

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012325\
 Data File : VX044699.D
 Acq On : 23 Jan 2025 08:21
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Quant Time: Jan 24 03:10:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011625W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jan 17 01:21:41 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/24/2025
 Supervised By :Semsettin Yesilyurt 01/24/2025

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

Internal Standards						
1) Bromochloromethane	4.885	128	17047	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.751	114	92191	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	78268	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	45074	27.389	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	91.300%		
60) 4-Bromofluorobenzene	11.079	95	42743	28.116	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	93.733%		
63) Toluene-d8	8.641	98	134890	31.687	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	105.633%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	27916	18.418	ug/l	97
3) Chloromethane	1.294	50	32612	20.455	ug/l	100
4) Vinyl Chloride	1.374	62	32442	20.797	ug/l	97
5) Bromomethane	1.605	94	7578	20.100	ug/l	91
6) Chloroethane	1.672	64	7157	28.935	ug/l	90
7) Trichlorofluoromethane	1.867	101	29609	17.332	ug/l	99
8) Diethyl Ether	2.130	74	10006	15.182	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.319	101	25291	20.664	ug/l	99
10) 1,1-Dichloroethene	2.312	96	24619	19.552	ug/l	99
11) Methyl Iodide	2.440	142	29490	16.901	ug/l	97
12) Methyl Acetate	2.703	43	42511	23.126	ug/l	99
13) Acrolein	2.239	56	32645	160.582	ug/l	99
14) Acrylonitrile	3.062	53	81216	121.245	ug/l	98
15) Acetone	2.386	58	22128	123.110	ug/l	92
16) Carbon Disulfide	2.501	76	62957	17.992	ug/l	98
17) Allyl chloride	2.660	41	44788	19.724	ug/l	95
18) Methylene Chloride	2.782	84	24996	17.739	ug/l	98
19) trans-1,2-Dichloroethene	3.087	96	22859	18.257	ug/l	96
20) Diisopropyl ether	3.751	45	82723	20.071	ug/l #	79
21) 1,1-Dichloroethane	3.599	63	47614	19.475	ug/l	98
22) cis-1,2-Dichloroethene	4.483	96	29096	18.776	ug/l	99
23) tert-Butyl Alcohol	2.977	59	21934m	67.700	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	81456	18.670	ug/l	96
25) Chloroform	5.080	83	46377	19.090	ug/l	99
26) Cyclohexane	5.458	56	44469	21.641	ug/l #	98
29) 1,1-Dichloropropene	5.684	75	31665	19.747	ug/l	98
30) 2-Butanone	4.556	43	104882	119.067	ug/l	99
31) 2,2-Dichloropropane	4.465	77	38673	17.428	ug/l	99
32) 1,1,1-Trichloroethane	5.367	97	40470	19.044	ug/l	99
33) Carbon Tetrachloride	5.659	117	34318	19.144	ug/l	96
34) Benzene	6.025	78	103137	20.160	ug/l	99
35) Methacrylonitrile	4.910	41	20261	20.580	ug/l	95
36) 1,2-Dichloroethane	6.080	62	33054	18.071	ug/l	98
37) Trichloroethene	7.116	130	22769	18.433	ug/l	91
38) Methylcyclohexane	7.366	83	43531	19.980	ug/l	99
39) 1,2-Dichloropropane	7.421	63	25405	19.914	ug/l	93
40) Dibromomethane	7.574	93	17518	18.470	ug/l	99
41) Bromodichloromethane	7.818	83	36191	18.480	ug/l	99
42) Vinyl Acetate	3.715	43	361851	103.438	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	39257	22.719	ug/l	# 94
44) Isopropyl Acetate	6.330	43	62910	20.266	ug/l	99
45) 1,4-Dioxane	7.702	88	14767m	499.569	ug/l	
46) Methyl methacrylate	7.690	41	30754	20.240	ug/l	95
47) n-amyl Acetate	10.841	43	49540	19.016	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	34265	16.576	ug/l	98
49) cis-1,3-Dichloropropene	8.360	75	39775	17.945	ug/l	96
50) 1,1,2-Trichloroethane	9.147	97	24205	19.815	ug/l	98
51) Ethyl methacrylate	9.116	69	40375	19.027	ug/l	97
52) 1,3-Dichloropropane	9.305	76	40739	19.283	ug/l	97
53) Dibromochloromethane	9.518	129	26851	18.396	ug/l	99
54) 1,2-Dibromoethane	9.604	107	24474	18.953	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	97741	94.930	ug/l	98
56) Bromoform	10.799	173	17759	18.348	ug/l	97
58) 4-Methyl-2-Pentanone	8.567	43	192718	116.815	ug/l	99
59) 2-Hexanone	9.433	43	140850	116.616	ug/l	100
61) Tetrachloroethene	9.269	164	17692	18.844	ug/l	98
62) Toluene	8.714	91	104366	20.251	ug/l	97
64) Chlorobenzene	10.079	112	59963	18.734	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	22732	19.771	ug/l	98
66) Ethyl Benzene	10.189	91	109367	19.445	ug/l	98
67) m/p-Xylenes	10.299	106	79236	38.326	ug/l	99
68) o-Xylene	10.640	106	41437	19.970	ug/l	95
69) Styrene	10.652	104	63209	18.554	ug/l	99
70) Isopropylbenzene	10.957	105	101235	19.407	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	37630	21.459	ug/l	97
72) 1,2,3-Trichloropropane	11.238	75	35576m	24.115	ug/l	
73) Bromobenzene	11.195	156	21546	17.731	ug/l	97
74) n-propylbenzene	11.299	91	107726	18.182	ug/l	99
75) 2-Chlorotoluene	11.360	91	70570	18.945	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	81252	19.181	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	12855	18.418	ug/l	98
78) 4-Chlorotoluene	11.451	91	71994	17.541	ug/l	99
79) tert-butylbenzene	11.713	119	83422	19.169	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	78949	18.472	ug/l	97
81) sec-Butylbenzene	11.890	105	94566	18.198	ug/l	99
82) p-Isopropyltoluene	12.006	119	75252	17.595	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	36029	16.692	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	35836	16.936	ug/l	100
85) n-Butylbenzene	12.329	91	59143	15.953	ug/l	99
86) Hexachloroethane	12.536	117	17040	18.111	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	38711	17.960	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.939	75	8323	19.706	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	20031	14.955	ug/l	99
90) Hexachlorobutadiene	13.719	225	8072	15.580	ug/l	98
91) Naphthalene	13.774	128	89735	17.907	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	21030	15.437	ug/l	99

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

