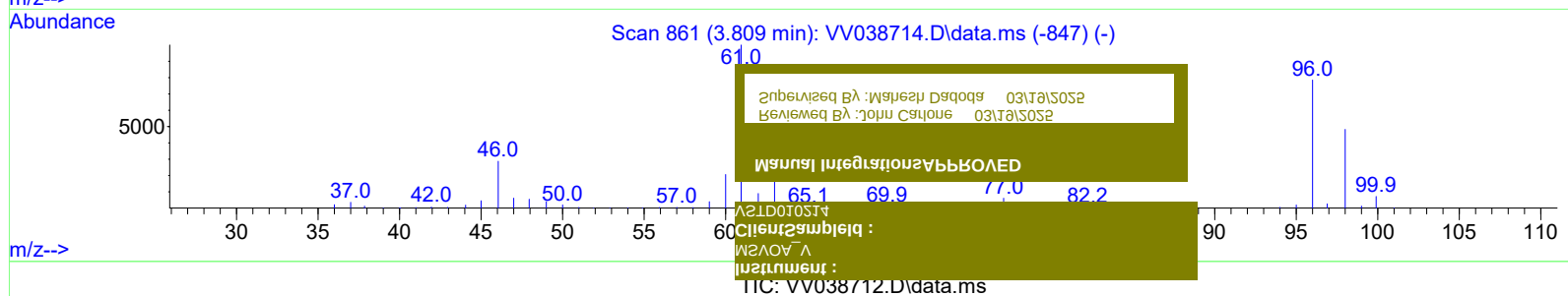
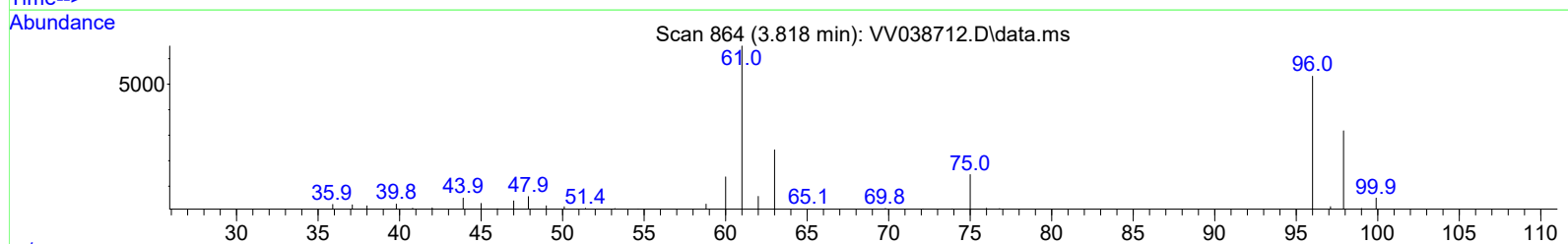
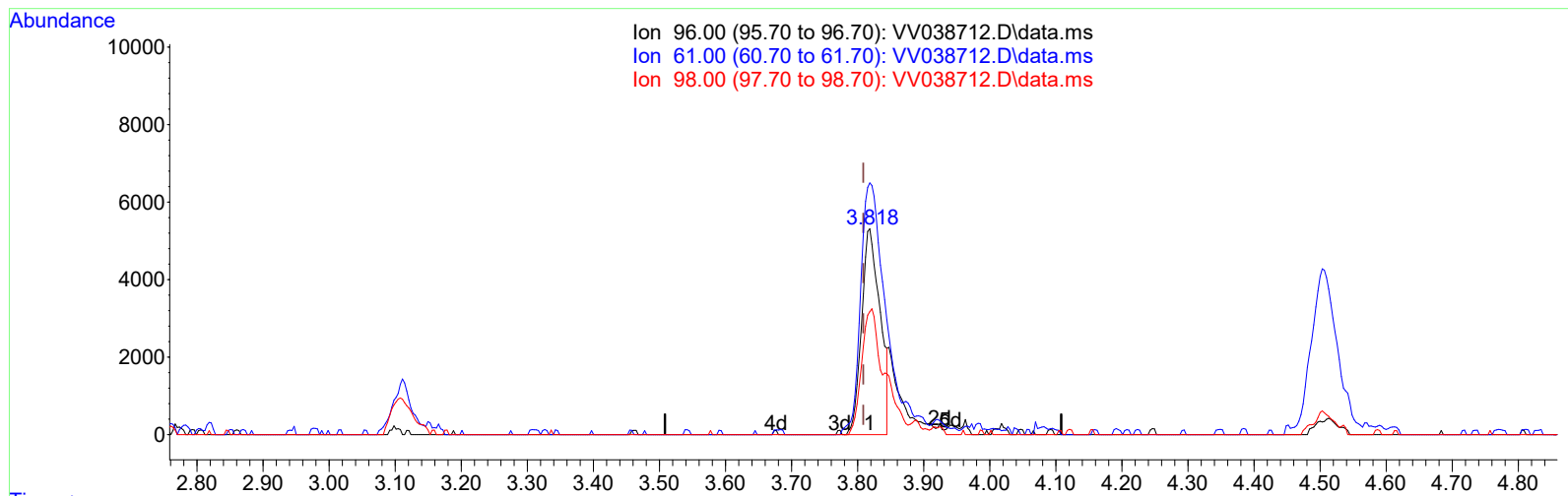


Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV031725\
Data File : VV038712.D
Acq On : 17 Mar 2025 12:34
Operator : SY/MD
Sample : VSTD005013
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 13:53:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM031724WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Mar 17 13:51:31 2025
Response via : Initial Calibration



(20) cis-1,2-Dichloroethene (T)

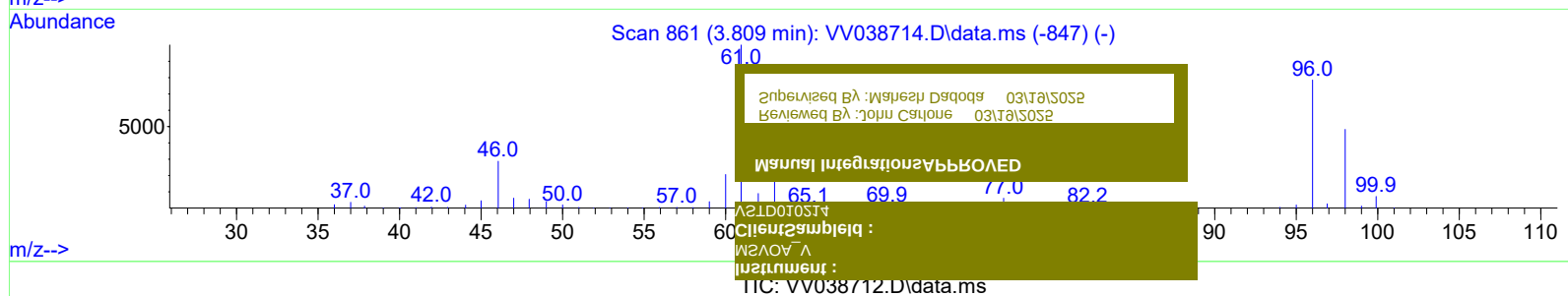
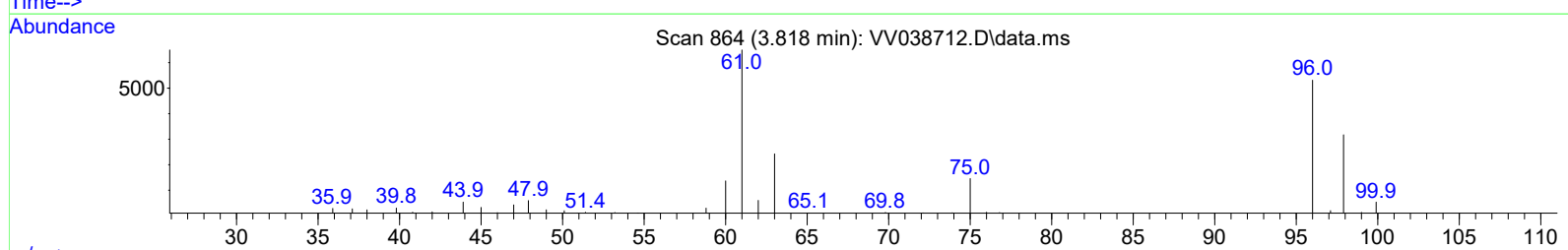
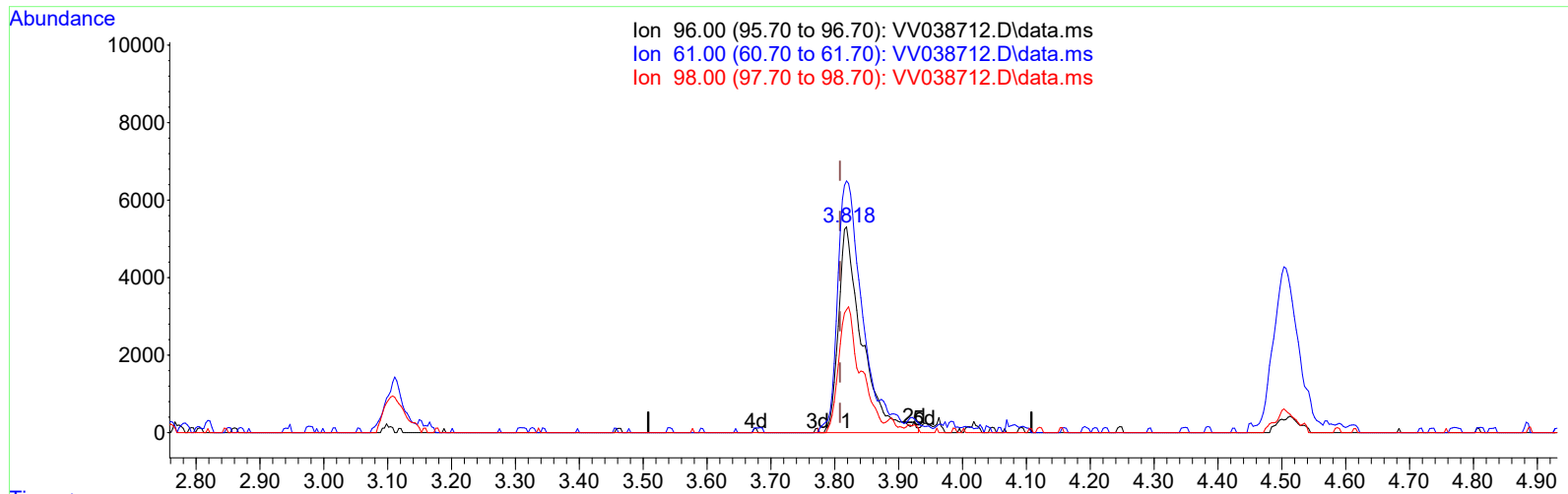
3.818min (+ 0.010) 3.86 ug/L

response 10295

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	119.30	122.29
98.00	63.70	59.71
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV031725\
Data File : VV038712.D
Acq On : 17 Mar 2025 12:34
Operator : SY/MD
Sample : VSTD005013
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 13:53:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM031724WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Mar 17 13:51:31 2025
Response via : Initial Calibration



