

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111021\
 Data File : VN069438.D
 Acq On : 10 Nov 2021 13:24
 Operator : JC/MD
 Sample : VSTDICC050
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Manual Integrations
 APPROVED

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

Quant Time: Nov 10 13:58:28 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N111021W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Nov 10 13:52:12 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.662	128	183714	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	1065947	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.747	117	1011514	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	480624	33.588	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 111.967%#			
60) 4-Bromofluorobenzene	12.734	95	490656	28.289	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 94.300%			
63) Toluene-d8	10.443	98	1398875	30.610	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.033%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.073	85	740447	60.956	ug/l	98
3) Chloromethane	2.303	50	747548	59.193	ug/l	96
4) Vinyl Chloride	2.446	62	777581	51.654	ug/l	99
5) Bromomethane	2.851	94	452401	45.821	ug/l	98
6) Chloroethane	3.017	64	492786	50.501	ug/l	100
7) Trichlorofluoromethane	3.373	101	1121968	57.556	ug/l	98
8) Diethyl Ether	3.824	74	344828	49.962	ug/l	79
9) 1,1,2-Trichlorotrifluo...	4.205	101	512517	48.394	ug/l	72
10) 1,1-Dichloroethene	4.178	96	482477	46.695	ug/l	88
11) Methyl Iodide	4.419	142	688987	47.424	ug/l	97
12) Methyl Acetate	4.859	43	1396837	70.983	ug/l #	89
13) Acrolein	4.041	56	176302	148.710	ug/l	100
14) Acrylonitrile	5.559	53	1921410	344.118	ug/l	99
15) Acetone	4.291	58	680255	389.732	ug/l	77
16) Carbon Disulfide	4.529	76	1239819	44.656	ug/l	97
17) Allyl chloride	4.841	41	1047506	58.871	ug/l	91
18) Methylene Chloride	5.095	84	604711	49.251	ug/l #	87
19) trans-1,2-Dichloroethene	5.597	96	537483	47.904	ug/l	86
20) Diisopropyl ether	6.501	45	2263366	59.549	ug/l	96
21) 1,1-Dichloroethane	6.388	63	1127761	53.160	ug/l	99
22) cis-1,2-Dichloroethene	7.327	96	664066	49.379	ug/l	93
23) tert-Butyl Alcohol	5.385	59	670733	292.777	ug/l #	100
24) Methyl tert-Butyl Ether	5.621	73	1971969	50.318	ug/l	96
25) Chloroform	7.820	83	1169193	51.576	ug/l	99
26) Cyclohexane	8.096	56	1095935	56.086	ug/l #	88
29) 1,1-Dichloropropene	8.223	75	867894	51.736	ug/l	95
30) 2-Butanone	7.337	43	3213325	398.929	ug/l	92
31) 2,2-Dichloropropane	7.329	77	911783	45.370	ug/l	97
32) 1,1,1-Trichloroethane	8.016	97	1004498	48.125	ug/l	96
33) Carbon Tetrachloride	8.206	117	836292	47.171	ug/l	97
34) Benzene	8.461	78	2637728	52.658	ug/l	98
35) Methacrylonitrile	7.641	41	562732	70.100	ug/l	90
36) 1,2-Dichloroethane	8.531	62	998856	55.251	ug/l	99
37) Trichloroethene	9.218	130	628551	49.347	ug/l	93
38) Methylcyclohexane	9.462	83	1075045	50.340	ug/l	92
39) 1,2-Dichloropropane	9.491	63	701523	54.921	ug/l	98
40) Dibromomethane	9.580	93	466955	52.288	ug/l	96
41) Bromodichloromethane	9.765	83	887823	49.752	ug/l	96
42) Vinyl Acetate	6.436	43	8952143m	311.469	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.418	43	1145436	72.899	ug/l	97
44) Isopropyl Acetate	8.563	43	1819935	62.553	ug/l	95
45) 1,4-Dioxane	9.572	88	294161	1263.324	ug/l	88
46) Methyl methacrylate	9.561	41	842531	64.062	ug/l	84
47) n-amyl Acetate	12.388	43	1421339	57.543	ug/l	97
48) t-1,3-Dichloropropene	10.719	75	961528	46.585	ug/l	100
49) cis-1,3-Dichloropropene	10.191	75	1044821	48.611	ug/l	95
50) 1,1,2-Trichloroethane	10.899	97	666403	51.995	ug/l	95
51) Ethyl methacrylate	10.762	69	1125855	53.288	ug/l	92
52) 1,3-Dichloropropane	11.047	76	1145668	53.129	ug/l	100
53) Dibromochloromethane	11.240	129	651587	47.622	ug/l	99
54) 1,2-Dibromoethane	11.347	107	692102	51.655	ug/l	96
55) 2-Chloroethyl vinyl ether	10.044	63	1211844	180.659	ug/l	97
56) Bromoform	12.460	173	463963	47.042	ug/l #	100
58) 4-Methyl-2-Pentanone	10.333	43	6076750	356.098	ug/l	95
59) 2-Hexanone	11.087	43	4562931	354.077	ug/l	96
61) Tetrachloroethene	10.980	164	573432	52.162	ug/l	96
62) Toluene	10.508	91	2948874	50.051	ug/l	99
64) Chlorobenzene	11.771	112	1755523	49.129	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.843	131	640723	48.197	ug/l	100
66) Ethyl Benzene	11.846	91	3306932	49.924	ug/l	100
67) m/p-Xylenes	11.956	106	2441930	98.031	ug/l	96
68) o-Xylene	12.283	106	1214638	48.697	ug/l	96
69) Styrene	12.294	104	1996648	48.306	ug/l	98
70) Isopropylbenzene	12.581	105	3217554	49.205	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.827	83	1066034	55.621	ug/l	98
72) 1,2,3-Trichloropropane	12.881	75	1057259m	64.199	ug/l	
73) Bromobenzene	12.862	156	733387	49.480	ug/l	94
74) n-propylbenzene	12.921	91	3694784	49.202	ug/l	99
75) 2-Chlorotoluene	13.010	91	2225826	48.406	ug/l	97
76) 1,3,5-Trimethylbenzene	13.061	105	2643671	48.507	ug/l	99
77) t-1,4-Dichloro-2-butene	12.626	75	283912	44.082	ug/l	90
78) 4-Chlorotoluene	13.106	91	2145173	47.602	ug/l	95
79) tert-butylbenzene	13.324	119	2321175	48.505	ug/l	100
80) 1,2,4-Trimethylbenzene	13.369	105	2588346m	48.379	ug/l	
81) sec-Butylbenzene	13.503	105	3280867	48.975	ug/l	99
82) p-Isopropyltoluene	13.616	119	2625416	48.048	ug/l	99
83) 1,3-Dichlorobenzene	13.616	146	1282506	49.150	ug/l	99
84) 1,4-Dichlorobenzene	13.696	146	1247246	49.086	ug/l	99
85) n-Butylbenzene	13.943	91	2173953	47.571	ug/l	99
86) Hexachloroethane	14.214	117	436506	42.664	ug/l	89
87) 1,2-Dichlorobenzene	13.989	146	1238536	49.675	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.606	75	188391	52.771	ug/l	97
89) 1,2,4-Trichlorobenzene	15.265	180	580229	46.156	ug/l	97
90) Hexachlorobutadiene	15.373	225	326113	49.618	ug/l	99
91) Naphthalene	15.507	128	1649213	45.355	ug/l	99
92) 1,2,3-Trichlorobenzene	15.703	180	572411	47.645	ug/l	99

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

