

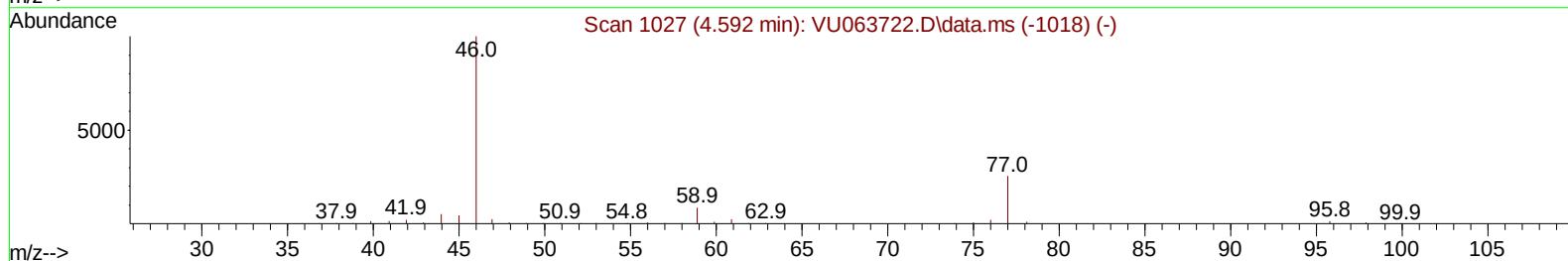
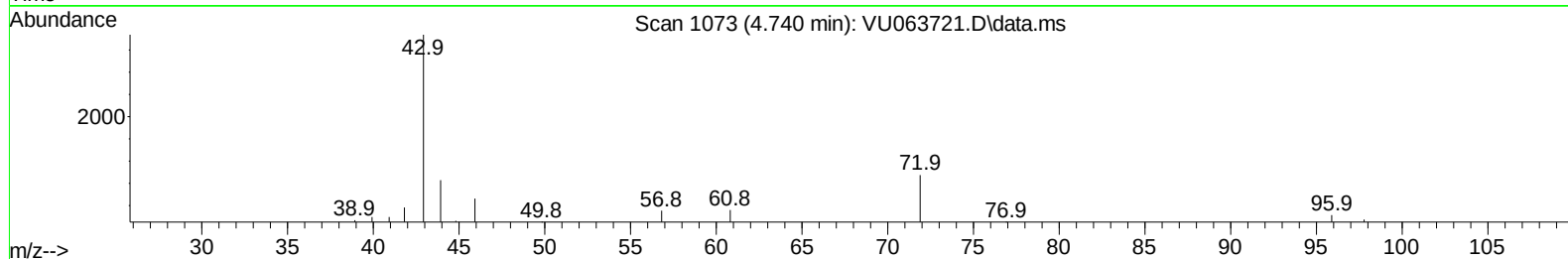
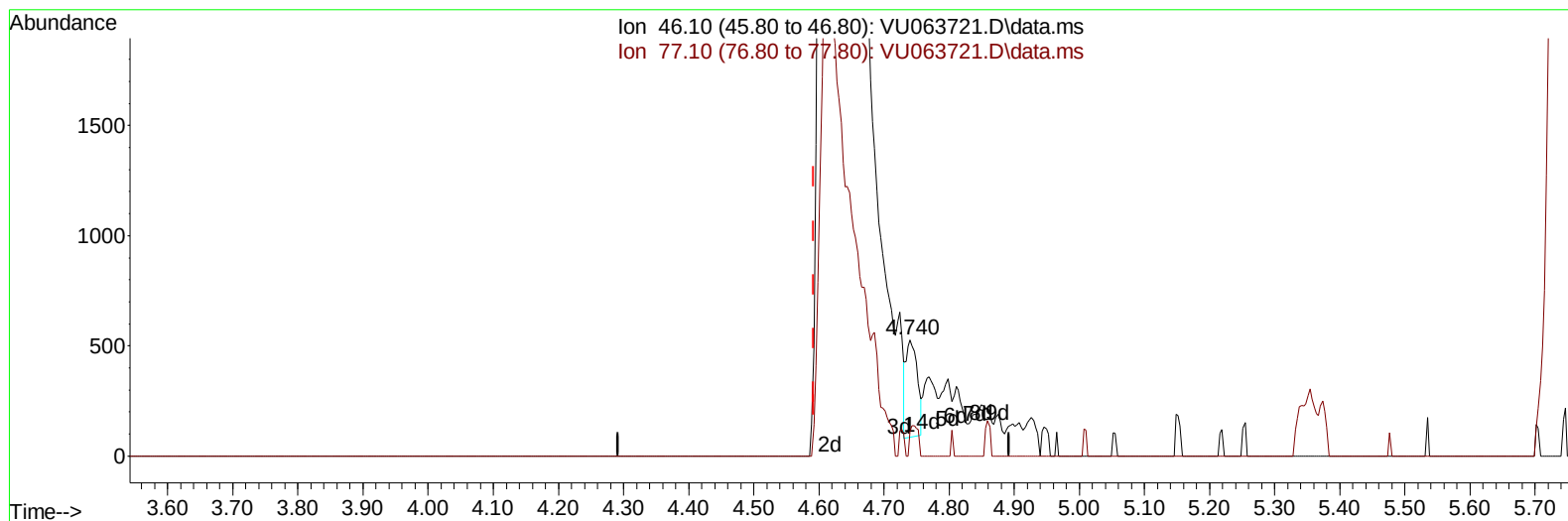
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111725\
Data File : VU063721.D
Acq On : 17 Nov 2025 11:43
Operator : MD/SY
Sample : VSTD01046
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD010046