(20) cis-1,2-Dichloroethene (T)

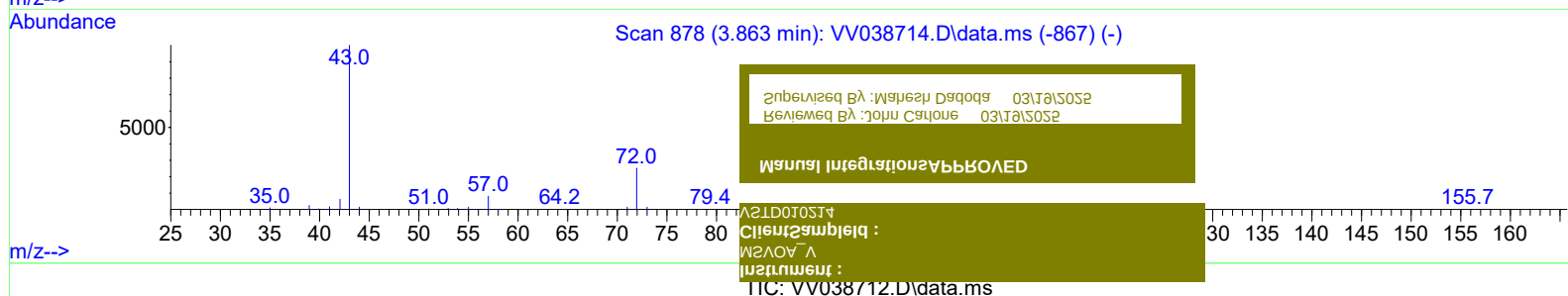
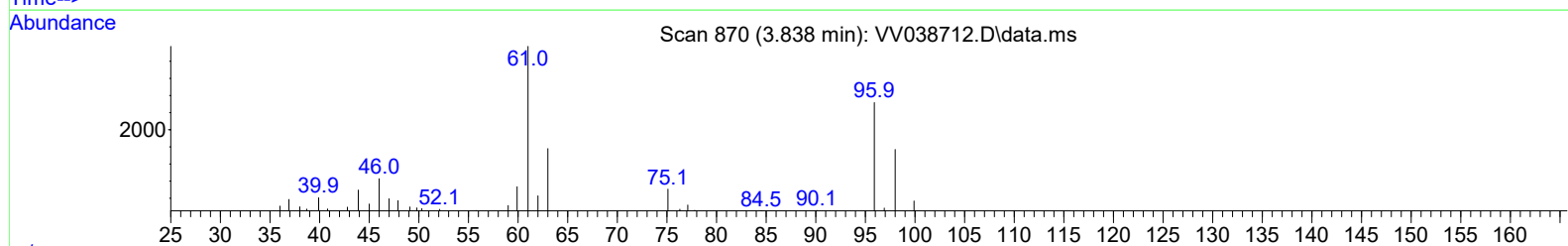
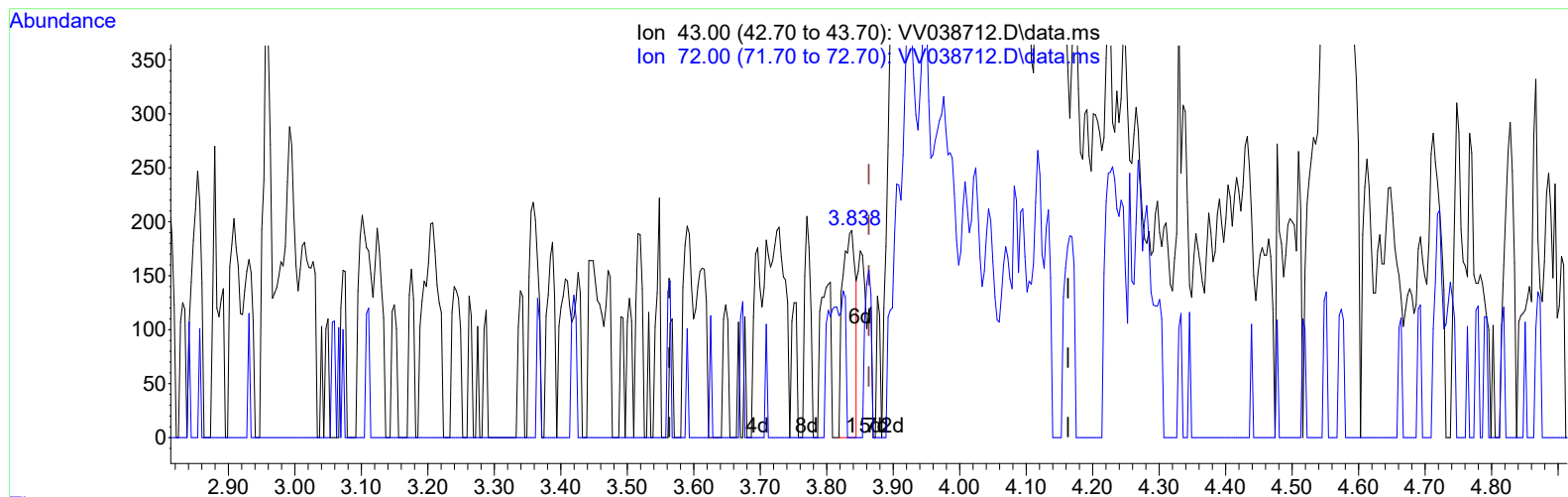
3.818min (+ 0.010) 5.09 ug/L m

response 13583

Ion	Exp%	Act%
96.00	100.00	100.00
61.00	119.30	122.29
98.00	63.70	59.71
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV031725\
Data File : VV038712.D
Acq On : 17 Mar 2025 12:34
Operator : SY/MD
Sample : VSTD005013
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 13:53:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM031724WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Mar 17 13:51:31 2025
Response via : Initial Calibration



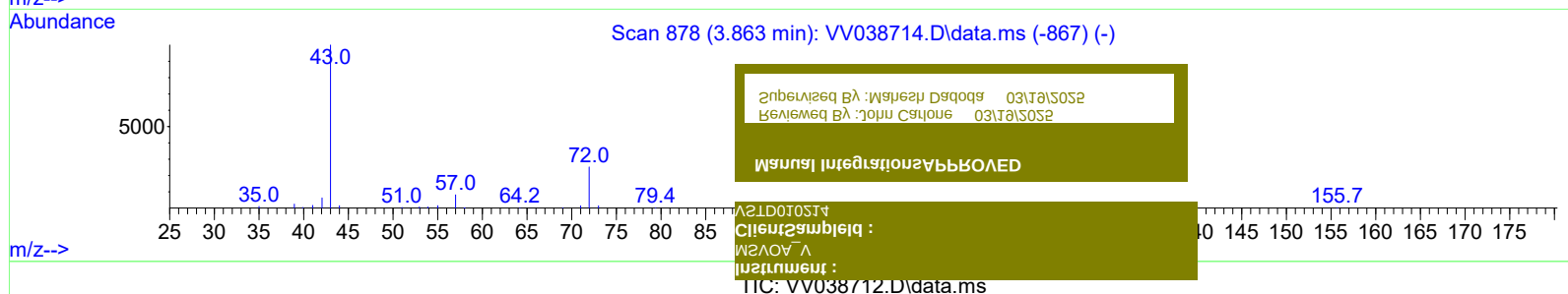
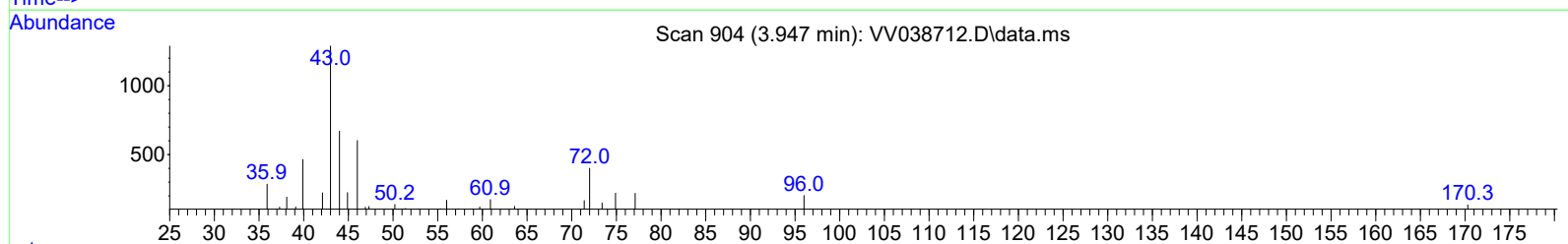
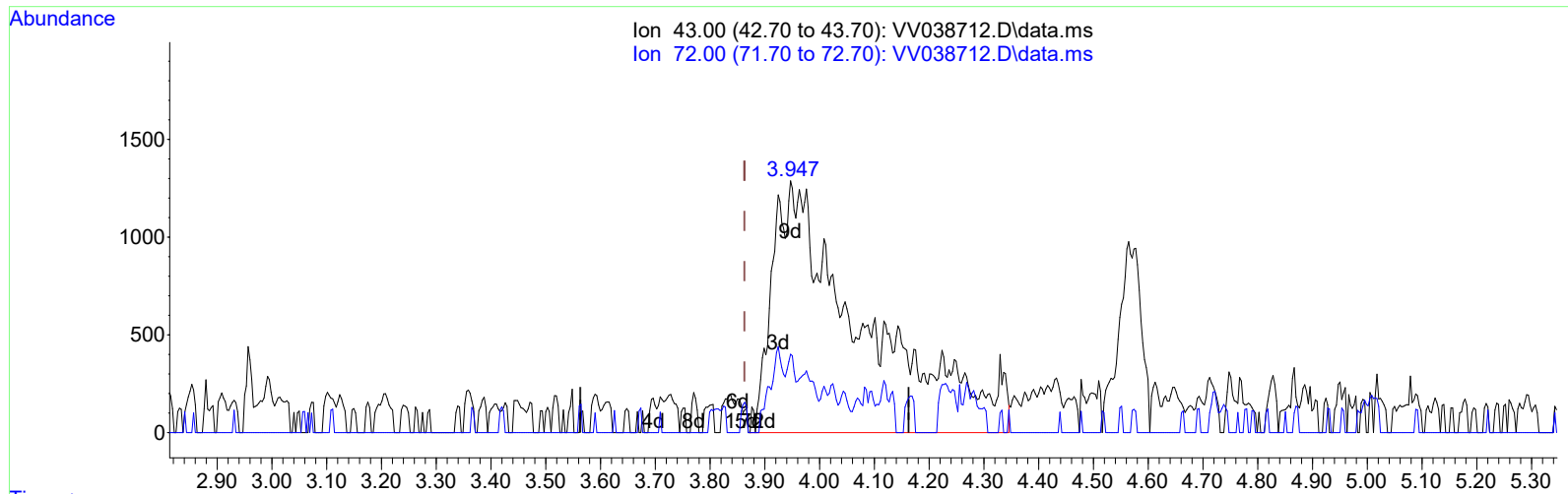
(22) 2-Butanone (T)

