

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030624\
 Data File : VX040598.D
 Acq On : 06 Mar 2024 11:54
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/07/2024
 Supervised By : Mahesh Dadoda 03/07/2024

Quant Time: Mar 07 04:35:00 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X030524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 05 13:21:29 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.891	128	13767	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	71752	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	68293	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	40915	29.757	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	99.200%	
60) 4-Bromofluorobenzene	11.079	95	32490	27.735	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	92.467%	
63) Toluene-d8	8.647	98	90662	30.040	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	100.133%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	16583	17.760	ug/l	100
3) Chloromethane	1.295	50	17232	18.012	ug/l	94
4) Vinyl Chloride	1.374	62	18343	17.741	ug/l	94
5) Bromomethane	1.605	94	13312	21.081	ug/l	96
6) Chloroethane	1.685	64	11308	18.615	ug/l	99
7) Trichlorofluoromethane	1.886	101	27444	17.433	ug/l	95
8) Diethyl Ether	2.130	74	10153	18.995	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.325	101	16154	18.734	ug/l	97
10) 1,1-Dichloroethene	2.319	96	14568	17.745	ug/l	98
11) Methyl Iodide	2.447	142	16875	16.995	ug/l	92
12) Methyl Acetate	2.703	43	28274	20.908	ug/l	99
13) Acrolein	2.233	56	23926	93.847	ug/l	99
14) Acrylonitrile	3.062	53	55121	103.512	ug/l	96
15) Acetone	2.374	58	15078	99.058	ug/l	83
16) Carbon Disulfide	2.508	76	38177	16.920	ug/l	98
17) Allyl chloride	2.660	41	28078	18.533	ug/l	89
18) Methylene Chloride	2.788	84	18371	19.600	ug/l	99
19) trans-1,2-Dichloroethene	3.093	96	16487	18.395	ug/l	90
20) Diisopropyl ether	3.757	45	58375	19.266	ug/l	98
21) 1,1-Dichloroethane	3.605	63	31793	18.235	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	19521	18.755	ug/l	95
23) tert-Butyl Alcohol	2.953	59	26072	103.625	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	59881	19.764	ug/l	96
25) Chloroform	5.087	83	35847	18.785	ug/l	98
26) Cyclohexane	5.458	56	24720	17.568	ug/l #	96
29) 1,1-Dichloropropene	5.690	75	24623	19.826	ug/l	97
30) 2-Butanone	4.550	43	84561	111.576	ug/l	99
31) 2,2-Dichloropropane	4.471	77	24528	18.298	ug/l	96
32) 1,1,1-Trichloroethane	5.385	97	30740	19.643	ug/l	97
33) Carbon Tetrachloride	5.672	117	24801	18.836	ug/l	95
34) Benzene	6.031	78	67743	20.205	ug/l	96
35) Methacrylonitrile	4.910	41	17603	22.625	ug/l	97
36) 1,2-Dichloroethane	6.086	62	33619	21.687	ug/l #	95
37) Trichloroethene	7.123	130	17956	19.929	ug/l	96
38) Methylcyclohexane	7.373	83	26328	19.687	ug/l	97
39) 1,2-Dichloropropane	7.428	63	18324	21.465	ug/l	98
40) Dibromomethane	7.580	93	14632	21.818	ug/l	93
41) Bromodichloromethane	7.818	83	28014	20.998	ug/l	99
42) Vinyl Acetate	3.715	43	276855	106.100	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.709	43	32633	22.863	ug/l	100
44) Isopropyl Acetate	6.336	43	48238	21.172	ug/l	95
45) 1,4-Dioxane	7.653	88	11412	487.277	ug/l	95
46) Methyl methacrylate	7.690	41	25343	22.395	ug/l	95
47) n-amyl Acetate	10.842	43	36571	18.624	ug/l	97
48) t-1,3-Dichloropropene	8.976	75	28372	20.120	ug/l	94
49) cis-1,3-Dichloropropene	8.360	75	30009	20.890	ug/l	92
50) 1,1,2-Trichloroethane	9.147	97	19559	21.957	ug/l	93
51) Ethyl methacrylate	9.116	69	29713	21.187	ug/l	95
52) 1,3-Dichloropropane	9.305	76	32657	21.484	ug/l	100
53) Dibromochloromethane	9.519	129	21056	20.735	ug/l	98
54) 1,2-Dibromoethane	9.604	107	20905	21.209	ug/l	97
55) 2-Chloroethyl vinyl ether	8.238	63	76460	107.058	ug/l	99
56) Bromoform	10.799	173	13822	19.190	ug/l #	97
58) 4-Methyl-2-Pentanone	8.568	43	168512	110.811	ug/l	99
59) 2-Hexanone	9.427	43	134870	109.799	ug/l	96
61) Tetrachloroethene	9.269	164	16957	20.920	ug/l	94
62) Toluene	8.714	91	74607	19.835	ug/l	100
64) Chlorobenzene	10.079	112	46477	20.217	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.159	131	17160	19.570	ug/l	98
66) Ethyl Benzene	10.189	91	84889	19.574	ug/l	98
67) m/p-Xylenes	10.299	106	63285	39.517	ug/l	97
68) o-Xylene	10.640	106	30525	19.800	ug/l	96
69) Styrene	10.653	104	51427	19.854	ug/l	98
70) Isopropylbenzene	10.964	105	76299	18.316	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.207	83	29291	20.057	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	25944m	19.744	ug/l	
73) Bromobenzene	11.195	156	18569	18.829	ug/l	95
74) n-propylbenzene	11.305	91	93250	18.125	ug/l	100
75) 2-Chlorotoluene	11.366	91	54607	17.885	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	67302	18.351	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	7389	18.094	ug/l	67
78) 4-Chlorotoluene	11.451	91	67083	18.418	ug/l	99
79) tert-butylbenzene	11.713	119	66197	19.339	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	72070	19.945	ug/l	95
81) sec-Butylbenzene	11.890	105	87404	19.340	ug/l	99
82) p-Isopropyltoluene	12.006	119	69816	18.873	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	39106	20.379	ug/l	96
84) 1,4-Dichlorobenzene	12.043	146	39624	20.192	ug/l	98
85) n-Butylbenzene	12.329	91	67789	18.833	ug/l	98
86) Hexachloroethane	12.536	117	12168	18.851	ug/l	92
87) 1,2-Dichlorobenzene	12.335	146	37240	19.971	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	8752	22.413	ug/l	95
89) 1,2,4-Trichlorobenzene	13.585	180	24579	19.576	ug/l	96
90) Hexachlorobutadiene	13.725	225	9336	18.390	ug/l	97
91) Naphthalene	13.774	128	83037	20.276	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	24090	19.459	ug/l	99

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

