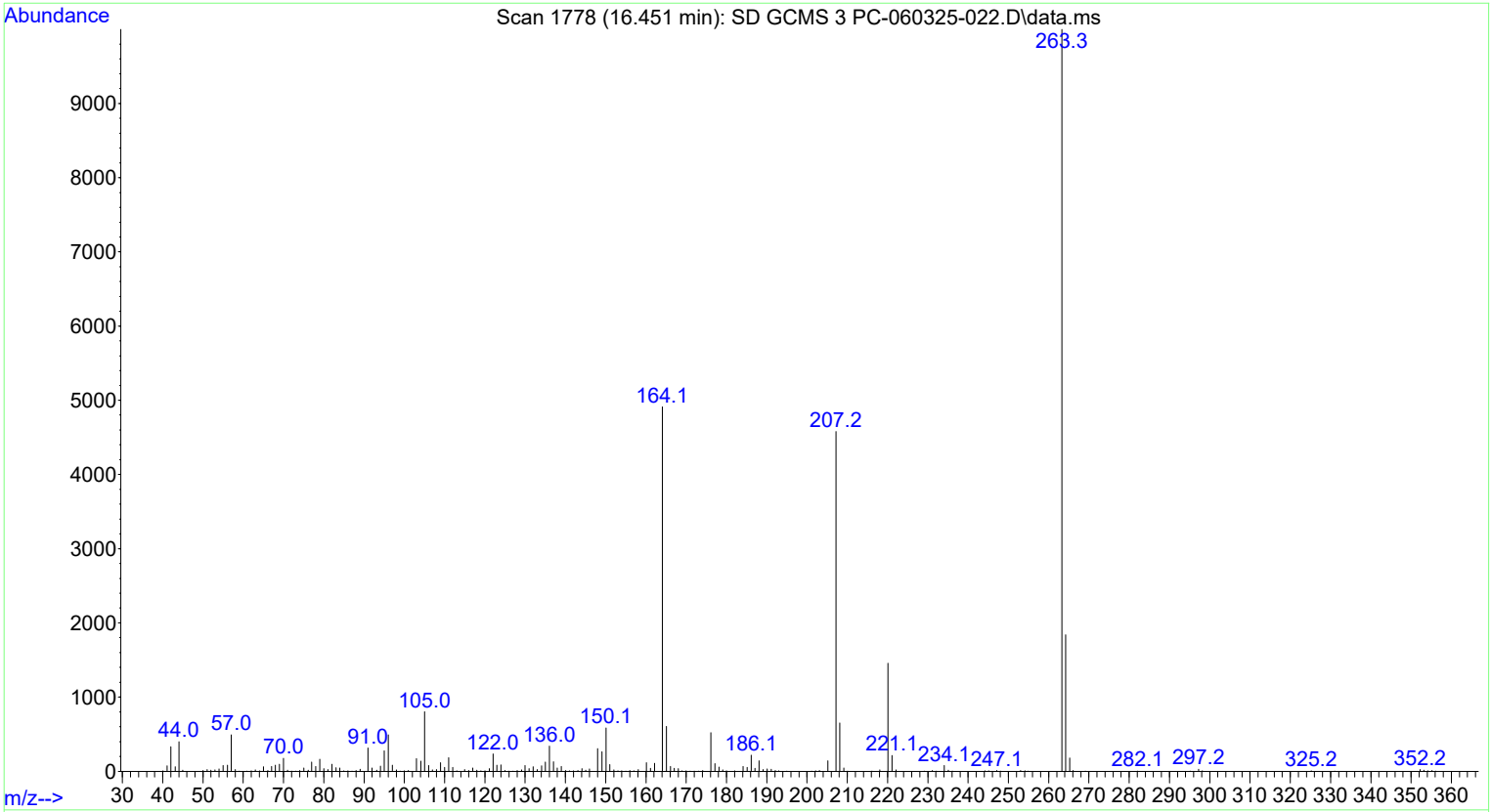


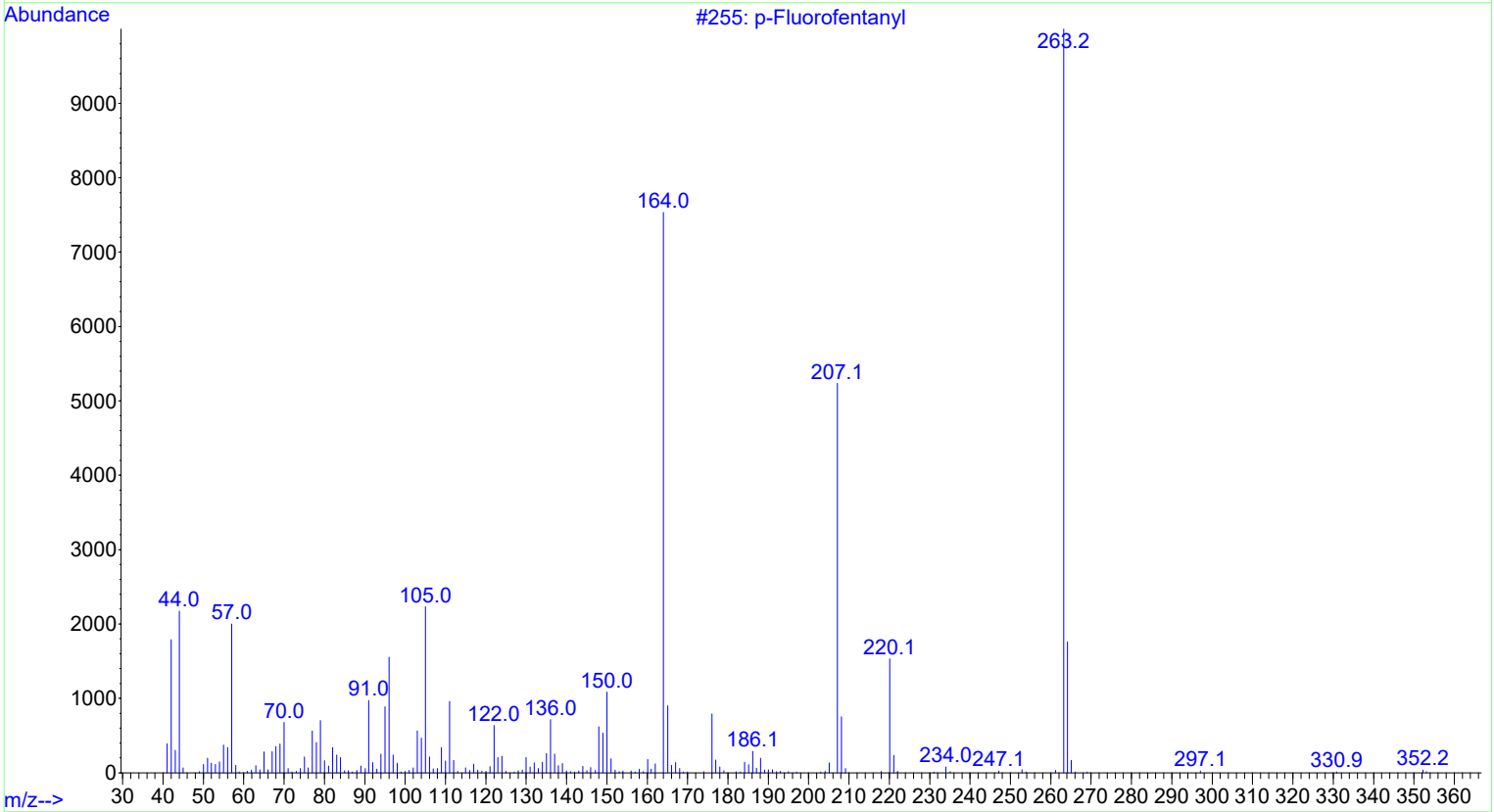


File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verif
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Acquired : 03 Jun 2025 23:43 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: p-fluorfentanyl Std (S-22-063) 000002250
Misc Info : 000002250
Vial Number: 23

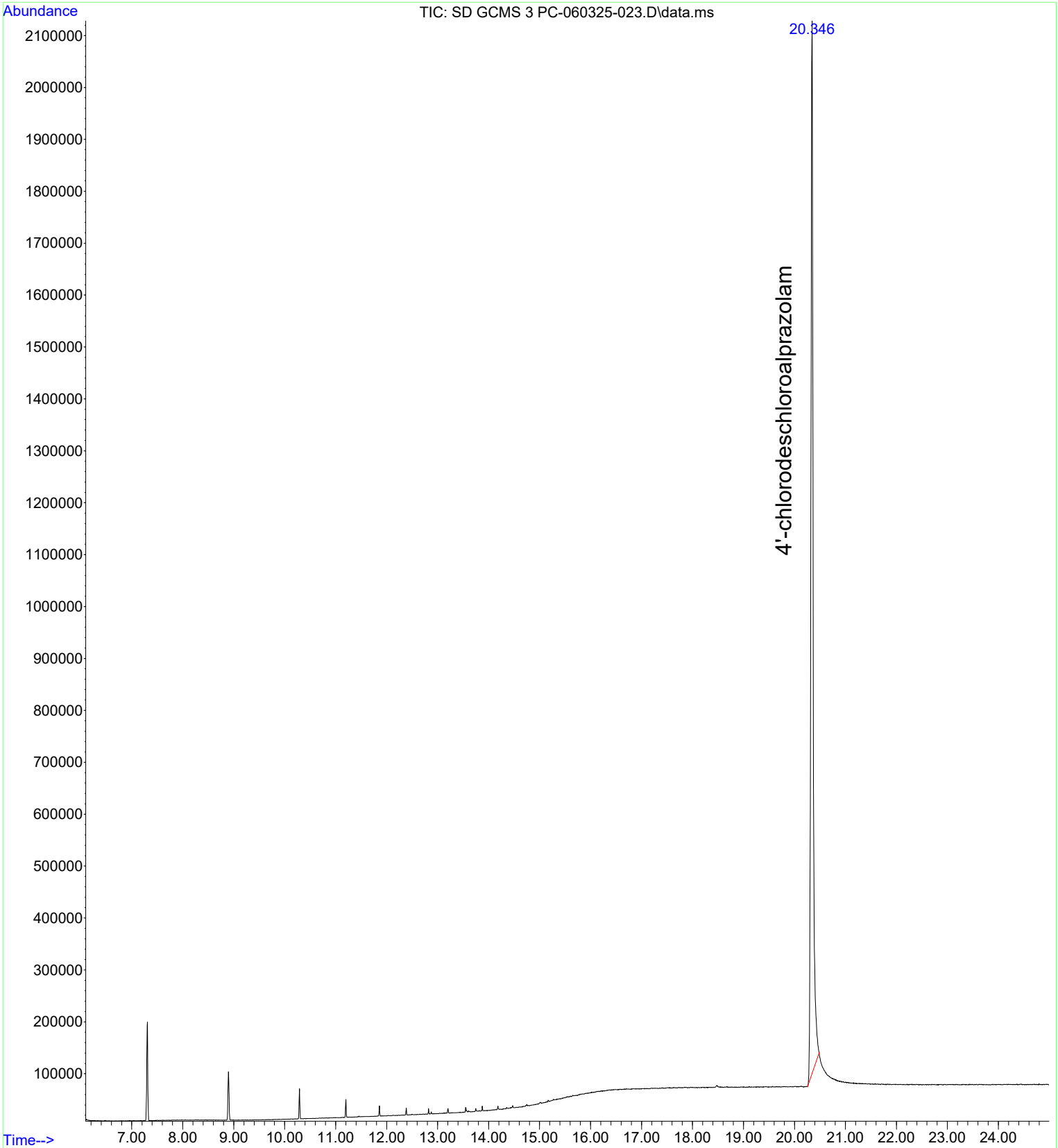


File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verif
... ication\060325\SD GCMS 3 PC-060325-022.D
Acquired : 03 Jun 2025 23:43 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: p-fluorfentanyl Std (S-22-063) 000002250
Misc Info : 000002250
Vial Number: 23

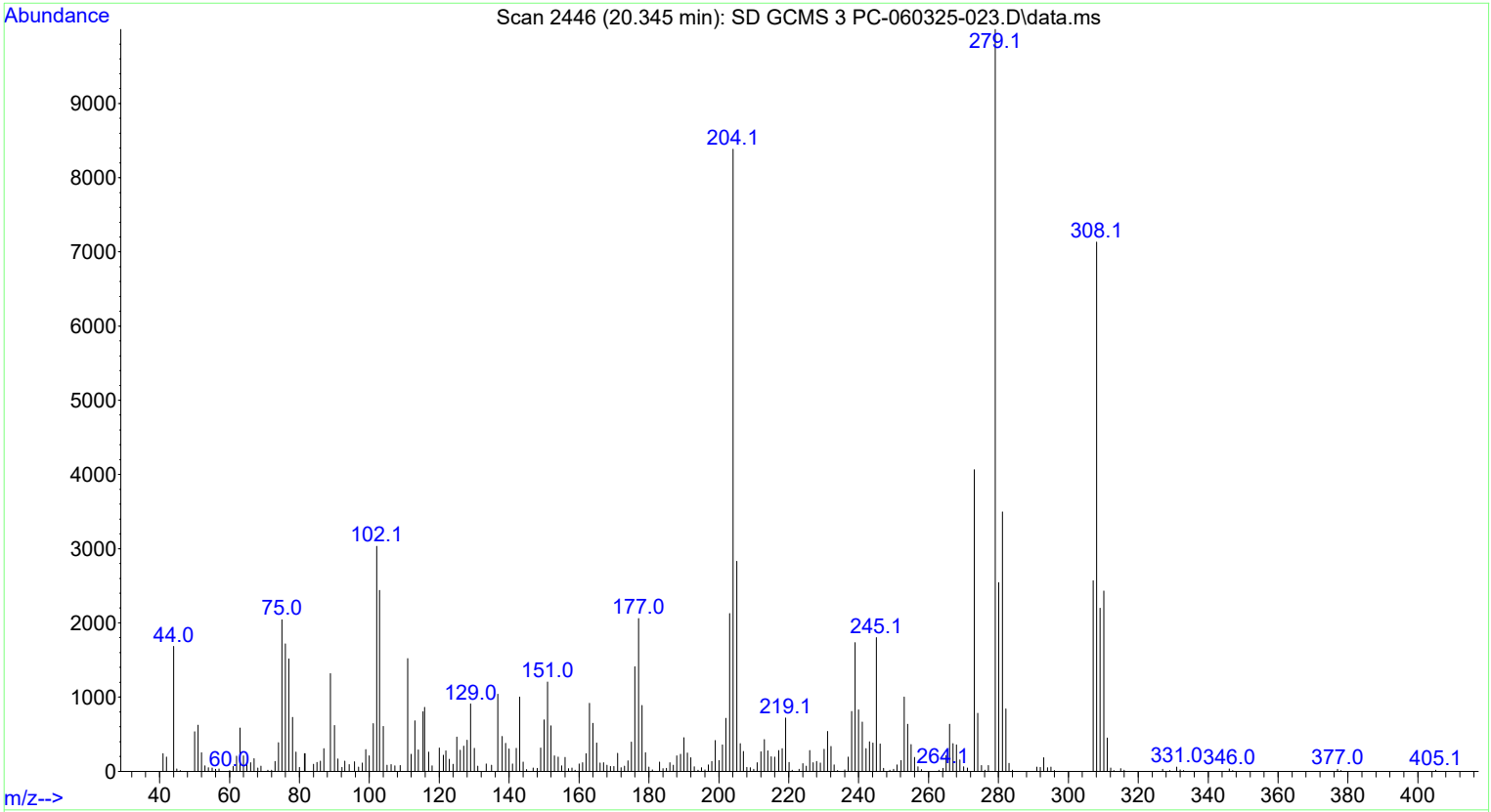


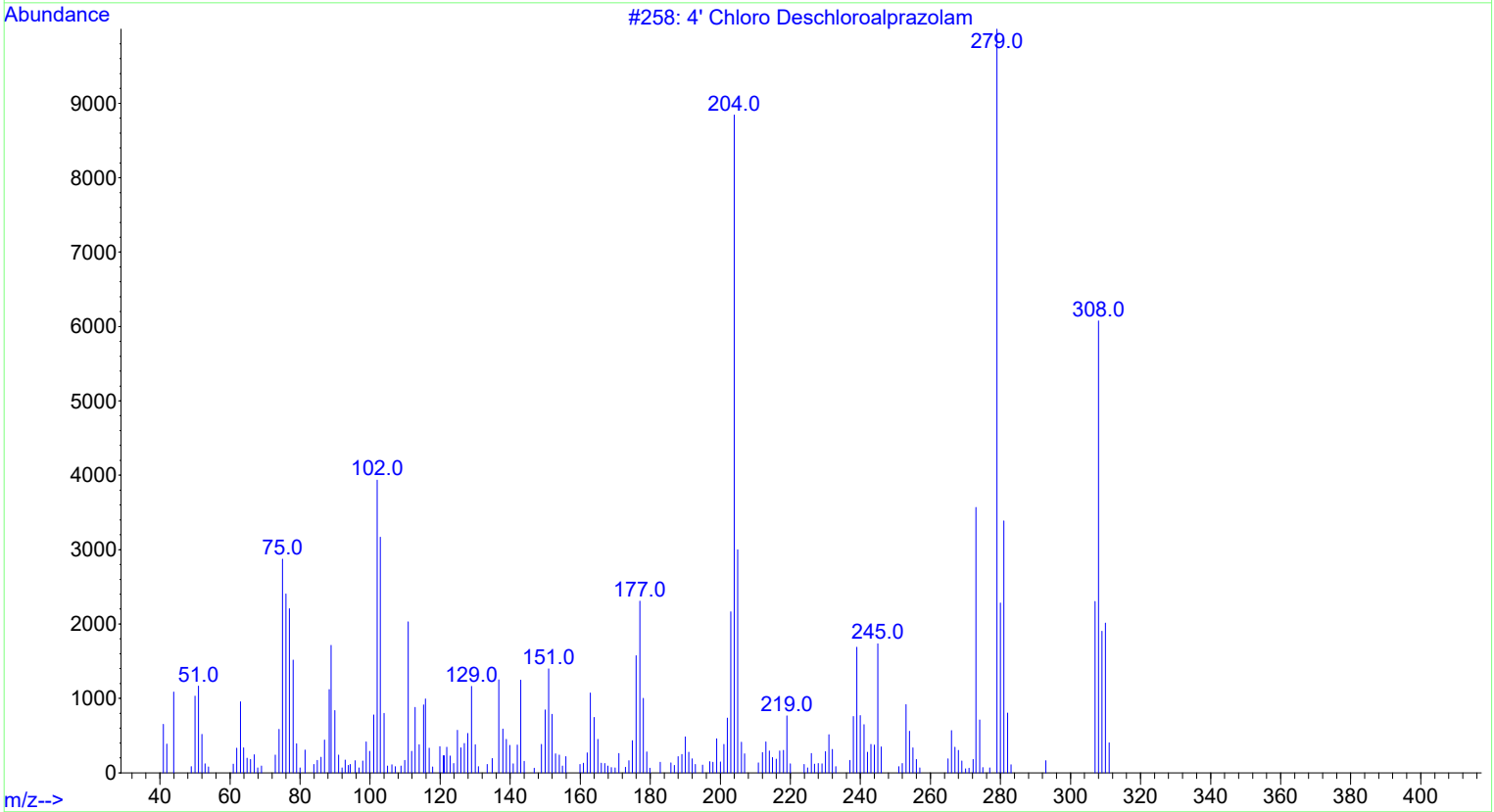


File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verif
... ication\060325\SD GCMS 3 PC-060325-023.D
Acquired : 04 Jun 2025 00:12 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: 4'chlorodeschloroalprazolam Std (R-22-055) 000002798
Misc Info : 000002798
Vial Number: 24