3.838min (-0.026) 0.15 ug/L

response	255		
Ion	Exp%	Act%	
43.00	100.00	100.00	
72.00	25.00	29.02	
0.00	0.00	0.00	
0.00	0.00	0.00	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV031725\
Data File : VV038712.D
Acq On : 17 Mar 2025 12:34
Operator : SY/MD
Sample : VSTD005013
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 13:53:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM031724WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Mar 17 13:51:31 2025
Response via : Initial Calibration



(22) 2-Butanone (T)

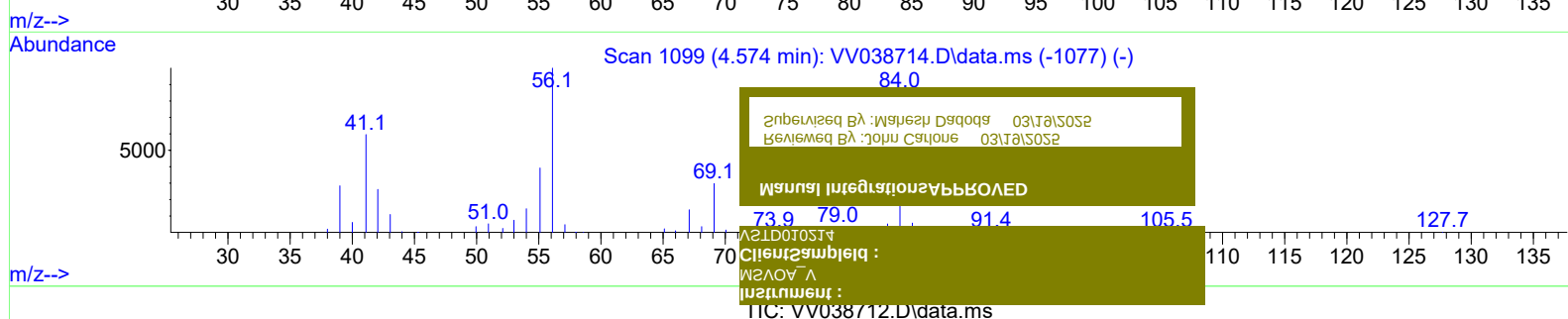
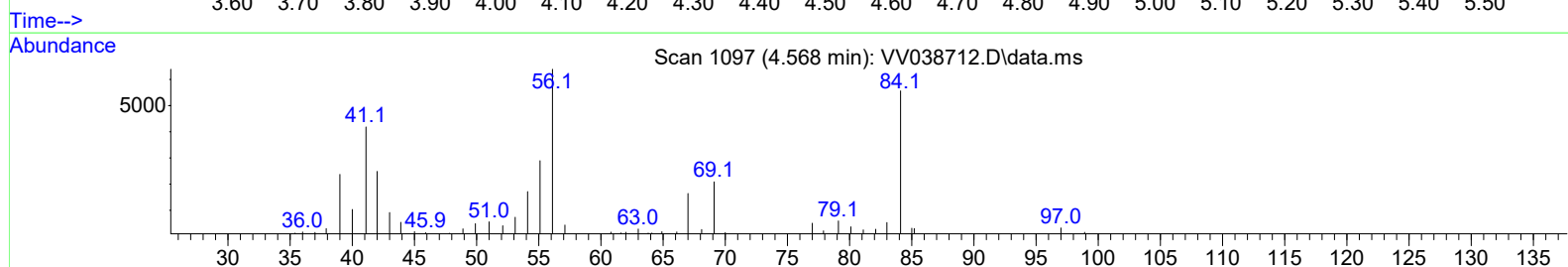
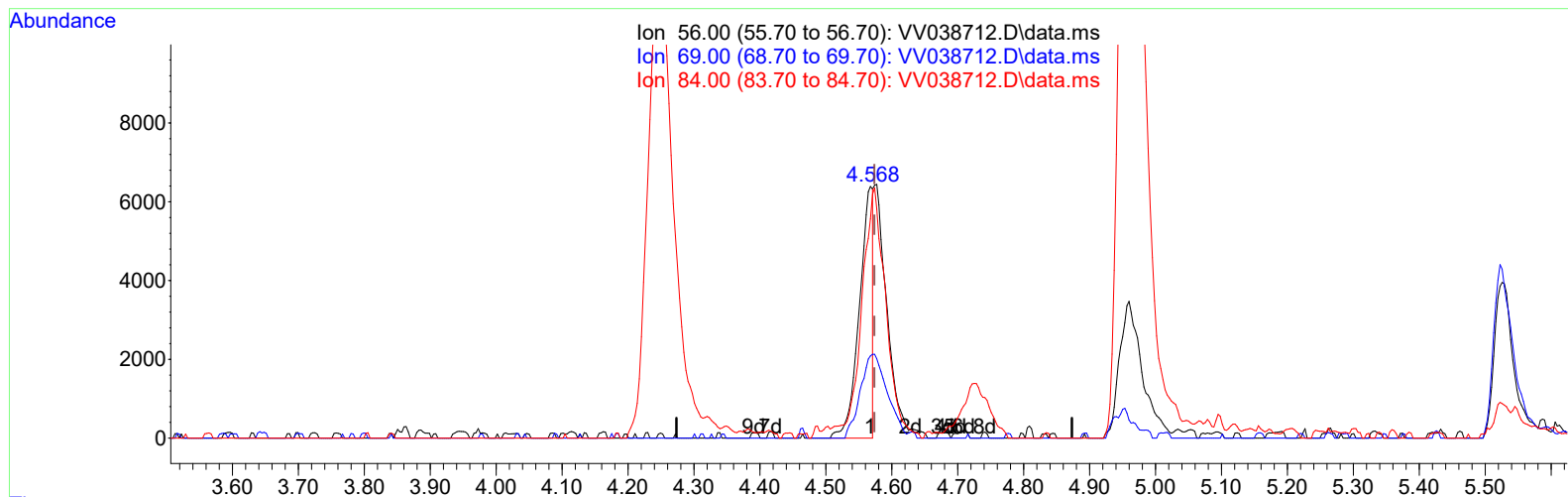
3.947min (+ 0.084) 8.57 ug/L m

response 14802

Ion	Exp%	Act%
43.00	100.00	100.00
72.00	25.00	0.50#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV031725\
Data File : VV038712.D
Acq On : 17 Mar 2025 12:34
Operator : SY/MD
Sample : VSTD005013
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 13:53:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM031724WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Mar 17 13:51:31 2025
Response via : Initial Calibration



(29) Cyclohexane (T)

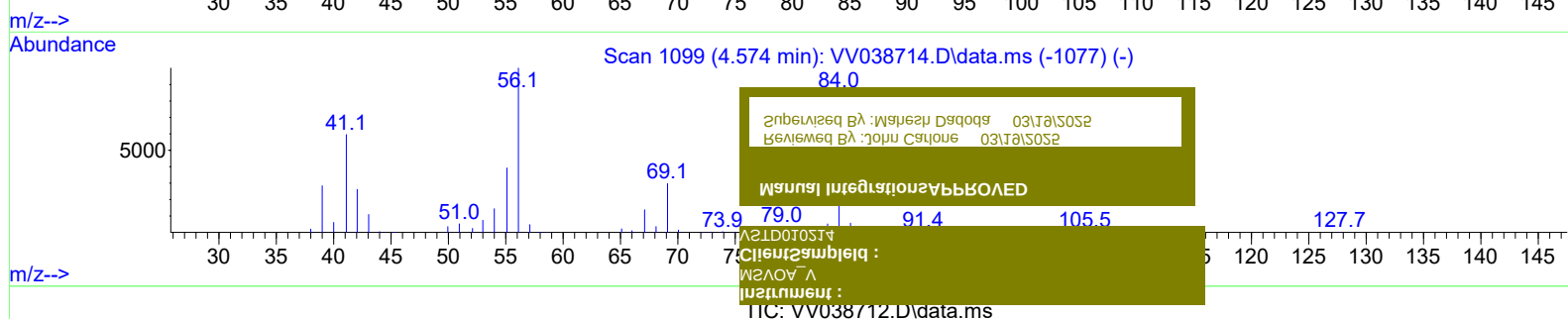
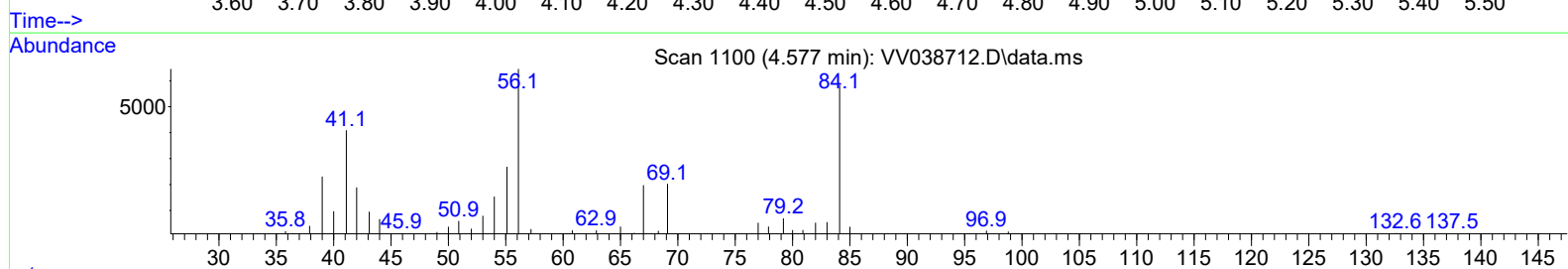
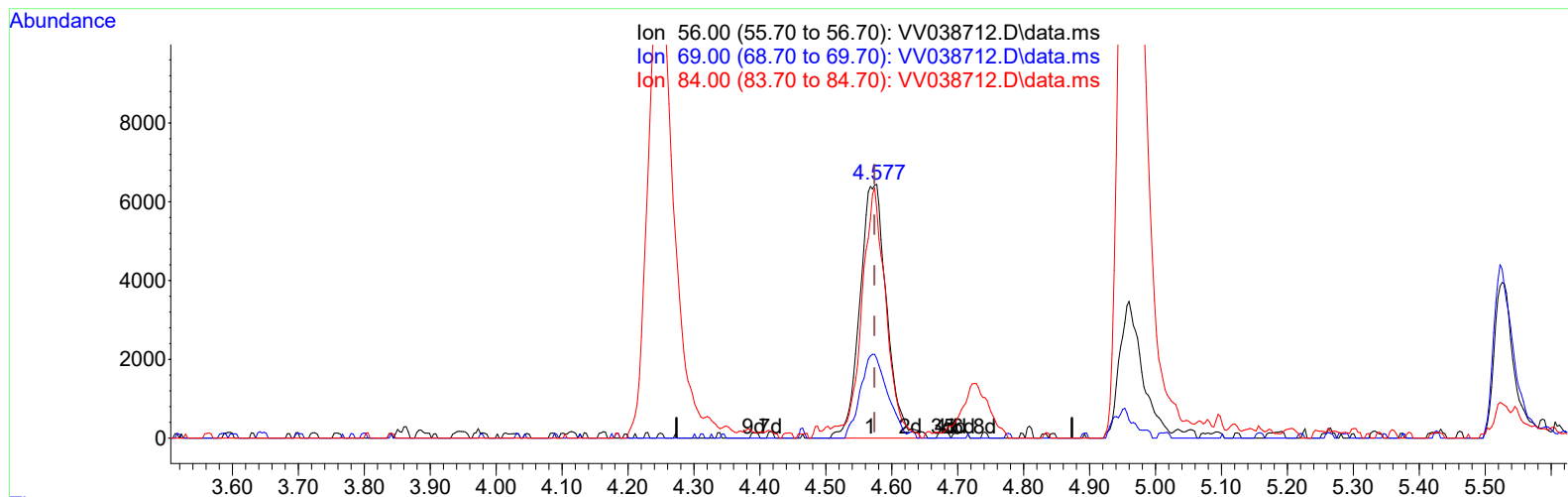
4.568min (-0.006) 2.38 ug/L