Manual Integrations
APPROVED

MMDadoda
11/19/2025 11:19:09 AM

Quant Time: Nov 18 01:27:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM111725wMA.M
Quant Title : VOC Analysis
QLast Update : Tue Nov 18 01:25:43 2025
Response via : Initial Calibration



TIC: VU063721.D\data.ms

(21) 2-Butanone-d5 (S)

4.740min (+ 0.148) 0.35 ug/L

response 530

Ion	Exp%	Act%
46.10	100.00	100.00
77.10	24.90	23.02
0.00	0.00	0.00
0.00	0.00	0.00

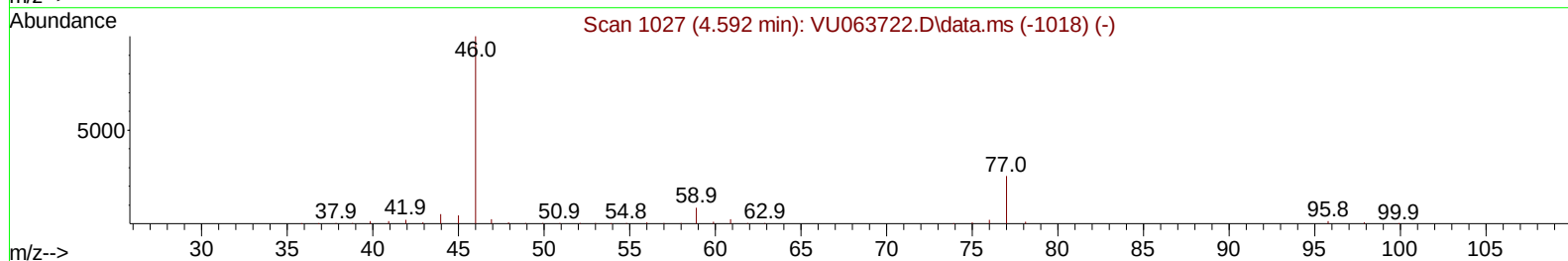
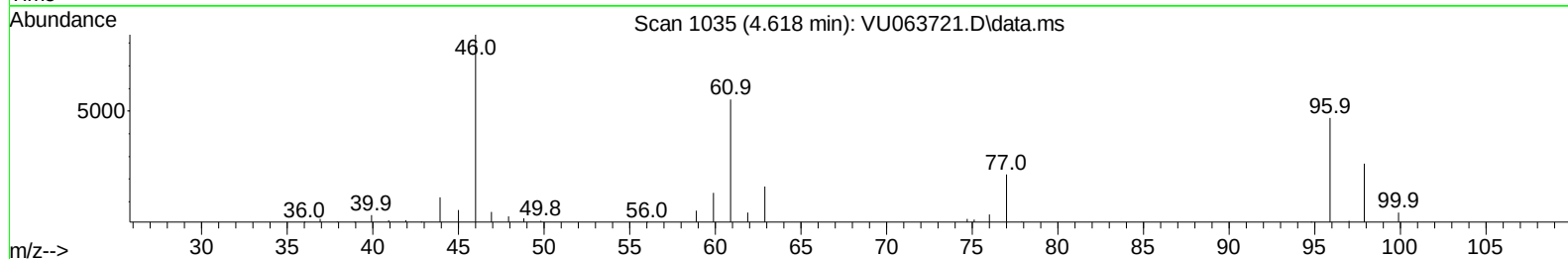
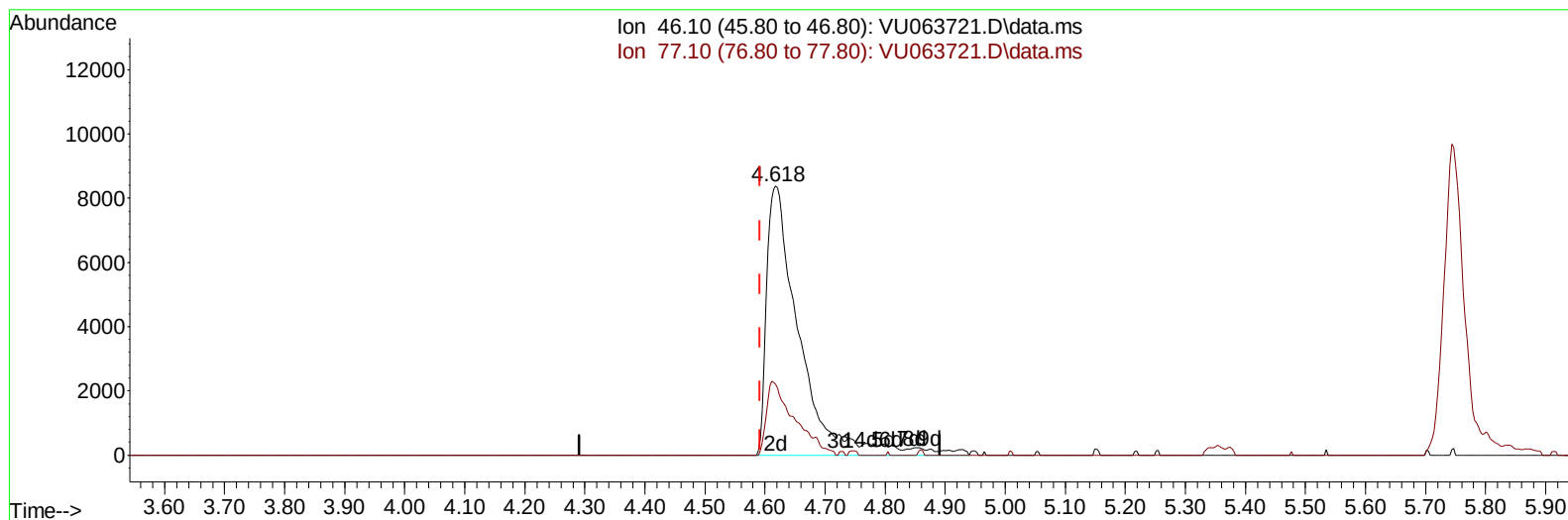
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(21) 2-Butanone-d5 (S)