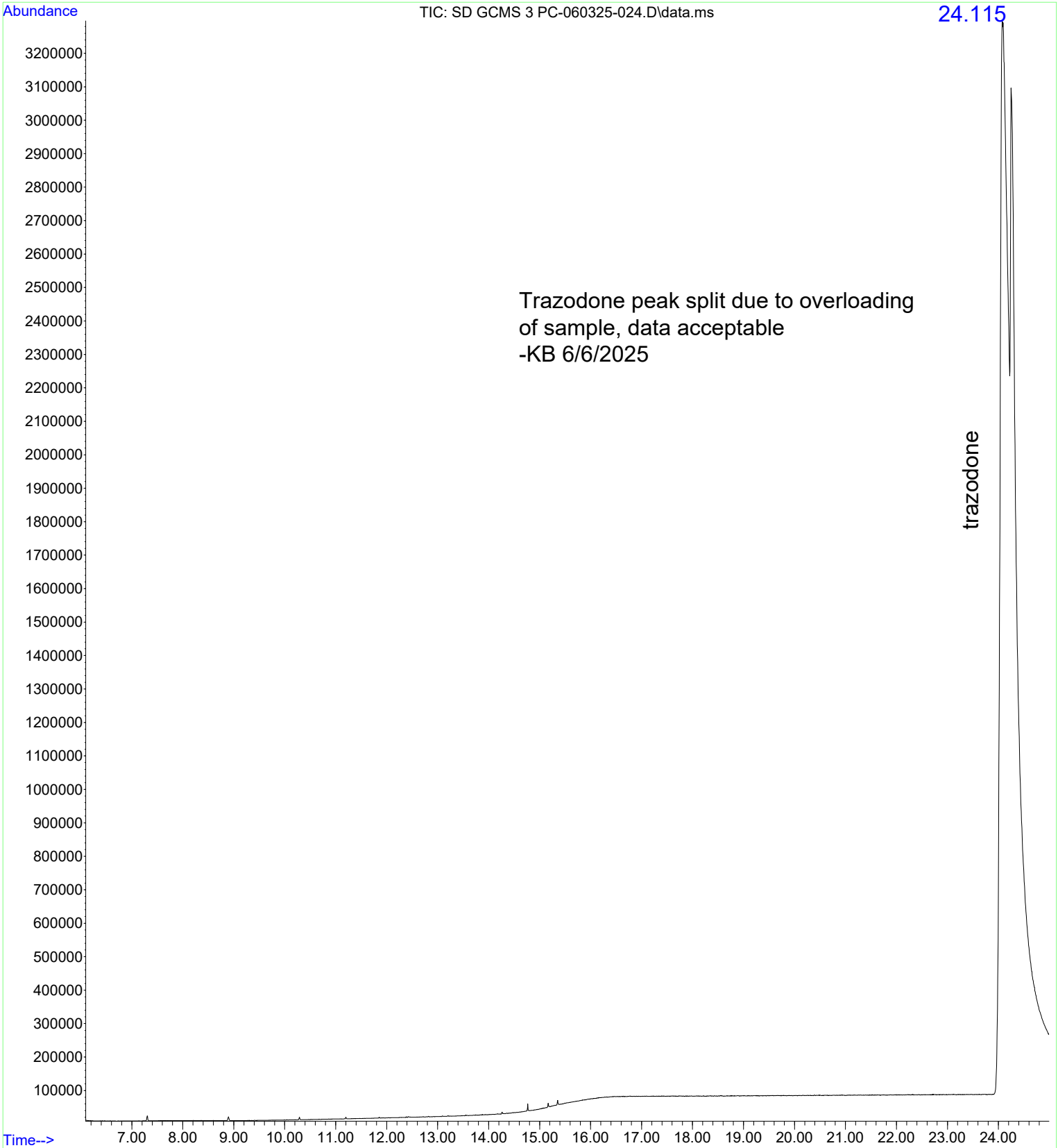


File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verif
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Acquired : 04 Jun 2025 00:12 using AcqMethod DrugTest35MS.M
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Misc Info : 000002798
Vial Number: 24

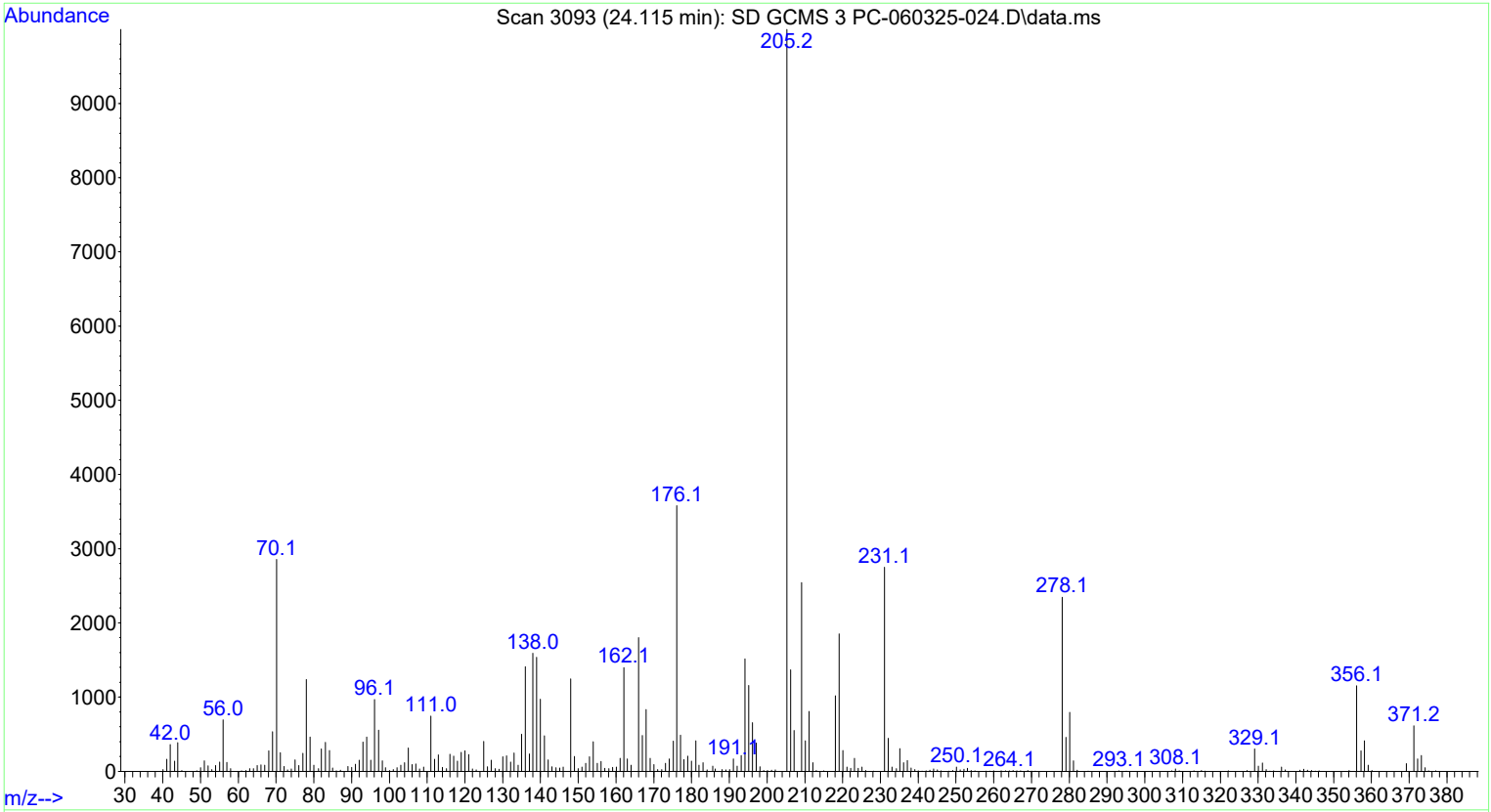


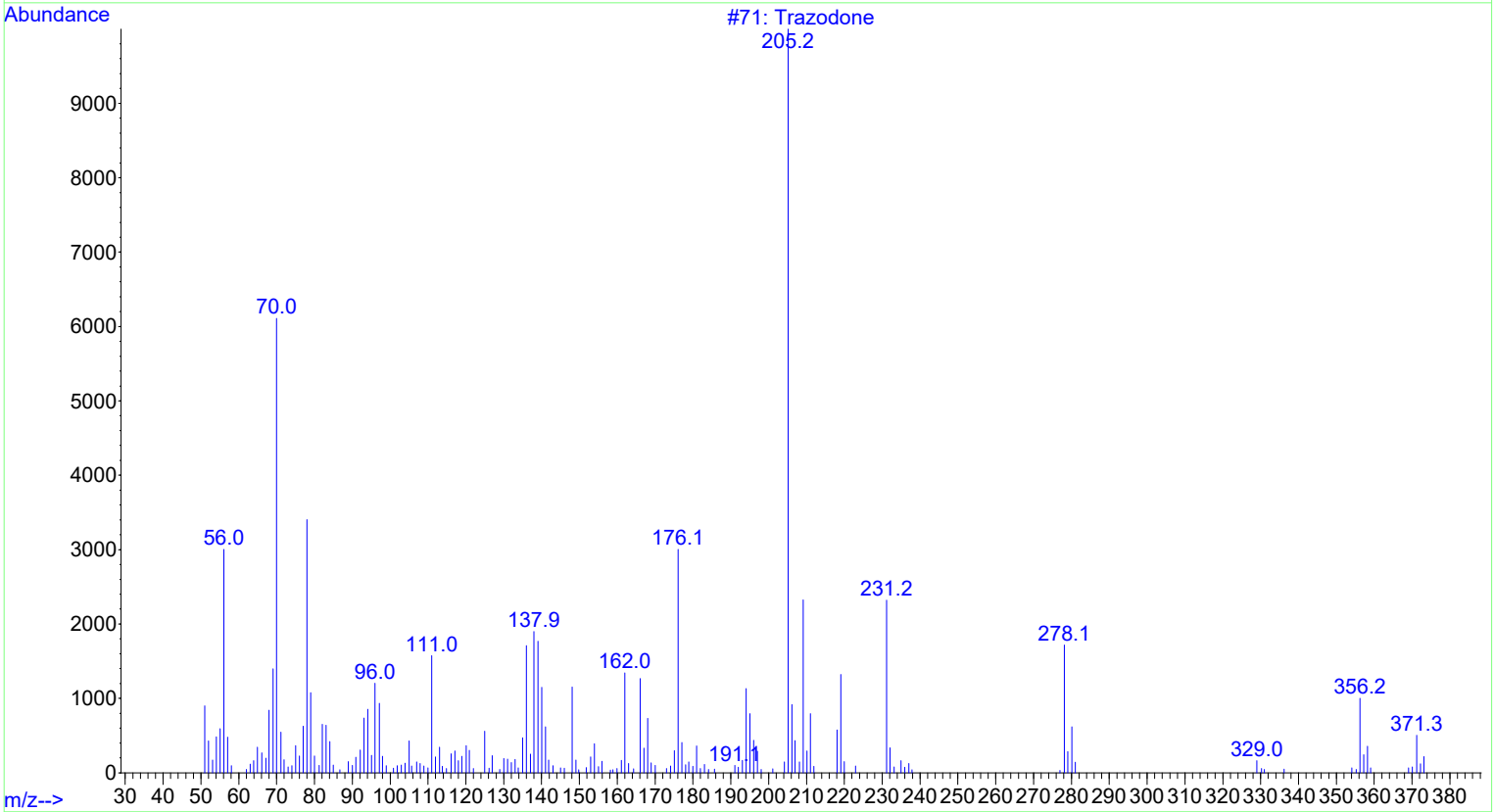


File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verif
... ication\060325\SD GCMS 3 PC-060325-024.D
Acquired : 04 Jun 2025 00:41 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Trazodone Std (R-24-012) 000002998
Misc Info : 000002998
Vial Number: 25

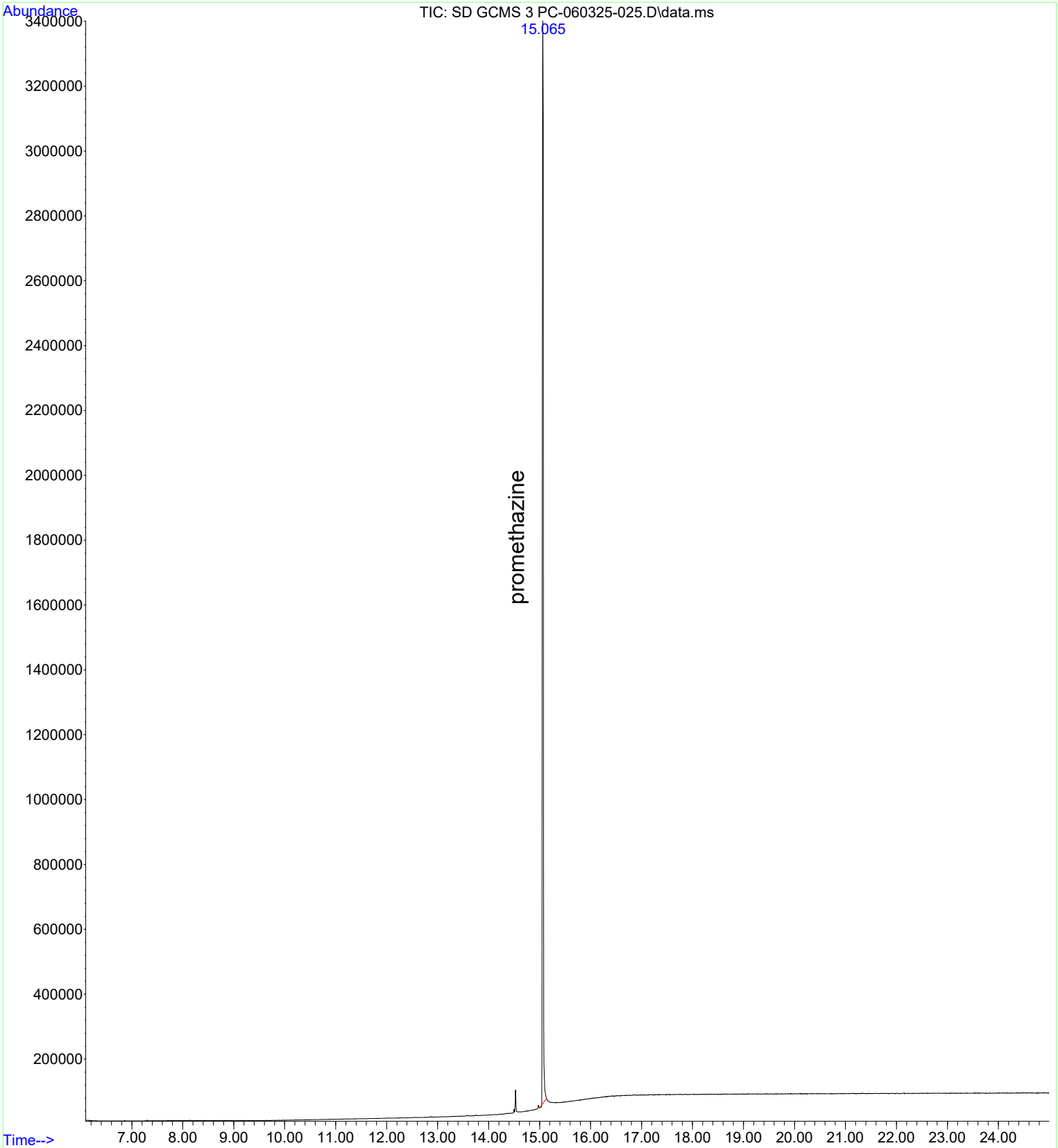


File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verif
... ication\060325\SD GCMS 3 PC-060325-024.D
Acquired : 04 Jun 2025 00:41 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Trazodone Std (R-24-012) 000002998
Misc Info : 000002998
Vial Number: 25

