

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032423\
 Data File : VN077173.D
 Acq On : 24 Mar 2023 10:43
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/27/2023
 Supervised By : Semsettin Yesilyurt 03/27/2023

Quant Time: Mar 24 23:26:06 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N032423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 24 05:55:38 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.825	128	39844	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.101	114	273799	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	305925	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.584	65	125114	30.920	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 103.067%	
60) 4-Bromofluorobenzene	12.854	95	166298	30.259	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 100.867%	
63) Toluene-d8	10.566	98	338574	31.003	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 103.333%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	61202	23.328	ug/l	99
3) Chloromethane	2.378	50	84355	20.204	ug/l	95
4) Vinyl Chloride	2.531	62	114365	19.428	ug/l	97
5) Bromomethane	2.966	94	119115	28.859	ug/l	98
6) Chloroethane	3.137	64	119293	24.309	ug/l	97
7) Trichlorofluoromethane	3.513	101	166327	19.628	ug/l	96
8) Diethyl Ether	3.972	74	58072	19.531	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.384	101	92659	20.912	ug/l	99
10) 1,1-Dichloroethene	4.354	96	86400	20.840	ug/l	85
11) Methyl Iodide	4.601	142	89491	20.268	ug/l	98
12) Methyl Acetate	5.043	43	171783	19.215	ug/l	98
13) Acrolein	4.190	56	114042	94.129	ug/l	95
14) Acrylonitrile	5.731	53	256500	94.582	ug/l	97
15) Acetone	4.437	58	79402	111.976	ug/l	91
16) Carbon Disulfide	4.731	76	239443	20.449	ug/l	100
17) Allyl chloride	5.037	41	137449	18.850	ug/l	93
18) Methylene Chloride	5.290	84	104147	20.440	ug/l	89
19) trans-1,2-Dichloroethene	5.795	96	89486	20.147	ug/l	89
20) Diisopropyl ether	6.684	45	351213	21.262	ug/l #	92
21) 1,1-Dichloroethane	6.572	63	194581	20.923	ug/l	96
22) cis-1,2-Dichloroethene	7.489	96	110865	21.140	ug/l	98
23) tert-Butyl Alcohol	5.525	59	77219	83.887	ug/l #	100
24) Methyl tert-Butyl Ether	5.807	73	288461	19.597	ug/l	99
25) Chloroform	7.972	83	191891	21.088	ug/l	98
26) Cyclohexane	8.260	56	158333	20.186	ug/l #	96
29) 1,1-Dichloropropene	8.378	75	136187	20.504	ug/l	98
30) 2-Butanone	7.489	43	379084	98.933	ug/l	97
31) 2,2-Dichloropropane	7.495	77	146264	23.508	ug/l #	64
32) 1,1,1-Trichloroethane	8.178	97	160182	20.002	ug/l	99
33) Carbon Tetrachloride	8.372	117	138366	20.567	ug/l	92
34) Benzene	8.613	78	417023	20.483	ug/l	96
35) Methacrylonitrile	7.789	41	83232	19.788	ug/l	94
36) 1,2-Dichloroethane	8.672	62	160431	21.374	ug/l	100
37) Trichloroethene	9.354	130	94165	20.458	ug/l	99
38) Methylcyclohexane	9.607	83	158438	20.039	ug/l	96
39) 1,2-Dichloropropane	9.625	63	112082	20.564	ug/l	94
40) Dibromomethane	9.713	93	72968	20.935	ug/l	99
41) Bromodichloromethane	9.889	83	146381	20.624	ug/l	99
42) Vinyl Acetate	6.613	43	1127156	98.139	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.572	43	147508	19.270	ug/l	97
44) Isopropyl Acetate	8.689	43	228230	18.475	ug/l	99
45) 1,4-Dioxane	9.695	88	38620	384.481	ug/l	98
46) Methyl methacrylate	9.683	41	114274	20.063	ug/l	92
47) n-amyl Acetate	12.501	43	184647	17.766	ug/l	96
48) t-1,3-Dichloropropene	10.836	75	140607	19.504	ug/l	99
49) cis-1,3-Dichloropropene	10.313	75	162662	20.610	ug/l	100
50) 1,1,2-Trichloroethane	11.019	97	97093	19.845	ug/l	98
51) Ethyl methacrylate	10.878	69	141486	18.729	ug/l	96
52) 1,3-Dichloropropane	11.166	76	177561	20.445	ug/l	98
53) Dibromochloromethane	11.360	129	102322	20.199	ug/l	97
54) 1,2-Dibromoethane	11.472	107	97481	20.247	ug/l	96
55) 2-Chloroethyl vinyl ether	10.166	63	290707	92.041	ug/l	98
56) Bromoform	12.583	173	67056	18.864	ug/l	99
58) 4-Methyl-2-Pentanone	10.448	43	745196	94.381	ug/l	98
59) 2-Hexanone	11.201	43	538641	93.563	ug/l	99
61) Tetrachloroethene	11.107	164	76693	19.974	ug/l	95
62) Toluene	10.636	91	437143	20.331	ug/l	99
64) Chlorobenzene	11.895	112	261349	20.545	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.960	131	94296	20.185	ug/l	97
66) Ethyl Benzene	11.966	91	463335	20.055	ug/l	98
67) m/p-Xylenes	12.072	106	365691	41.131	ug/l	96
68) o-Xylene	12.401	106	174408	20.035	ug/l	98
69) Styrene	12.413	104	276655	19.572	ug/l	97
70) Isopropylbenzene	12.701	105	450908	19.975	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.942	83	151054	20.443	ug/l	97
72) 1,2,3-Trichloropropane	12.995	75	132637m	20.281	ug/l	
73) Bromobenzene	12.983	156	100240	19.863	ug/l	96
74) n-propylbenzene	13.036	91	528732	20.232	ug/l	100
75) 2-Chlorotoluene	13.130	91	319355	20.268	ug/l	98
76) 1,3,5-Trimethylbenzene	13.177	105	380270	20.295	ug/l	96
77) t-1,4-Dichloro-2-butene	12.742	75	40440	19.397	ug/l	89
78) 4-Chlorotoluene	13.224	91	295144	19.472	ug/l	97
79) tert-butylbenzene	13.442	119	316880	19.796	ug/l	97
80) 1,2,4-Trimethylbenzene	13.483	105	371466	19.977	ug/l	99
81) sec-Butylbenzene	13.619	105	457403	19.790	ug/l	98
82) p-Isopropyltoluene	13.736	119	368786	19.905	ug/l	98
83) 1,3-Dichlorobenzene	13.736	146	188015	20.121	ug/l	100
84) 1,4-Dichlorobenzene	13.813	146	176263	19.364	ug/l	96
85) n-Butylbenzene	14.060	91	294893	18.831	ug/l	99
86) Hexachloroethane	14.336	117	68924	19.508	ug/l	94
87) 1,2-Dichlorobenzene	14.107	146	183306	19.617	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.724	75	25623	18.073	ug/l	94
89) 1,2,4-Trichlorobenzene	15.395	180	69010	16.555	ug/l	94
90) Hexachlorobutadiene	15.507	225	48400	20.581	ug/l	95
91) Naphthalene	15.648	128	215503	15.754	ug/l	98
92) 1,2,3-Trichlorobenzene	15.842	180	71707	17.323	ug/l	99

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