4.618min (+ 0.026) 20.79 ug/L m

response 31903

Ion	Exp%	Act%
46.10	100.00	100.00
77.10	24.90	0.38#
0.00	0.00	0.00
0.00	0.00	0.00

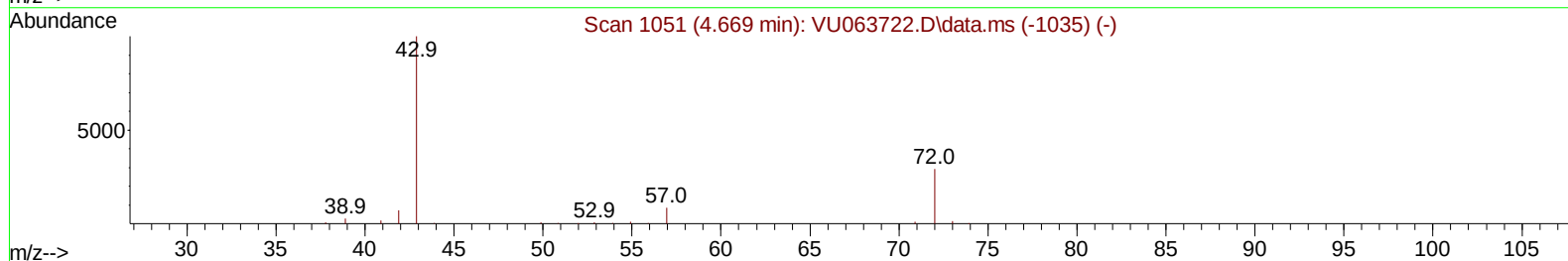
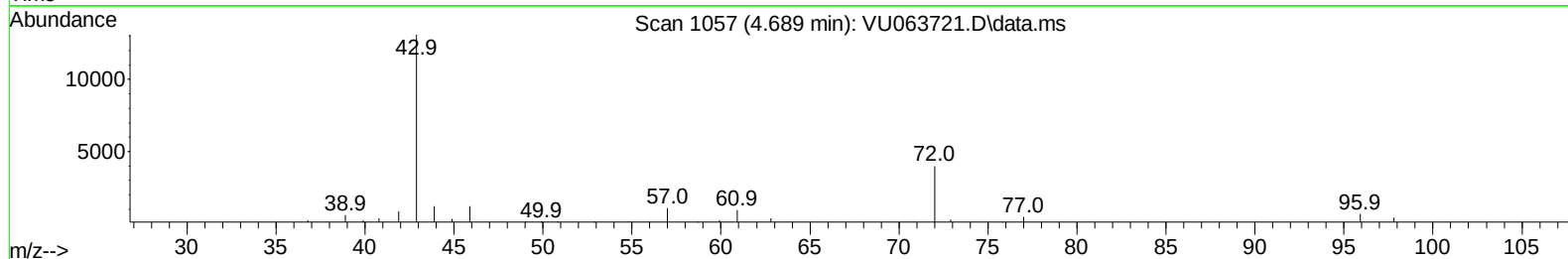
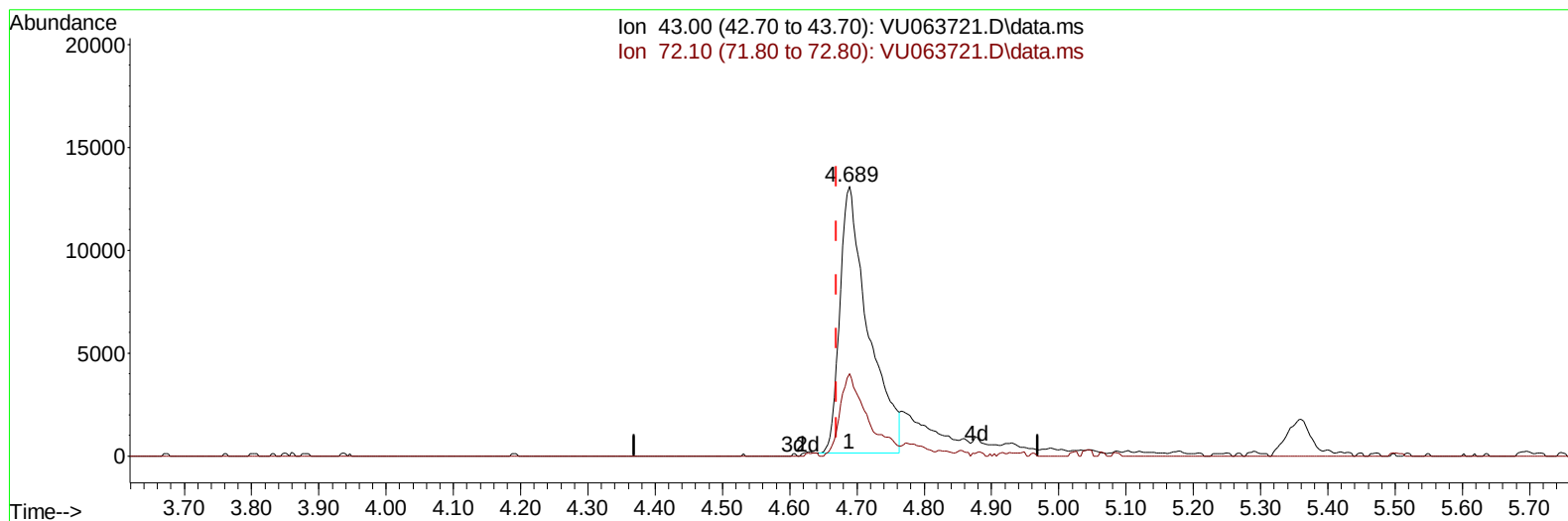
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111725\
Data File : VU063721.D
Acq On : 17 Nov 2025 11:43
Operator : MD/SY
Sample : VSTD01046
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
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Manual Integrations
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TIC: VU063721.D\data.ms