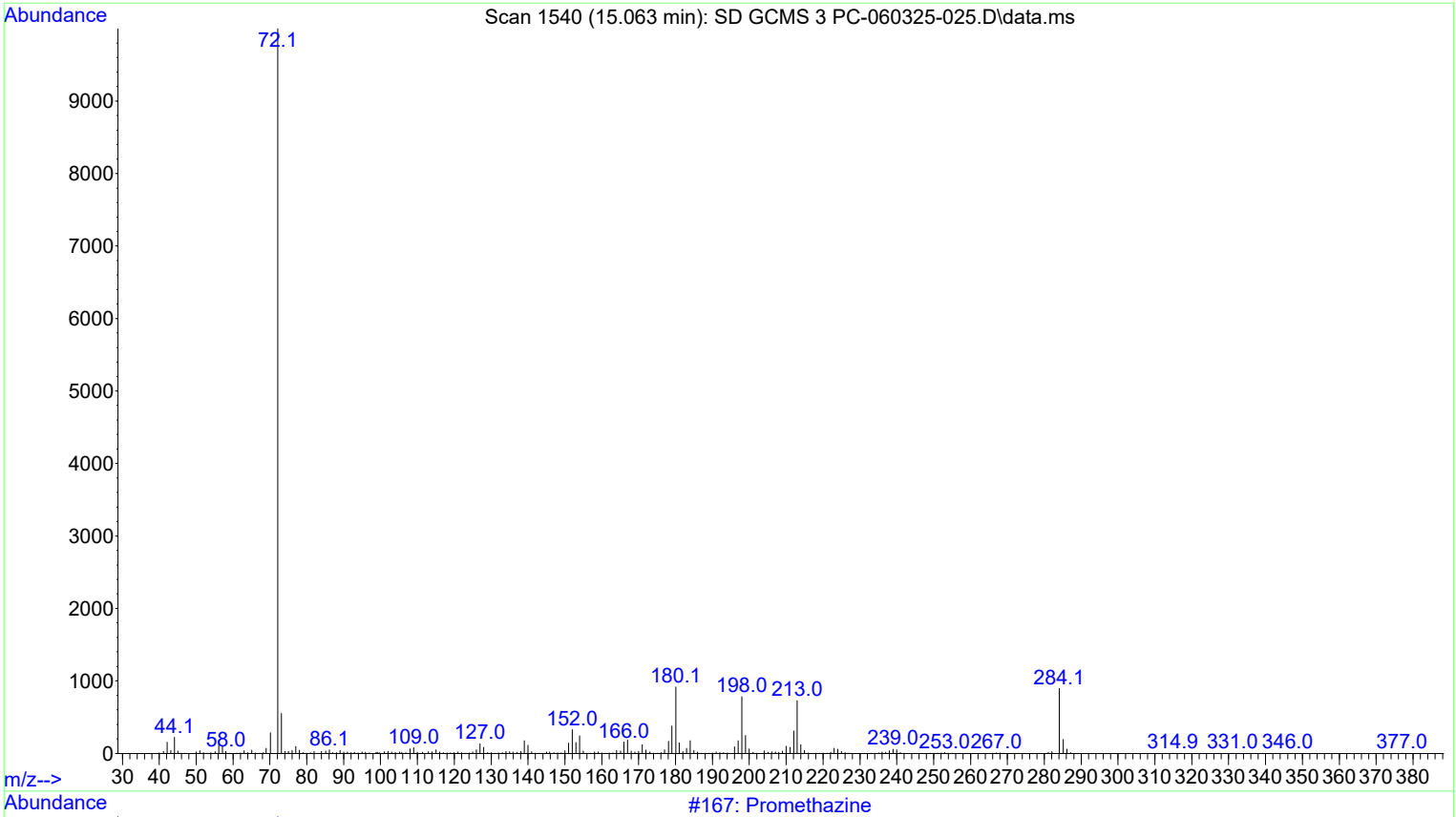


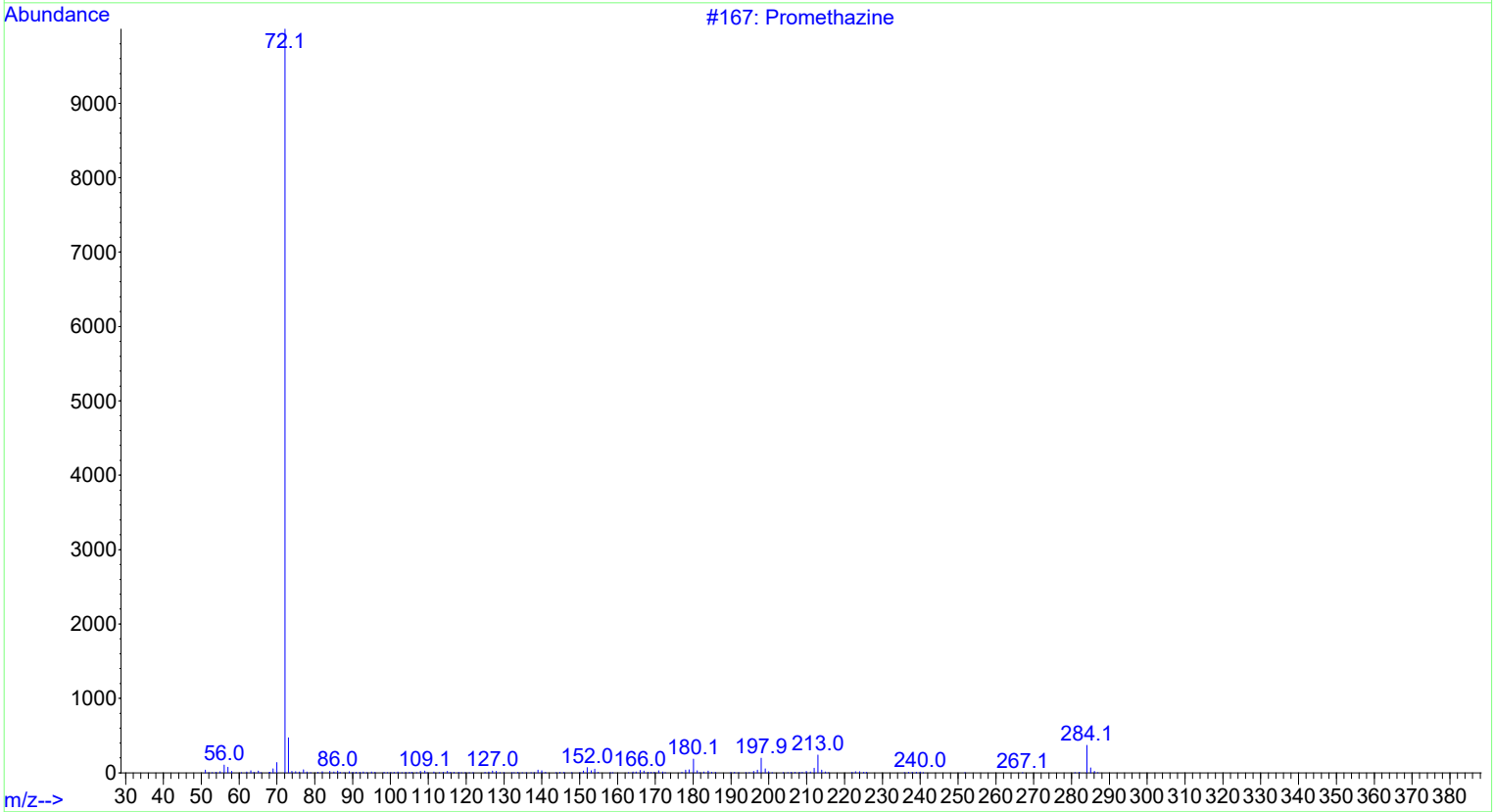


File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verif
... ication\060325\SD GCMS 3 PC-060325-025.D
Acquired : 04 Jun 2025 01:38 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Promethazine Std (R-24-022) 000002997
Misc Info : 000002997
Vial Number: 26

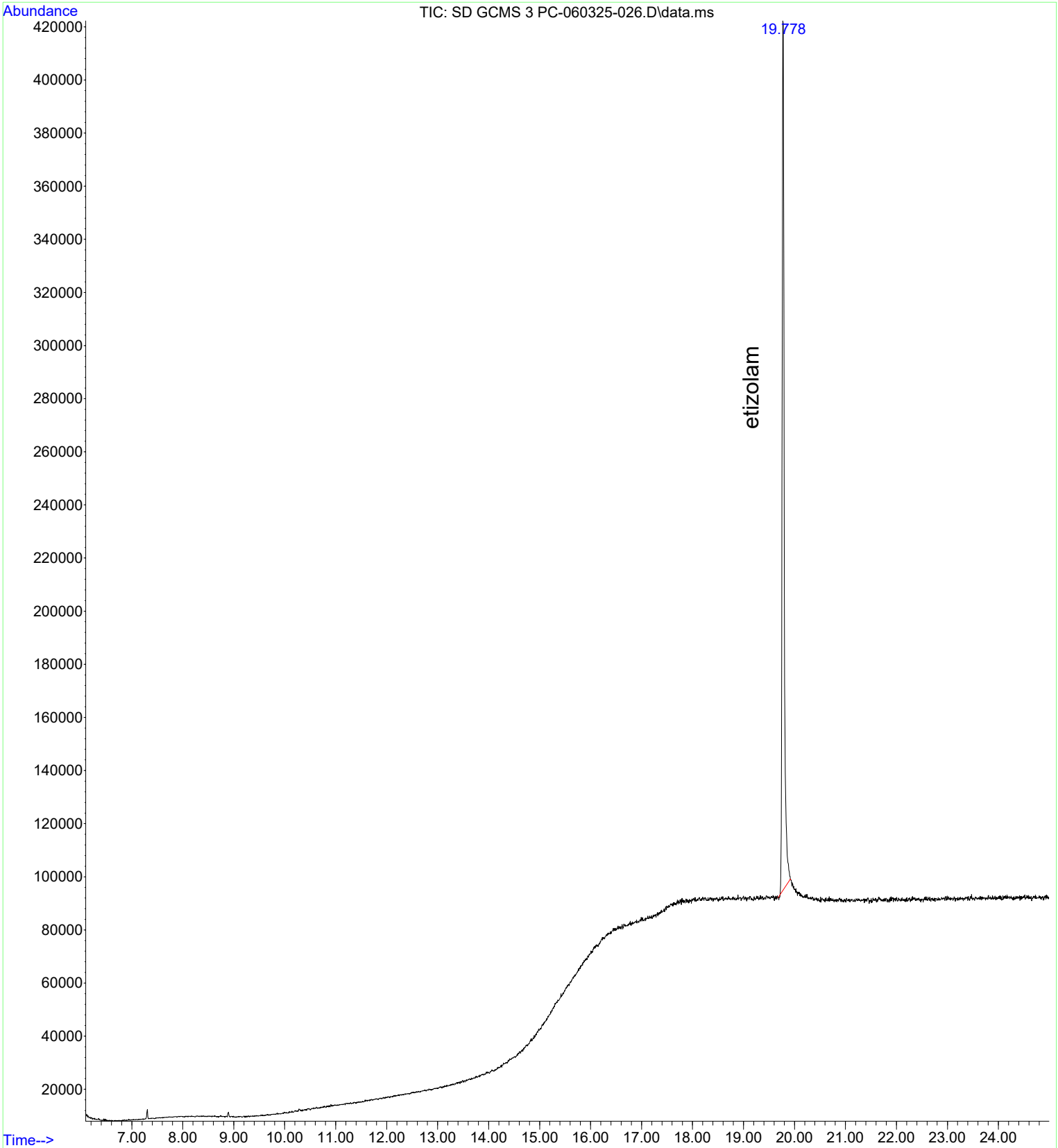


File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verif
... ication\060325\SD GCMS 3 PC-060325-025.D
Acquired : 04 Jun 2025 01:38 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Promethazine Std (R-24-022) 000002997
Misc Info : 000002997
Vial Number: 26

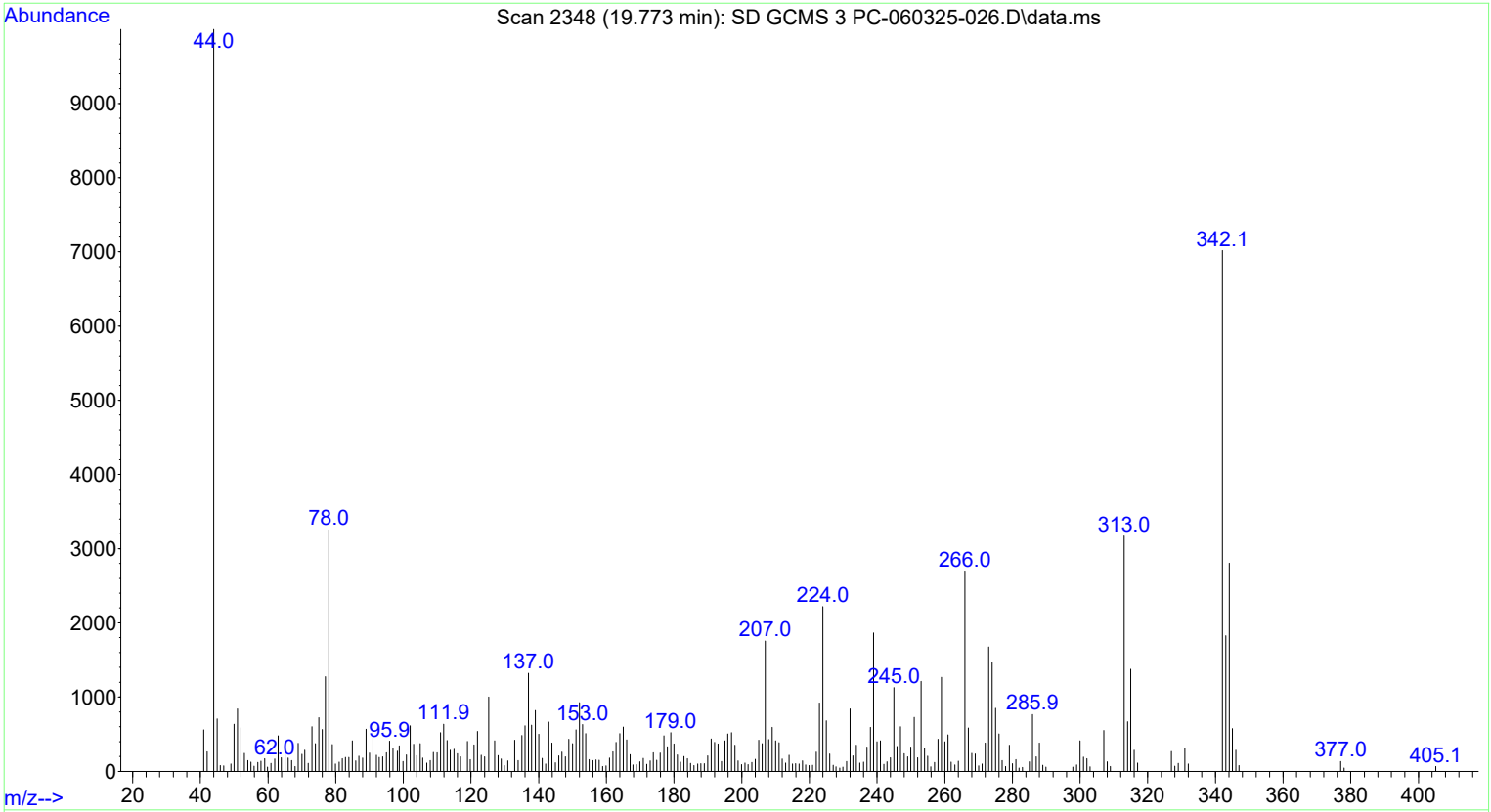


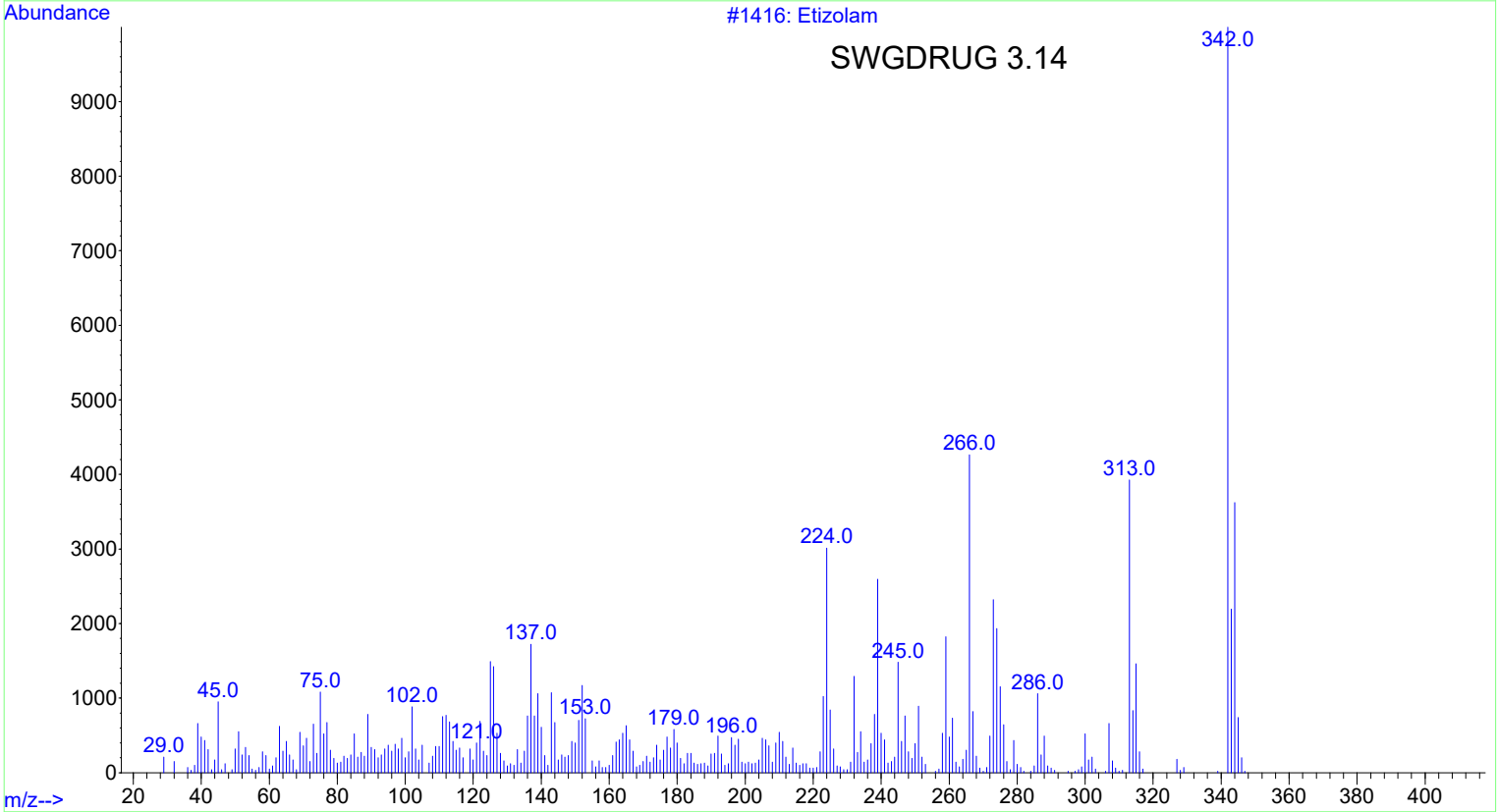


File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verif
... ication\060325\SD GCMS 3 PC-060325-026.D
Acquired : 04 Jun 2025 02:07 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Etizolam Std (R-24-029) 000002988
Misc Info : 000002988
Vial Number: 27

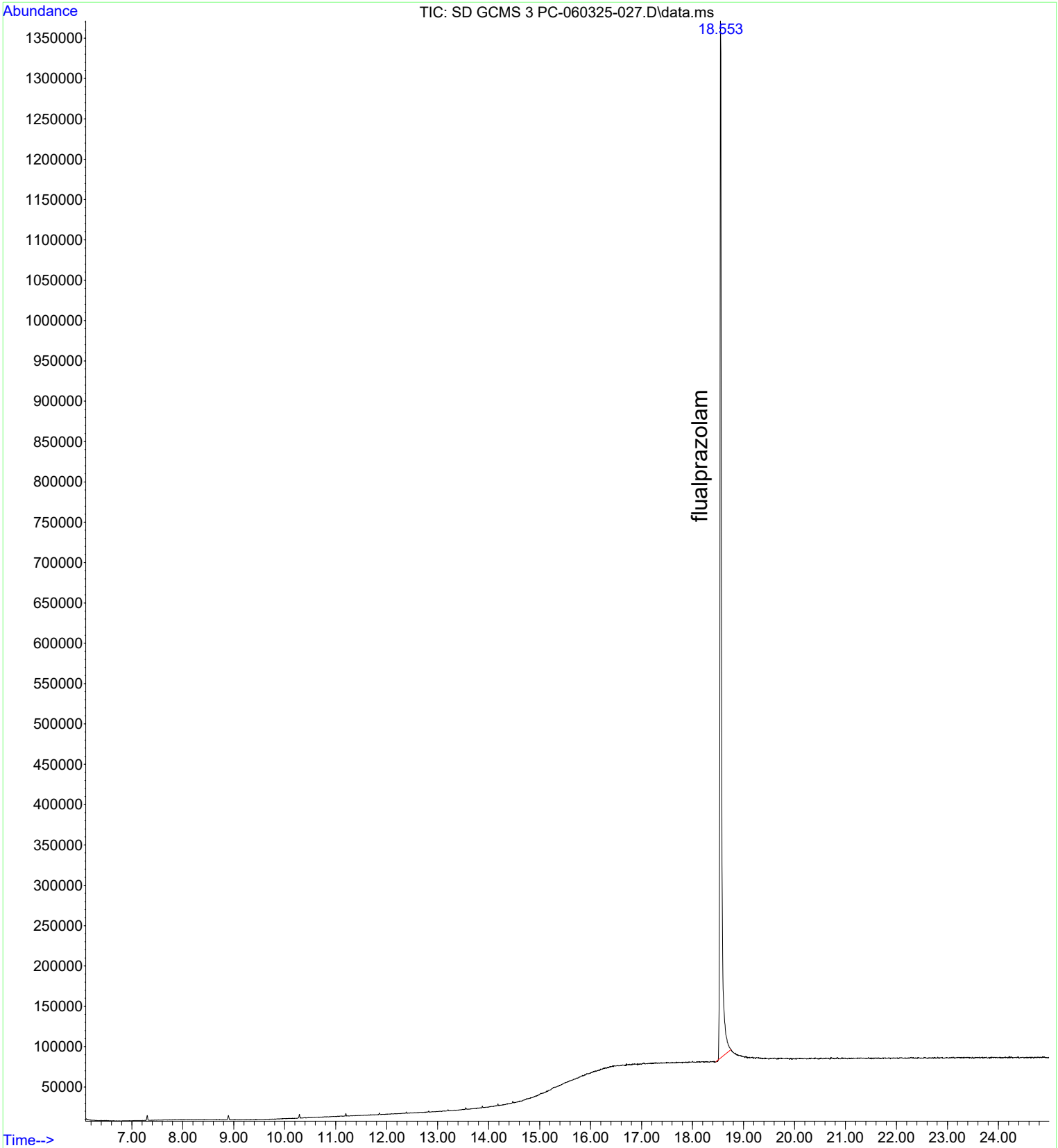


File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verif
... ication\060325\SD GCMS 3 PC-060325-026.D
Acquired : 04 Jun 2025 02:07 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Etizolam Std (R-24-029) 000002988
Misc Info : 000002988
Vial Number: 27

