

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062025\
 Data File : VX046779.D
 Acq On : 20 Jun 2025 12:13
 Operator : JC/MD
 Sample : VX0620WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0620WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/23/2025
 Supervised By : Mahesh Dadoda 06/23/2025

Quant Time: Jun 20 23:13:38 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	19510m	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	6.763	114	133108	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	122478	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	51409	32.552	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 108.500%			
60) 4-Bromofluorobenzene	11.079	95	58675	28.422	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 94.733%			
63) Toluene-d8	8.647	98	159111	29.084	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 96.933%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.179	85	26232	20.681	ug/l	96
3) Chloromethane	1.307	50	27646	21.155	ug/l	100
4) Vinyl Chloride	1.386	62	29741	23.606	ug/l	100
5) Bromomethane	1.630	94	19581	26.024	ug/l	86
6) Chloroethane	1.703	64	18112	25.023	ug/l	100
7) Trichlorofluoromethane	1.904	101	43522	24.118	ug/l	98
8) Diethyl Ether	2.148	74	14828	23.452	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.343	101	26529	22.095	ug/l	98
10) 1,1-Dichloroethene	2.337	96	24705	21.212	ug/l	98
11) Methyl Iodide	2.465	142	31567	19.880	ug/l #	44
12) Methyl Acetate	2.709	43	21929	14.938	ug/l	97
13) Acrolein	2.245	56	14862	103.313	ug/l	95
14) Acrylonitrile	3.068	53	52555	87.113	ug/l	99
15) Acetone	2.386	58	12190	88.362	ug/l	73
16) Carbon Disulfide	2.526	76	72540	22.449	ug/l	99
17) Allyl chloride	2.678	41	45684	21.619	ug/l	91
18) Methylene Chloride	2.800	84	28409	22.102	ug/l	98
19) trans-1,2-Dichloroethene	3.105	96	26812	22.215	ug/l	99
20) Diisopropyl ether	3.763	45	91954	23.001	ug/l	90
21) 1,1-Dichloroethane	3.617	63	50579	22.081	ug/l	97
22) cis-1,2-Dichloroethene	4.501	96	31556	22.426	ug/l	98
23) tert-Butyl Alcohol	2.946	59	8003	65.680	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	70887	19.924	ug/l	95
25) Chloroform	5.092	83	52519	22.275	ug/l	96
26) Cyclohexane	5.476	56	47300	22.632	ug/l #	98
29) 1,1-Dichloropropene	5.702	75	36460	17.409	ug/l	96
30) 2-Butanone	4.562	43	56385	60.423	ug/l #	95
31) 2,2-Dichloropropane	4.489	77	37648	20.249	ug/l #	85
32) 1,1,1-Trichloroethane	5.385	97	43771	16.915	ug/l	95
33) Carbon Tetrachloride	5.684	117	24690m	10.751	ug/l	
34) Benzene	6.043	78	109498	17.796	ug/l #	90
35) Methacrylonitrile	4.922	41	14814	12.946	ug/l	92
36) 1,2-Dichloroethane	6.086	62	35616	15.299	ug/l	97
37) Trichloroethene	7.129	130	27264	17.658	ug/l	97
38) Methylcyclohexane	7.379	83	48061	18.079	ug/l	97
39) 1,2-Dichloropropane	7.433	63	27995	18.239	ug/l	97
40) Dibromomethane	7.580	93	19293	16.814	ug/l	55
41) Bromodichloromethane	7.824	83	39454	16.878	ug/l #	95
42) Vinyl Acetate	3.727	43	329457	81.819	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062025\
 Data File : VX046779.D
 Acq On : 20 Jun 2025 12:13
 Operator : JC/MD
 Sample : VX0620WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0620WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/23/2025
 Supervised By : Mahesh Dadoda 06/23/2025

Quant Time: Jun 20 23:13:38 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)
43) Ethyl Acetate	4.721	43	23772	12.026	ug/l #	89
44) Isopropyl Acetate	6.342	43	42556	13.763	ug/l	97
45) 1,4-Dioxane	7.659	88	4804	246.318	ug/l #	93
46) Methyl methacrylate	7.696	41	23268m	13.783	ug/l	
47) n-amyl Acetate	10.841	43	40903	14.790	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	36060	17.207	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	41802	17.867	ug/l	96
50) 1,1,2-Trichloroethane	9.147	97	24558	16.982	ug/l #	79
51) Ethyl methacrylate	9.116	69	33298	15.143	ug/l	90
52) 1,3-Dichloropropane	9.305	76	43628	17.320	ug/l	100
53) Dibromochloromethane	9.518	129	25052m	14.697	ug/l	
54) 1,2-Dibromoethane	9.610	107	23649	15.547	ug/l	96
55) 2-Chloroethyl vinyl ether	8.238	63	96197	83.767	ug/l	99
56) Bromoform	10.793	173	267	0.253	ug/l #	64
58) 4-Methyl-2-Pentanone	8.567	43	125712	63.101	ug/l	98
59) 2-Hexanone	9.427	43	83586	59.473	ug/l	96
61) Tetrachloroethene	9.275	164	24449	19.047	ug/l	92
62) Toluene	8.714	91	120762	18.194	ug/l	100
64) Chlorobenzene	10.079	112	77077	18.004	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	25558	17.813	ug/l	99
66) Ethyl Benzene	10.189	91	135162	17.834	ug/l	98
67) m/p-Xylenes	10.299	106	102034	36.398	ug/l	97
68) o-Xylene	10.640	106	48907	18.120	ug/l	98
69) Styrene	10.652	104	84029	18.163	ug/l	98
70) Isopropylbenzene	10.957	105	131548	18.161	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.207	83	32632	15.336	ug/l	94
72) 1,2,3-Trichloropropane	11.238	75	25597m	14.410	ug/l	
73) Bromobenzene	11.195	156	31196	18.373	ug/l	95
74) n-propylbenzene	11.299	91	158580	18.309	ug/l	100
75) 2-Chlorotoluene	11.360	91	93853	18.100	ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	108889	18.093	ug/l	97
77) t-1,4-Dichloro-2-butene	11.018	75	9185	15.306	ug/l #	71
78) 4-Chlorotoluene	11.451	91	109179	18.199	ug/l	96
79) tert-butylbenzene	11.713	119	111609	18.595	ug/l	95
80) 1,2,4-Trimethylbenzene	11.750	105	106134	17.856	ug/l	99
81) sec-Butylbenzene	11.890	105	143040	18.623	ug/l	99
82) p-Isopropyltoluene	12.006	119	119402	18.941	ug/l	96
83) 1,3-Dichlorobenzene	11.969	146	59886	18.948	ug/l	98
84) 1,4-Dichlorobenzene	12.036	146	60719	19.104	ug/l	97
85) n-Butylbenzene	12.329	91	113777	18.735	ug/l	99
86) Hexachloroethane	12.536	117	18208	16.631	ug/l	76
87) 1,2-Dichlorobenzene	12.335	146	57379	18.871	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.939	75	5204	11.856	ug/l	87
89) 1,2,4-Trichlorobenzene	13.585	180	38712	19.311	ug/l	97
90) Hexachlorobutadiene	13.719	225	17077	19.347	ug/l	75
91) Naphthalene	13.774	128	99219	15.601	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	37042	18.825	ug/l	99

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

Manual Integrations

Quant Time: Jun 20 23:13:38 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

