

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040623\
 Data File : VX034948.D
 Acq On : 06 Apr 2023 09:40
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

04/07/2023
 Supervised By :Mahesh
 Dadoda

Quant Time: Apr 07 03:15:05 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 28 09:11:00 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	30331	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	211720	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	227641	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	92280	31.664	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	105.533%
60) 4-Bromofluorobenzene	11.079	95	139138	30.589	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	101.967%
63) Toluene-d8	8.647	98	233224	30.148	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.500%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	69484	24.154	ug/l	97
3) Chloromethane	1.294	50	76586	20.531	ug/l	96
4) Vinyl Chloride	1.374	62	75860	20.613	ug/l	96
5) Bromomethane	1.617	94	47003	19.417	ug/l	96
6) Chloroethane	1.691	64	42826	17.881	ug/l	100
7) Trichlorofluoromethane	1.892	101	108019	18.426	ug/l	99
8) Diethyl Ether	2.130	74	41269	19.555	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	63394	21.315	ug/l	98
10) 1,1-Dichloroethene	2.319	96	58725	19.506	ug/l	95
11) Methyl Iodide	2.453	142	68960	17.987	ug/l	96
12) Methyl Acetate	2.703	43	130988	19.647	ug/l	99
13) Acrolein	2.239	56	69427	89.798	ug/l	97
14) Acrylonitrile	3.062	53	177096	96.463	ug/l	99
15) Acetone	2.386	58	59938	120.256	ug/l	93
16) Carbon Disulfide	2.514	76	142936	18.561	ug/l	99
17) Allyl chloride	2.666	41	118684	20.372	ug/l	96
18) Methylene Chloride	2.788	84	67883	19.141	ug/l	95
19) trans-1,2-Dichloroethene	3.093	96	64324	19.525	ug/l	89
20) Diisopropyl ether	3.757	45	238496	19.982	ug/l	96
21) 1,1-Dichloroethane	3.611	63	127114	19.918	ug/l	100
22) cis-1,2-Dichloroethene	4.483	96	74879	19.515	ug/l	97
23) tert-Butyl Alcohol	2.989	59	78133m	94.589	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	222820	19.917	ug/l	99
25) Chloroform	5.086	83	131339	20.233	ug/l	97
26) Cyclohexane	5.470	56	108948	19.481	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	95393	19.590	ug/l	98
30) 2-Butanone	4.556	43	274835	101.203	ug/l	99
31) 2,2-Dichloropropane	4.477	77	101330	20.519	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	114634	20.067	ug/l	99
33) Carbon Tetrachloride	5.678	117	96385	20.443	ug/l	97
34) Benzene	6.037	78	273544	19.330	ug/l	98
35) Methacrylonitrile	4.916	41	56125	18.883	ug/l	98
36) 1,2-Dichloroethane	6.086	62	112702	20.313	ug/l	99
37) Trichloroethene	7.123	130	70170	19.484	ug/l	91
38) Methylcyclohexane	7.379	83	102575	19.280	ug/l	95
39) 1,2-Dichloropropane	7.427	63	72489	19.707	ug/l	99
40) Dibromomethane	7.580	93	49169	19.459	ug/l	99
41) Bromodichloromethane	7.818	83	93084	19.558	ug/l	98
42) Vinyl Acetate	3.721	43	861316	97.219	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	100617	19.104	ug/l	99
44) Isopropyl Acetate	6.336	43	162700	18.248	ug/l	99
45) 1,4-Dioxane	7.690	88	35026	396.524	ug/l	94
46) Methyl methacrylate	7.690	41	83839	19.299	ug/l	93
47) n-amyl Acetate	10.841	43	137404	17.726	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	97911	18.881	ug/l	100
49) cis-1,3-Dichloropropene	8.366	75	110105	19.326	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	69496	19.742	ug/l	98
51) Ethyl methacrylate	9.116	69	105499	18.465	ug/l	99
52) 1,3-Dichloropropane	9.305	76	122166	19.646	ug/l	99
53) Dibromochloromethane	9.518	129	67093	19.266	ug/l	98
54) 1,2-Dibromoethane	9.610	107	71431	18.970	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	286572	95.312	ug/l	99
56) Bromoform	10.799	173	42845	17.843	ug/l	96
58) 4-Methyl-2-Pentanone	8.567	43	510294	97.771	ug/l	99
59) 2-Hexanone	9.427	43	391941	99.738	ug/l	100
61) Tetrachloroethene	9.275	164	62583	20.403	ug/l	96
62) Toluene	8.714	91	294260	19.769	ug/l	99
64) Chlorobenzene	10.079	112	180331	19.673	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	66024	20.148	ug/l	97
66) Ethyl Benzene	10.195	91	330761	19.951	ug/l	99
67) m/p-Xylenes	10.299	106	252072	39.961	ug/l	99
68) o-Xylene	10.640	106	125188	20.068	ug/l	100
69) Styrene	10.652	104	201895	19.632	ug/l	99
70) Isopropylbenzene	10.963	105	319580	19.795	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	101589	19.143	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	86159m	17.835	ug/l	
73) Bromobenzene	11.195	156	75880	19.570	ug/l	95
74) n-propylbenzene	11.305	91	369249	19.647	ug/l	100
75) 2-Chlorotoluene	11.366	91	236251	20.164	ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	271704	19.992	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	25152	16.954	ug/l	96
78) 4-Chlorotoluene	11.457	91	268155	19.963	ug/l	97
79) tert-butylbenzene	11.713	119	252785	19.485	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	270988	20.065	ug/l	98
81) sec-Butylbenzene	11.890	105	309798	19.707	ug/l	99
82) p-Isopropyltoluene	12.006	119	262963	19.823	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	142607	19.476	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	146521	19.927	ug/l	99
85) n-Butylbenzene	12.329	91	225597	19.732	ug/l	99
86) Hexachloroethane	12.536	117	39236	18.058	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	140744	19.644	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	21809	18.806	ug/l	94
89) 1,2,4-Trichlorobenzene	13.585	180	84544	19.670	ug/l	98
90) Hexachlorobutadiene	13.725	225	36775	22.186	ug/l	98
91) Naphthalene	13.774	128	293530	19.329	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	85485	19.895	ug/l	99

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