response 9121

Ion	Exp%	Act%
56.00	100.00	100.00
69.00	31.00	66.22#
84.00	92.10	173.73#
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV031725\
Data File : VV038712.D
Acq On : 17 Mar 2025 12:34
Operator : SY/MD
Sample : VSTD005013
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 13:53:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM031724WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Mar 17 13:51:31 2025
Response via : Initial Calibration



(29) Cyclohexane (T)

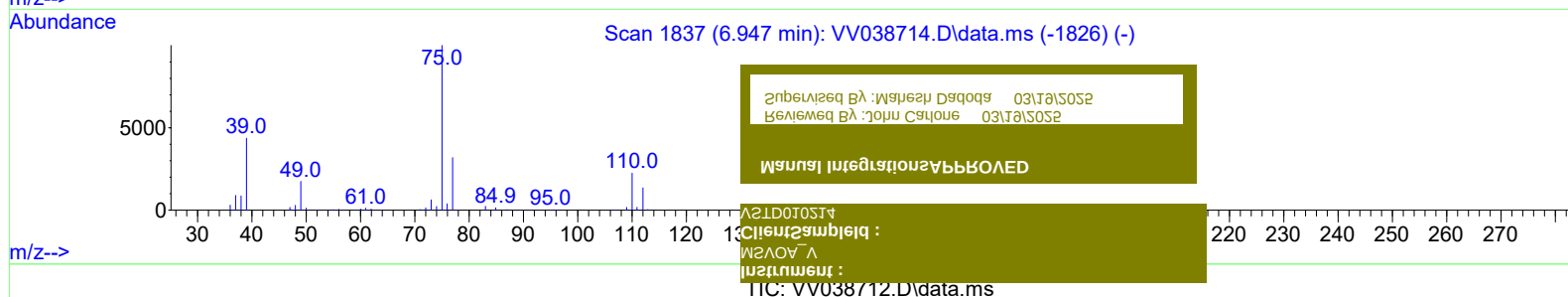
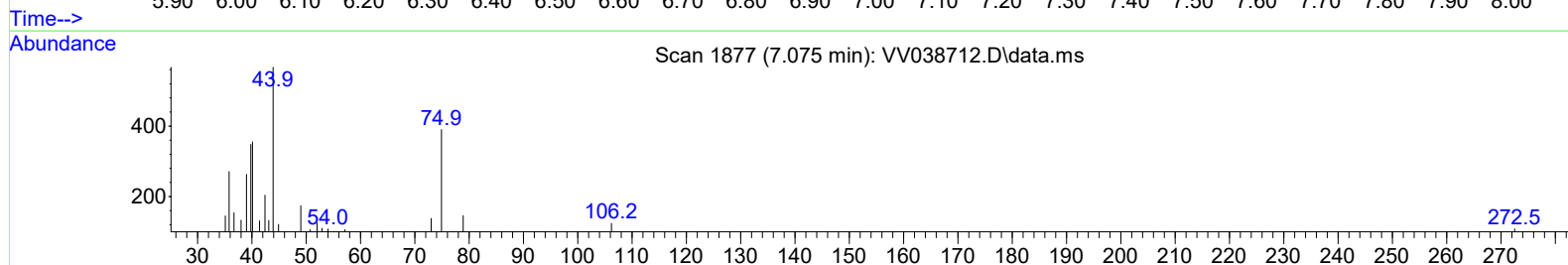
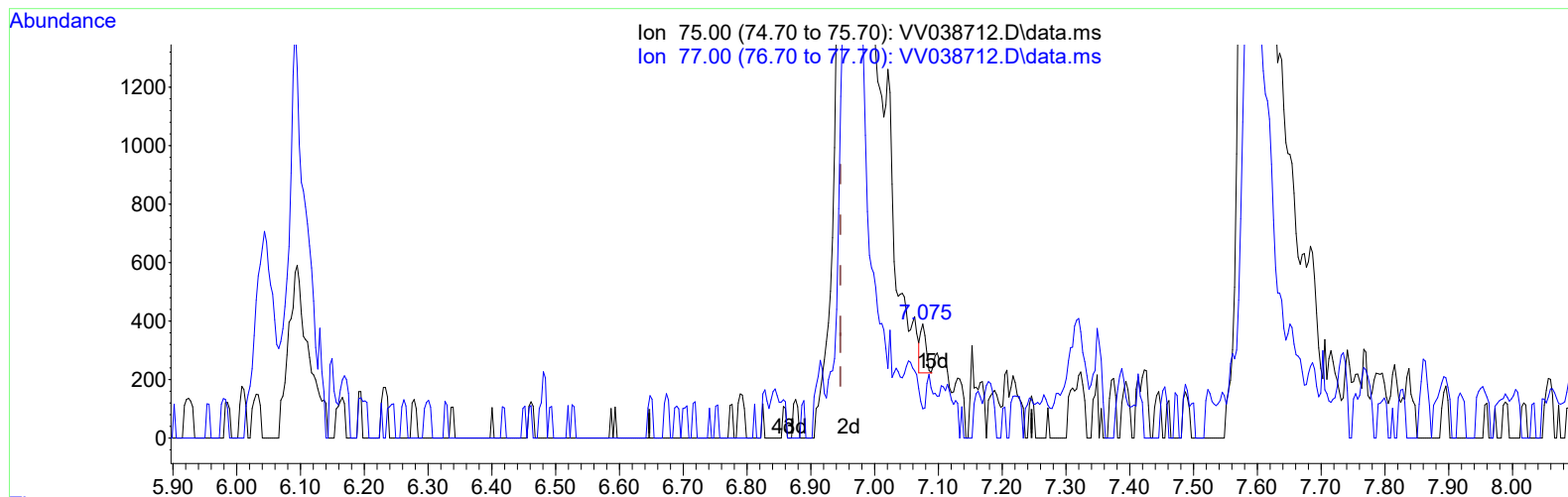
4.577min (+ 0.003) 4.73 ug/L m

response 18111

Ion	Exp%	Act%
56.00	100.00	100.00
69.00	31.00	33.35
84.00	92.10	87.49
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV031725\
Data File : VV038712.D
Acq On : 17 Mar 2025 12:34
Operator : SY/MD
Sample : VSTD005013
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 13:53:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM031724WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Mar 17 13:51:31 2025
Response via : Initial Calibration



(39) cis-1,3-Dichloropropene (T)

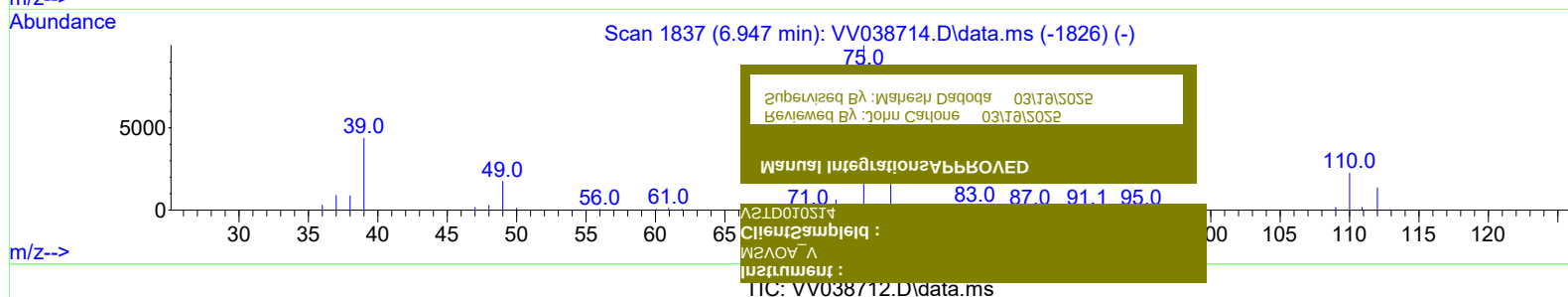
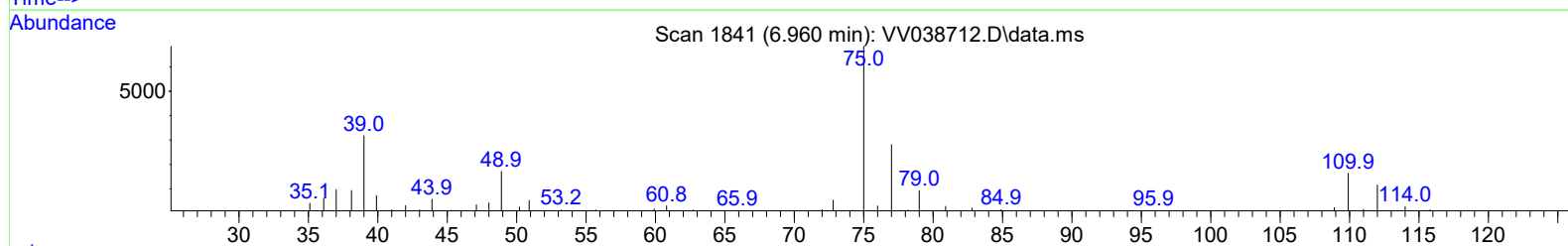
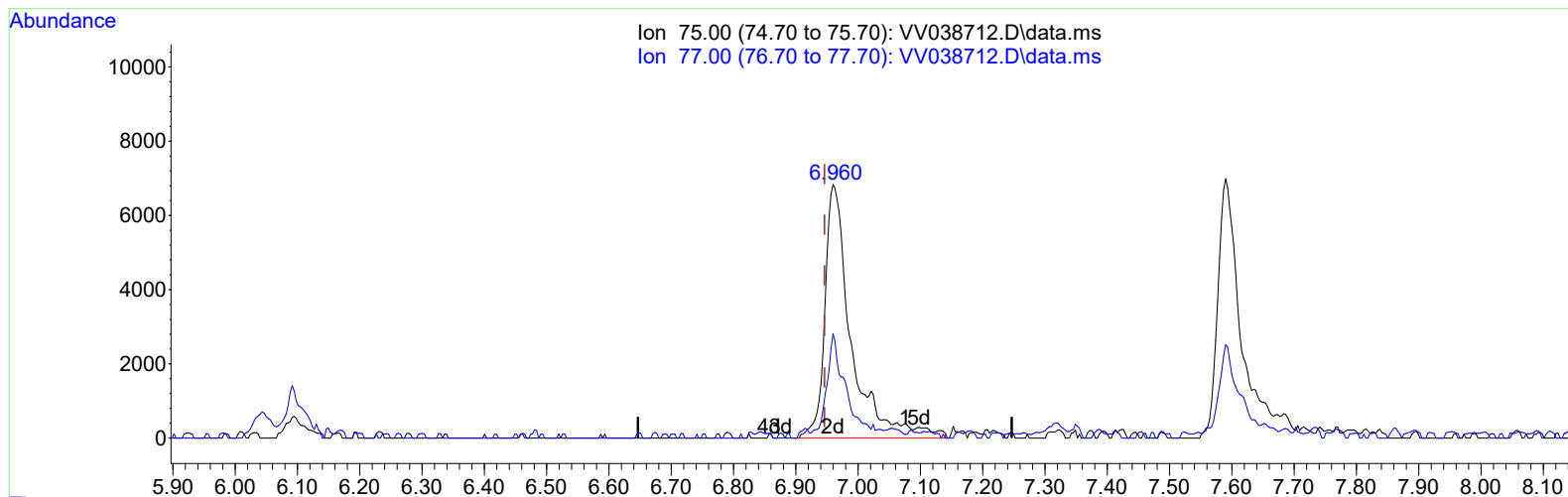
7.075min (+ 0.129) 0.02 ug/L

