

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032423\
 Data File : VN077174.D
 Acq On : 24 Mar 2023 11:09
 Operator : JC\MD
 Sample : VN0324WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0324WBS01

Manual Integrations
 APPROVED

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

Quant Time: Mar 24 23:26:57 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	43949	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	307332	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	341818	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.589	65	138072	30.935	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.100%			
60) 4-Bromofluorobenzene	12.854	95	182762	29.763	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.200%			
63) Toluene-d8	10.572	98	368474	30.198	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.667%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.143	85	62695	21.665	ug/l	93
3) Chloromethane	2.378	50	96153	20.879	ug/l	98
4) Vinyl Chloride	2.525	62	137033	21.105	ug/l	98
5) Bromomethane	2.972	94	121401	26.666	ug/l	99
6) Chloroethane	3.131	64	124046	22.917	ug/l	98
7) Trichlorofluoromethane	3.513	101	184736	19.765	ug/l	97
8) Diethyl Ether	3.978	74	63890	19.481	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.390	101	98823	20.220	ug/l	94
10) 1,1-Dichloroethene	4.354	96	90067	19.695	ug/l	91
11) Methyl Iodide	4.607	142	102811	21.109	ug/l	99
12) Methyl Acetate	5.037	43	187880	19.052	ug/l	96
13) Acrolein	4.190	56	132805	99.377	ug/l	97
14) Acrylonitrile	5.731	53	280877	93.897	ug/l	99
15) Acetone	4.437	58	94014	120.198	ug/l	97
16) Carbon Disulfide	4.731	76	257830	19.963	ug/l	100
17) Allyl chloride	5.043	41	164711	20.479	ug/l	94
18) Methylene Chloride	5.296	84	115029	20.467	ug/l #	94
19) trans-1,2-Dichloroethene	5.801	96	97139	19.827	ug/l	94
20) Diisopropyl ether	6.684	45	367445	20.167	ug/l	96
21) 1,1-Dichloroethane	6.578	63	207127	20.192	ug/l #	94
22) cis-1,2-Dichloroethene	7.495	96	118432	20.474	ug/l	99
23) tert-Butyl Alcohol	5.537	59	86187	84.884	ug/l #	100
24) Methyl tert-Butyl Ether	5.807	73	319636	19.687	ug/l	98
25) Chloroform	7.972	83	204470	20.372	ug/l	100
26) Cyclohexane	8.266	56	181054	20.926	ug/l #	99
29) 1,1-Dichloropropene	8.378	75	151784	20.359	ug/l	97
30) 2-Butanone	7.489	43	432925	100.656	ug/l	97
31) 2,2-Dichloropropane	7.495	77	159849	22.888	ug/l #	64
32) 1,1,1-Trichloroethane	8.172	97	172885	19.233	ug/l	98
33) Carbon Tetrachloride	8.372	117	151364	20.044	ug/l	94
34) Benzene	8.613	78	448285	19.616	ug/l	98
35) Methacrylonitrile	7.784	41	90221	19.109	ug/l	97
36) 1,2-Dichloroethane	8.678	62	168062	19.948	ug/l	99
37) Trichloroethene	9.354	130	104824	20.289	ug/l	100
38) Methylcyclohexane	9.607	83	171894	19.368	ug/l	94
39) 1,2-Dichloropropane	9.625	63	120744	19.736	ug/l	96
40) Dibromomethane	9.713	93	77884	19.907	ug/l	95
41) Bromodichloromethane	9.889	83	155472	19.515	ug/l	100
42) Vinyl Acetate	6.613	43	1240971	96.260	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.572	43	165498	19.261	ug/l	100
44) Isopropyl Acetate	8.695	43	255598	18.433	ug/l	100
45) 1,4-Dioxane	9.695	88	40185	356.411	ug/l	96
46) Methyl methacrylate	9.683	41	124395	19.457	ug/l	97
47) n-amyl Acetate	12.495	43	209737	17.979	ug/l	96
48) t-1,3-Dichloropropene	10.836	75	161143	19.913	ug/l	98
49) cis-1,3-Dichloropropene	10.319	75	174966	19.750	ug/l	96
50) 1,1,2-Trichloroethane	11.019	97	108041	19.673	ug/l	96
51) Ethyl methacrylate	10.878	69	156943	18.509	ug/l	96
52) 1,3-Dichloropropane	11.166	76	193244	19.823	ug/l	99
53) Dibromochloromethane	11.360	129	109929	19.333	ug/l	100
54) 1,2-Dibromoethane	11.472	107	106582	19.722	ug/l	98
55) 2-Chloroethyl vinyl ether	10.166	63	312889	88.255	ug/l	98
56) Bromoform	12.583	173	74681	18.717	ug/l	98
58) 4-Methyl-2-Pentanone	10.448	43	824006	93.403	ug/l	97
59) 2-Hexanone	11.201	43	611223	95.022	ug/l	98
61) Tetrachloroethene	11.107	164	87989	20.510	ug/l	93
62) Toluene	10.630	91	475891	19.809	ug/l	100
64) Chlorobenzene	11.895	112	280354	19.725	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.966	131	101837	19.510	ug/l	96
66) Ethyl Benzene	11.966	91	518744	20.096	ug/l	99
67) m/p-Xylenes	12.072	106	397463	40.011	ug/l	95
68) o-Xylene	12.401	106	194550	20.002	ug/l	99
69) Styrene	12.413	104	307817	19.490	ug/l	98
70) Isopropylbenzene	12.701	105	501880	19.899	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.942	83	158032	19.142	ug/l	99
72) 1,2,3-Trichloropropane	12.995	75	145988m	19.978	ug/l	
73) Bromobenzene	12.983	156	109990	19.507	ug/l	96
74) n-propylbenzene	13.042	91	578846	19.824	ug/l	99
75) 2-Chlorotoluene	13.130	91	353273	20.066	ug/l	98
76) 1,3,5-Trimethylbenzene	13.177	105	410585	19.612	ug/l	97
77) t-1,4-Dichloro-2-butene	12.742	75	45111	19.366	ug/l	98
78) 4-Chlorotoluene	13.224	91	329786	19.473	ug/l	95
79) tert-butylbenzene	13.442	119	354036	19.795	ug/l	96
80) 1,2,4-Trimethylbenzene	13.483	105	416083	20.027	ug/l	96
81) sec-Butylbenzene	13.618	105	502625	19.463	ug/l	99
82) p-Isopropyltoluene	13.730	119	414479	20.022	ug/l	98
83) 1,3-Dichlorobenzene	13.736	146	205143	19.649	ug/l	100
84) 1,4-Dichlorobenzene	13.813	146	194443	19.118	ug/l	96
85) n-Butylbenzene	14.060	91	335603	19.180	ug/l	98
86) Hexachloroethane	14.336	117	76533	19.387	ug/l	96
87) 1,2-Dichlorobenzene	14.113	146	202397	19.385	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.724	75	29041	18.333	ug/l	94
89) 1,2,4-Trichlorobenzene	15.401	180	82624	17.740	ug/l	99
90) Hexachlorobutadiene	15.507	225	54030	20.563	ug/l	96
91) Naphthalene	15.648	128	259096	16.952	ug/l	98
92) 1,2,3-Trichlorobenzene	15.842	180	81956	17.720	ug/l	100

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

