

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022125\
 Data File : VX045009.D
 Acq On : 21 Feb 2025 10:21
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/24/2025
 Supervised By : Mahesh Dadoda 02/24/2025

Quant Time: Feb 22 00:47:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Feb 22 00:21:26 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.885	128	18456	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	100876	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	91818	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	53173	29.663	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.867%		
60) 4-Bromofluorobenzene	11.079	95	51382	29.939	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.800%		
63) Toluene-d8	8.641	98	153274	30.175	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.567%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	30488	19.596	ug/l	100
3) Chloromethane	1.295	50	36739	19.715	ug/l	100
4) Vinyl Chloride	1.374	62	34827	19.369	ug/l	100
5) Bromomethane	1.593	94	12009	19.186	ug/l	100
6) Chloroethane	1.666	64	20465	21.014	ug/l	100
7) Trichlorofluoromethane	1.874	101	45678	18.901	ug/l	100
8) Diethyl Ether	2.130	74	17586	19.233	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.325	101	26971	18.790	ug/l	100
10) 1,1-Dichloroethene	2.313	96	26361	18.802	ug/l	100
11) Methyl Iodide	2.447	142	26786	16.880	ug/l	100
12) Methyl Acetate	2.697	43	30401	18.673	ug/l	100
13) Acrolein	2.233	56	29114	89.216	ug/l	100
14) Acrylonitrile	3.056	53	76500	96.198	ug/l	100
15) Acetone	2.380	58	21647	99.253	ug/l	100
16) Carbon Disulfide	2.502	76	73699	18.532	ug/l	100
17) Allyl chloride	2.660	41	48603	18.535	ug/l	100
18) Methylene Chloride	2.782	84	30537	19.365	ug/l	100
19) trans-1,2-Dichloroethene	3.081	96	26955	19.003	ug/l	100
20) Diisopropyl ether	3.751	45	95769	19.005	ug/l	100
21) 1,1-Dichloroethane	3.605	63	53432	19.066	ug/l	100
22) cis-1,2-Dichloroethene	4.483	96	32387	19.054	ug/l	100
23) tert-Butyl Alcohol	2.983	59	26136	94.028	ug/l #	100
24) Methyl tert-Butyl Ether	3.105	73	86386	18.878	ug/l	100
25) Chloroform	5.087	83	52389	19.354	ug/l	100
26) Cyclohexane	5.465	56	49670	19.201	ug/l #	100
29) 1,1-Dichloropropene	5.690	75	36104	19.456	ug/l	100
30) 2-Butanone	4.550	43	104263	97.278	ug/l	100
31) 2,2-Dichloropropane	4.465	77	39511	18.830	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	43317	19.266	ug/l	100
33) Carbon Tetrachloride	5.666	117	36851	19.421	ug/l	100
34) Benzene	6.032	78	114107	19.609	ug/l	100
35) Methacrylonitrile	4.910	41	22376	19.509	ug/l	100
36) 1,2-Dichloroethane	6.080	62	39058	19.604	ug/l	100
37) Trichloroethene	7.117	130	26892	19.753	ug/l	100
38) Methylcyclohexane	7.373	83	47088	18.899	ug/l	100
39) 1,2-Dichloropropane	7.428	63	28555	19.738	ug/l	100
40) Dibromomethane	7.580	93	20254	19.509	ug/l	100
41) Bromodichloromethane	7.818	83	39895	19.335	ug/l	100
42) Vinyl Acetate	3.715	43	400180	96.216	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.709	43	38893	19.350	ug/l	100
44) Isopropyl Acetate	6.336	43	61693	18.649	ug/l	100
45) 1,4-Dioxane	7.659	88	14028	407.910	ug/l	100
46) Methyl methacrylate	7.690	41	30666	18.904	ug/l	100
47) n-amyl Acetate	10.842	43	54008	18.814	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	35645	17.922	ug/l	100
49) cis-1,3-Dichloropropene	8.360	75	42718	18.974	ug/l	100
50) 1,1,2-Trichloroethane	9.147	97	27147	20.047	ug/l	100
51) Ethyl methacrylate	9.110	69	39389	18.495	ug/l	100
52) 1,3-Dichloropropane	9.305	76	47373	19.965	ug/l	100
53) Dibromochloromethane	9.519	129	29289	19.556	ug/l	100
54) 1,2-Dibromoethane	9.604	107	26948	19.597	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	105624	96.576	ug/l	100
56) Bromoform	10.799	173	17331	18.467	ug/l	100
58) 4-Methyl-2-Pentanone	8.568	43	208023	99.596	ug/l	100
59) 2-Hexanone	9.427	43	149308	98.899	ug/l	100
61) Tetrachloroethene	9.269	164	22529	19.926	ug/l	100
62) Toluene	8.714	91	119473	19.642	ug/l	100
64) Chlorobenzene	10.073	112	74287	19.710	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.159	131	24135	19.406	ug/l	100
66) Ethyl Benzene	10.189	91	128535	19.302	ug/l	100
67) m/p-Xylenes	10.299	106	99887	40.260	ug/l	100
68) o-Xylene	10.640	106	48859	20.071	ug/l	100
69) Styrene	10.653	104	80660	19.839	ug/l	100
70) Isopropylbenzene	10.957	105	124935	19.888	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.207	83	40659	19.683	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	33046m	19.450	ug/l	
73) Bromobenzene	11.195	156	28601	19.777	ug/l	100
74) n-propylbenzene	11.299	91	146105	19.544	ug/l	100
75) 2-Chlorotoluene	11.360	91	89859	19.883	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	103532	19.977	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	9794	17.133	ug/l	100
78) 4-Chlorotoluene	11.451	91	99015	19.654	ug/l	100
79) tert-butylbenzene	11.713	119	104250	19.965	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	104388	20.108	ug/l	100
81) sec-Butylbenzene	11.884	105	129645	19.783	ug/l	100
82) p-Isopropyltoluene	12.006	119	104594	19.698	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	53471	19.873	ug/l	100
84) 1,4-Dichlorobenzene	12.037	146	52302	19.714	ug/l	100
85) n-Butylbenzene	12.329	91	92551	19.087	ug/l	100
86) Hexachloroethane	12.536	117	17240	18.410	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	53134	20.126	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.939	75	7393	18.485	ug/l	100
89) 1,2,4-Trichlorobenzene	13.585	180	30018	18.760	ug/l	100
90) Hexachlorobutadiene	13.725	225	12822	19.649	ug/l	100
91) Naphthalene	13.774	128	108844	19.291	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	32019	19.437	ug/l	100

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