response 98

Ion	Exp%	Act%
75.00	100.00	100.00
77.00	31.30	25.64
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV031725\
Data File : VV038712.D
Acq On : 17 Mar 2025 12:34
Operator : SY/MD
Sample : VSTD005013
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 13:53:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM031724WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Mar 17 13:51:31 2025
Response via : Initial Calibration



(39) cis-1,3-Dichloropropene (T)

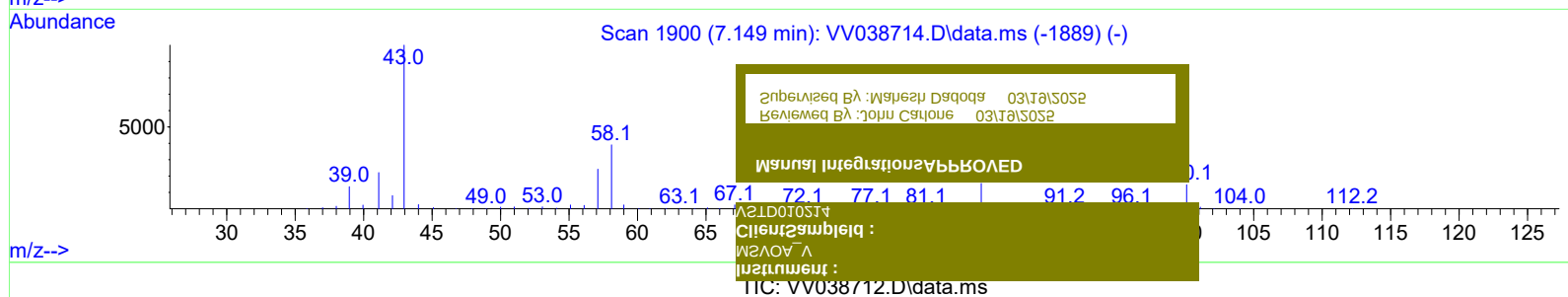
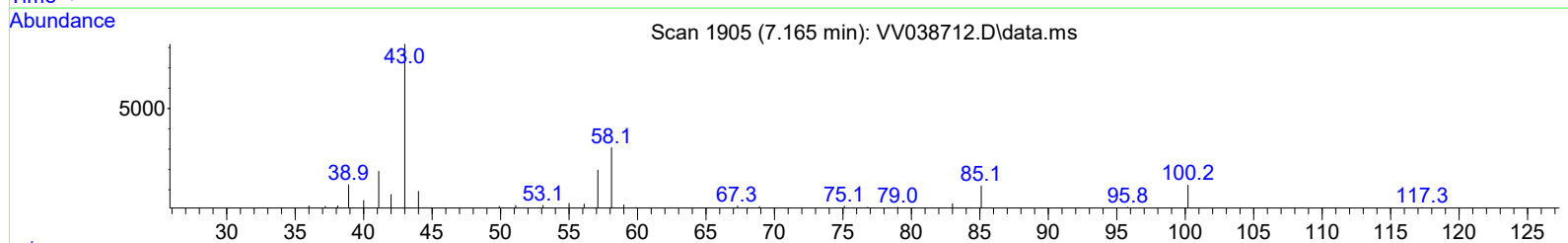
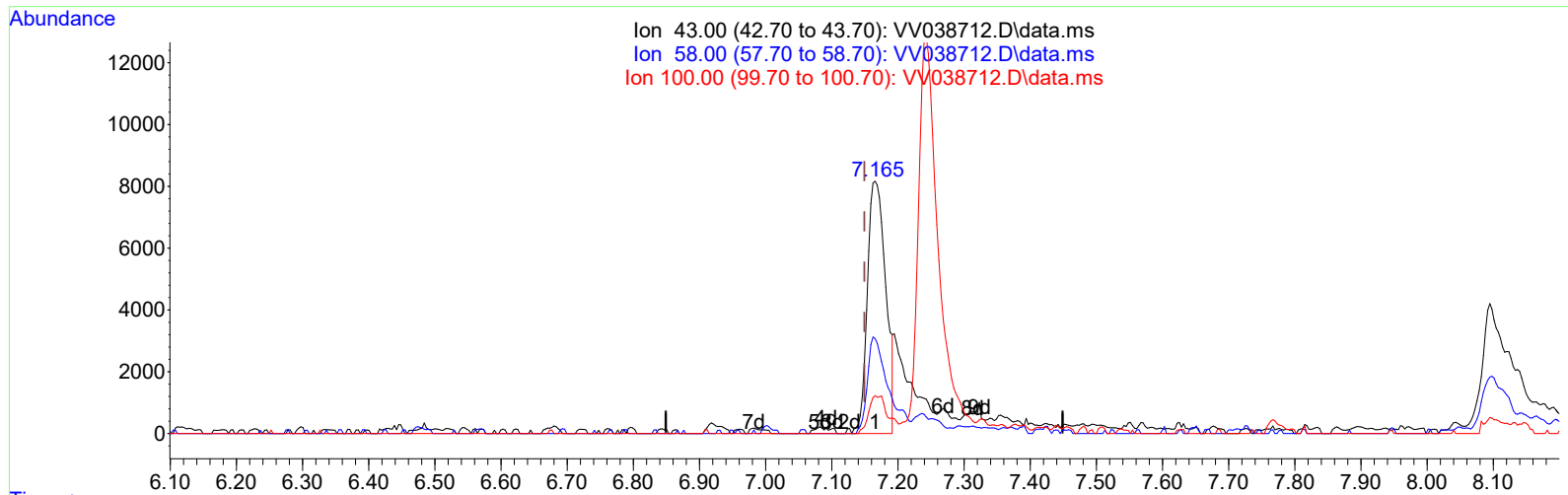
6.960min (+ 0.013) 4.64 ug/L m

response 20159

Ion	Exp%	Act%
75.00	100.00	100.00
77.00	31.30	41.10#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV031725\
Data File : VV038712.D
Acq On : 17 Mar 2025 12:34
Operator : SY/MD
Sample : VSTD005013
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 13:53:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM031724WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Mar 17 13:51:31 2025
Response via : Initial Calibration



(40) 4-Methyl-2-pentanone (T)

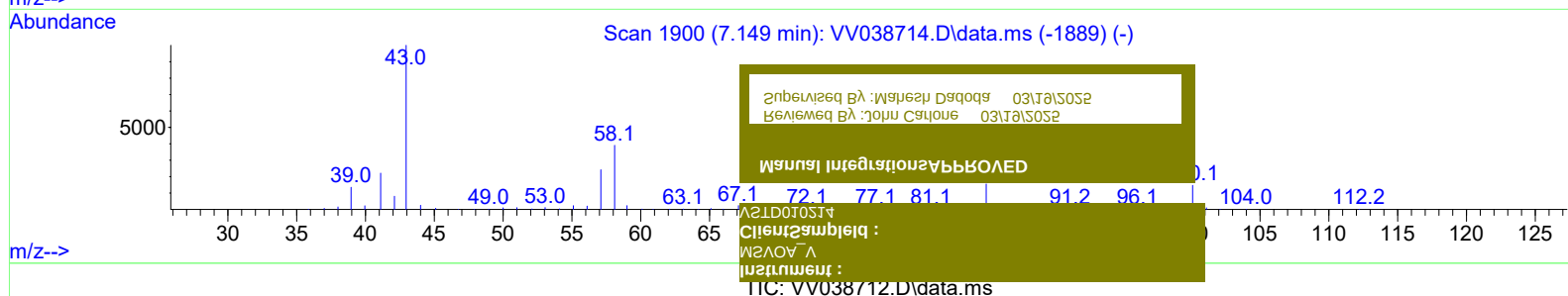
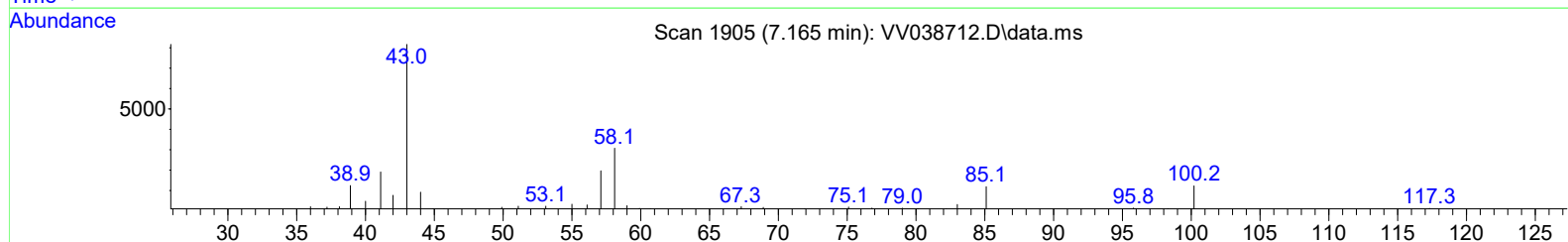
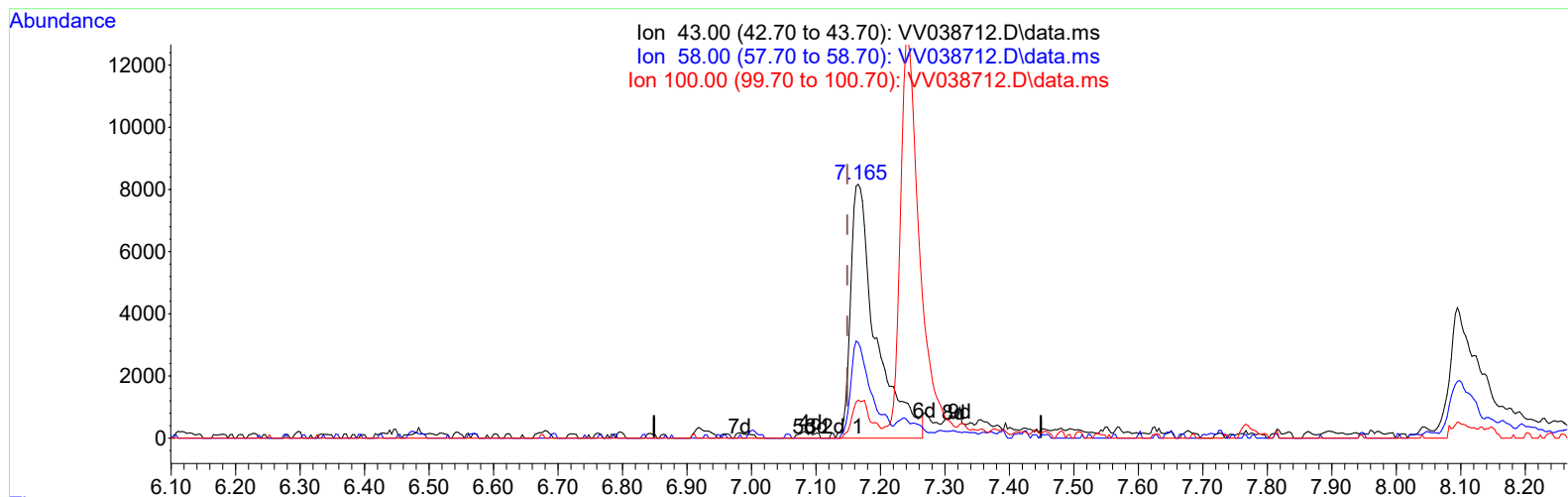
7.165min (+ 0.016) 5.04 ug/L