(22) 2-Butanone (T)

4.689min (+ 0.019) 17.71 ug/L

response 38156

Ion	Exp%	Act%
43.00	100.00	100.00
72.10	27.10	29.70
0.00	0.00	0.00
0.00	0.00	0.00

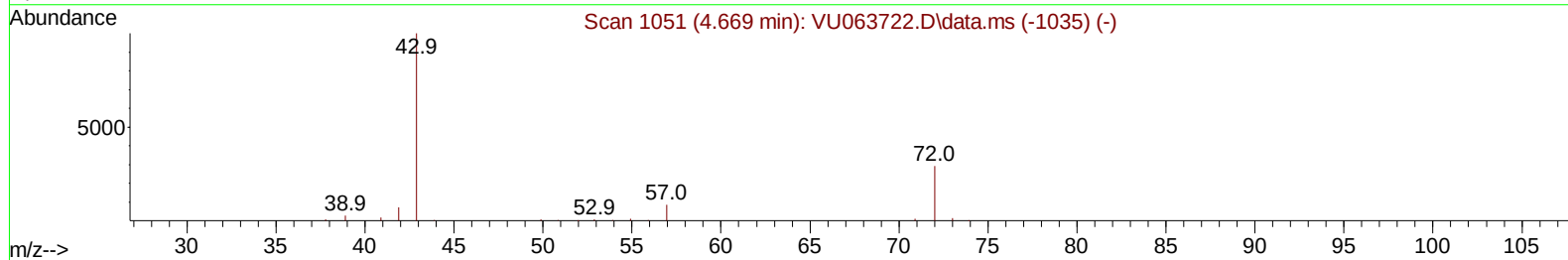
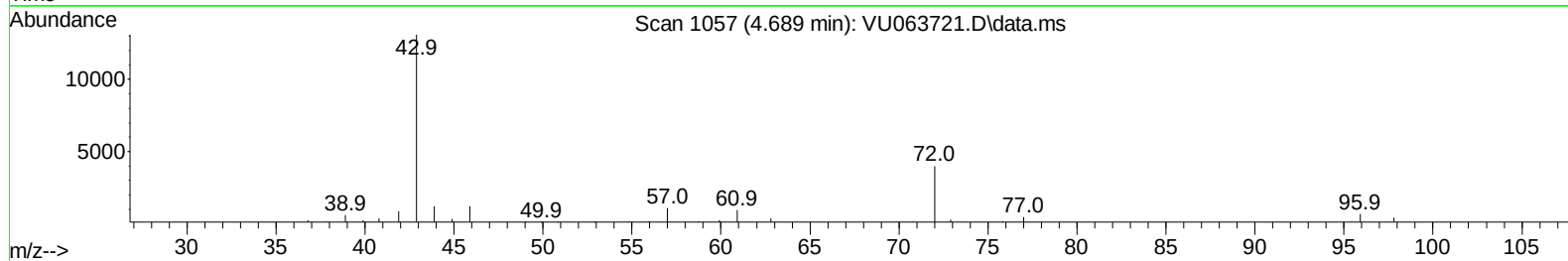