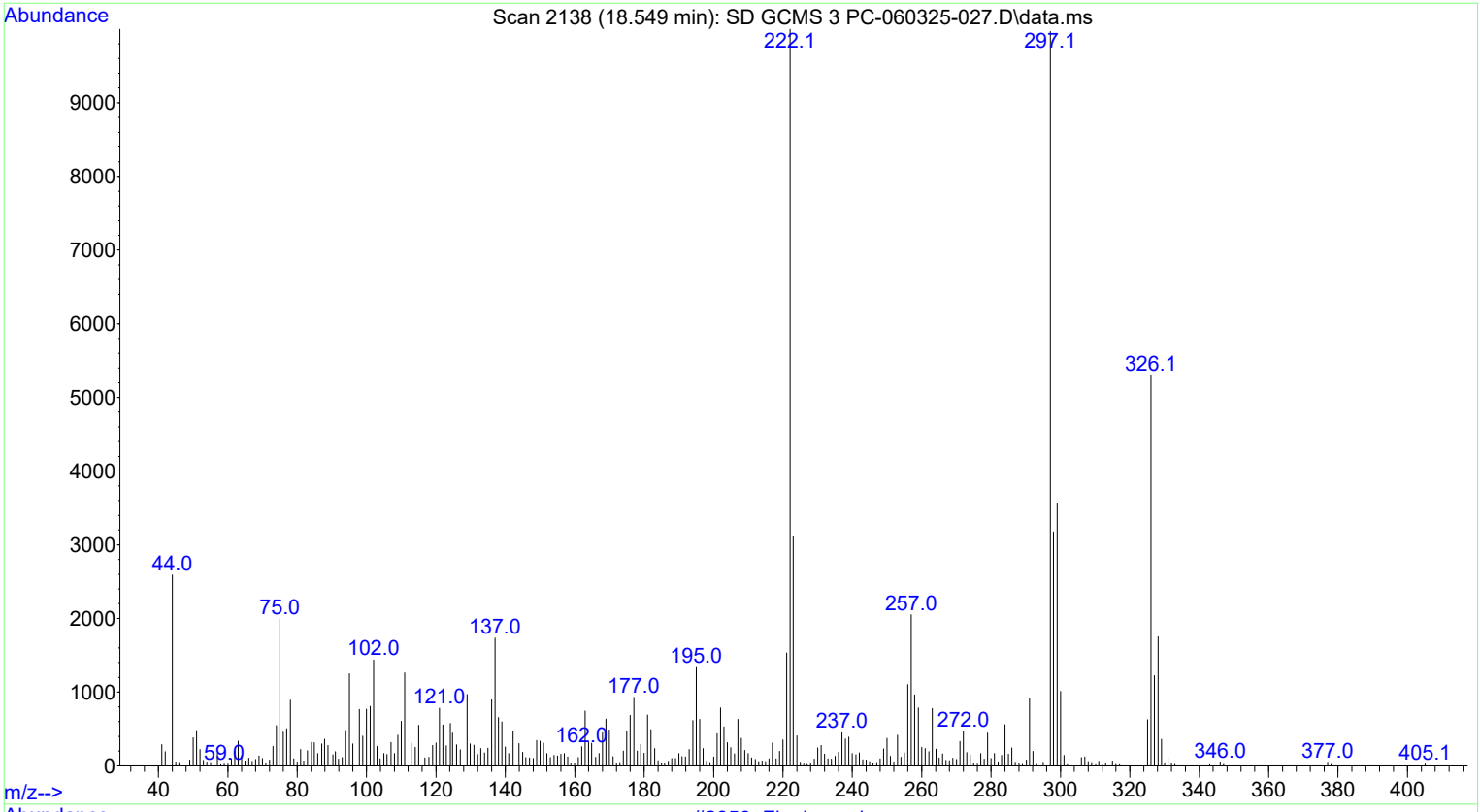


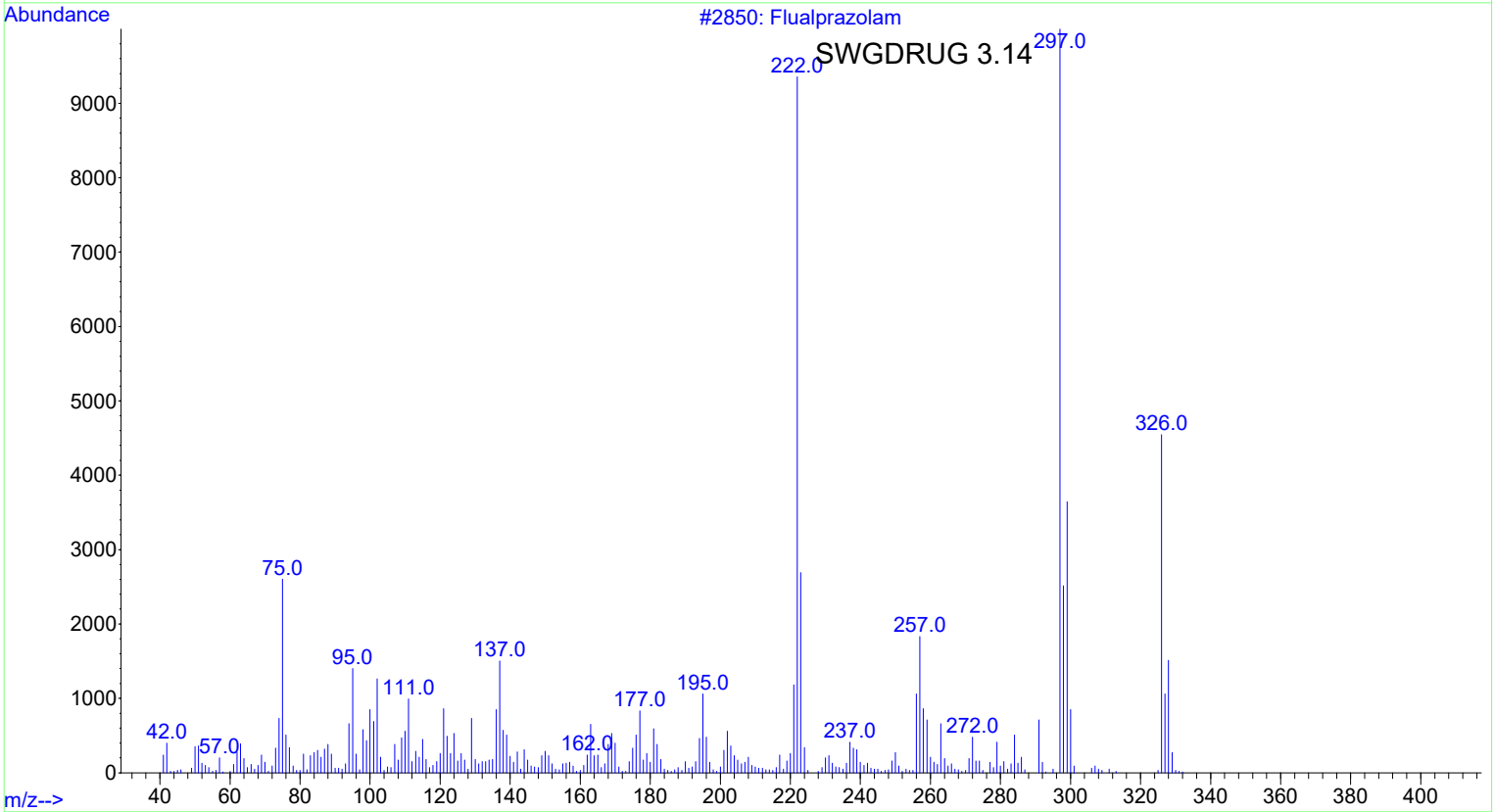


File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verif
... ication\060325\SD GCMS 3 PC-060325-027.D
Acquired : 04 Jun 2025 02:36 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Flualprazolam Std (R-24-047) 000002396
Misc Info : 000002396
Vial Number: 28

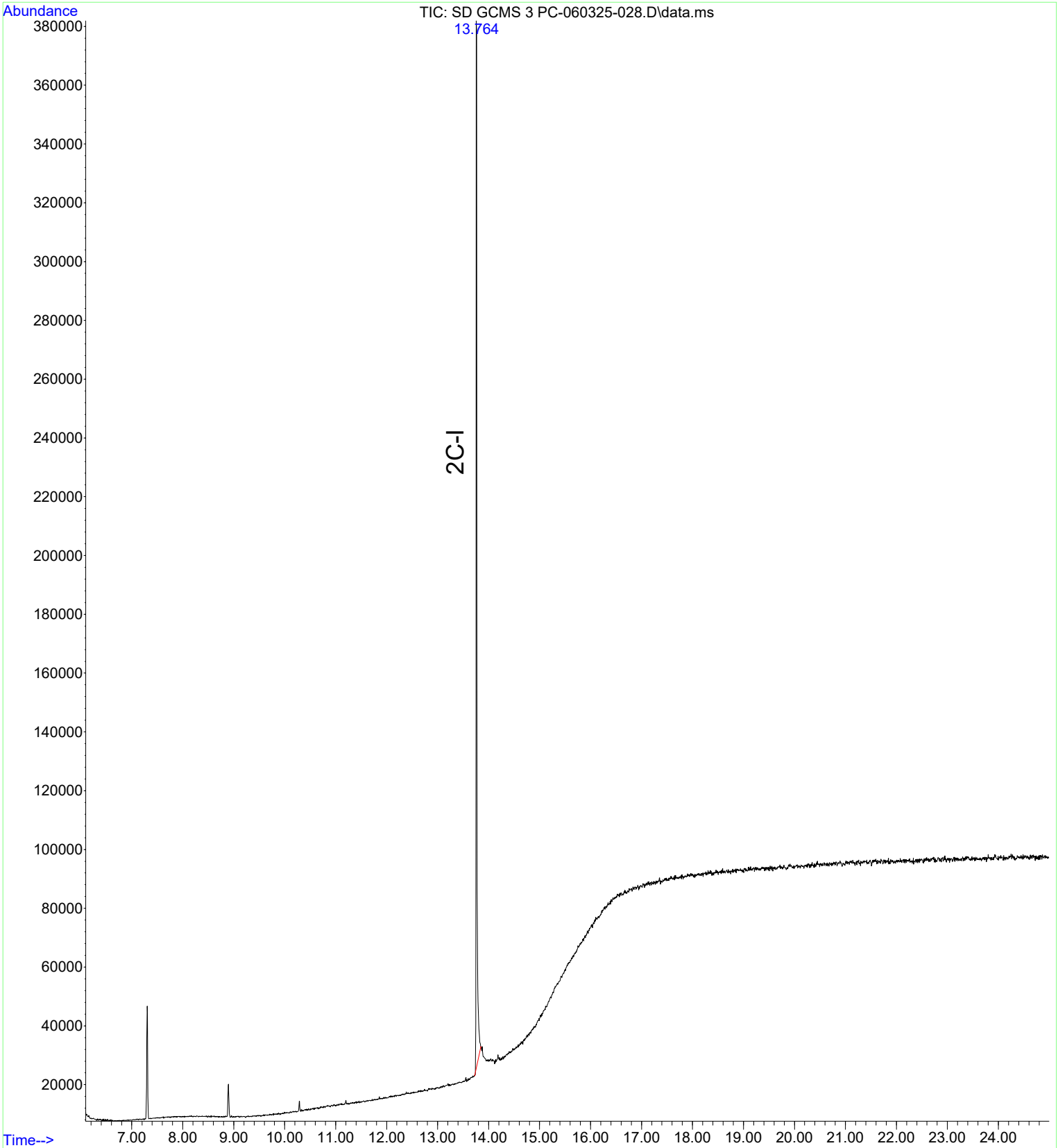


File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verif
... ication\060325\SD GCMS 3 PC-060325-027.D
Acquired : 04 Jun 2025 02:36 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Flualprazolam Std (R-24-047) 000002396
Misc Info : 000002396
Vial Number: 28

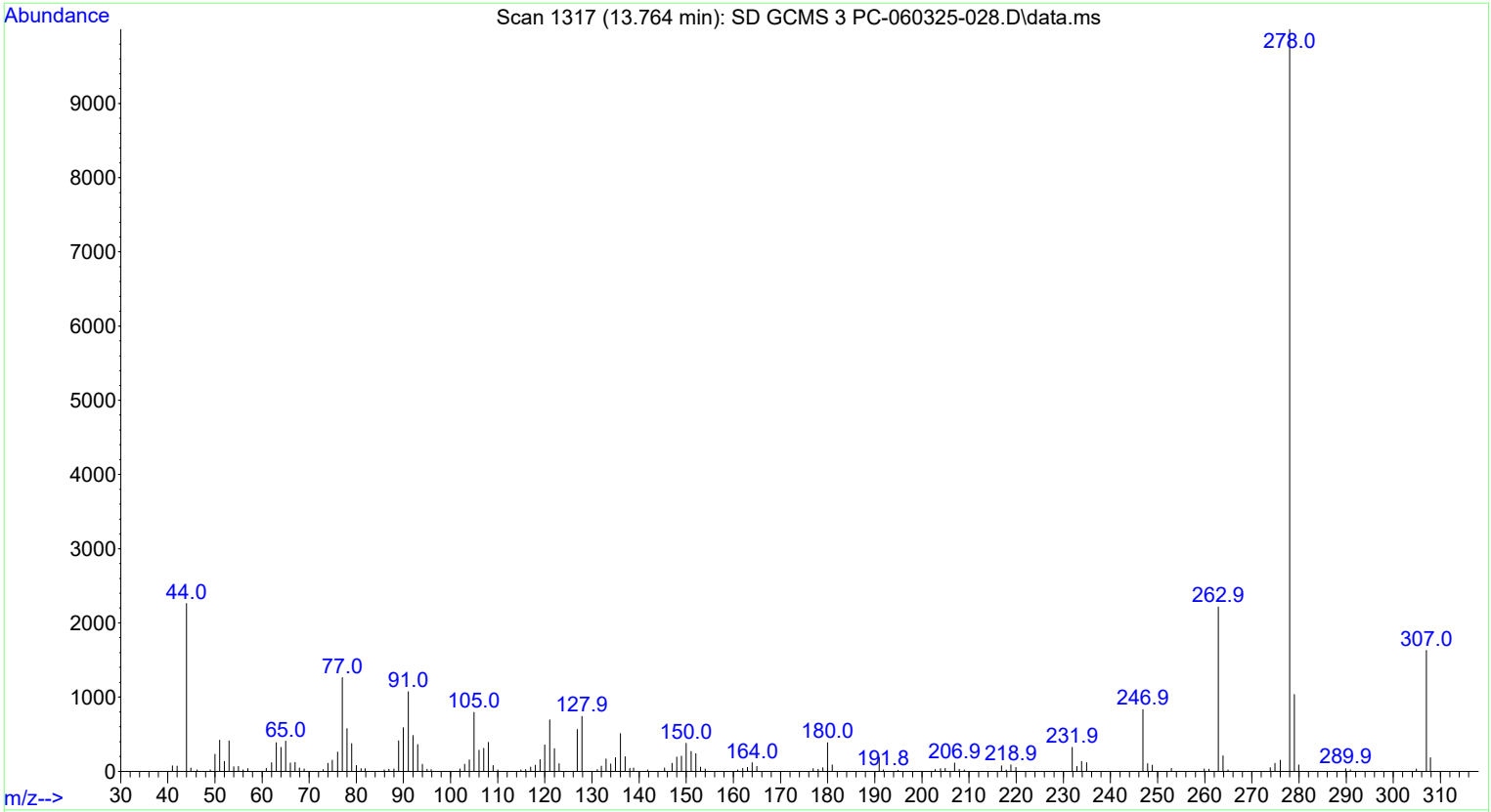


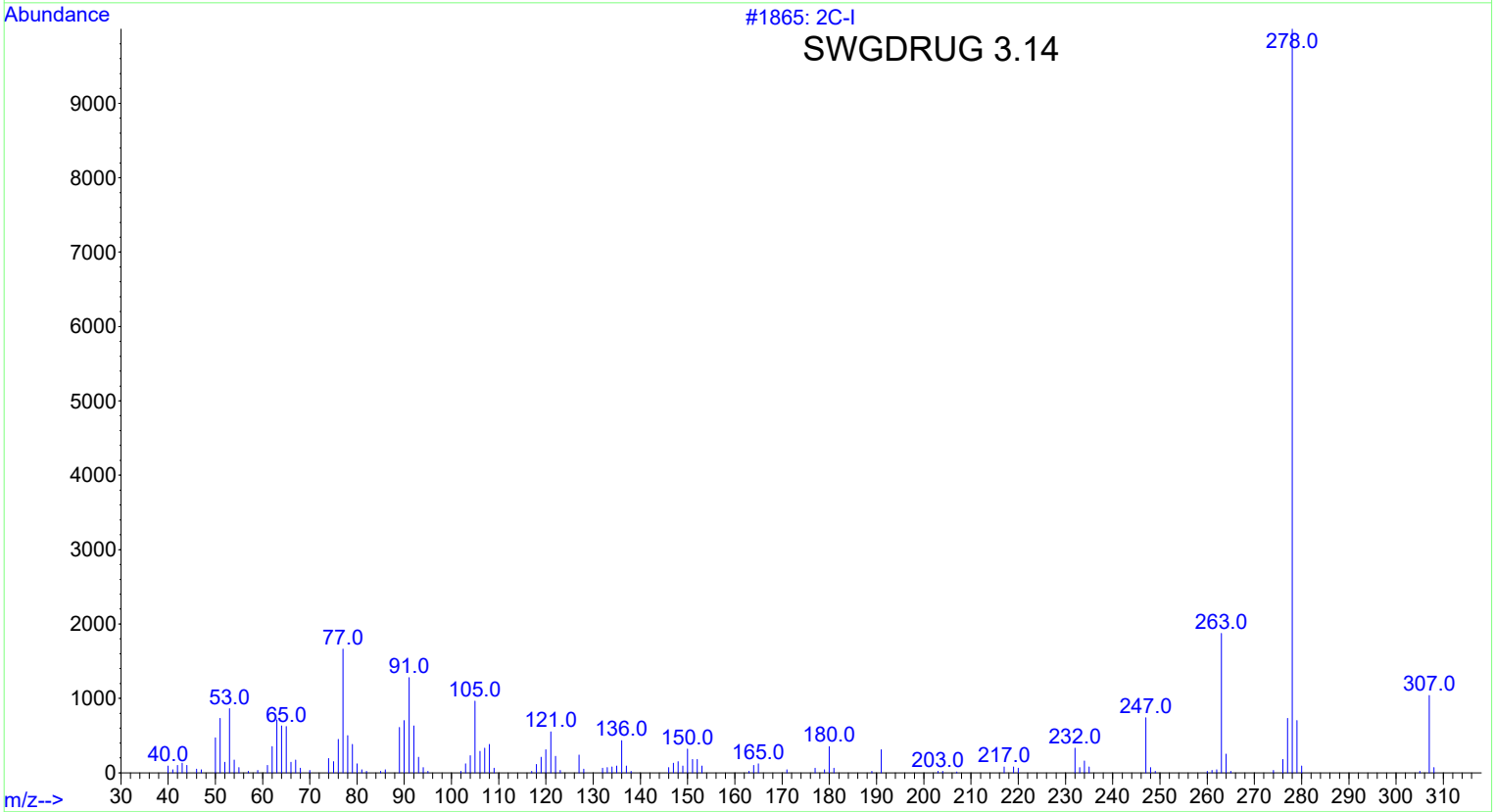


File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verif
... ication\060325\SD GCMS 3 PC-060325-028.D
Acquired : 04 Jun 2025 03:05 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: 2C-I (R-24-048) 000002397
Misc Info : 000002397
Vial Number: 29