response 15763

Ion	Exp%	Act%
43.00	100.00	100.00
58.00	40.90	39.66
100.00	17.10	7.53#
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV031725\
Data File : VV038712.D
Acq On : 17 Mar 2025 12:34
Operator : SY/MD
Sample : VSTD005013
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 13:53:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM031724WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Mar 17 13:51:31 2025
Response via : Initial Calibration



(40) 4-Methyl-2-pentanone (T)

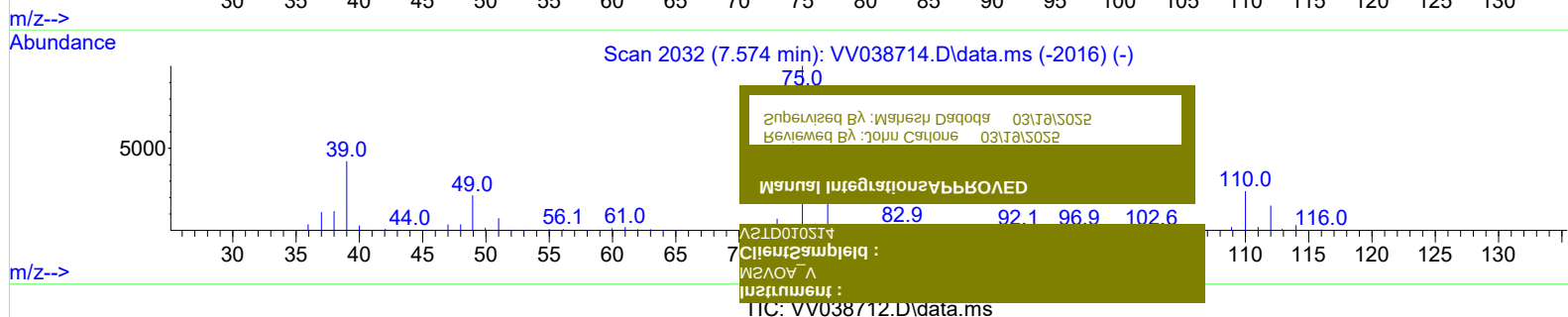
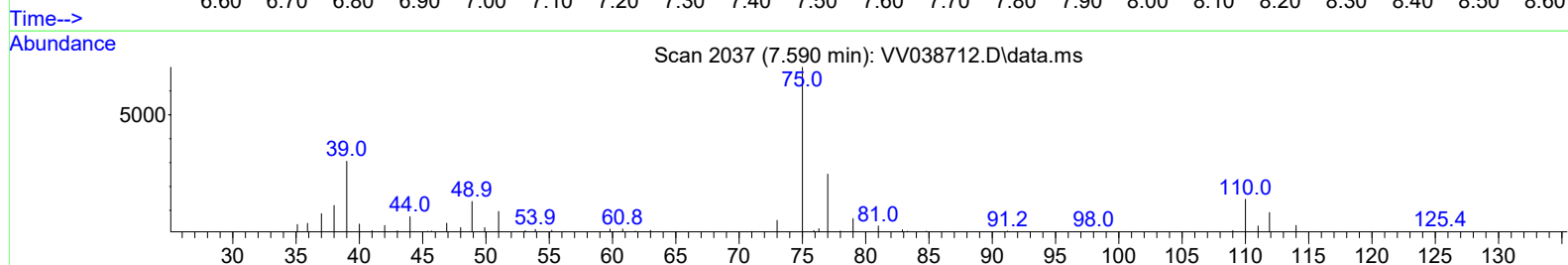
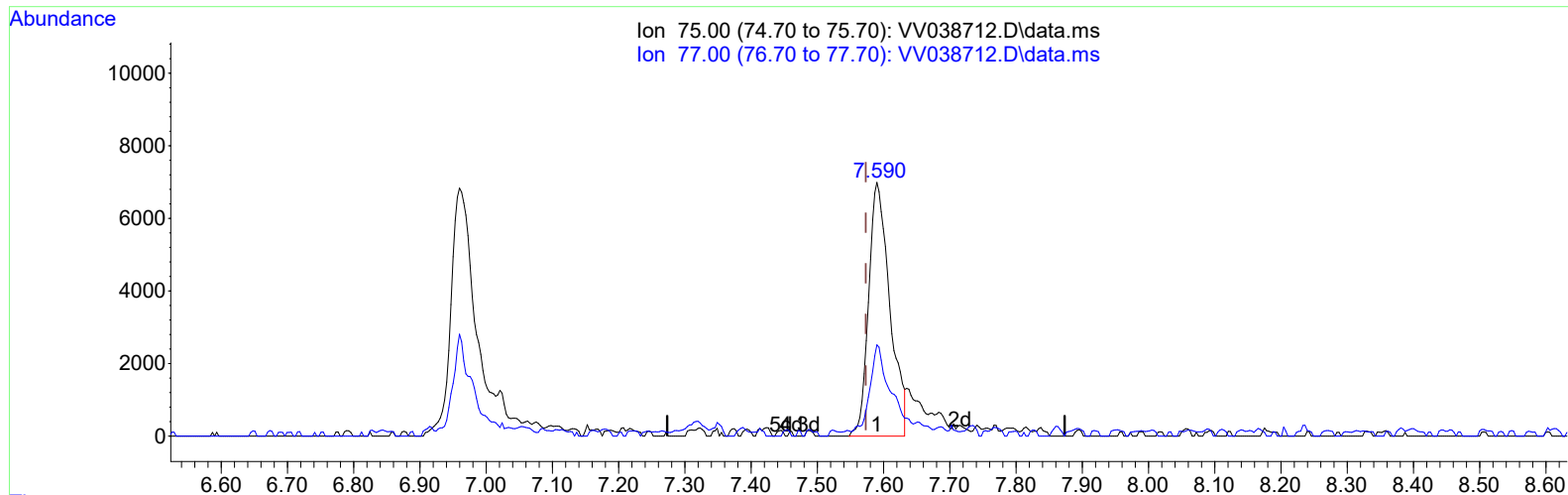
7.165min (+ 0.016) 7.14 ug/L m

response 22335

Ion	Exp%	Act%
43.00	100.00	100.00
58.00	40.90	27.99#
100.00	17.10	5.31#
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV031725\
Data File : VV038712.D
Acq On : 17 Mar 2025 12:34
Operator : SY/MD
Sample : VSTD005013
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 13:53:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM031724WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Mar 17 13:51:31 2025
Response via : Initial Calibration



(44) trans-1,3-Dichloropropene (T)