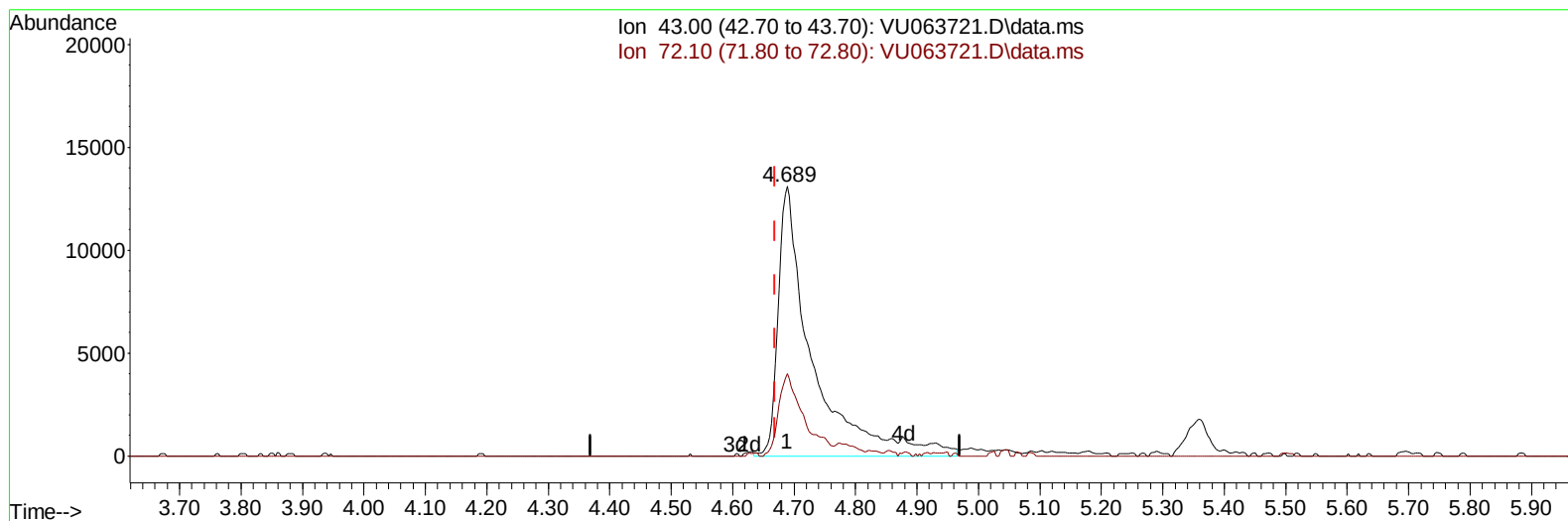
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TIC: VU063721.D\data.ms

(22) 2-Butanone (T)

4.689min (+ 0.019) 23.41 ug/L m

response 50440

Ion	Exp%	Act%
43.00	100.00	100.00
72.10	27.10	22.46
0.00	0.00	0.00
0.00	0.00	0.00

