

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112423\
 Data File : VX039028.D
 Acq On : 24 Nov 2023 16:41
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/27/2023
 Supervised By : Mahesh Dadoda 11/27/2023

Quant Time: Nov 27 03:29:44 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X112423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 27 03:22:25 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	9509	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	77765	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	98331	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	42872	32.956	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 109.867%			
60) 4-Bromofluorobenzene	11.079	95	63484	29.559	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.533%			
63) Toluene-d8	8.646	98	118849	30.571	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.900%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	30237	21.245	ug/l	98
3) Chloromethane	1.294	50	34565	21.210	ug/l	95
4) Vinyl Chloride	1.373	62	35306	21.460	ug/l	98
5) Bromomethane	1.605	94	24066	23.916	ug/l	99
6) Chloroethane	1.690	64	21153	22.079	ug/l	99
7) Trichlorofluoromethane	1.891	101	48339	21.288	ug/l	92
8) Diethyl Ether	2.129	74	18728	21.486	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.330	101	26483	20.639	ug/l	98
10) 1,1-Dichloroethene	2.318	96	27524	21.280	ug/l	91
11) Methyl Iodide	2.452	142	29430	20.764	ug/l	99
12) Methyl Acetate	2.702	43	92892	23.027	ug/l	100
13) Acrolein	2.233	56	34418	97.392	ug/l	100
14) Acrylonitrile	3.062	53	109438	110.918	ug/l	100
15) Acetone	2.373	58	31898	88.941	ug/l	95
16) Carbon Disulfide	2.513	76	83359	21.280	ug/l	98
17) Allyl chloride	2.666	41	56534	22.018	ug/l	98
18) Methylene Chloride	2.788	84	32937	21.483	ug/l	95
19) trans-1,2-Dichloroethene	3.092	96	30752	21.022	ug/l	96
20) Diisopropyl ether	3.757	45	107092	21.917	ug/l	98
21) 1,1-Dichloroethane	3.611	63	59709	21.978	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	35689	21.051	ug/l	97
23) tert-Butyl Alcohol	2.952	59	59026	108.064	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	102029	21.413	ug/l	96
25) Chloroform	5.092	83	58971	21.627	ug/l	94
26) Cyclohexane	5.470	56	52665	21.418	ug/l #	100
29) 1,1-Dichloropropene	5.696	75	44612	20.465	ug/l	98
30) 2-Butanone	4.550	43	162314	98.894	ug/l	99
31) 2,2-Dichloropropane	4.476	77	46703	18.737	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	50945	20.219	ug/l	98
33) Carbon Tetrachloride	5.677	117	42610	20.077	ug/l	95
34) Benzene	6.037	78	131012	20.631	ug/l	99
35) Methacrylonitrile	4.921	41	30939	21.281	ug/l	95
36) 1,2-Dichloroethane	6.086	62	48424	20.782	ug/l	100
37) Trichloroethene	7.128	130	31668	19.648	ug/l	99
38) Methylcyclohexane	7.378	83	55122	20.294	ug/l	99
39) 1,2-Dichloropropane	7.427	63	35294	21.074	ug/l	98
40) Dibromomethane	7.579	93	24015	20.294	ug/l	96
41) Bromodichloromethane	7.823	83	46052	20.257	ug/l	99
42) Vinyl Acetate	3.720	43	403986	103.341	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	58049	20.558	ug/l	98
44) Isopropyl Acetate	6.342	43	92998	20.892	ug/l	99
45) 1,4-Dioxane	7.659	88	18698	411.471	ug/l	98
46) Methyl methacrylate	7.689	41	53824	21.149	ug/l	98
47) n-amyl Acetate	10.841	43	74095	19.666	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	50920	19.317	ug/l	96
49) cis-1,3-Dichloropropene	8.366	75	55185	20.294	ug/l	95
50) 1,1,2-Trichloroethane	9.152	97	33097	20.589	ug/l	95
51) Ethyl methacrylate	9.116	69	41242	20.496	ug/l	98
52) 1,3-Dichloropropane	9.305	76	56301	20.426	ug/l	98
53) Dibromochloromethane	9.518	129	33286	19.281	ug/l	98
54) 1,2-Dibromoethane	9.610	107	36267	20.573	ug/l	97
55) 2-Chloroethyl vinyl ether	8.238	63	128819	101.001	ug/l	100
56) Bromoform	10.798	173	23338	18.731	ug/l	98
58) 4-Methyl-2-Pentanone	8.573	43	312592	104.831	ug/l	99
59) 2-Hexanone	9.427	43	250589	102.380	ug/l	99
61) Tetrachloroethene	9.274	164	25528	19.968	ug/l	93
62) Toluene	8.720	91	143403	20.541	ug/l	97
64) Chlorobenzene	10.079	112	84956	20.006	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.164	131	30390	19.871	ug/l	99
66) Ethyl Benzene	10.195	91	158256	19.908	ug/l	98
67) m/p-Xylenes	10.299	106	117691	40.065	ug/l	100
68) o-Xylene	10.640	106	56264	19.773	ug/l	99
69) Styrene	10.652	104	84712	20.116	ug/l	99
70) Isopropylbenzene	10.963	105	152333	20.009	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	57652	20.285	ug/l	98
72) 1,2,3-Trichloropropane	11.237	75	49490m	20.579	ug/l	
73) Bromobenzene	11.195	156	34310	19.795	ug/l	98
74) n-propylbenzene	11.304	91	187488	20.101	ug/l	99
75) 2-Chlorotoluene	11.365	91	109384	19.988	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	131920	20.114	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	17134	17.980	ug/l	98
78) 4-Chlorotoluene	11.457	91	129309	20.098	ug/l	98
79) tert-butylbenzene	11.713	119	124850	20.019	ug/l	99
80) 1,2,4-Trimethylbenzene	11.749	105	131775	20.075	ug/l	99
81) sec-Butylbenzene	11.890	105	158936	20.159	ug/l	99
82) p-Isopropyltoluene	12.012	119	132237	19.790	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	67090	20.226	ug/l	96
84) 1,4-Dichlorobenzene	12.042	146	67354	19.789	ug/l	99
85) n-Butylbenzene	12.335	91	127103	19.262	ug/l	100
86) Hexachloroethane	12.536	117	24559	19.398	ug/l	95
87) 1,2-Dichlorobenzene	12.335	146	64114	20.100	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.944	75	14915	20.520	ug/l	99
89) 1,2,4-Trichlorobenzene	13.585	180	41576	19.660	ug/l	100
90) Hexachlorobutadiene	13.725	225	14138	18.723	ug/l	99
91) Naphthalene	13.774	128	152182	19.512	ug/l	100
92) 1,2,3-Trichlorobenzene	13.962	180	39827	19.443	ug/l	98

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

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