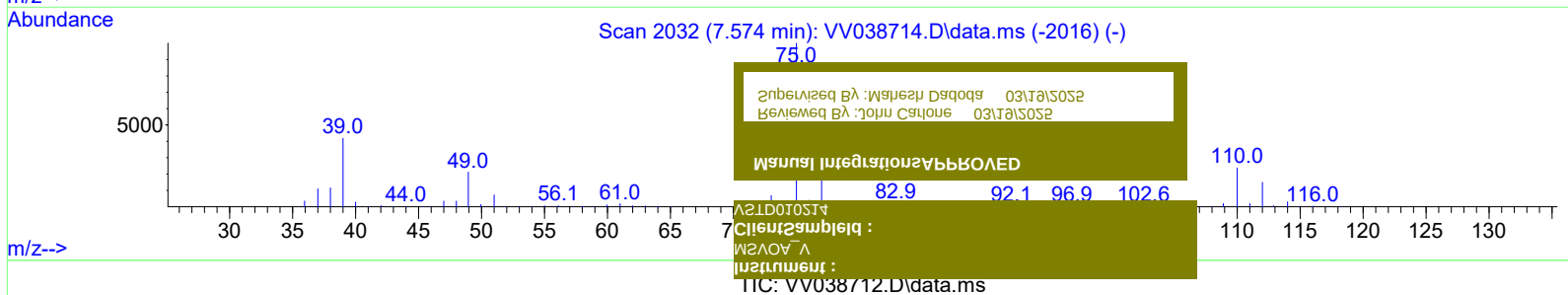
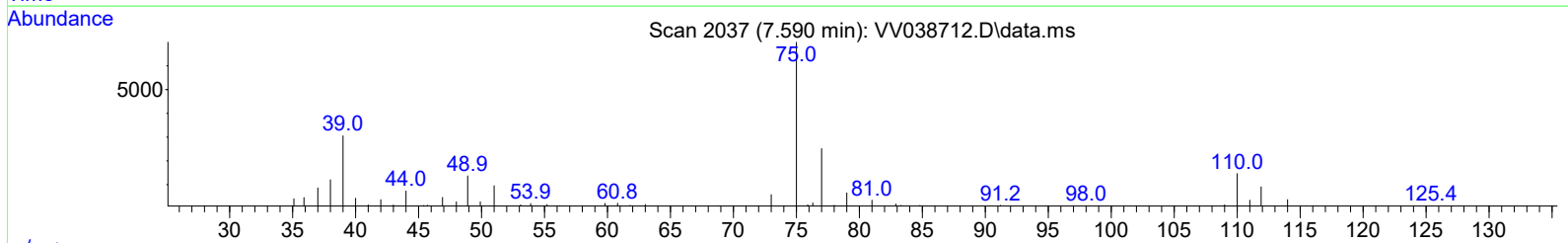
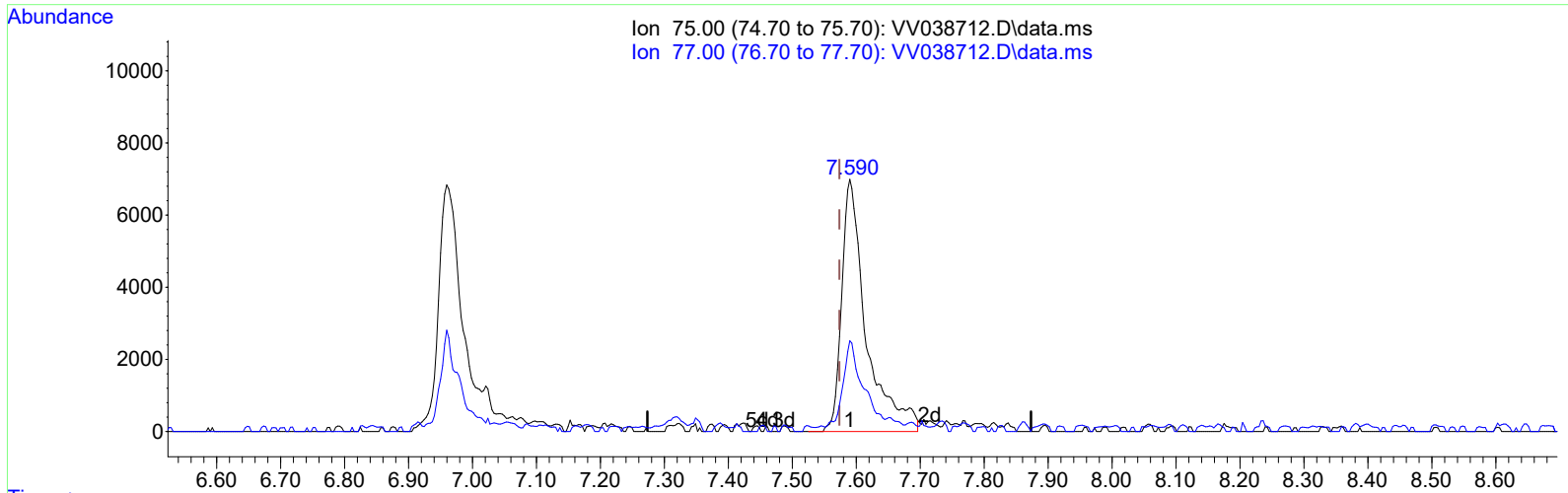
7.590min (+ 0.016) 3.71 ug/L

response 15542

Ion	Exp%	Act%
75.00	100.00	100.00
77.00	32.40	35.98
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV031725\
Data File : VV038712.D
Acq On : 17 Mar 2025 12:34
Operator : SY/MD
Sample : VSTD005013
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 13:53:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM031724WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Mar 17 13:51:31 2025
Response via : Initial Calibration



(44) trans-1,3-Dichloropropene (T)

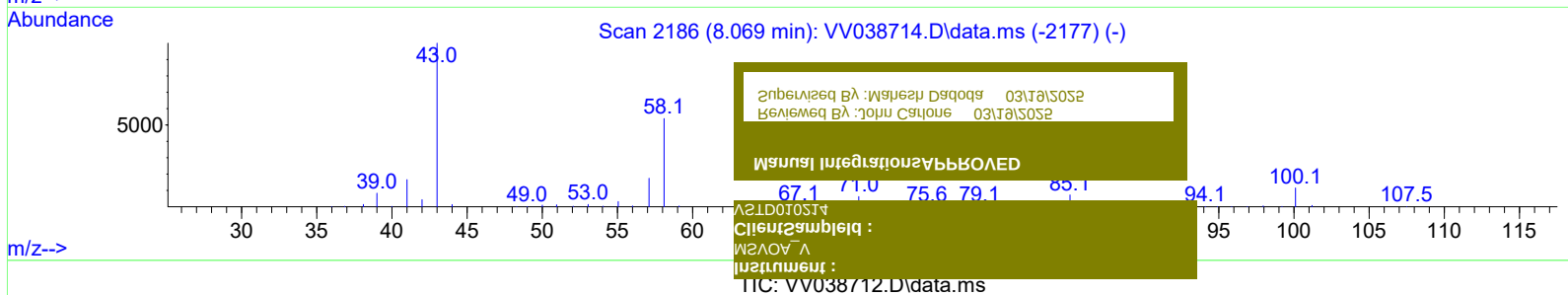
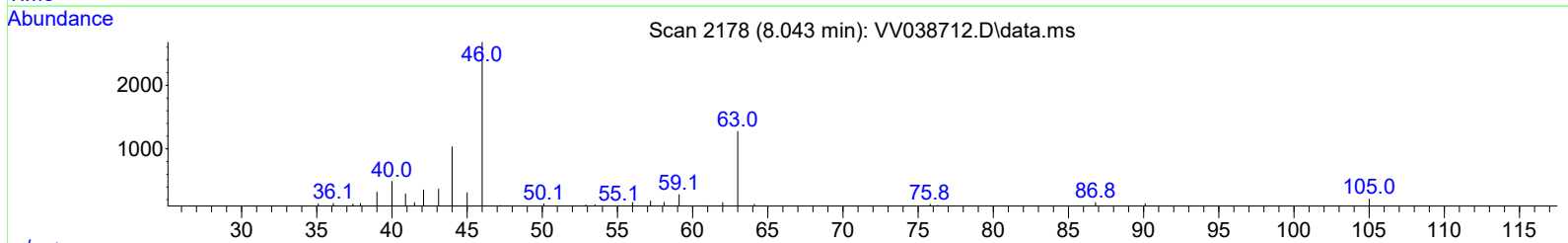
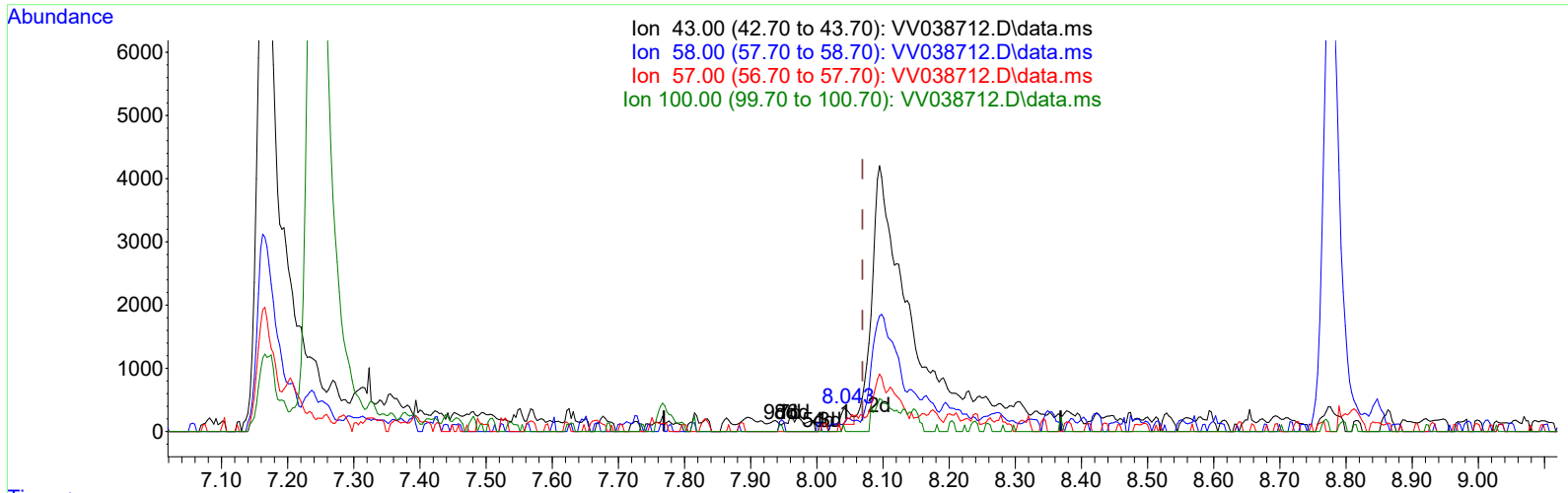
7.590min (+ 0.016) 4.42 ug/L m

response 18512

Ion	Exp%	Act%
75.00	100.00	100.00
77.00	32.40	35.98
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV031725\
Data File : VV038712.D
Acq On : 17 Mar 2025 12:34
Operator : SY/MD
Sample : VSTD005013
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 13:53:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM031724WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Mar 17 13:51:31 2025
Response via : Initial Calibration



(48) 2-Hexanone (T)

