

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061424\
 Data File : VX041873.D
 Acq On : 14 Jun 2024 13:19
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/17/2024
 Supervised By : Mahesh Dadoda 06/17/2024

Quant Time: Jun 15 03:38:55 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061424W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 15 03:37:34 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	30559	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	170449	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	158423	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	61874	29.413	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.033%		
60) 4-Bromofluorobenzene	11.079	95	74103	30.218	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.733%		
63) Toluene-d8	8.647	98	209469	30.905	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	103.000%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	40170	20.307	ug/l	100
3) Chloromethane	1.301	50	44748	20.236	ug/l	100
4) Vinyl Chloride	1.374	62	41820	19.339	ug/l	100
5) Bromomethane	1.599	94	22186	19.193	ug/l	100
6) Chloroethane	1.666	64	18462	19.983	ug/l	100
7) Trichlorofluoromethane	1.867	101	55075	20.223	ug/l	100
8) Diethyl Ether	2.136	74	22870	19.405	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	35986	19.437	ug/l	100
10) 1,1-Dichloroethene	2.306	96	36248	19.409	ug/l	100
11) Methyl Iodide	2.441	142	48000	19.747	ug/l	100
12) Methyl Acetate	2.709	43	47330	19.878	ug/l	100
13) Acrolein	2.239	56	45112	93.963	ug/l	100
14) Acrylonitrile	3.075	53	112405	99.462	ug/l	100
15) Acetone	2.392	58	32861	101.645	ug/l	100
16) Carbon Disulfide	2.502	76	71424	17.451	ug/l	100
17) Allyl chloride	2.660	41	56805	20.027	ug/l	100
18) Methylene Chloride	2.788	84	42824	19.991	ug/l	100
19) trans-1,2-Dichloroethene	3.087	96	36215	19.357	ug/l	100
20) Diisopropyl ether	3.770	45	114295	19.604	ug/l	100
21) 1,1-Dichloroethane	3.605	63	64488	19.365	ug/l	100
22) cis-1,2-Dichloroethene	4.489	96	43683	19.289	ug/l	100
23) tert-Butyl Alcohol	2.995	59	42269	95.349	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	112124	19.408	ug/l	100
25) Chloroform	5.093	83	66460	19.637	ug/l	100
26) Cyclohexane	5.464	56	55797	19.290	ug/l #	100
29) 1,1-Dichloropropene	5.690	75	43391	19.505	ug/l	100
30) 2-Butanone	4.568	43	155413	104.553	ug/l	100
31) 2,2-Dichloropropane	4.471	77	47510	19.490	ug/l	100
32) 1,1,1-Trichloroethane	5.385	97	55357	19.639	ug/l	100
33) Carbon Tetrachloride	5.672	117	47792	19.650	ug/l	100
34) Benzene	6.037	78	150839	20.354	ug/l	100
35) Methacrylonitrile	4.928	41	30037	20.118	ug/l	100
36) 1,2-Dichloroethane	6.086	62	46987	20.352	ug/l	100
37) Trichloroethene	7.129	130	39456	19.492	ug/l	100
38) Methylcyclohexane	7.379	83	57508	19.516	ug/l	100
39) 1,2-Dichloropropane	7.427	63	35526	20.125	ug/l	100
40) Dibromomethane	7.580	93	25969	19.886	ug/l	100
41) Bromodichloromethane	7.824	83	45410	19.410	ug/l	100
42) Vinyl Acetate	3.721	43	502069	100.908	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	55392	19.874	ug/l	100
44) Isopropyl Acetate	6.348	43	83054	19.896	ug/l	100
45) 1,4-Dioxane	7.665	88	20483m	395.764	ug/l	
46) Methyl methacrylate	7.696	41	41248	20.209	ug/l	100
47) n-amyl Acetate	10.842	43	72621	19.384	ug/l	100
48) t-1,3-Dichloropropene	8.982	75	45744	18.991	ug/l	100
49) cis-1,3-Dichloropropene	8.366	75	52924	19.587	ug/l	100
50) 1,1,2-Trichloroethane	9.153	97	38433	20.240	ug/l	100
51) Ethyl methacrylate	9.116	69	58781	19.487	ug/l	100
52) 1,3-Dichloropropane	9.311	76	62932	20.273	ug/l	100
53) Dibromochloromethane	9.519	129	39875	19.189	ug/l	100
54) 1,2-Dibromoethane	9.610	107	40858	20.405	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	147374	104.965	ug/l	100
56) Bromoform	10.799	173	31567	18.630	ug/l	100
58) 4-Methyl-2-Pentanone	8.574	43	296271	104.365	ug/l	100
59) 2-Hexanone	9.433	43	227598	103.874	ug/l	100
61) Tetrachloroethene	9.275	164	41114	20.624	ug/l	100
62) Toluene	8.720	91	163029	20.336	ug/l	100
64) Chlorobenzene	10.079	112	110571	20.254	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	37309	19.789	ug/l	100
66) Ethyl Benzene	10.195	91	176453	20.132	ug/l	100
67) m/p-Xylenes	10.299	106	141933	40.260	ug/l	100
68) o-Xylene	10.640	106	71250	20.271	ug/l	100
69) Styrene	10.659	104	119657	20.372	ug/l	100
70) Isopropylbenzene	10.963	105	179530	20.314	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	62872	20.556	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	49828m	19.007	ug/l	
73) Bromobenzene	11.201	156	51492	19.975	ug/l	100
74) n-propylbenzene	11.305	91	194337	20.018	ug/l	100
75) 2-Chlorotoluene	11.366	91	124991	20.276	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	151162	20.417	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	16530	18.037	ug/l	100
78) 4-Chlorotoluene	11.451	91	136571	19.943	ug/l	100
79) tert-butylbenzene	11.713	119	158155	20.124	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	148738	20.109	ug/l	100
81) sec-Butylbenzene	11.890	105	183607	20.030	ug/l	100
82) p-Isopropyltoluene	12.006	119	159380	19.842	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	91279	19.859	ug/l	100
84) 1,4-Dichlorobenzene	12.043	146	89635	19.592	ug/l	100
85) n-Butylbenzene	12.329	91	117051	18.844	ug/l	100
86) Hexachloroethane	12.536	117	24587	18.743	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	92965	20.000	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.945	75	12029	19.014	ug/l	100
89) 1,2,4-Trichlorobenzene	13.585	180	57853	18.386	ug/l	100
90) Hexachlorobutadiene	13.725	225	30147	19.443	ug/l	100
91) Naphthalene	13.774	128	182976	19.245	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	61883	18.990	ug/l	100

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

