

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061325\
 Data File : VX046676.D
 Acq On : 13 Jun 2025 09:58
 Operator : JC/MD
 Sample : VX0613WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0613WBS01

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone
 06/16/2025

Supervised By :Mahesh
 Dadoda
 06/16/2025

Quant Time: Jun 13 23:00:50 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 11 06:20:28 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	4.903	128	18987	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	6.763	114	100504	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	91686	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	45605	29.672	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	98.900%	
60) 4-Bromofluorobenzene	11.079	95	47393	30.667	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	102.233%	
63) Toluene-d8	8.646	98	123469	30.148	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	100.500%	
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.184	85	25269	20.470	ug/l	100
3) Chloromethane	1.306	50	24117	18.963	ug/l	99
4) Vinyl Chloride	1.386	62	22631	18.457	ug/l	95
5) Bromomethane	1.629	94	13116	17.912	ug/l	99
6) Chloroethane	1.703	64	12586	17.867	ug/l	96
7) Trichlorofluoromethane	1.904	101	33079	18.836	ug/l	99
8) Diethyl Ether	2.148	74	10695	17.381	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.343	101	22782	19.497	ug/l	98
10) 1,1-Dichloroethene	2.337	96	21314	18.805	ug/l	93
11) Methyl Iodide	2.465	142	25792	16.691	ug/l	98
12) Methyl Acetate	2.715	43	21982	15.386	ug/l	99
13) Acrolein	2.245	56	23021	164.439	ug/l	100
14) Acrylonitrile	3.074	53	55895	95.202	ug/l	99
15) Acetone	2.385	58	13613	101.395	ug/l	87
16) Carbon Disulfide	2.526	76	59591	18.950	ug/l	97
17) Allyl chloride	2.678	41	38550	18.746	ug/l	97
18) Methylene Chloride	2.800	84	25727	20.567	ug/l	95
19) trans-1,2-Dichloroethene	3.105	96	23314	19.849	ug/l	95
20) Diisopropyl ether	3.769	45	75322	19.359	ug/l	91
21) 1,1-Dichloroethane	3.623	63	43157	19.360	ug/l	98
22) cis-1,2-Dichloroethene	4.501	96	28108	20.526	ug/l	99
23) tert-Butyl Alcohol	2.958	59	11630	98.075	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	68177	19.690	ug/l	96
25) Chloroform	5.104	83	47577	20.735	ug/l	100
26) Cyclohexane	5.482	56	41820	20.562	ug/l #	98
29) 1,1-Dichloropropene	5.696	75	32337	20.450	ug/l	97
30) 2-Butanone	4.562	43	69186	98.193	ug/l	99
31) 2,2-Dichloropropane	4.489	77	33804	24.080	ug/l	96
32) 1,1,1-Trichloroethane	5.391	97	41367	21.172	ug/l	98
33) Carbon Tetrachloride	5.684	117	36676	21.150	ug/l	95
34) Benzene	6.043	78	97131	20.907	ug/l	96
35) Methacrylonitrile	4.928	41	17731	20.522	ug/l	98
36) 1,2-Dichloroethane	6.092	62	35926	20.439	ug/l	98
37) Trichloroethene	7.128	130	24525	21.037	ug/l	96
38) Methylcyclohexane	7.378	83	42148	20.999	ug/l	97
39) 1,2-Dichloropropane	7.433	63	23721	20.468	ug/l #	90
40) Dibromomethane	7.586	93	17720	20.453	ug/l	98
41) Bromodichloromethane	7.823	83	37799	21.415	ug/l #	98
42) Vinyl Acetate	3.733	43	305807	100.583	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	4.726	43	29739	19.925	ug/l	#	89
44) Isopropyl Acetate	6.342	43	49966	21.402	ug/l		100
45) 1,4-Dioxane	7.665	88	6778	460.273	ug/l		97
46) Methyl methacrylate	7.695	41	25577	20.065	ug/l		97
47) n-amyl Acetate	10.841	43	45449	21.765	ug/l		99
48) t-1,3-Dichloropropene	8.982	75	33000	20.856	ug/l		98
49) cis-1,3-Dichloropropene	8.366	75	37420	21.183	ug/l		100
50) 1,1,2-Trichloroethane	9.152	97	23253	21.295	ug/l		92
51) Ethyl methacrylate	9.116	69	32647	19.663	ug/l		96
52) 1,3-Dichloropropane	9.311	76	39577	20.809	ug/l		98
53) Dibromochloromethane	9.518	129	26919	20.916	ug/l		98
54) 1,2-Dibromoethane	9.610	107	23884	20.795	ug/l		98
55) 2-Chloroethyl vinyl ether	8.238	63	96924	111.780	ug/l		99
56) Bromoform	10.798	173	16955	21.318	ug/l		99
58) 4-Methyl-2-Pentanone	8.573	43	156898	105.204	ug/l		100
59) 2-Hexanone	9.427	43	108033	102.682	ug/l		98
61) Tetrachloroethene	9.274	164	19962	20.775	ug/l		98
62) Toluene	8.720	91	103515	20.833	ug/l		99
64) Chlorobenzene	10.079	112	66023	20.601	ug/l		100
65) 1,1,1,2-Tetrachloroethane	10.158	131	22729	21.162	ug/l		98
66) Ethyl Benzene	10.195	91	117098	20.639	ug/l		100
67) m/p-Xylenes	10.299	106	89413	42.608	ug/l		99
68) o-Xylene	10.640	106	41990	20.782	ug/l		100
69) Styrene	10.652	104	73291	21.162	ug/l		99
70) Isopropylbenzene	10.963	105	115526	21.305	ug/l		99
71) 1,1,2,2-Tetrachloroethane	11.207	83	33309	20.912	ug/l		98
72) 1,2,3-Trichloropropane	11.237	75	27368m	20.581	ug/l		
73) Bromobenzene	11.195	156	26836	21.114	ug/l		96
74) n-propylbenzene	11.304	91	137949	21.276	ug/l		99
75) 2-Chlorotoluene	11.359	91	82655	21.294	ug/l		98
76) 1,3,5-Trimethylbenzene	11.451	105	95380	21.171	ug/l		99
77) t-1,4-Dichloro-2-butene	11.018	75	9915	22.072	ug/l		93
78) 4-Chlorotoluene	11.451	91	96365	21.458	ug/l		98
79) tert-butylbenzene	11.713	119	95641	21.286	ug/l		99
80) 1,2,4-Trimethylbenzene	11.750	105	96859	21.769	ug/l		98
81) sec-Butylbenzene	11.890	105	122506	21.307	ug/l		100
82) p-Isopropyltoluene	12.006	119	102694	21.762	ug/l		99
83) 1,3-Dichlorobenzene	11.969	146	51315	21.689	ug/l		99
84) 1,4-Dichlorobenzene	12.042	146	52081	21.889	ug/l		99
85) n-Butylbenzene	12.329	91	99286	21.840	ug/l		100
86) Hexachloroethane	12.536	117	17414	21.248	ug/l		97
87) 1,2-Dichlorobenzene	12.335	146	49194	21.612	ug/l		99
88) 1,2-Dibromo-3-Chloropr...	12.938	75	6805	20.710	ug/l		95
89) 1,2,4-Trichlorobenzene	13.585	180	32002	21.325	ug/l		98
90) Hexachlorobutadiene	13.725	225	13968	21.139	ug/l		98
91) Naphthalene	13.774	128	98632	20.717	ug/l		100
92) 1,2,3-Trichlorobenzene	13.963	180	31947	21.689	ug/l		99

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

