

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042123\
 Data File : VN077417.D
 Acq On : 21 Apr 2023 09:50
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Quant Time: Apr 22 02:38:41 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N040723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 07 13:04:49 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John
 Carlone
 04/24/2023
 Supervised By :Mahesh
 Dadoda
 04/24/2023

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

Internal Standards						
1) Bromochloromethane	7.819	128	60903	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	465642	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	513827	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	154402	29.893	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.633%		
60) 4-Bromofluorobenzene	12.854	95	258613	29.107	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	97.033%		
63) Toluene-d8	10.571	98	525912	29.115	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.033%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.137	85	110459	19.078	ug/l	96
3) Chloromethane	2.372	50	104495	13.585	ug/l	99
4) Vinyl Chloride	2.525	62	146730	13.318	ug/l	93
5) Bromomethane	2.960	94	121847	14.676	ug/l	95
6) Chloroethane	3.125	64	110562	14.971	ug/l	98
7) Trichlorofluoromethane	3.507	101	203552	19.842	ug/l	96
8) Diethyl Ether	3.972	74	78069	17.854	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.378	101	131139	20.442	ug/l	97
10) 1,1-Dichloroethene	4.348	96	116205	18.107	ug/l	93
11) Methyl Iodide	4.601	142	148102	20.427	ug/l	97
12) Methyl Acetate	5.031	43	151300	15.824	ug/l	89
13) Acrolein	4.184	56	101625	85.630	ug/l	99
14) Acrylonitrile	5.731	53	256324	78.429	ug/l	98
15) Acetone	4.442	58	85461	72.079	ug/l	86
16) Carbon Disulfide	4.719	76	276219	16.307	ug/l #	93
17) Allyl chloride	5.031	41	131533	15.922	ug/l	93
18) Methylene Chloride	5.284	84	132330	17.756	ug/l	92
19) trans-1,2-Dichloroethene	5.795	96	130529	18.706	ug/l	95
20) Diisopropyl ether	6.678	45	324834	16.498	ug/l	97
21) 1,1-Dichloroethane	6.578	63	221193	17.724	ug/l	99
22) cis-1,2-Dichloroethene	7.489	96	158713	18.658	ug/l	98
23) tert-Butyl Alcohol	5.525	59	101301	69.708	ug/l #	100
24) Methyl tert-Butyl Ether	5.807	73	411270	17.801	ug/l #	76
25) Chloroform	7.972	83	255039	18.857	ug/l	98
26) Cyclohexane	8.260	56	180094	16.607	ug/l #	92
29) 1,1-Dichloropropene	8.372	75	188629	18.700	ug/l	99
30) 2-Butanone	7.489	43	335832	70.404	ug/l	95
31) 2,2-Dichloropropane	7.495	77	224906	18.163	ug/l	99
32) 1,1,1-Trichloroethane	8.172	97	234210	18.867	ug/l	98
33) Carbon Tetrachloride	8.366	117	208701	19.698	ug/l	92
34) Benzene	8.613	78	568219	18.206	ug/l	99
35) Methacrylonitrile	7.789	41	72546	16.145	ug/l	97
36) 1,2-Dichloroethane	8.672	62	185799	18.988	ug/l	99
37) Trichloroethene	9.354	130	146134	19.142	ug/l	94
38) Methylcyclohexane	9.607	83	247518	18.092	ug/l	97
39) 1,2-Dichloropropane	9.624	63	134089	17.306	ug/l	99
40) Dibromomethane	9.713	93	104157	18.658	ug/l	99
41) Bromodichloromethane	9.889	83	205645	18.474	ug/l #	95
42) Vinyl Acetate	6.613	43	1210518m	87.684	ug/l	

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43) Ethyl Acetate	7.560	43	137709	15.604	ug/l	94
44) Isopropyl Acetate	8.695	43	246206	15.581	ug/l #	100
45) 1,4-Dioxane	9.695	88	52458	314.786	ug/l	98
46) Methyl methacrylate	9.683	41	107728	15.835	ug/l	90
47) n-amyl Acetate	12.495	43	209380	15.163	ug/l	96
48) t-1,3-Dichloropropene	10.836	75	218405	17.531	ug/l	99
49) cis-1,3-Dichloropropene	10.313	75	237760	17.940	ug/l	95
50) 1,1,2-Trichloroethane	11.019	97	151588	18.695	ug/l	98
51) Ethyl methacrylate	10.877	69	212154	17.037	ug/l	93
52) 1,3-Dichloropropane	11.166	76	245094	18.110	ug/l	99
53) Dibromochloromethane	11.360	129	159927	18.713	ug/l	99
54) 1,2-Dibromoethane	11.471	107	149935	18.419	ug/l	97
55) 2-Chloroethyl vinyl ether	10.160	63	379551	98.723	ug/l	95
56) Bromoform	12.583	173	101708	17.717	ug/l	99
58) 4-Methyl-2-Pentanone	10.448	43	713139	74.126	ug/l	97
59) 2-Hexanone	11.195	43	532707	71.635	ug/l	98
61) Tetrachloroethene	11.107	164	112770	18.452	ug/l	96
62) Toluene	10.636	91	645626	18.009	ug/l	100
64) Chlorobenzene	11.895	112	401450	18.432	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.966	131	144891	18.090	ug/l	99
66) Ethyl Benzene	11.966	91	716086	18.029	ug/l	99
67) m/p-Xylenes	12.071	106	564190	36.240	ug/l	99
68) o-Xylene	12.401	106	282554	18.142	ug/l	100
69) Styrene	12.413	104	449159	18.000	ug/l	100
70) Isopropylbenzene	12.701	105	731817	18.514	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.942	83	208956	17.263	ug/l	99
72) 1,2,3-Trichloropropane	12.995	75	150825m	18.331	ug/l	
73) Bromobenzene	12.983	156	149786	18.652	ug/l	94
74) n-propylbenzene	13.036	91	805847	18.427	ug/l	100
75) 2-Chlorotoluene	13.130	91	484727	18.502	ug/l	98
76) 1,3,5-Trimethylbenzene	13.177	105	564872	17.559	ug/l	97
77) t-1,4-Dichloro-2-butene	12.736	75	62542	14.923	ug/l	91
78) 4-Chlorotoluene	13.224	91	459566	18.564	ug/l	99
79) tert-butylbenzene	13.442	119	521849	18.639	ug/l	98
80) 1,2,4-Trimethylbenzene	13.489	105	531535	16.949	ug/l	99
81) sec-Butylbenzene	13.618	105	738023	18.457	ug/l	100
82) p-Isopropyltoluene	13.730	119	571802	17.849	ug/l	99
83) 1,3-Dichlorobenzene	13.736	146	277662	18.236	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	271850	18.403	ug/l	97
85) n-Butylbenzene	14.059	91	456297	17.237	ug/l	99
86) Hexachloroethane	14.336	117	116859	17.148	ug/l	98
87) 1,2-Dichlorobenzene	14.107	146	280347	18.791	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.724	75	38548	16.619	ug/l	91
89) 1,2,4-Trichlorobenzene	15.365	180	75549	12.874	ug/l	99
90) Hexachlorobutadiene	15.465	225	59478	19.762	ug/l	97
91) Naphthalene	15.589	128	257227	11.474	ug/l	99
92) 1,2,3-Trichlorobenzene	15.759	180	69200	12.085	ug/l	97

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

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