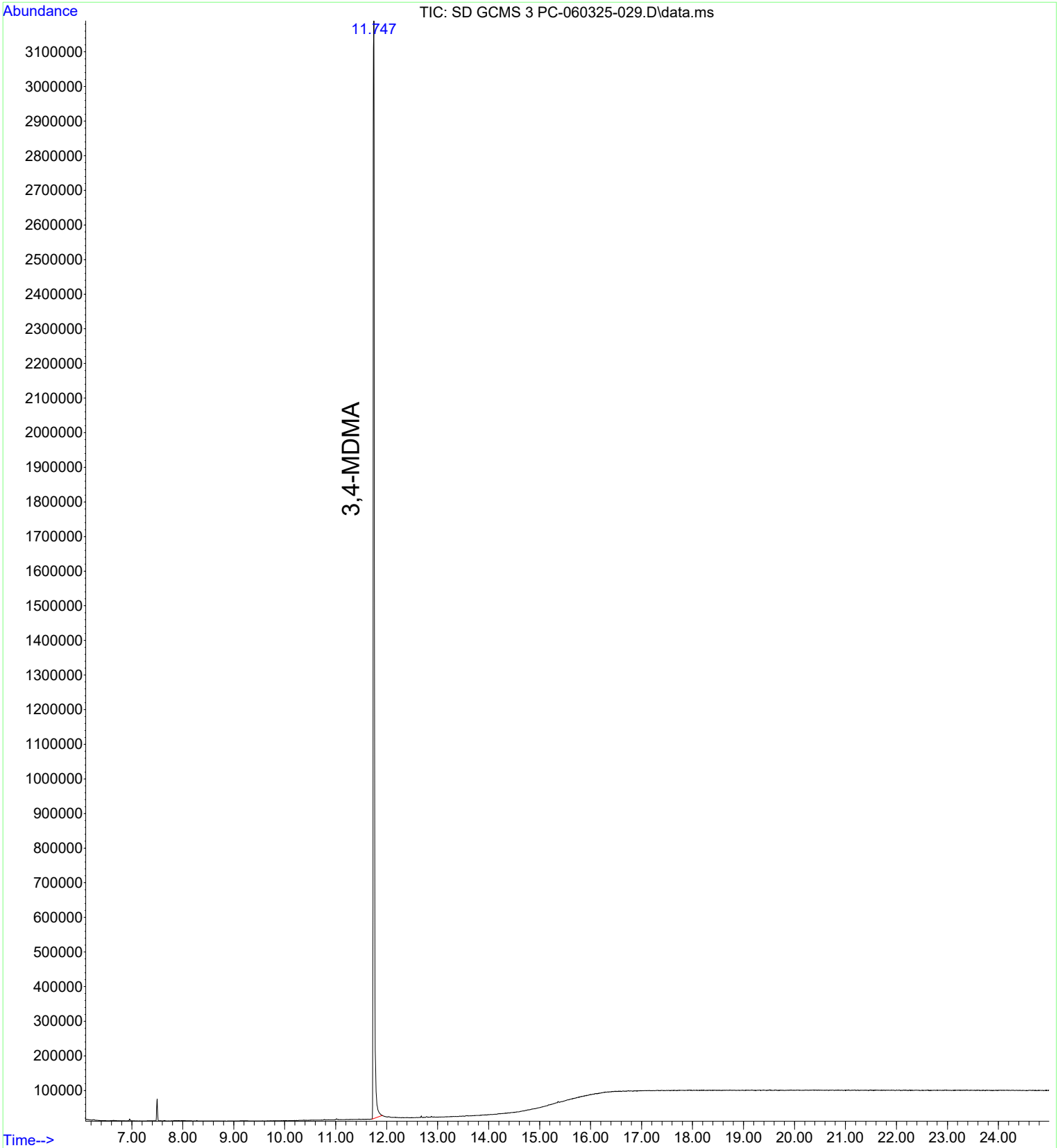


File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verif
... ication\060325\SD GCMS 3 PC-060325-028.D
Acquired : 04 Jun 2025 03:05 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: 2C-I (R-24-048) 000002397
Misc Info : 000002397
Vial Number: 29

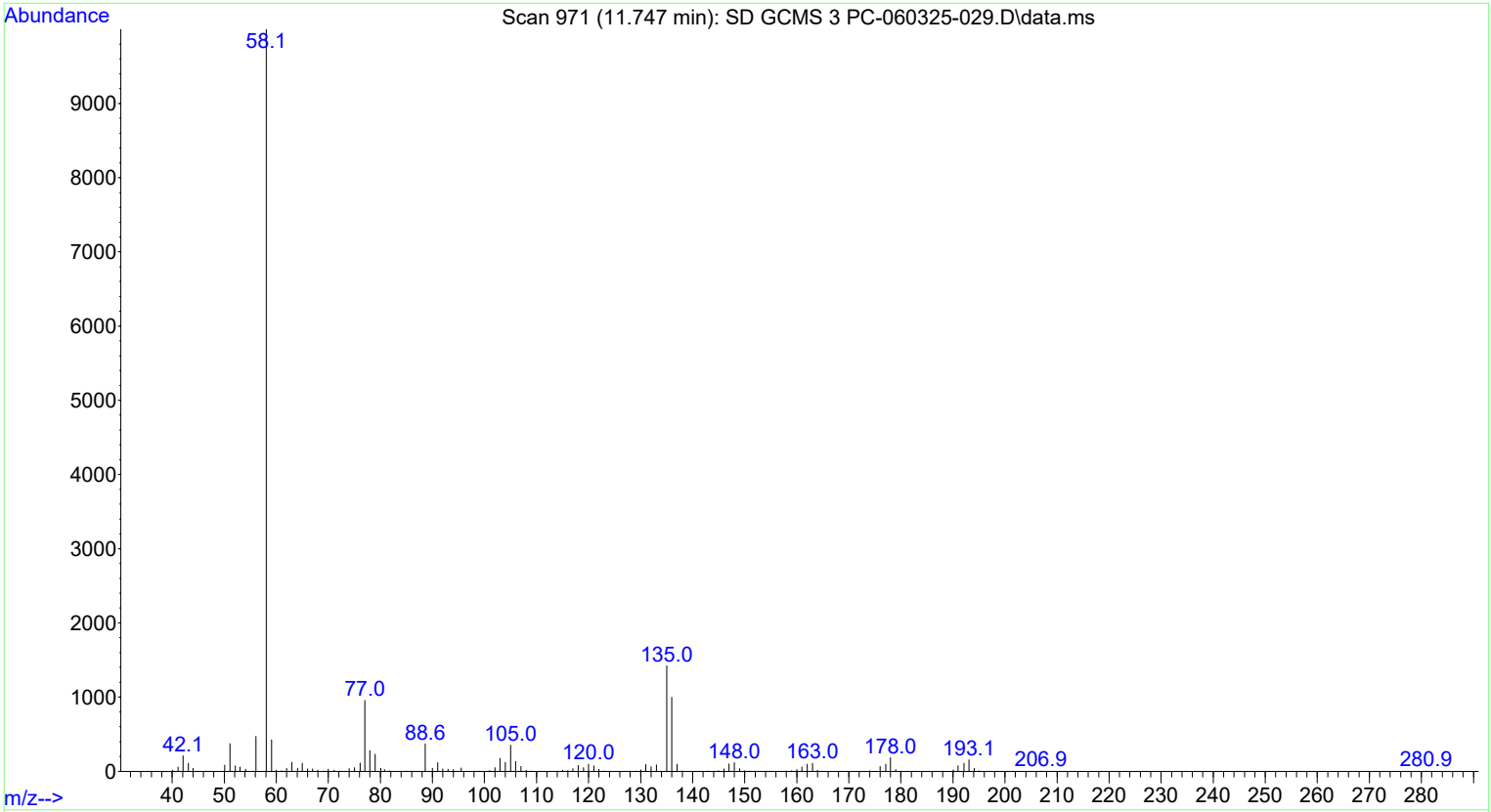


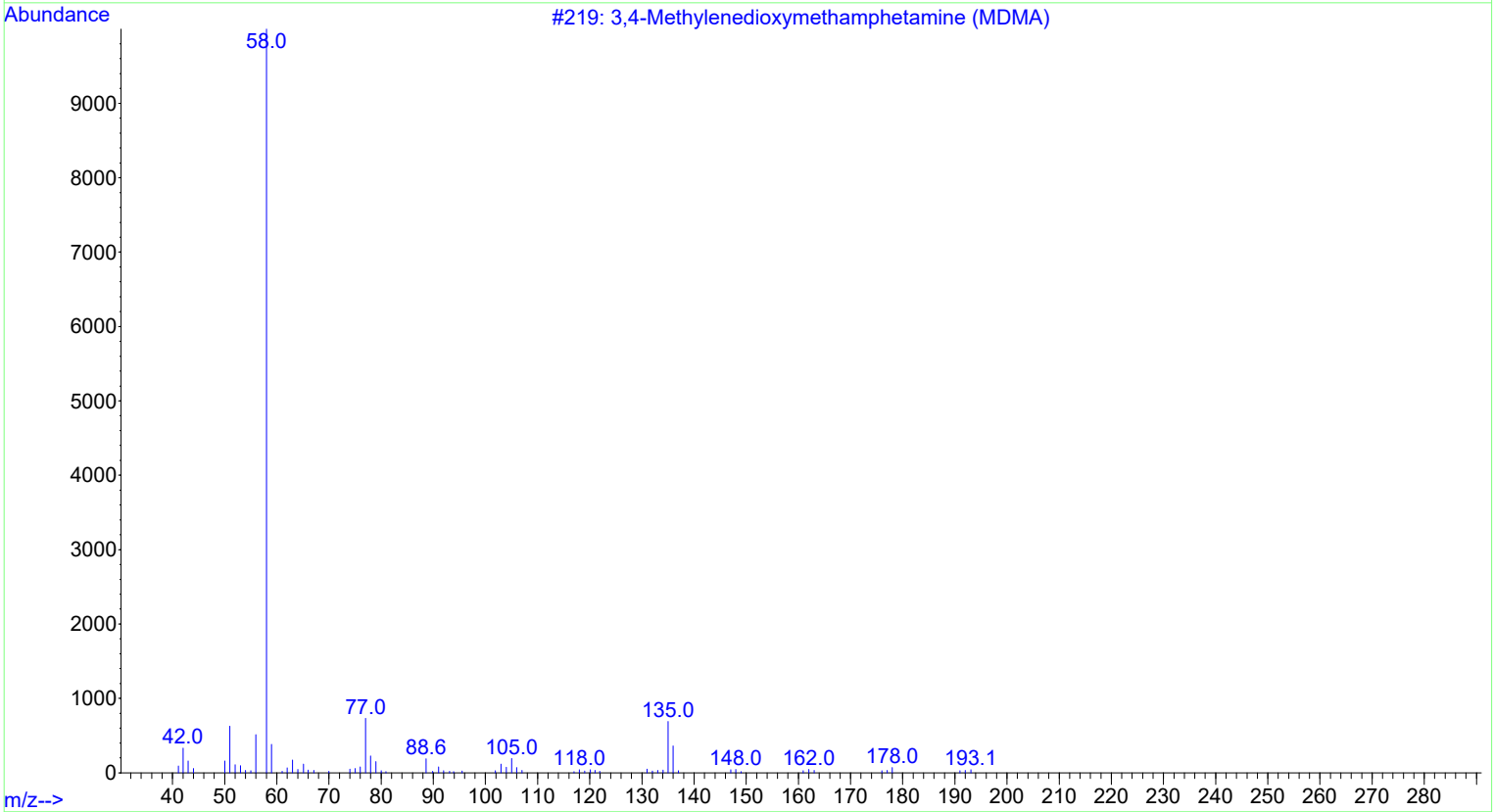


File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verif
... ication\060325\SD GCMS 3 PC-060325-029.D
Acquired : 04 Jun 2025 03:34 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: 3,4-methylenedioxymethamphetamine 000001332
Misc Info : 000001332
Vial Number: 30

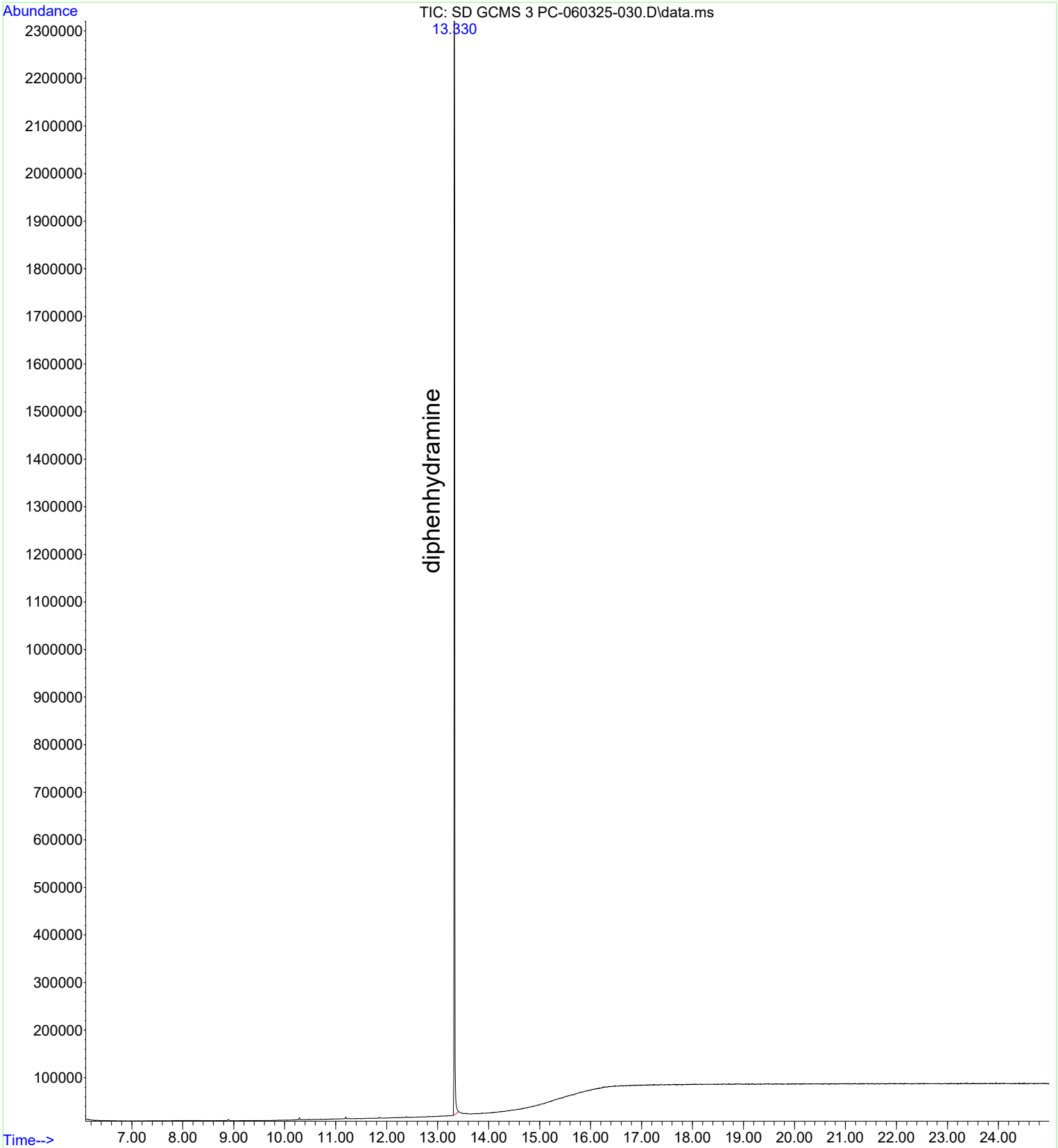


File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verif
... ication\060325\SD GCMS 3 PC-060325-029.D
Acquired : 04 Jun 2025 03:34 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: 3,4-methylenedioxymethamphetamine 000001332
Misc Info : 000001332
Vial Number: 30