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 ALS Vial : 3 Sample Multiplier: 1

Instrument :
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 ClientSampleId :
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Manual Integrations
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 Quant Title : VOC Analysis
 QLast Update : Tue Nov 18 01:25:43 2025
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Difluorobenzene	6.222	114	328405	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.393	117	321782	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.788	152	162988	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.586	65	29106	12.469	ug/L	0.00
7) Chloroethane-d5	1.895	69	23129	11.985	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.544	63	50483	12.272	ug/L	0.00
21) 2-Butanone-d5	4.618	46	31903m	20.790	ug/L	0.03
24) Chloroform-d	5.033	84	47211	11.071	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.676	65	32548	11.794	ug/L	0.00
32) Benzene-d6	5.698	84	94897	11.838	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.663	67	28138	11.034	ug/L	0.00
41) Toluene-d8	7.872	98	91517	12.135	ug/L	0.00
43) trans-1,3-Dichloroprop...	8.158	79	10563	10.989	ug/L	0.00
47) 2-Hexanone-d5	8.618	63	17720	18.682	ug/L	0.00
56) 1,1,2,2-Tetrachloroeth...	10.730	84	39689	10.178	ug/L	0.00
66) 1,2-Dichlorobenzene-d4	12.171	152	31071	11.096	ug/L	0.00
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.374	85	19310	10.795	ug/L	98
3) Chloromethane	1.509	50	22754	10.213	ug/L	100
5) Vinyl chloride	1.589	62	25980	9.743	ug/L	99
6) Bromomethane	1.840	94	15931	9.488	ug/L	98
8) Chloroethane	1.917	64	16478	9.142	ug/L	93
9) Trichlorofluoromethane	2.120	101	40129	10.218	ug/L	100
10) 1,1,2-Trichloro-1,2,2-...	2.557	101	24490	11.128	ug/L	96
12) 1,1-Dichloroethene	2.557	96	21942	11.155	ug/L	92
13) Acetone	2.605	43	45662	23.888	ug/L	100
14) Carbon disulfide	2.769	76	54952	10.771	ug/L	98
15) Methyl Acetate	2.930	43	25484	9.495	ug/L	96
16) Methylene chloride	3.017	84	24517	9.986	ug/L	96
17) trans-1,2-Dichloroethene	3.329	96	22194	10.441	ug/L	96
18) Methyl tert-butyl Ether	3.338	73	76588	11.061	ug/L	96
19) 1,1-Dichloroethane	3.837	63	44498	10.501	ug/L	99
20) cis-1,2-Dichloroethene	4.640	96	26311	10.628	ug/L	95
22) 2-Butanone	4.689	43	50440m	23.414	ug/L	
23) Bromochloromethane	4.946	128	13068	10.133	ug/L	96
25) Chloroform	5.055	83	47939	10.580	ug/L	98
27) 1,2-Dichloroethane	5.769	62	38491	10.384	ug/L	99
29) Cyclohexane	5.354	56	40326	10.591	ug/L	97
30) 1,1,1-Trichloroethane	5.287	97	39572	10.944	ug/L	99
31) Carbon tetrachloride	5.492	117	29800	10.347	ug/L	94
33) Benzene	5.746	78	96290	10.315	ug/L	100
34) Trichloroethene	6.518	95	28351	10.662	ug/L	98
35) Methylcyclohexane	6.737	83	41970	11.034	ug/L	99
37) 1,2-Dichloropropane	6.766	63	24426	9.459	ug/L #	93
38) Bromodichloromethane	7.078	83	33582	10.738	ug/L	93
39) cis-1,3-Dichloropropene	7.582	75	36028	10.610	ug/L	97
40) 4-Methyl-2-pentanone	7.769	43	70394	18.967	ug/L	99
42) Toluene	7.946	91	107925	10.465	ug/L	100

