

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021023\
 Data File : VN076601.D
 Acq On : 10 Feb 2023 10:10
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/13/2023
 Supervised By : Mahesh Dadoda 02/13/2023

Quant Time: Feb 11 00:48:30 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020923W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Feb 10 05:40:47 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.822	128	30563	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.104	114	215154	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.869	117	232368	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.586	65	105635	29.325	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.767%		
60) 4-Bromofluorobenzene	12.851	95	141298	26.935	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	89.767%		
63) Toluene-d8	10.569	98	247603	29.020	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	96.733%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.140	85	74481	17.607	ug/l	96
3) Chloromethane	2.375	50	81582	16.039	ug/l	98
4) Vinyl Chloride	2.528	62	74566	16.790	ug/l	97
5) Bromomethane	2.969	94	43782	19.636	ug/l	98
6) Chloroethane	3.134	64	41942	18.137	ug/l #	79
7) Trichlorofluoromethane	3.510	101	139499	18.498	ug/l	96
8) Diethyl Ether	3.981	74	45991	19.228	ug/l	88
9) 1,1,2-Trichlorotrifluo...	4.387	101	70734	19.485	ug/l	97
10) 1,1-Dichloroethene	4.357	96	64994	19.052	ug/l	82
11) Methyl Iodide	4.598	142	93598	18.885	ug/l	88
12) Methyl Acetate	5.040	43	129654	18.111	ug/l #	89
13) Acrolein	4.198	56	86434	94.264	ug/l	93
14) Acrylonitrile	5.728	53	195756	93.335	ug/l	97
15) Acetone	4.440	58	54882	90.627	ug/l	84
16) Carbon Disulfide	4.728	76	175881	18.760	ug/l	99
17) Allyl chloride	5.045	41	136853m	20.809	ug/l	
18) Methylene Chloride	5.292	84	77388	19.171	ug/l	90
19) trans-1,2-Dichloroethene	5.810	96	69059m	19.706	ug/l	
20) Diisopropyl ether	6.686	45	272272	18.137	ug/l	91
21) 1,1-Dichloroethane	6.581	63	147338	17.998	ug/l	97
22) cis-1,2-Dichloroethene	7.492	96	79137	18.846	ug/l	88
23) tert-Butyl Alcohol	5.534	59	65242	92.700	ug/l #	100
24) Methyl tert-Butyl Ether	5.810	73	242143	19.709	ug/l	93
25) Chloroform	7.975	83	147860	18.254	ug/l	96
26) Cyclohexane	8.263	56	124091	17.082	ug/l #	95
29) 1,1-Dichloropropene	8.375	75	109112	19.592	ug/l	93
30) 2-Butanone	7.486	43	287867	95.762	ug/l	95
31) 2,2-Dichloropropane	7.498	77	119994	20.752	ug/l	93
32) 1,1,1-Trichloroethane	8.175	97	133480	19.318	ug/l	97
33) Carbon Tetrachloride	8.369	117	116199	19.494	ug/l	96
34) Benzene	8.610	78	308067	18.003	ug/l #	92
35) Methacrylonitrile	7.786	41	67165	19.432	ug/l	90
36) 1,2-Dichloroethane	8.675	62	130698	19.918	ug/l	96
37) Trichloroethene	9.357	130	67801	19.352	ug/l	81
38) Methylcyclohexane	9.604	83	120373	19.528	ug/l	89
39) 1,2-Dichloropropane	9.622	63	80871	19.804	ug/l	100
40) Dibromomethane	9.716	93	53892	20.060	ug/l	97
41) Bromodichloromethane	9.892	83	114789	20.322	ug/l #	93
42) Vinyl Acetate	6.616	43	928765m	94.986	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.569	43	111100m	18.125	ug/l	
44) Isopropyl Acetate	8.692	43	190438	18.887	ug/l	99
45) 1,4-Dioxane	9.698	88	30017	365.197	ug/l #	85
46) Methyl methacrylate	9.686	41	94821	19.505	ug/l	85
47) n-amyl Acetate	12.498	43	167193	19.508	ug/l	94
48) t-1,3-Dichloropropene	10.839	75	115795	20.365	ug/l	93
49) cis-1,3-Dichloropropene	10.316	75	126680	20.154	ug/l	89
50) 1,1,2-Trichloroethane	11.022	97	71478	19.591	ug/l	98
51) Ethyl methacrylate	10.874	69	118232	20.409	ug/l	93
52) 1,3-Dichloropropane	11.169	76	133161	19.580	ug/l	99
53) Dibromochloromethane	11.363	129	77234	20.372	ug/l	98
54) 1,2-Dibromoethane	11.469	107	74634	20.216	ug/l	96
55) 2-Chloroethyl vinyl ether	10.163	63	262145	99.065	ug/l	98
56) Bromoform	12.580	173	49698	20.354	ug/l	98
58) 4-Methyl-2-Pentanone	10.445	43	589026	90.678	ug/l	96
59) 2-Hexanone	11.198	43	435791	92.271	ug/l	94
61) Tetrachloroethene	11.110	164	55487	18.681	ug/l	99
62) Toluene	10.633	91	319903	18.569	ug/l	98
64) Chlorobenzene	11.892	112	189692	19.007	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.963	131	71954	19.018	ug/l	97
66) Ethyl Benzene	11.969	91	356625	18.882	ug/l	99
67) m/p-Xylenes	12.074	106	268984	37.958	ug/l	95
68) o-Xylene	12.404	106	130191	18.648	ug/l	91
69) Styrene	12.416	104	212847	19.208	ug/l	95
70) Isopropylbenzene	12.698	105	345737	18.480	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.939	83	111831	17.145	ug/l	99
72) 1,2,3-Trichloropropane	12.998	75	110242m	18.505	ug/l	
73) Bromobenzene	12.980	156	75440	16.994	ug/l	99
74) n-propylbenzene	13.039	91	407828	16.996	ug/l	98
75) 2-Chlorotoluene	13.127	91	267762	17.740	ug/l	92
76) 1,3,5-Trimethylbenzene	13.174	105	300689	17.211	ug/l	97
77) t-1,4-Dichloro-2-butene	12.739	75	32253	17.949	ug/l	80
78) 4-Chlorotoluene	13.221	91	254089	16.742	ug/l	90
79) tert-butylbenzene	13.439	119	255089	17.202	ug/l	90
80) 1,2,4-Trimethylbenzene	13.486	105	302166	17.538	ug/l	93
81) sec-Butylbenzene	13.621	105	354399	17.068	ug/l	99
82) p-Isopropyltoluene	13.733	119	293663	17.601	ug/l	96
83) 1,3-Dichlorobenzene	13.733	146	139481	16.987	ug/l	95
84) 1,4-Dichlorobenzene	13.815	146	135836	16.581	ug/l	95
85) n-Butylbenzene	14.057	91	250906	16.195	ug/l	100
86) Hexachloroethane	14.333	117	53808	16.610	ug/l	95
87) 1,2-Dichlorobenzene	14.110	146	140996	15.643	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.727	75	24913	18.738	ug/l #	77
89) 1,2,4-Trichlorobenzene	15.392	180	70776	18.828	ug/l	99
90) Hexachlorobutadiene	15.504	225	34220	18.843	ug/l	98
91) Naphthalene	15.645	128	235001	18.322	ug/l	99
92) 1,2,3-Trichlorobenzene	15.845	180	63436	16.908	ug/l	99

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