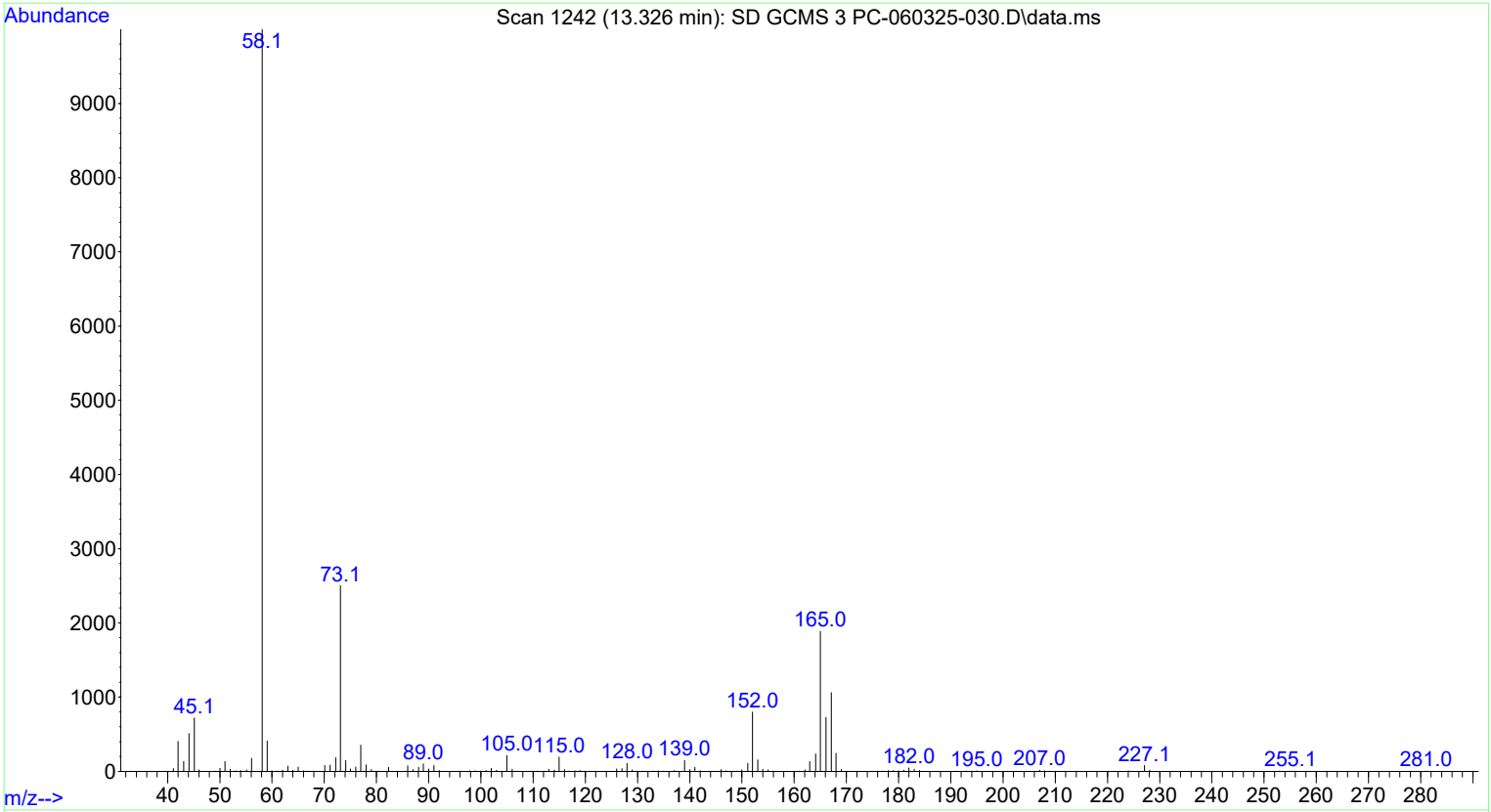


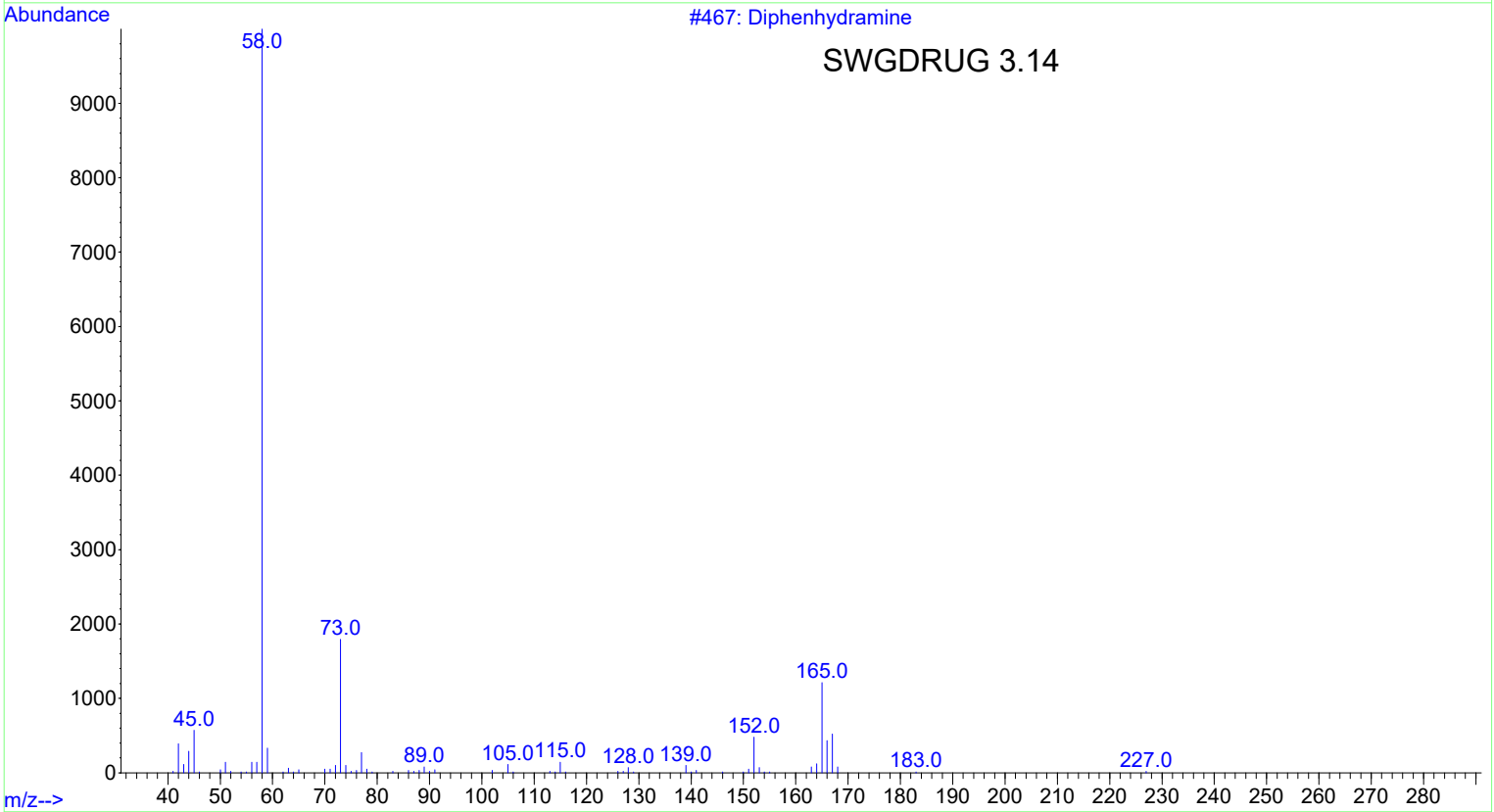


File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verif
... ication\060325\SD GCMS 3 PC-060325-030.D
Acquired : 04 Jun 2025 04:31 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Diphenhydramine Std (R-24-076) 000002130
Misc Info : 000002130
Vial Number: 31

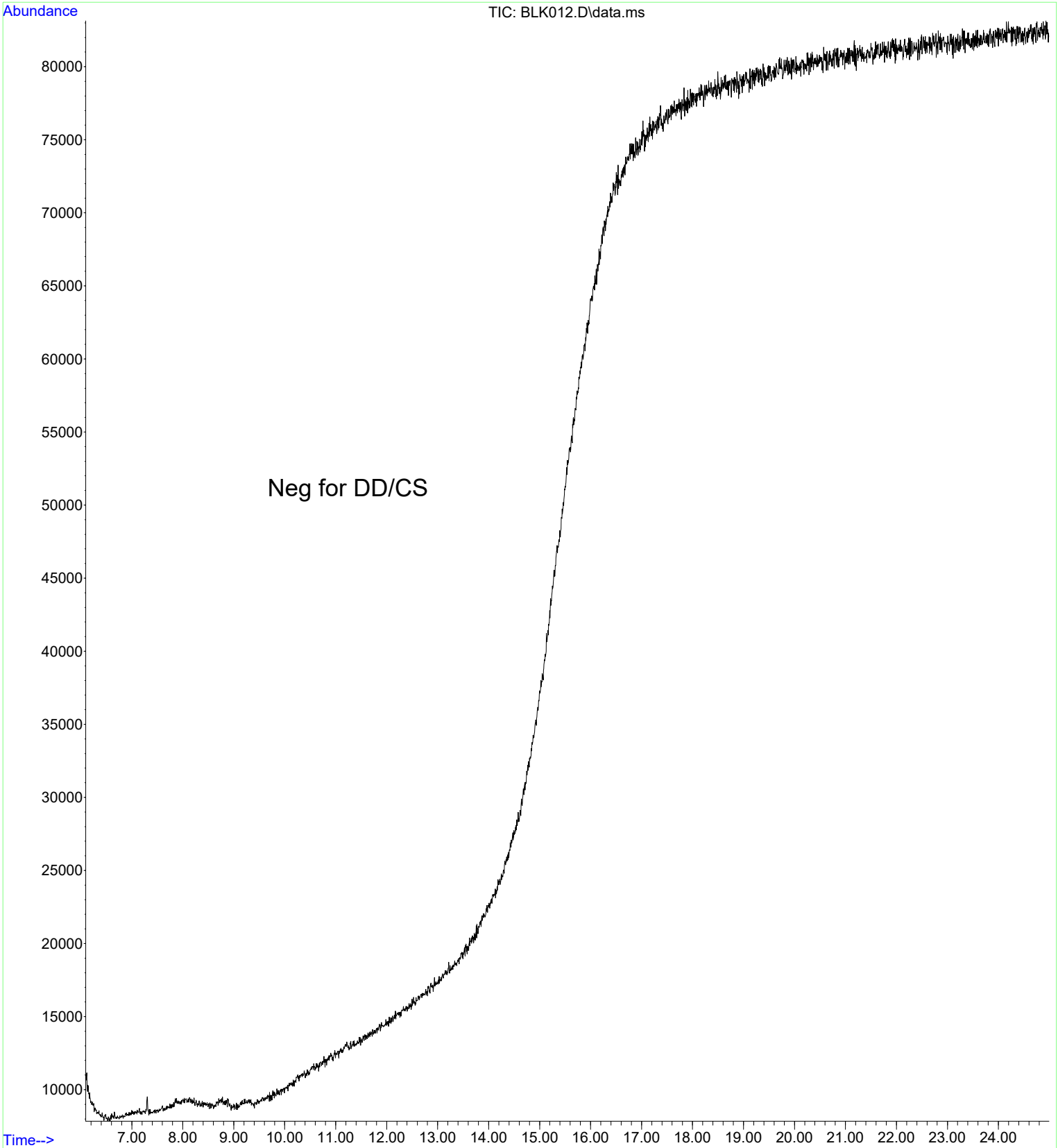


```
File       :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verif
...         ication\060325\SD GCMS 3 PC-060325-030.D
Acquired   : 04 Jun 2025  04:31     using AcqMethod DrugTest35MS.M
Instrument :   GCMS #4
Sample Name: Diphenhydramine Std (R-24-076)                 000002130
Misc Info  :                                                000002130
Vial Number: 31
```





File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verif
... ication\060325\BLK012.D
Acquired : 04 Jun 2025 05:00 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: BlankInstrument Ready (C-22-0046B) 000002668
Misc Info : 000002668
Vial Number: 1



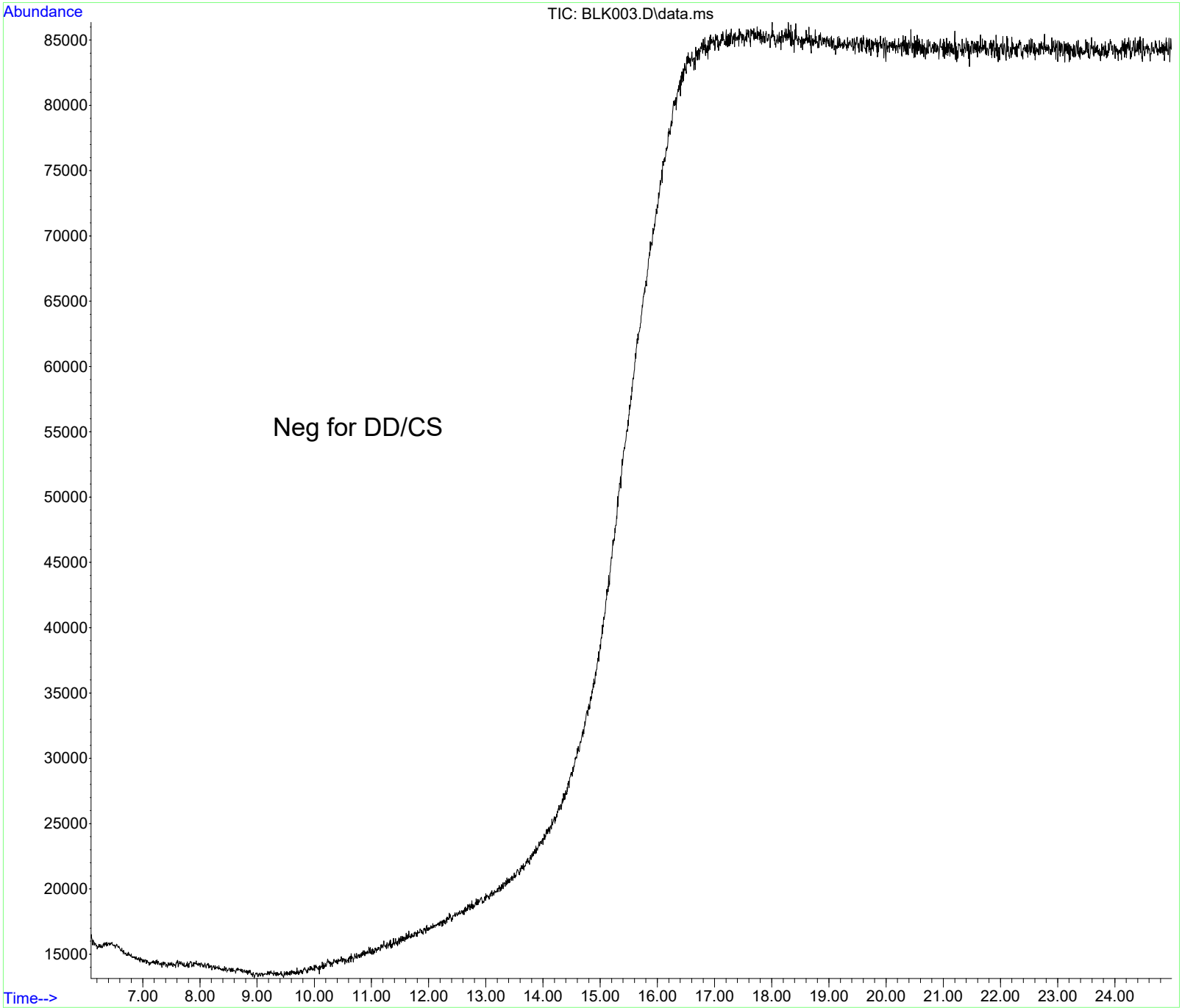
Brazoria County Crime Lab Area Percent Report

Data File: D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verification\060425\BLK003.D
Method : D:\MassHunter\GCMS\1\methods\DrugTest35MS.M
Operator : SD GCMS 4
Acq On : 04 Jun 2025 09:45
Sample : Blank prior to Peformance Verification Std
Misc :
ALS Vial : 41 000002040
ExpBcode : ~~000002668~~ vial barcode not updated by analyst,
ActBcode : 000002040 verified correct barcode on vial
-KB 6/6/2025
Signal : TIC: BLK003.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total

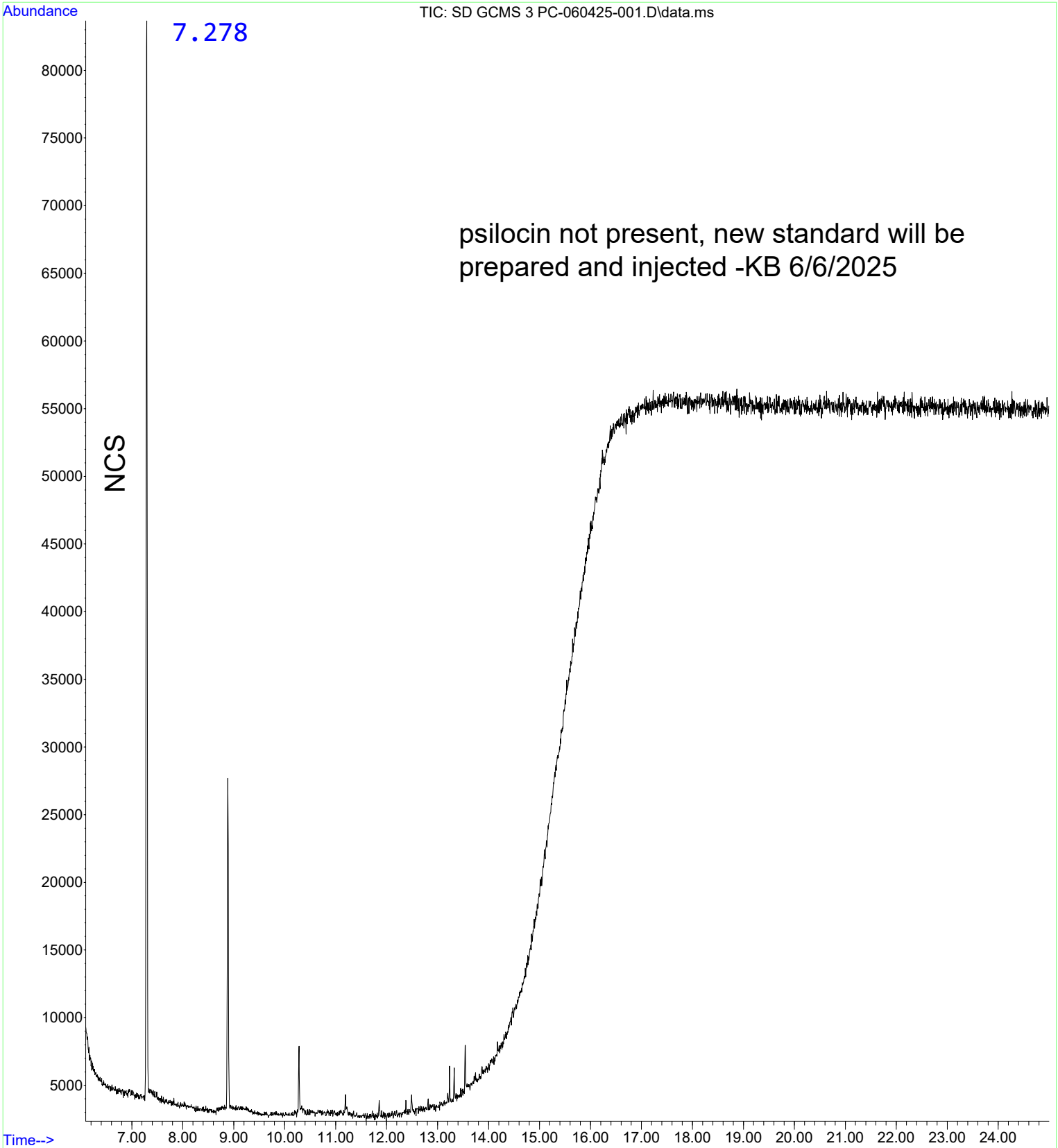
No peaks were detected using the method integration parameters!