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 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) trans-1,3-Dichloropropene	8.187	75	30176	10.244	ug/L	99
45) 1,1,2-Trichloroethane	8.373	97	26549	10.505	ug/L	99
46) Tetrachloroethene	8.524	164	21878	11.256	ug/L	93
48) 2-Hexanone	8.669	43	53037	18.615	ug/L	95
49) Dibromochloromethane	8.782	129	24409	10.628	ug/L	98
50) 1,2-Dibromoethane	8.897	107	26999	10.283	ug/L	96
51) Chlorobenzene	9.422	112	72750	10.620	ug/L	97
52) Ethylbenzene	9.547	91	122643	10.676	ug/L	97
53) m,p-Xylene	9.669	106	46215	10.695	ug/L	98
54) o-Xylene	10.077	106	45102	10.601	ug/L	95
55) Styrene	10.094	104	71403	10.242	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.756	83	43410	10.227	ug/L	99
59) Bromoform	10.264	173	16799	10.290	ug/L	97
60) 1,2,3-Trichloropropane	10.798	75	36279	10.609	ug/L	96
61) Isopropylbenzene	10.460	105	123547	10.979	ug/L	99
62) 1,3,5-Trimethylbenzene	11.065	105	99977	10.828	ug/L	97
63) 1,2,4-Trimethylbenzene	11.444	105	92420	10.356	ug/L	99
64) 1,3-Dichlorobenzene	11.724	146	55308	10.819	ug/L	97
65) 1,4-Dichlorobenzene	11.811	146	58362	11.311	ug/L	98
67) 1,2-Dichlorobenzene	12.190	146	53734	10.736	ug/L	94
68) 1,2-Dibromo-3-chloropr...	12.968	75	8089	10.254	ug/L	95
69) 1,3,5-Trichlorobenzene	13.193	180	36328	10.184	ug/L	99
70) 1,2,4-trichlorobenzene	13.814	180	29188	9.932	ug/L	98
71) Naphthalene	14.061	128	75167	9.411	ug/L	99
72) 1,2,3-Trichlorobenzene	14.302	180	26864	9.538	ug/L	99

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

MMDadoda
11/19/2025 11:19:09 AM

Abundance

TIC: VU063721.D\data.ms

Time-->

700000

650000

600000

550000

500000

450000

400000

350000

300000

250000

200000

150000

100000

50000

0

2.00

3.00

4.00

5.00

6.00

7.00

8.00

9.00

10.00

11.00

12.00

13.00

14.00

15.00

16.00

17.00

Dichlorodifluoromethane, T

Chloromethane, T

Chloroethane, T

Trichlorofluoromethane, T

Acetone, T

Carbon disulfide, T

Methyl Acetate, T

Methylene chloride, T

Methyl isobutyl ether, T

1,1-Dichloroethane, T

2,2-Dichloropropane, T

1,1,1-Trichloroethane, T

1,1,1-Trichloroethane, T

Carbon tetrachloride, T

1,2-Dichloroethane, T

1,2-Dichloroethane, T

1,4-Difluorobenzene, I

Trichloroethene, T

1,2-Dichlorobenzene, T

1,2-Dichlorobenzene, T

Hexane, T

Bromodichloromethane, T

cis-1,3-Dichloropropene, T

4-Methyltoluene, T

trans-1,3-Dichloropropene, T

1,1,2-Trichloroethane, T

1,1,2-Trichloroethane, T

2-Hexanone, T

1,2-Dichloroethane, T

1,2-Dichloroethane, T

Chlorobenzene, T

Chlorobenzene, I

m,p-Xylene, I

Styrene, T

Bromoform, T

Isopropylbenzene, T

1,1,2,2-Tetrachloroethane, T

1,3,5-Trimethylbenzene, T

1,2,4-Trimethylbenzene, T

1,3-Dichlorobenzene, T

1,4-Dichlorobenzene, T

1,2-Dichlorobenzene, T

1,2-Dibromo-3-chloropropane, T

1,3,5-Trichlorobenzene

1,2,4-trichlorobenzene, T

Naphthalene

1,2,3-Trichlorobenzene, T