

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080624\
 Data File : VX042860.D
 Acq On : 06 Aug 2024 10:31
 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 08/07/2024
 Supervised By : Mahesh Dadoda 08/08/2024

Quant Time: Aug 07 04:25:50 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	4.897	128	48559	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	304112	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	277546	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	132788	29.716	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.067%		
60) 4-Bromofluorobenzene	11.079	95	135055	29.826	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.433%		
63) Toluene-d8	8.646	98	381689	30.445	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.500%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	56542	19.865	ug/l	100
3) Chloromethane	1.300	50	46764	17.901	ug/l	100
4) Vinyl Chloride	1.373	62	52613	18.864	ug/l	100
5) Bromomethane	1.605	94	32633	19.196	ug/l	100
6) Chloroethane	1.690	64	32646	19.676	ug/l	100
7) Trichlorofluoromethane	1.885	101	94753	21.299	ug/l	100
8) Diethyl Ether	2.135	74	34018	19.463	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.330	101	59250	19.538	ug/l	100
10) 1,1-Dichloroethene	2.318	96	55595	19.194	ug/l	100
11) Methyl Iodide	2.452	142	44998	16.891	ug/l	100
12) Methyl Acetate	2.708	43	139324	22.009	ug/l	100
13) Acrolein	2.239	56	12678m	70.541	ug/l	
14) Acrylonitrile	3.068	53	187214	97.287	ug/l	100
15) Acetone	2.379	58	59662	95.551	ug/l	100
16) Carbon Disulfide	2.513	76	114784	19.043	ug/l	100
17) Allyl chloride	2.666	41	98059	20.918	ug/l	100
18) Methylene Chloride	2.794	84	63558	18.922	ug/l	100
19) trans-1,2-Dichloroethene	3.092	96	58412	19.802	ug/l	100
20) Diisopropyl ether	3.763	45	204095	19.936	ug/l	100
21) 1,1-Dichloroethane	3.611	63	115951	19.915	ug/l	100
22) cis-1,2-Dichloroethene	4.489	96	70608	19.078	ug/l	100
23) tert-Butyl Alcohol	2.964	59	84772	95.518	ug/l	100
24) Methyl tert-Butyl Ether	3.117	73	201913	19.263	ug/l	100
25) Chloroform	5.098	83	122592	19.461	ug/l	100
26) Cyclohexane	5.470	56	86465	18.825	ug/l #	100
29) 1,1-Dichloropropene	5.696	75	76183	19.439	ug/l	100
30) 2-Butanone	4.556	43	284465	98.565	ug/l	100
31) 2,2-Dichloropropane	4.476	77	89797	19.609	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	105052	19.358	ug/l	100
33) Carbon Tetrachloride	5.677	117	90714	19.545	ug/l	100
34) Benzene	6.037	78	242627	19.337	ug/l	100
35) Methacrylonitrile	4.921	41	54354	19.788	ug/l	100
36) 1,2-Dichloroethane	6.086	62	91272	19.711	ug/l	100
37) Trichloroethene	7.128	130	61624	19.400	ug/l	100
38) Methylcyclohexane	7.378	83	92226	18.988	ug/l	100
39) 1,2-Dichloropropane	7.427	63	62594	19.569	ug/l	100
40) Dibromomethane	7.580	93	47778	19.783	ug/l	100
41) Bromodichloromethane	7.823	83	93723	19.570	ug/l	100
42) Vinyl Acetate	3.727	43	815406	96.602	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.720	43	93605	19.067	ug/l	100
44) Isopropyl Acetate	6.342	43	154192	19.788	ug/l	100
45) 1,4-Dioxane	7.659	88	33279	419.604	ug/l	100
46) Methyl methacrylate	7.695	41	76486	19.752	ug/l	100
47) n-amyl Acetate	10.841	43	125112	18.770	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	91070	19.837	ug/l	100
49) cis-1,3-Dichloropropene	8.366	75	98306	19.773	ug/l	100
50) 1,1,2-Trichloroethane	9.152	97	65777	19.970	ug/l	100
51) Ethyl methacrylate	9.116	69	103982	19.293	ug/l	100
52) 1,3-Dichloropropane	9.311	76	107823	19.947	ug/l	100
53) Dibromochloromethane	9.518	129	74269	19.375	ug/l	100
54) 1,2-Dibromoethane	9.610	107	68079	19.873	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	244569	98.264	ug/l	100
56) Bromoform	10.798	173	52763	19.202	ug/l	100
58) 4-Methyl-2-Pentanone	8.573	43	534465	102.258	ug/l	100
59) 2-Hexanone	9.427	43	413421	100.074	ug/l	100
61) Tetrachloroethene	9.274	164	55063	19.983	ug/l	100
62) Toluene	8.720	91	269216	19.804	ug/l	100
64) Chlorobenzene	10.079	112	173245	19.912	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.164	131	62596	19.819	ug/l	100
66) Ethyl Benzene	10.195	91	299804	19.843	ug/l	100
67) m/p-Xylenes	10.299	106	226180	39.594	ug/l	100
68) o-Xylene	10.640	106	111939	19.878	ug/l	100
69) Styrene	10.652	104	189930	19.587	ug/l	100
70) Isopropylbenzene	10.963	105	295741	19.954	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	106308	19.888	ug/l	100
72) 1,2,3-Trichloropropane	11.237	75	83721m	19.174	ug/l	
73) Bromobenzene	11.195	156	72719	19.310	ug/l	100
74) n-propylbenzene	11.304	91	343871	19.834	ug/l	100
75) 2-Chlorotoluene	11.365	91	206158	19.482	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	243937	19.419	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	29002	18.681	ug/l	100
78) 4-Chlorotoluene	11.451	91	234481	19.321	ug/l	100
79) tert-butylbenzene	11.713	119	249292	19.341	ug/l	100
80) 1,2,4-Trimethylbenzene	11.749	105	239806	19.350	ug/l	100
81) sec-Butylbenzene	11.890	105	310240	19.638	ug/l	100
82) p-Isopropyltoluene	12.006	119	259227	19.594	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	134646	19.426	ug/l	100
84) 1,4-Dichlorobenzene	12.042	146	135608	19.460	ug/l	100
85) n-Butylbenzene	12.329	91	232433	19.493	ug/l	100
86) Hexachloroethane	12.536	117	45065	18.874	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	132842	19.239	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.944	75	22568	18.689	ug/l	100
89) 1,2,4-Trichlorobenzene	13.585	180	86075	19.161	ug/l	100
90) Hexachlorobutadiene	13.725	225	36908	19.012	ug/l	100
91) Naphthalene	13.774	128	285744	18.895	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	88270	19.457	ug/l	100

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