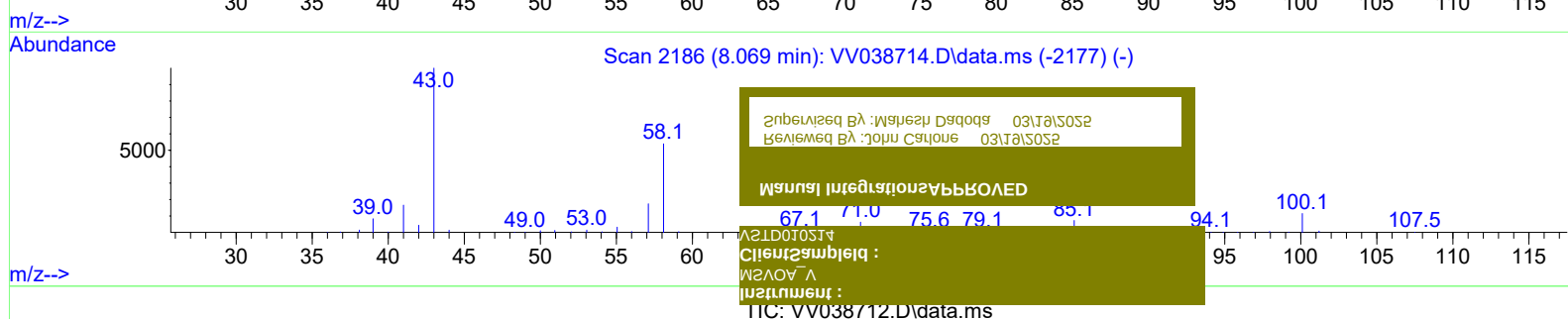
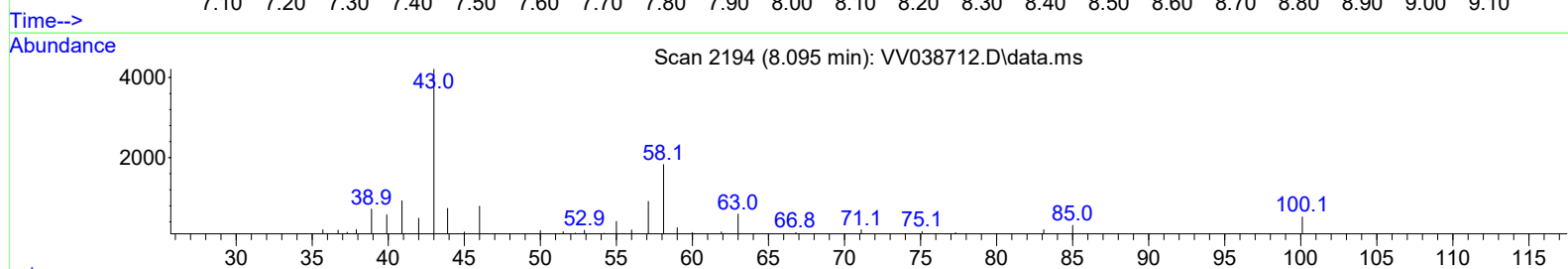
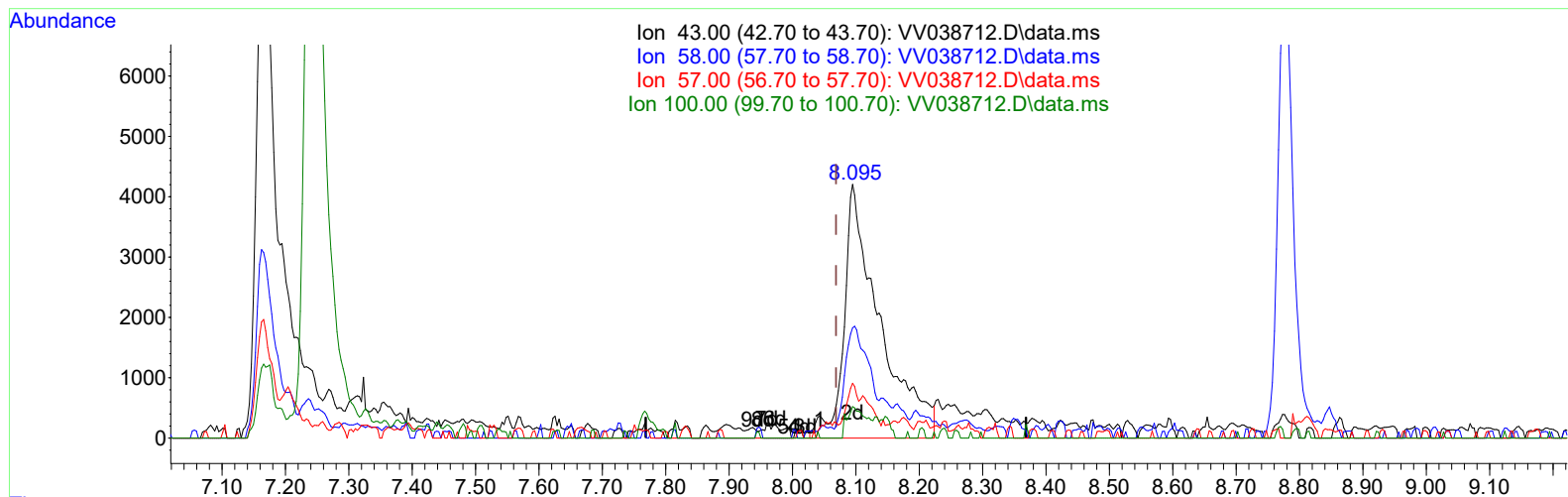
8.043min (-0.026) 0.10 ug/L

response 257

Ion	Exp%	Act%
43.00	100.00	100.00
58.00	60.00	28.40#
57.00	19.40	127.24#
100.00	13.70	0.00#

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV031725\
Data File : VV038712.D
Acq On : 17 Mar 2025 12:34
Operator : SY/MD
Sample : VSTD005013
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 13:53:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM031724WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Mar 17 13:51:31 2025
Response via : Initial Calibration



(48) 2-Hexanone (T)

8.095min (+ 0.026) 6.28 ug/L m

response 16404

Ion	Exp%	Act%
43.00	100.00	100.00
58.00	60.00	0.45#
57.00	19.40	1.99#
100.00	13.70	0.00#

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV031725\
 Data File : VV038712.D
 Acq On : 17 Mar 2025 12:34
 Operator : SY/MD
 Sample : VSTD005013
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 13:53:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM031724WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Mar 17 13:51:31 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	5.526	114	331269	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.776	117	356379	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.178	152	172875	50.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	17813	6.44	ug/L	0.00
7) Chloroethane-d5	1.529	69	15682	6.72	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.056	65	8762	7.47	ug/L	0.00
21) 2-Butanone-d5	3.876	46	11246m	8.54	ug/L	0.09
24) Chloroform-d	4.249	84	31918	6.34	ug/L	0.00
26) 1,2-Dichloroethane-d4	4.947	65	17398	5.85	ug/L	0.01
32) Benzene-d6	4.960	84	54748	5.33	ug/L	0.00
36) 1,2-Dichloropropane-d6	5.989	67	17788	5.57	ug/L	0.00
41) Toluene-d8	7.243	98	42112	4.53	ug/L	0.00
43) trans-1,3-Dichloroprop...	7.567	79	5935	3.84	ug/L	0.02
47) 2-Hexanone-d5	8.050	63	4808	4.93	ug/L	0.03
56) 1,1,2,2-Tetrachloroeth...	10.146	84	22893	5.13	ug/L	0.00
66) 1,2-Dichlorobenzene-d4	11.554	152	16831	5.04	ug/L	0.00
Target Compounds						
2) Dichlorodifluoromethane	1.105	85	13557	4.46	ug/L	98
3) Chloromethane	1.217	50	17708	5.61	ug/L	99
5) Vinyl chloride	1.281	62	18322	5.69	ug/L #	1
6) Bromomethane	1.484	94	9082	4.55	ug/L	95
8) Chloroethane	1.548	64	11759	5.77	ug/L	97
9) Trichlorofluoromethane	1.709	101	22970	5.41	ug/L	94
10) 1,1,2-Trichloro-1,2,2-...	2.063	101	14692	Submitted By: Matthew Daboda 03/17/2025 Reviewed By: John Canone 03/17/2025 Manual Integrations APPROVED AS1010101 Client Sample ID : MSVOA_V Instrument :		
12) 1,1-Dichloroethene	2.066	96	12783			
13) Acetone	2.111	43	13231			
14) Carbon disulfide	2.236	76	40366			
15) Methyl Acetate	2.381	43	11253	4.79	ug/L	90
16) Methylene chloride	2.442	84	17760	AS1010101 Client Sample ID : MSVOA_V Instrument :		
17) trans-1,2-Dichloroethene	2.693	96	13202			
18) Methyl tert-butyl Ether	2.696	73	33382			
19) 1,1-Dichloroethane	3.108	63	28685	6.16	ug/L	99
20) cis-1,2-Dichloroethene	3.818	96	13583m	5.09	ug/L	
22) 2-Butanone	3.947	43	14802m	8.57	ug/L	
23) Bromochloromethane	4.146	128	7885	5.43	ug/L #	84
25) Chloroform	4.275	83	28511	5.87	ug/L	99
27) 1,2-Dichloroethane	5.050	62	16805	4.74	ug/L	100
29) Cyclohexane	4.577	56	18111m	4.73	ug/L	
30) 1,1,1-Trichloroethane	4.503	97	23535	5.23	ug/L	93
31) Carbon tetrachloride	4.728	117	20282	5.12	ug/L	98
33) Benzene	5.008	78	51062	4.75	ug/L	100
34) Trichloroethene	5.834	95	15057	5.24	ug/L	86
35) Methylcyclohexane	6.043	83	18449	4.47	ug/L	91
37) 1,2-Dichloropropane	6.095	63	14013	5.01	ug/L #	95
38) Bromodichloromethane	6.432	83	20992	5.41	ug/L	98
39) cis-1,3-Dichloropropene	6.960	75	20159m	4.64	ug/L	
40) 4-Methyl-2-pentanone	7.165	43	22335m	7.14	ug/L	
42) Toluene	7.313	91	45655	4.09	ug/L	98
44) trans-1,3-Dichloropropene	7.590	75	18512m	4.42	ug/L	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV031725\
 Data File : VV038712.D
 Acq On : 17 Mar 2025 12:34
 Operator : SY/MD
 Sample : VSTD005013
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 17 13:53:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM031724WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Mar 17 13:51:31 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,1,2-Trichloroethane	7.770	97	14849	5.12	ug/L	96
46) Tetrachloroethene	7.902	164	10389	4.68	ug/L	97
48) 2-Hexanone	8.095	43	16404m	6.28	ug/L	
49) Dibromochloromethane	8.172	129	14453	4.83	ug/L	99
50) 1,2-Dibromoethane	8.284	107	13900	4.54	ug/L	85
51) Chlorobenzene	8.812	112	38514	5.02	ug/L	96
52) Ethylbenzene	8.944	91	52744	4.40	ug/L	98
53) m,p-Xylene	9.069	106	17031	3.75	ug/L	99
54) o-Xylene	9.474	106	17669	4.04	ug/L	99
55) Styrene	9.497	104	27472	3.58	ug/L	97
57) 1,1,2,2-Tetrachloroethane	10.172	83	21966	4.87	ug/L	98
59) Bromoform	9.664	173	7981	4.29	ug/L #	97
60) Isopropylbenzene	9.860	105	46062	4.36	ug/L	97
61) 1,2,3-Trichloropropane	10.204	75	14827	4.93	ug/L	96
62) 1,3,5-Trimethylbenzene	10.471	105	33014	3.89	ug/L	98
63) 1,2,4-Trimethylbenzene	10.847	105	34232	4.11	ug/L	98
64) 1,3-Dichlorobenzene	11.117	146	24373	4.49	ug/L	96
65) 1,4-Dichlorobenzene	11.201	146	28486	4.94	ug/L	93
67) 1,2-Dichlorobenzene	11.574	146	26056	4.71	ug/L	95
68) 1,2-Dibromo-3-chloropr...	12.365	75	4047	5.10	ug/L #	78
69) 1,3,5-Trichlorobenzene	12.580	180	15997	4.32	ug/L	98
70) 1,2,4-trichlorobenzene	13.197	180	11512	3.69	ug/L	96
71) Naphthalene	13.442	128	26287	3.11	ug/L #	92
72) 1,2,3-Trichlorobenzene	13.676	180	11015	3.60	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Supervised By : Marybeth DeBodra 03/17/2025
 Reviewed By : John Carione 03/17/2025

Manual Integrations APPROVED

Client Sampled :
 MSVOA_V
 Instrument :