

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071423\
 Data File : VX036524.D
 Acq On : 13 Jul 2023 14:09
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

07/14/2023
 Supervised By :Semsettin
 Yesilyurt

Quant Time: Jul 14 02:25:59 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 14 02:24:12 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	32266	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	171788	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	156356	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	76152	28.436	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	94.800%
60) 4-Bromofluorobenzene	11.079	95	75219	29.658	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.867%
63) Toluene-d8	8.647	98	218864	30.419	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.400%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.167	85	7042	3.906	ug/l	94
3) Chloromethane	1.301	50	11264	4.567	ug/l	89
4) Vinyl Chloride	1.374	62	11249	4.423	ug/l	99
5) Bromomethane	1.605	94	13534	5.196	ug/l	93
6) Chloroethane	1.685	64	7186	4.151	ug/l	98
7) Trichlorofluoromethane	1.886	101	19050	4.617	ug/l	99
8) Diethyl Ether	2.136	74	7732	4.510	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	8688	4.651	ug/l	98
10) 1,1-Dichloroethene	2.319	96	8302	4.397	ug/l	91
11) Methyl Iodide	2.447	142	6225	2.893	ug/l	96
12) Methyl Acetate	2.703	43	19977	4.501	ug/l	98
13) Acrolein	2.239	56	7779	21.365	ug/l	97
14) Acrylonitrile	3.063	53	27737	22.295	ug/l	99
15) Acetone	2.386	58	8273	23.489	ug/l	80
16) Carbon Disulfide	2.514	76	18651	4.071	ug/l	95
17) Allyl chloride	2.666	41	15022	4.485	ug/l	99
18) Methylene Chloride	2.788	84	10737	4.723	ug/l	90
19) trans-1,2-Dichloroethene	3.093	96	9081	4.400	ug/l	96
20) Diisopropyl ether	3.757	45	30203	4.424	ug/l #	80
21) 1,1-Dichloroethane	3.611	63	17773	4.465	ug/l	97
22) cis-1,2-Dichloroethene	4.495	96	10941	4.405	ug/l	97
23) tert-Butyl Alcohol	2.971	59	13175	22.904	ug/l #	1
24) Methyl tert-Butyl Ether	3.117	73	30476	4.438	ug/l	97
25) Chloroform	5.087	83	18495	4.495	ug/l	89
26) Cyclohexane	5.465	56	13797	4.519	ug/l #	47
29) 1,1-Dichloropropene	5.690	75	11827	4.565	ug/l	97
30) 2-Butanone	4.562	43	40306	24.711	ug/l #	97
31) 2,2-Dichloropropane	4.471	77	12746	4.487	ug/l #	86
32) 1,1,1-Trichloroethane	5.379	97	13739	4.463	ug/l #	81
33) Carbon Tetrachloride	5.678	117	11782m	4.487	ug/l	
34) Benzene	6.038	78	38956	4.879	ug/l #	94
35) Methacrylonitrile	4.922	41	8412m	4.971	ug/l	
36) 1,2-Dichloroethane	6.080	62	15800m	5.157	ug/l	
37) Trichloroethene	7.135	130	9883	4.703	ug/l	81
38) Methylcyclohexane	7.379	83	14206	4.714	ug/l	98
39) 1,2-Dichloropropane	7.428	63	10699	4.943	ug/l	92
40) Dibromomethane	7.586	93	7986	5.094	ug/l	93
41) Bromodichloromethane	7.818	83	13002	4.570	ug/l	95
42) Vinyl Acetate	3.721	43	116312	23.608	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	4.715	43	16145	5.085	ug/l	#	86
44) Isopropyl Acetate	6.342	43	23798	4.700	ug/l		98
45) 1,4-Dioxane	7.678	88	5517	96.148	ug/l	#	1
46) Methyl methacrylate	7.696	41	11382	4.703	ug/l		83
47) n-amyl Acetate	10.842	43	18822	4.383	ug/l		97
48) t-1,3-Dichloropropene	8.982	75	13701	4.390	ug/l		93
49) cis-1,3-Dichloropropene	8.366	75	14870	4.411	ug/l		96
50) 1,1,2-Trichloroethane	9.153	97	10645	5.002	ug/l		93
51) Ethyl methacrylate	9.116	69	14651	4.385	ug/l		97
52) 1,3-Dichloropropane	9.311	76	17730	4.936	ug/l		98
53) Dibromochloromethane	9.519	129	9464	4.406	ug/l		96
54) 1,2-Dibromoethane	9.610	107	10512	4.702	ug/l		95
55) 2-Chloroethyl vinyl ether	8.245	63	41465	23.074	ug/l		99
56) Bromoform	10.799	173	5976	3.999	ug/l		96
58) 4-Methyl-2-Pentanone	8.574	43	78015	24.129	ug/l		99
59) 2-Hexanone	9.433	43	57915	23.545	ug/l		99
61) Tetrachloroethene	9.275	164	9415	5.027	ug/l		98
62) Toluene	8.720	91	42622	4.858	ug/l		99
64) Chlorobenzene	10.080	112	26317	4.819	ug/l		97
65) 1,1,1,2-Tetrachloroethane	10.165	131	8753	4.438	ug/l		98
66) Ethyl Benzene	10.195	91	44577	4.675	ug/l		99
67) m/p-Xylenes	10.305	106	34774	9.355	ug/l		98
68) o-Xylene	10.640	106	17194	4.661	ug/l		98
69) Styrene	10.659	104	26511	4.432	ug/l		98
70) Isopropylbenzene	10.964	105	42195	4.592	ug/l		98
71) 1,1,2,2-Tetrachloroethane	11.213	83	16567	4.940	ug/l		96
72) 1,2,3-Trichloropropane	11.238	75	14774m	4.776	ug/l		
73) Bromobenzene	11.201	156	10649	4.689	ug/l		96
74) n-propylbenzene	11.305	91	48941	4.526	ug/l		98
75) 2-Chlorotoluene	11.366	91	30720	4.671	ug/l		97
76) 1,3,5-Trimethylbenzene	11.451	105	35633	4.513	ug/l		99
77) t-1,4-Dichloro-2-butene	11.018	75	3706	3.632	ug/l		90
78) 4-Chlorotoluene	11.451	91	33862	4.522	ug/l		96
79) tert-butylbenzene	11.713	119	34107	4.551	ug/l		98
80) 1,2,4-Trimethylbenzene	11.750	105	35796	4.576	ug/l		100
81) sec-Butylbenzene	11.890	105	42004	4.453	ug/l		97
82) p-Isopropyltoluene	12.006	119	34423	4.387	ug/l		99
83) 1,3-Dichlorobenzene	11.969	146	19590	4.637	ug/l		99
84) 1,4-Dichlorobenzene	12.043	146	19547	4.643	ug/l		99
85) n-Butylbenzene	12.335	91	29644	4.150	ug/l		98
86) Hexachloroethane	12.536	117	4936	3.799	ug/l		93
87) 1,2-Dichlorobenzene	12.335	146	19638	4.634	ug/l		98
88) 1,2-Dibromo-3-Chloropr...	12.939	75	2964	3.931	ug/l		92
89) 1,2,4-Trichlorobenzene	13.591	180	11787	4.411	ug/l		98
90) Hexachlorobutadiene	13.725	225	4172	4.298	ug/l		100
91) Naphthalene	13.774	128	39853	4.250	ug/l		98
92) 1,2,3-Trichlorobenzene	13.963	180	12518	4.641	ug/l		96

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

