

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080624\
 Data File : VX042862.D
 Acq On : 06 Aug 2024 11:17
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/07/2024
 Supervised By : Mahesh Dadoda 08/08/2024

Quant Time: Aug 07 04:27:27 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X080624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 07 04:19:06 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	36186	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	236268	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	216146	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	101252	30.406	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	101.367%		
60) 4-Bromofluorobenzene	11.079	95	105352	29.876	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.600%		
63) Toluene-d8	8.647	98	290757	29.780	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.267%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.166	85	228391	107.678	ug/l	97
3) Chloromethane	1.301	50	210344	108.052	ug/l	97
4) Vinyl Chloride	1.374	62	219370	105.547	ug/l	98
5) Bromomethane	1.593	94	134844	106.442	ug/l	95
6) Chloroethane	1.666	64	123306	99.727	ug/l	100
7) Trichlorofluoromethane	1.868	101	318802	96.165	ug/l	98
8) Diethyl Ether	2.136	74	144006	110.563	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.319	101	242654	107.378	ug/l	99
10) 1,1-Dichloroethene	2.313	96	221090	102.428	ug/l	98
11) Methyl Iodide	2.441	142	241455	121.624	ug/l	99
12) Methyl Acetate	2.709	43	551112	116.827	ug/l	100
13) Acrolein	2.239	56	65689m	490.473	ug/l	
14) Acrylonitrile	3.075	53	798322	556.704	ug/l	100
15) Acetone	2.392	58	208716	448.563	ug/l	93
16) Carbon Disulfide	2.502	76	460195	102.451	ug/l	99
17) Allyl chloride	2.660	41	363332	104.005	ug/l	98
18) Methylene Chloride	2.788	84	265026	105.879	ug/l	98
19) trans-1,2-Dichloroethene	3.087	96	230166	104.710	ug/l	99
20) Diisopropyl ether	3.770	45	836321	109.624	ug/l #	85
21) 1,1-Dichloroethane	3.605	63	475991	109.709	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	299343	108.535	ug/l	99
23) tert-Butyl Alcohol	2.995	59	338600	511.976	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	859281	110.007	ug/l	100
25) Chloroform	5.093	83	510586	108.768	ug/l	95
26) Cyclohexane	5.465	56	360926	105.448	ug/l #	97
29) 1,1-Dichloropropene	5.690	75	319108	104.805	ug/l	99
30) 2-Butanone	4.568	43	1120019	499.515	ug/l	99
31) 2,2-Dichloropropane	4.471	77	378405	106.360	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	445539	105.677	ug/l	100
33) Carbon Tetrachloride	5.678	117	383112	106.248	ug/l	99
34) Benzene	6.038	78	1018161	104.449	ug/l	99
35) Methacrylonitrile	4.928	41	228110	106.893	ug/l	95
36) 1,2-Dichloroethane	6.086	62	380451	105.753	ug/l	100
37) Trichloroethene	7.123	130	252479	102.309	ug/l	96
38) Methylcyclohexane	7.379	83	387179	102.606	ug/l	99
39) 1,2-Dichloropropane	7.428	63	262854	105.777	ug/l	98
40) Dibromomethane	7.580	93	197709	105.373	ug/l	99
41) Bromodichloromethane	7.824	83	397331	106.791	ug/l	100
42) Vinyl Acetate	3.727	43	3447897	525.771	ug/l	99

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43) Ethyl Acetate	4.721	43	401495	105.265	ug/l	98
44) Isopropyl Acetate	6.348	43	648213	107.077	ug/l	99
45) 1,4-Dioxane	7.665	88	138719	2251.306	ug/l #	92
46) Methyl methacrylate	7.696	41	328273	109.120	ug/l	98
47) n-amyl Acetate	10.842	43	570145	110.097	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	387789	108.723	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	417374	108.053	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	271421	106.064	ug/l	99
51) Ethyl methacrylate	9.116	69	460187	109.903	ug/l	99
52) 1,3-Dichloropropane	9.311	76	433758	103.288	ug/l	100
53) Dibromochloromethane	9.525	129	319452	107.267	ug/l	99
54) 1,2-Dibromoethane	9.610	107	280963	105.569	ug/l	98
55) 2-Chloroethyl vinyl ether	8.244	63	1053161	544.648	ug/l	99
56) Bromoform	10.799	173	237524	111.264	ug/l	97
58) 4-Methyl-2-Pentanone	8.580	43	2183735	536.494	ug/l	99
59) 2-Hexanone	9.433	43	1682981	523.112	ug/l	98
61) Tetrachloroethene	9.275	164	220518	102.760	ug/l	98
62) Toluene	8.720	91	1101511	104.048	ug/l	99
64) Chlorobenzene	10.080	112	717627	105.912	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	266090	108.180	ug/l	99
66) Ethyl Benzene	10.195	91	1260092	107.090	ug/l	96
67) m/p-Xylenes	10.299	106	952951	214.207	ug/l	99
68) o-Xylene	10.640	106	469506	107.060	ug/l	97
69) Styrene	10.653	104	820936	108.711	ug/l	100
70) Isopropylbenzene	10.964	105	1240883	107.509	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	449721	108.032	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	360413m	105.991	ug/l	
73) Bromobenzene	11.201	156	310450	105.856	ug/l	99
74) n-propylbenzene	11.305	91	1446773	107.152	ug/l	100
75) 2-Chlorotoluene	11.366	91	882222	107.052	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	1057048	108.051	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	141717	117.218	ug/l	97
78) 4-Chlorotoluene	11.451	91	1012640	107.141	ug/l	100
79) tert-butylbenzene	11.713	119	1095745	109.159	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	1064387	110.283	ug/l	99
81) sec-Butylbenzene	11.890	105	1326243	107.798	ug/l	100
82) p-Isopropyltoluene	12.006	119	1127720	109.456	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	586919	108.730	ug/l	100
84) 1,4-Dichlorobenzene	12.043	146	578834	106.658	ug/l	99
85) n-Butylbenzene	12.329	91	1015508	109.357	ug/l	100
86) Hexachloroethane	12.536	117	205101	110.301	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	584522	108.700	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	105791	112.493	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	381626	109.083	ug/l	97
90) Hexachlorobutadiene	13.725	225	162786	107.674	ug/l	95
91) Naphthalene	13.774	128	1329876	112.921	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	385609	109.146	ug/l	97

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

