

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030524\
 Data File : VX040579.D
 Acq On : 05 Mar 2024 10:58
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

03/05/2024
 Supervised By :Mahesh
 Dadoda

Quant Time: Mar 05 13:13:25 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X030524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 05 13:11:20 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	16388	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	90070	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	89521	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	48676	18.946	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	63.167%#
60) 4-Bromofluorobenzene	11.079	95	39683	20.098	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	67.000%
63) Toluene-d8	8.647	98	115293	31.325	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	104.400%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	6099	2.203	ug/l	94
3) Chloromethane	1.300	50	6177	2.008	ug/l	97
4) Vinyl Chloride	1.374	62	6797	2.264	ug/l	98
5) Bromomethane	1.599	94	4875	3.398	ug/l	90
6) Chloroethane	1.678	64	4300	3.147	ug/l	93
7) Trichlorofluoromethane	1.886	101	9658	2.278	ug/l	93
8) Diethyl Ether	2.136	74	3371	2.125	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.325	101	5497	2.117	ug/l	95
10) 1,1-Dichloroethene	2.319	96	5245	2.108	ug/l	96
11) Methyl Iodide	2.453	142	5564	2.041	ug/l	94
12) Methyl Acetate	2.703	43	7758	1.936	ug/l	96
13) Acrolein	2.239	56	8045	13.457	ug/l	94
14) Acrylonitrile	3.062	53	16331	8.888	ug/l	96
15) Acetone	2.379	58	4658	8.037	ug/l	78
16) Carbon Disulfide	2.508	76	14291	2.131	ug/l	99
17) Allyl chloride	2.660	41	9463	1.929	ug/l	88
18) Methylene Chloride	2.794	84	5892	2.026	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	5452	2.065	ug/l	95
20) Diisopropyl ether	3.757	45	18255	1.906	ug/l #	86
21) 1,1-Dichloroethane	3.605	63	10644	1.991	ug/l	96
22) cis-1,2-Dichloroethene	4.489	96	6086	1.972	ug/l	90
23) tert-Butyl Alcohol	2.965	59	7664	8.904	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	18461	2.025	ug/l	94
25) Chloroform	5.092	83	11734	2.236	ug/l	88
26) Cyclohexane	5.470	56	8668	1.869	ug/l #	97
29) 1,1-Dichloropropene	5.696	75	8248	3.191	ug/l	96
30) 2-Butanone	4.556	43	25363	13.681	ug/l #	95
31) 2,2-Dichloropropane	4.477	77	8414	2.928	ug/l	96
32) 1,1,1-Trichloroethane	5.385	97	10495	3.513	ug/l	96
33) Carbon Tetrachloride	5.678	117	8488	3.604	ug/l	92
34) Benzene	6.037	78	22472	2.931	ug/l	95
35) Methacrylonitrile	4.916	41	4914m	2.755	ug/l	
36) 1,2-Dichloroethane	6.086	62	10396	3.458	ug/l #	93
37) Trichloroethene	7.129	130	6365	3.494	ug/l	81
38) Methylcyclohexane	7.379	83	9020	2.852	ug/l	95
39) 1,2-Dichloropropane	7.427	63	5915	2.863	ug/l	100
40) Dibromomethane	7.586	93	4573	3.277	ug/l	95
41) Bromodichloromethane	7.824	83	8978	3.472	ug/l	93
42) Vinyl Acetate	3.721	43	83196	13.573	ug/l	98

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43) Ethyl Acetate	4.721	43	9718	2.797	ug/l	96
44) Isopropyl Acetate	6.342	43	14421	2.685	ug/l	95
45) 1,4-Dioxane	7.659	88	3326m	64.222	ug/l	
46) Methyl methacrylate	7.696	41	7137	2.766	ug/l	95
47) n-amyl Acetate	10.841	43	10514	2.241	ug/l	95
48) t-1,3-Dichloropropene	8.982	75	9026	3.243	ug/l	92
49) cis-1,3-Dichloropropene	8.366	75	9376	3.076	ug/l #	86
50) 1,1,2-Trichloroethane	9.153	97	6209	3.246	ug/l	97
51) Ethyl methacrylate	9.116	69	8714	2.727	ug/l	95
52) 1,3-Dichloropropane	9.305	76	10398	3.150	ug/l	97
53) Dibromochloromethane	9.518	129	6574	3.693	ug/l	98
54) 1,2-Dibromoethane	9.610	107	6510	3.247	ug/l	96
55) 2-Chloroethyl vinyl ether	8.244	63	23284	14.974	ug/l	98
56) Bromoform	10.799	173	3884	3.239	ug/l #	93
58) 4-Methyl-2-Pentanone	8.573	43	49560	16.831	ug/l	99
59) 2-Hexanone	9.427	43	38930	16.332	ug/l	95
61) Tetrachloroethene	9.275	164	5844	4.928	ug/l #	91
62) Toluene	8.720	91	26031	3.922	ug/l	98
64) Chlorobenzene	10.079	112	15563	4.033	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	5672	4.135	ug/l	98
66) Ethyl Benzene	10.195	91	29014	3.981	ug/l	98
67) m/p-Xylenes	10.305	106	20842	7.830	ug/l	97
68) o-Xylene	10.640	106	9478	3.547	ug/l	98
69) Styrene	10.652	104	14883	3.484	ug/l	94
70) Isopropylbenzene	10.963	105	25462	3.610	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	8777	3.240	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	8473m	3.739	ug/l	
73) Bromobenzene	11.195	156	6150	3.949	ug/l	92
74) n-propylbenzene	11.305	91	31433	3.738	ug/l	99
75) 2-Chlorotoluene	11.366	91	18986	3.634	ug/l	96
76) 1,3,5-Trimethylbenzene	11.451	105	21175	3.514	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	1915	2.575	ug/l	84
78) 4-Chlorotoluene	11.457	91	21522	3.714	ug/l	97
79) tert-butylbenzene	11.713	119	19511	3.417	ug/l	96
80) 1,2,4-Trimethylbenzene	11.750	105	21105	3.529	ug/l	98
81) sec-Butylbenzene	11.890	105	27175	3.703	ug/l	100
82) p-Isopropyltoluene	12.012	119	21725	3.720	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	11453	3.935	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	12192	4.223	ug/l	99
85) n-Butylbenzene	12.335	91	22223	4.158	ug/l	99
86) Hexachloroethane	12.536	117	3770	3.773	ug/l	83
87) 1,2-Dichlorobenzene	12.335	146	11999	4.114	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	2395	3.692	ug/l	95
89) 1,2,4-Trichlorobenzene	13.591	180	8538	5.192	ug/l	99
90) Hexachlorobutadiene	13.725	225	3422	4.753	ug/l	96
91) Naphthalene	13.774	128	26158	4.077	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	8334	4.895	ug/l	99

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

