

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111021\
 Data File : VN069439.D
 Acq On : 10 Nov 2021 13:50
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/11/2021
 Supervised By : Semsettin Yesilyurt 11/16/2021

Quant Time: Nov 10 14:20:49 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N111021W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Nov 10 14:06:09 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.662	128	201238	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	1120146	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.747	117	1072447	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	500890	31.956	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 106.533%	
60) 4-Bromofluorobenzene	12.733	95	538418	29.279	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 97.600%	
63) Toluene-d8	10.443	98	1456818	30.066	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 100.233%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.073	85	1548232	116.356	ug/l	98
3) Chloromethane	2.303	50	1575611	113.898	ug/l	96
4) Vinyl Chloride	2.445	62	1587453	96.270	ug/l	99
5) Bromomethane	2.829	94	971987	89.874	ug/l	99
6) Chloroethane	3.006	64	973869	91.111	ug/l	97
7) Trichlorofluoromethane	3.368	101	2259227	105.804	ug/l	98
8) Diethyl Ether	3.821	74	715433	94.631	ug/l	81
9) 1,1,2-Trichlorotrifluo...	4.202	101	1047862	90.328	ug/l	72
10) 1,1-Dichloroethene	4.175	96	1007649	89.030	ug/l	89
11) Methyl Iodide	4.417	142	1497574	94.104	ug/l	97
12) Methyl Acetate	4.857	43	2880885	133.650	ug/l	90
13) Acrolein	4.039	56	371186	285.829	ug/l	97
14) Acrylonitrile	5.557	53	4035865	659.868	ug/l	99
15) Acetone	4.291	58	1258890	658.438	ug/l	80
16) Carbon Disulfide	4.524	76	2685137	88.292	ug/l	98
17) Allyl chloride	4.838	41	2226858	114.254	ug/l	91
18) Methylene Chloride	5.093	84	1261977	93.833	ug/l #	87
19) trans-1,2-Dichloroethene	5.594	96	1131243	92.044	ug/l	88
20) Diisopropyl ether	6.501	45	4718901	113.342	ug/l	95
21) 1,1-Dichloroethane	6.388	63	2369274	101.957	ug/l	99
22) cis-1,2-Dichloroethene	7.327	96	1407062	95.517	ug/l	94
23) tert-Butyl Alcohol	5.388	59	1410264	561.979	ug/l #	100
24) Methyl tert-Butyl Ether	5.618	73	4158325	96.866	ug/l	97
25) Chloroform	7.820	83	2441649	98.329	ug/l	100
26) Cyclohexane	8.096	56	2289574	106.969	ug/l #	88
29) 1,1-Dichloropropene	8.222	75	1793421	101.734	ug/l	96
30) 2-Butanone	7.337	43	6398929	755.978	ug/l	92
31) 2,2-Dichloropropane	7.327	77	1962759	92.940	ug/l	97
32) 1,1,1-Trichloroethane	8.016	97	2115655	96.456	ug/l	95
33) Carbon Tetrachloride	8.209	117	1788710	96.010	ug/l	98
34) Benzene	8.461	78	5426601	103.092	ug/l	100
35) Methacrylonitrile	7.640	41	1223050	144.985	ug/l	91
36) 1,2-Dichloroethane	8.531	62	2072414	109.088	ug/l	99
37) Trichloroethene	9.217	130	1332333	99.540	ug/l	93
38) Methylcyclohexane	9.461	83	2259129	100.667	ug/l	91
39) 1,2-Dichloropropane	9.491	63	1452625	108.220	ug/l	100
40) Dibromomethane	9.577	93	965596	102.892	ug/l	95
41) Bromodichloromethane	9.765	83	1901394	101.396	ug/l	96
42) Vinyl Acetate	6.436	43	19002077	629.144	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.418	43	2377833	144.009	ug/l	97
44) Isopropyl Acetate	8.563	43	3849925	125.924	ug/l	96
45) 1,4-Dioxane	9.571	88	618736	2528.692	ug/l	90
46) Methyl methacrylate	9.561	41	1784023	129.086	ug/l	85
47) n-amyl Acetate	12.388	43	3199711	123.273	ug/l	96
48) t-1,3-Dichloropropene	10.719	75	2141609	98.738	ug/l	98
49) cis-1,3-Dichloropropene	10.191	75	2278891	100.897	ug/l	96
50) 1,1,2-Trichloroethane	10.899	97	1386651	102.955	ug/l	96
51) Ethyl methacrylate	10.762	69	2422368	109.105	ug/l	91
52) 1,3-Dichloropropane	11.047	76	2385470	105.272	ug/l	99
53) Dibromochloromethane	11.240	129	1441916	100.285	ug/l	99
54) 1,2-Dibromoethane	11.347	107	1481366	105.212	ug/l	97
55) 2-Chloroethyl vinyl ether	10.043	63	2909755	412.792	ug/l	97
56) Bromoform	12.460	173	1078625	104.071	ug/l #	100
58) 4-Methyl-2-Pentanone	10.333	43	12485015	690.055	ug/l	96
59) 2-Hexanone	11.087	43	9466102	692.821	ug/l	96
61) Tetrachloroethene	10.979	164	1177579	101.031	ug/l	95
62) Toluene	10.507	91	6119267	97.961	ug/l	99
64) Chlorobenzene	11.771	112	3712712	97.999	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.843	131	1359341	96.443	ug/l	99
66) Ethyl Benzene	11.846	91	6903574	98.300	ug/l	99
67) m/p-Xylenes	11.953	106	5182413	196.226	ug/l	98
68) o-Xylene	12.280	106	2600504	98.336	ug/l	97
69) Styrene	12.296	104	4337505	98.977	ug/l	98
70) Isopropylbenzene	12.581	105	6835262	98.590	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.827	83	2236668	110.070	ug/l	98
72) 1,2,3-Trichloropropane	12.881	75	2142692m	122.716	ug/l	
73) Bromobenzene	12.862	156	1591975	101.305	ug/l	94
74) n-propylbenzene	12.921	91	7957114	99.941	ug/l	99
75) 2-Chlorotoluene	13.007	91	4781845	98.085	ug/l	97
76) 1,3,5-Trimethylbenzene	13.061	105	5637606	97.564	ug/l	99
77) t-1,4-Dichloro-2-butene	12.626	75	691725	101.300	ug/l	94
78) 4-Chlorotoluene	13.106	91	4646557	97.250	ug/l	96
79) tert-butylbenzene	13.326	119	4979606	98.146	ug/l	100
80) 1,2,4-Trimethylbenzene	13.369	105	5524120m	97.386	ug/l	
81) sec-Butylbenzene	13.503	105	7065775	99.482	ug/l	100
82) p-Isopropyltoluene	13.616	119	5710529	98.571	ug/l	99
83) 1,3-Dichlorobenzene	13.616	146	2794510	101.010	ug/l	99
84) 1,4-Dichlorobenzene	13.696	146	2701368	100.273	ug/l	99
85) n-Butylbenzene	13.943	91	4948247	102.126	ug/l	99
86) Hexachloroethane	14.211	117	1010890	93.191	ug/l	89
87) 1,2-Dichlorobenzene	13.989	146	2642676	99.971	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.603	75	427197	112.866	ug/l	98
89) 1,2,4-Trichlorobenzene	15.265	180	1365605	102.459	ug/l	97
90) Hexachlorobutadiene	15.370	225	699365	100.363	ug/l	99
91) Naphthalene	15.507	128	4000681	103.771	ug/l	99
92) 1,2,3-Trichlorobenzene	15.700	180	1324180	103.956	ug/l	99

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