DrugTest35MS.M Wed Jun 04 10:10:42 2025 DRUGS

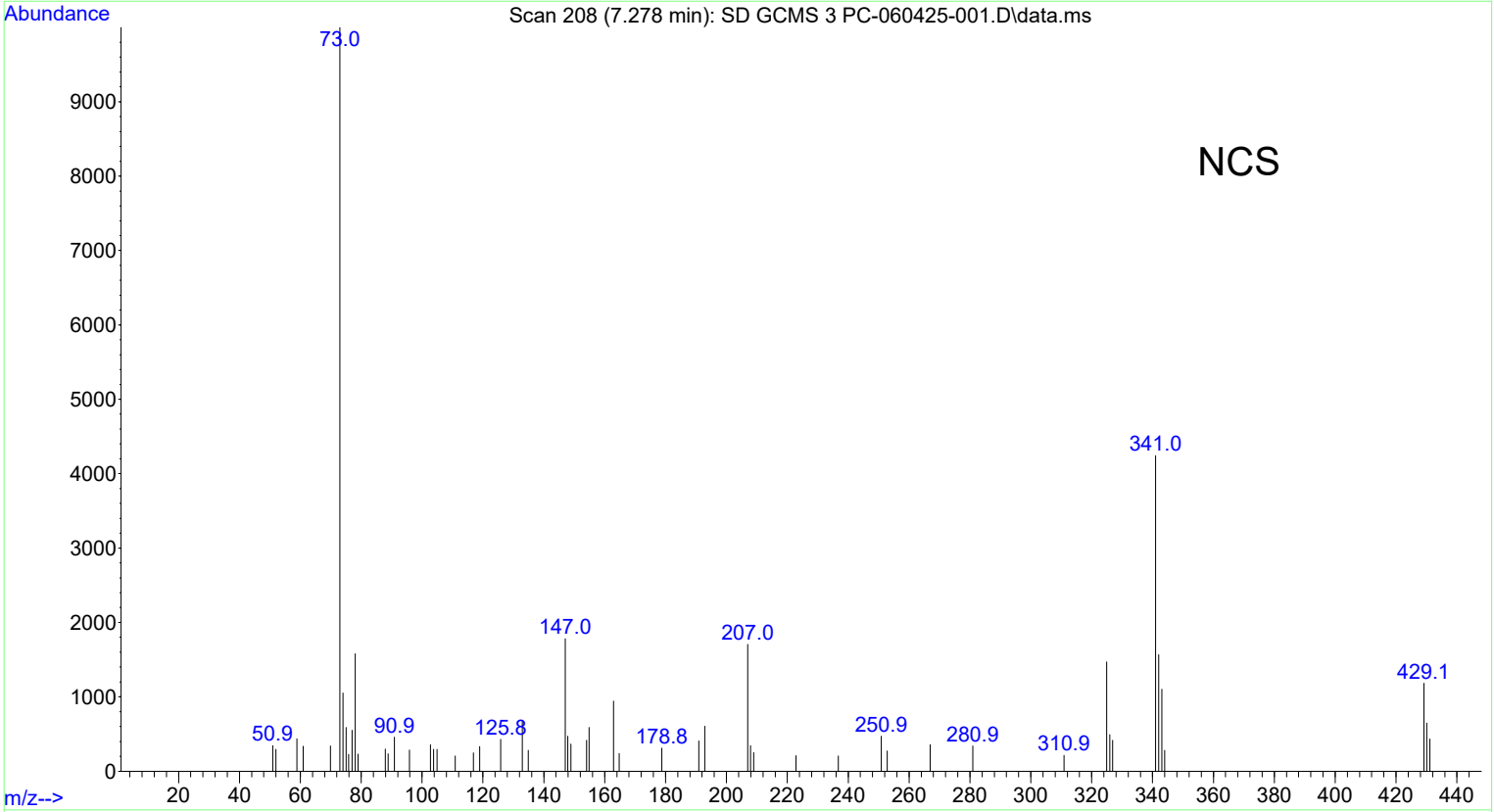


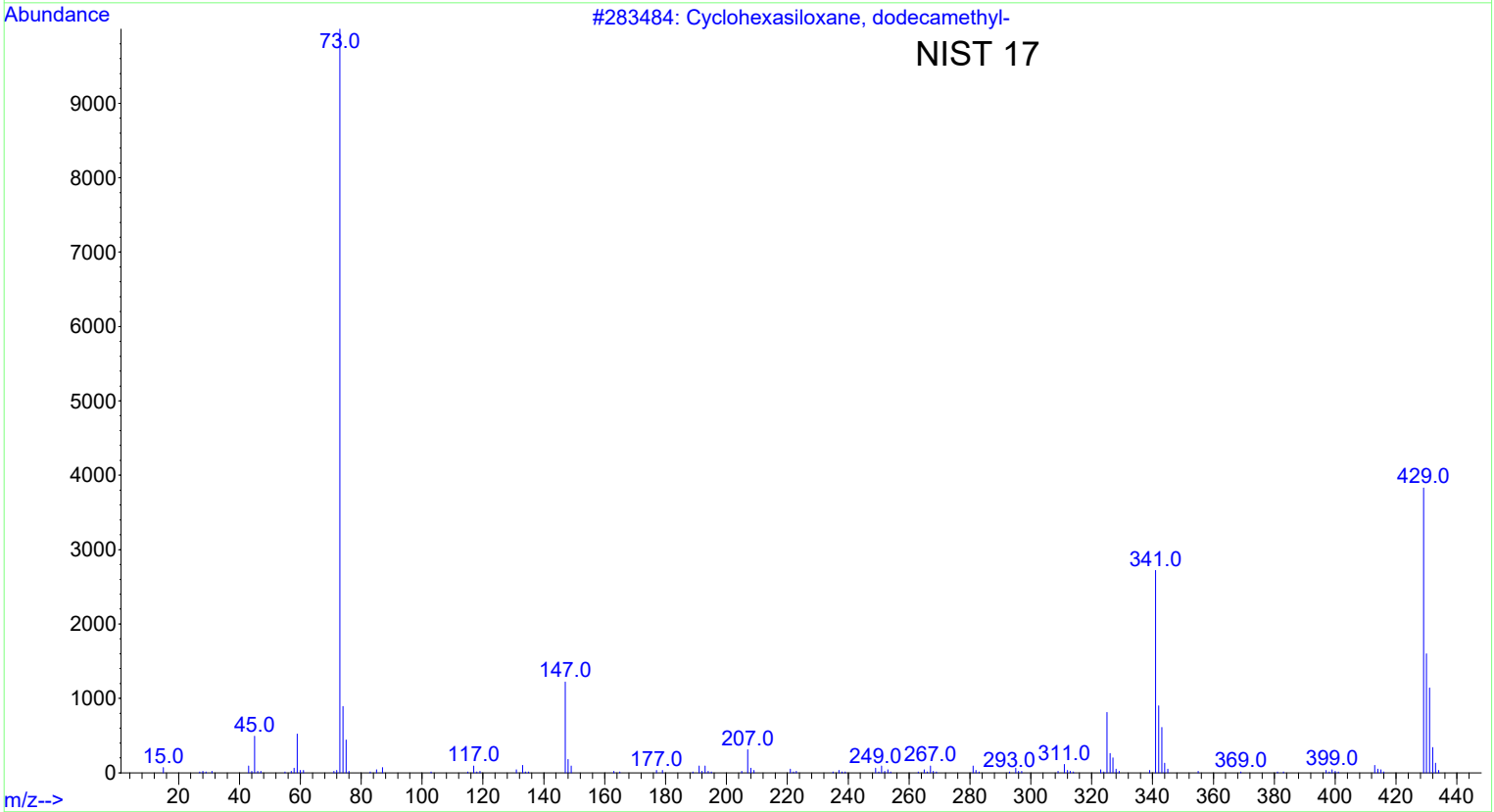
```
File       :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verif
...         ication\060425\SD GCMS 3 PC-060425-001.D
Acquired   : 04 Jun 2025  10:13     using AcqMethod DrugTest35MS_20X.M
Instrument :   GCMS #4
Sample Name: Psilocin Std (R-24-030)                          000002968
Misc Info  :                                                  000002968
Vial Number: 12
```

Run #2



File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verif
... ication\060425\SD GCMS 3 PC-060425-001.D
Acquired : 04 Jun 2025 10:13 using AcqMethod DrugTest35MS_20X.M
Instrument : GCMS #4
Sample Name: Psilocin Std (R-24-030) 000002968
Misc Info : 000002968
Vial Number: 12





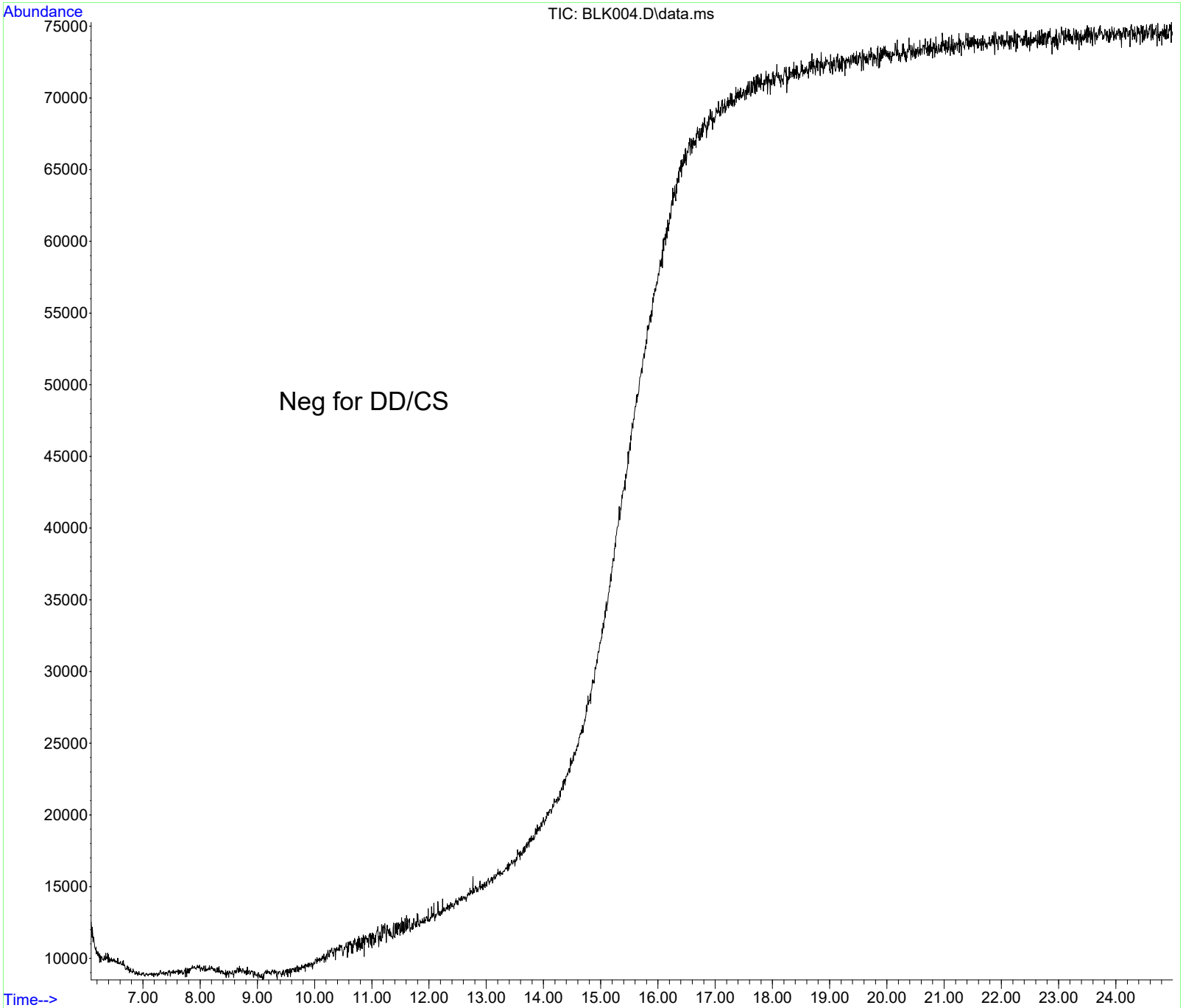
Brazoria County Crime Lab Area Percent Report

Data File: D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verification\060425\BLK004.D
Method : D:\MassHunter\GCMS\1\methods\DrugTest35MS.M
Operator : SD GCMS 4
Acq On : 04 Jun 2025 10:43
Sample : BlankInstrument Ready (C-22-0046B)
Misc :
ALS Vial : 41 000002040
ExpBcode : ~~000002668~~ vial barcode not updated by analyst,
ActBcode : 000002040 verified correct barcode on vial
-KB 6/6/2025
Signal : TIC: BLK004.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total

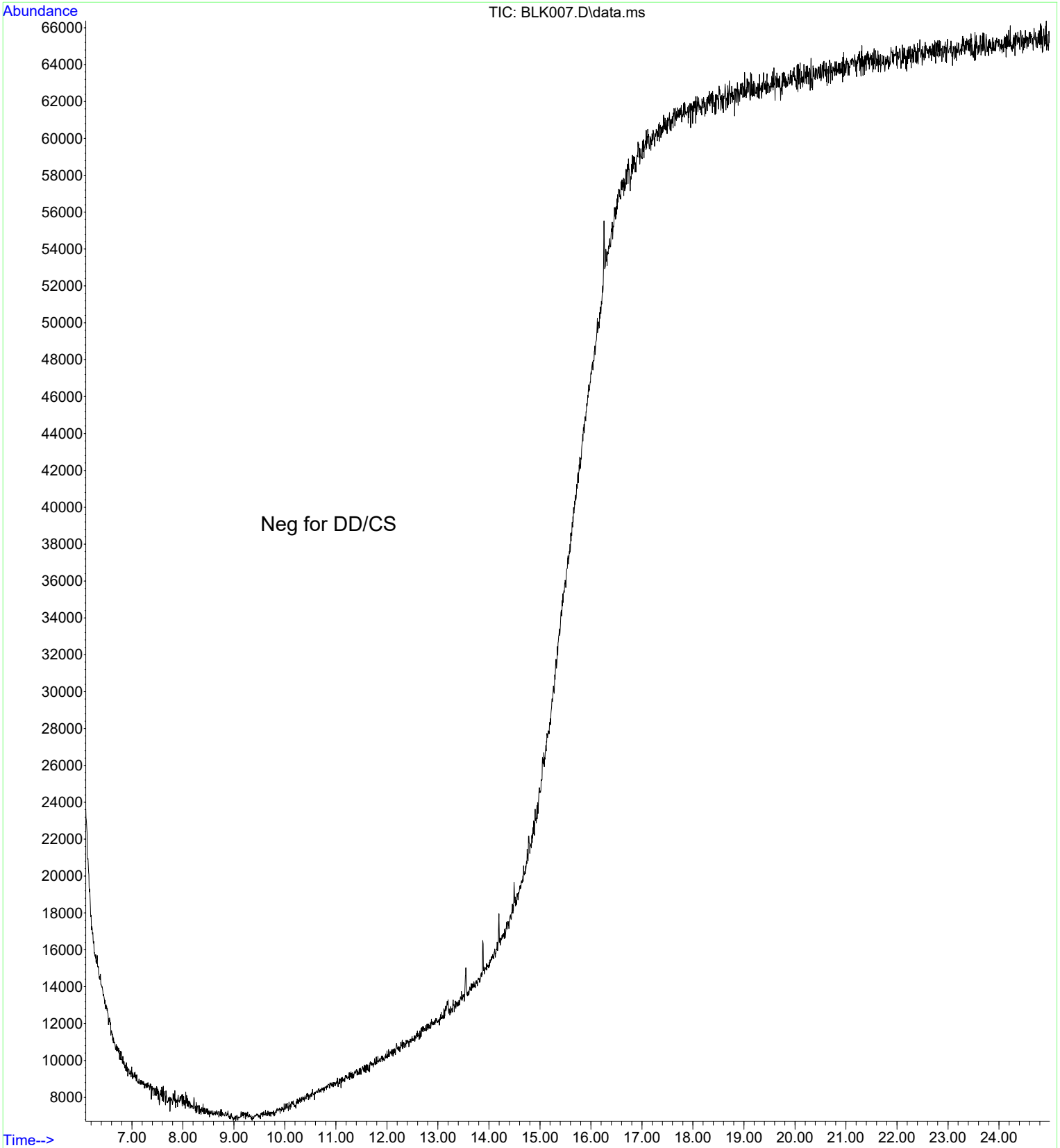
No peaks were detected using the method integration parameters!

DrugTest35MS.M Wed Jun 04 11:08:21 2025 DRUGS



File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verif
... ication\060425\BLK007.D
Acquired : 04 Jun 2025 15:21 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4 000002040
Sample Name: Blank prior to Peformance Verification Std ~~000002668~~
Misc Info : 000002040
Vial Number: 41

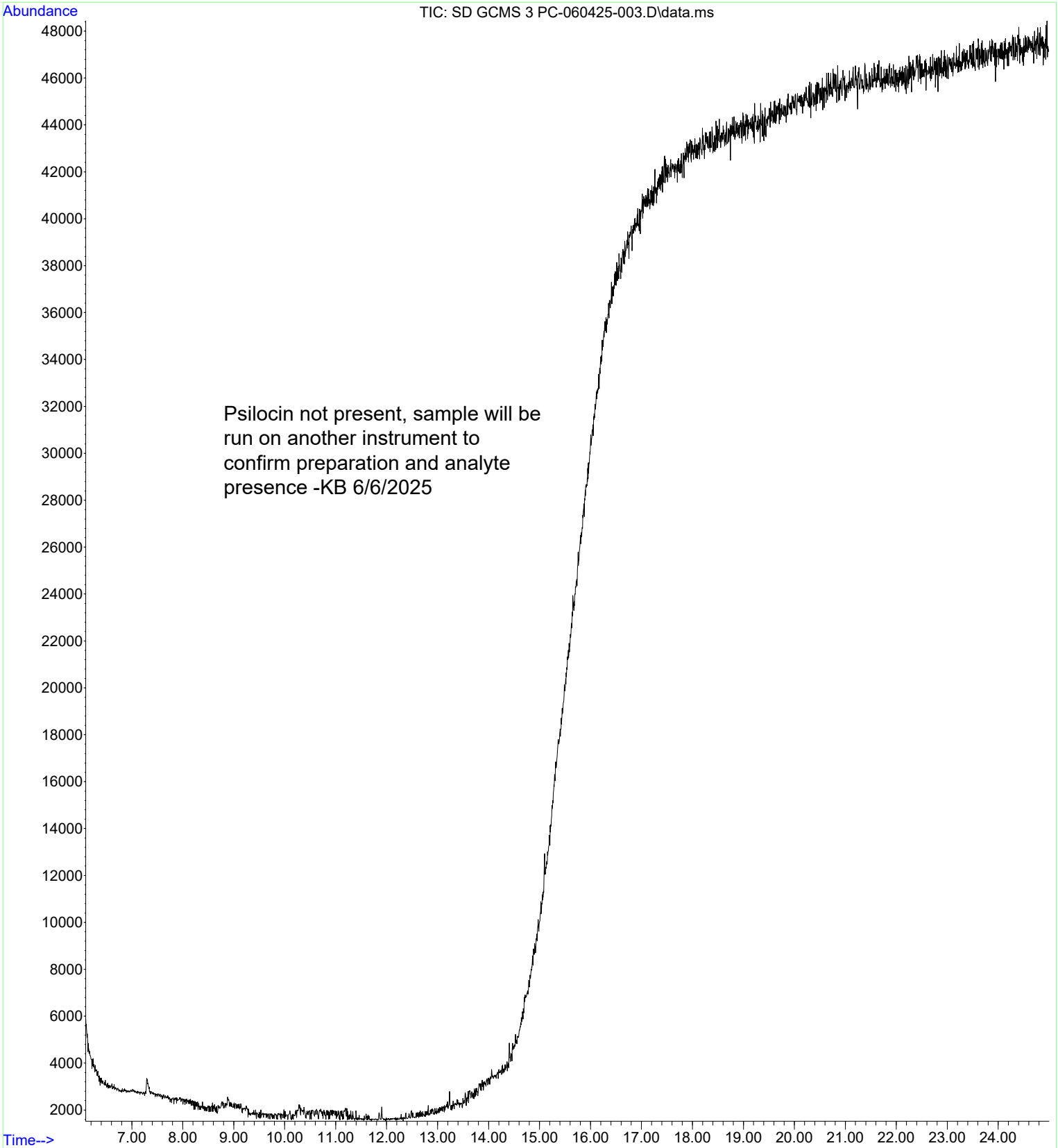
vial barcode not updated by analyst,
verified correct barcode on vial
-KB 6/6/2025



File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verif
... ication\060425\SD GCMS 3 PC-060425-003.D
Acquired : 04 Jun 2025 15:49 using AcqMethod DrugTest35MS_20X.M
Instrument : GCMS #4
Sample Name: Psilocin Std (R-25-007)
Misc Info :
Vial Number: 1

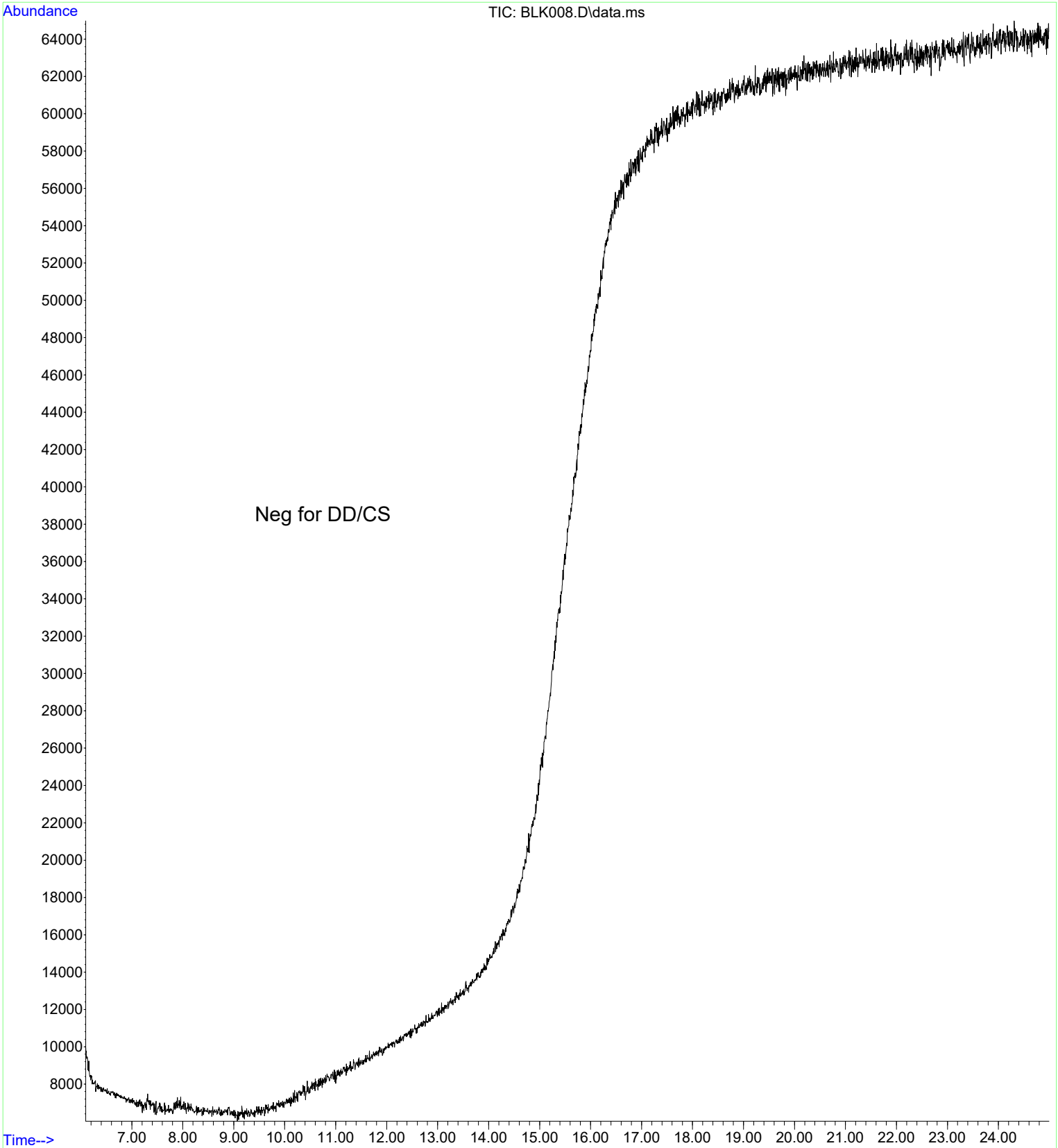
000002042
~~000002068~~ vial barcode not updated by analyst,
000002042 verified correct barcode on vial
-KB 6/6/2025

Run #3

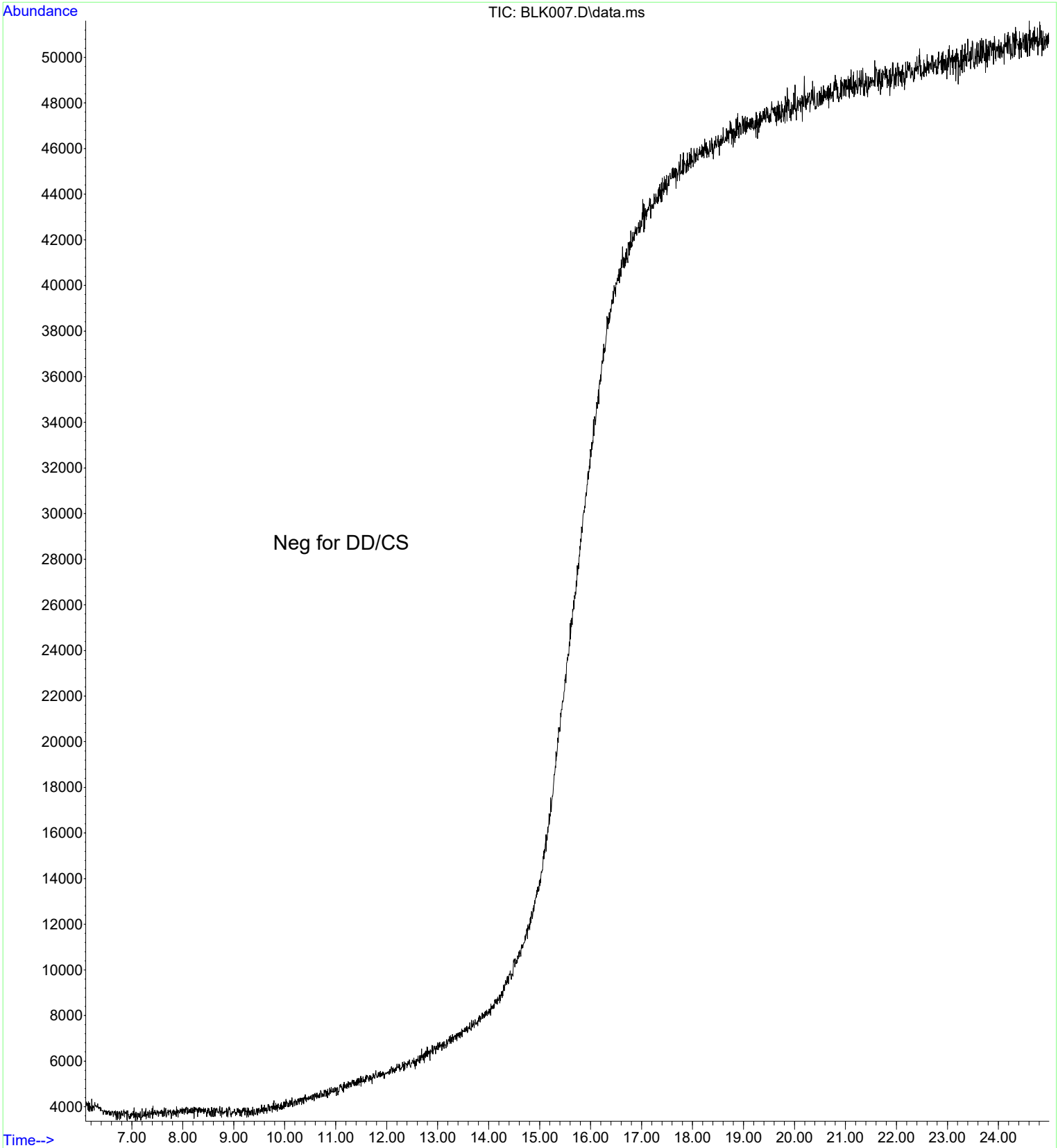


File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verif
... ication\060425\BLK008.D
Acquired : 04 Jun 2025 16:18 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: BlankInstrument Ready (C-22-0046B)
Misc Info :
Vial Number: 41

000002040
~~000002660~~ vial barcode not updated by analyst,
000002040 verified correct barcode on vial
-KB 6/6/2025

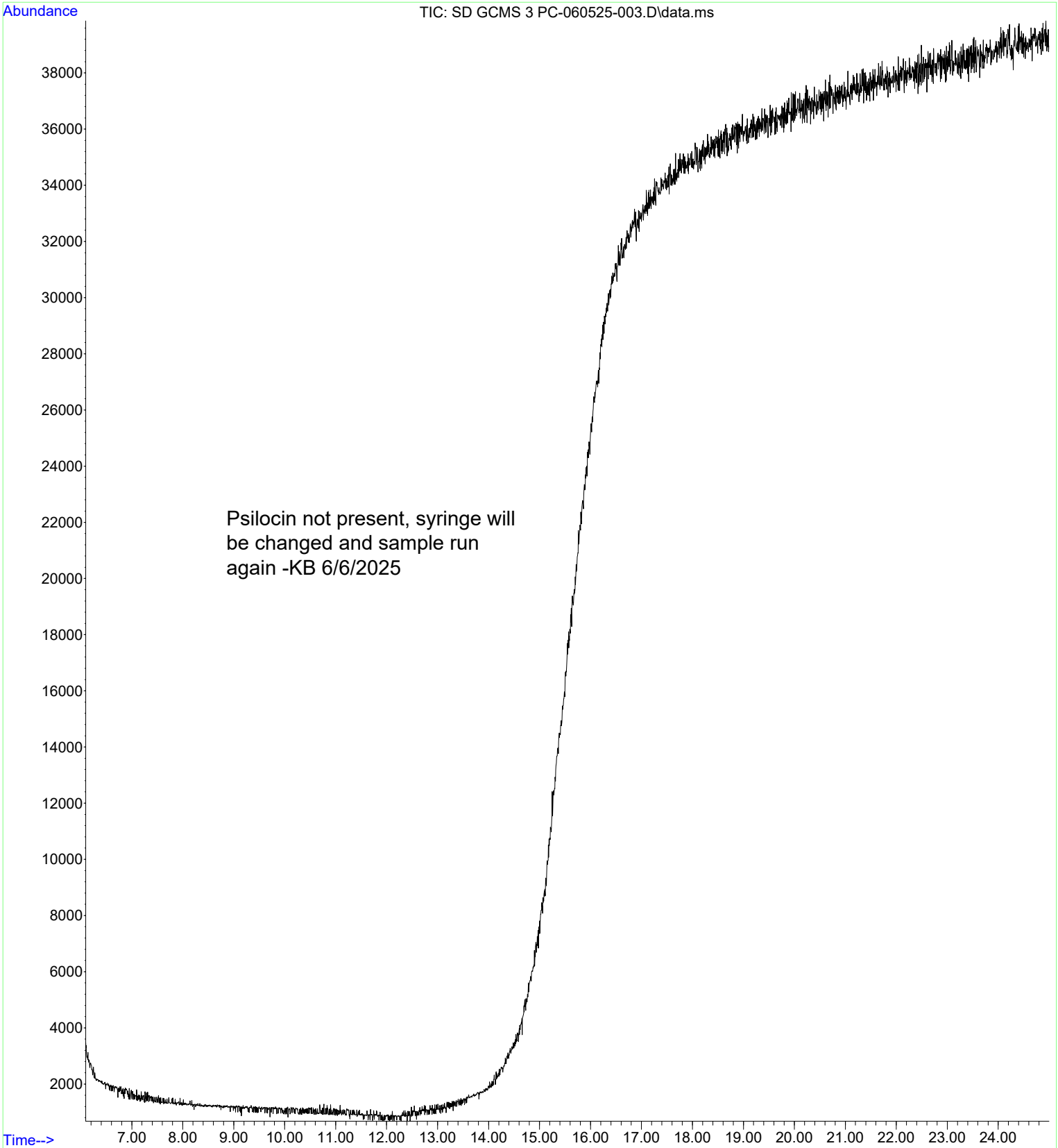


File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verif
... ication\060525\BLK007.D
Acquired : 05 Jun 2025 14:59 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: Blank prior to Peformance Verification Std 000002040
Misc Info : 000002040
Vial Number: 1

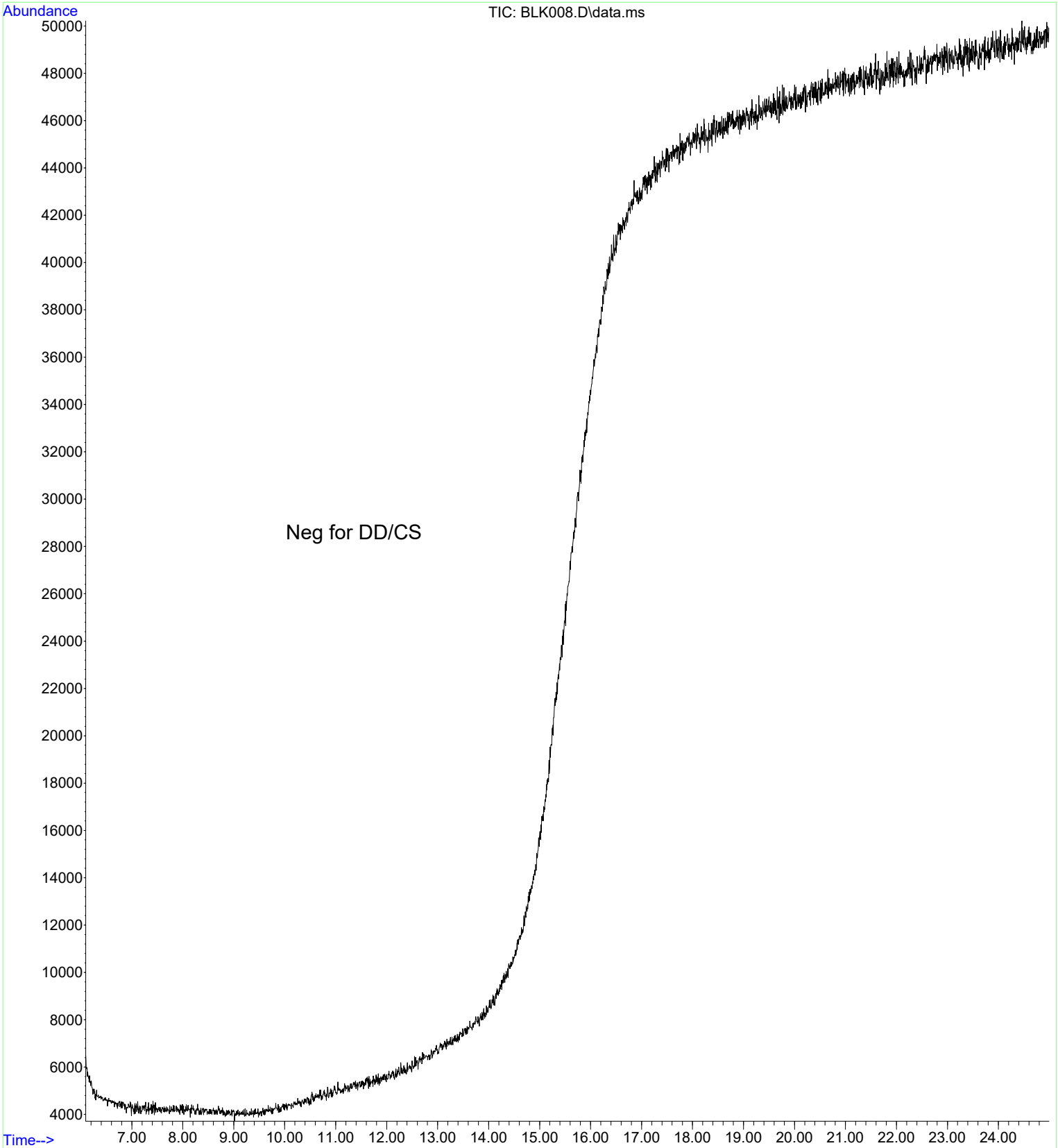


File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verif
... ication\060525\SD GCMS 3 PC-060525-003.D
Acquired : 05 Jun 2025 15:27 using AcqMethod DrugTest35MS_20X.M
Instrument : GCMS #4
Sample Name: Psilocin Std (R-25-007) 000002042
Misc Info : 000002042
Vial Number: 2

Run #4

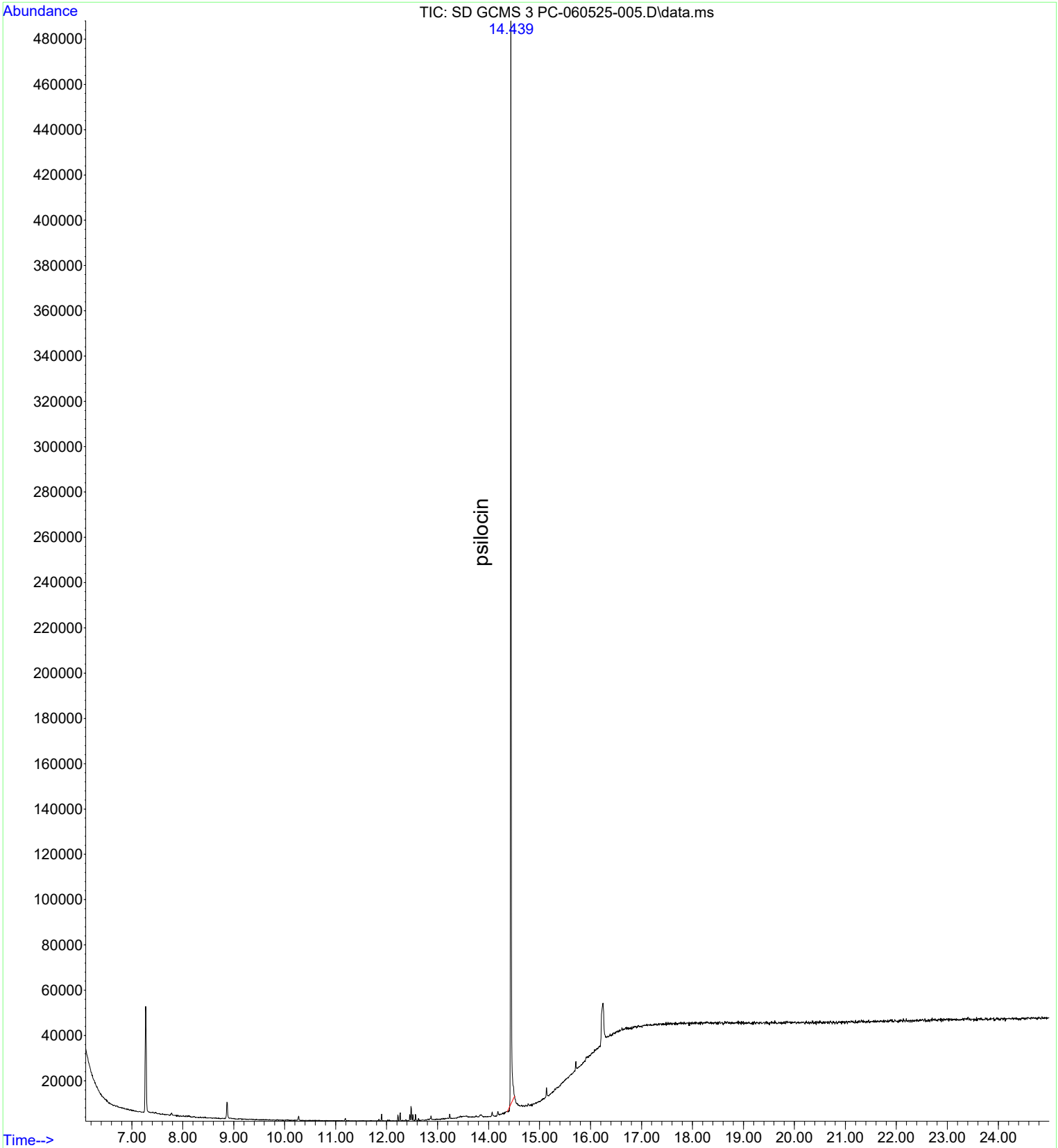


File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verif
... ication\060525\BLK008.D
Acquired : 05 Jun 2025 15:57 using AcqMethod DrugTest35MS.M
Instrument : GCMS #4
Sample Name: BlankInstrument Ready (C-22-0046B) 000002040
Misc Info : 000002040
Vial Number: 1



File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verif
... ication\060525\SD GCMS 3 PC-060525-005.D
Acquired : 06 Jun 2025 08:21 using AcqMethod DrugTest35MS_20X.M
Instrument : GCMS #4
Sample Name: Psilocin Std (R-25-007) 000002042
Misc Info : 000002042
Vial Number: 2

Run #5



File :D:\MassHunter\GCMS\1\GCMS 4 data\Standards\Performance Verif
... ication\060525\SD GCMS 3 PC-060525-005.D
Acquired : 06 Jun 2025 08:21 using AcqMethod DrugTest35MS_20X.M
Instrument : GCMS #4
Sample Name: Psilocin Std (R-25-007) 000002042
Misc Info : 000002042
Vial Number: 2

