

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032422\
 Data File : VN071517.D
 Acq On : 24 Mar 2022 12:50
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN032422

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/25/2022
 Supervised By : Mahesh Dadoda 03/25/2022

Quant Time: Mar 25 08:38:06 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N032422W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 24 12:03:44 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.651	128	112954	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	628059	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	562376	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.433	65	241083	30.294	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.967%			
60) 4-Bromofluorobenzene	12.727	95	253205	30.365	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.233%			
63) Toluene-d8	10.439	98	785960	30.787	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.633%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.069	85	131409	18.691	ug/l	96
3) Chloromethane	2.299	50	150735	18.191	ug/l	96
4) Vinyl Chloride	2.440	62	167851	17.663	ug/l	96
5) Bromomethane	2.851	94	122361	21.851	ug/l	99
6) Chloroethane	3.016	64	114655	18.841	ug/l	92
7) Trichlorofluoromethane	3.375	101	202113	18.242	ug/l	95
8) Diethyl Ether	3.828	74	81721	17.554	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.216	101	125138	18.860	ug/l #	65
10) 1,1-Dichloroethene	4.181	96	117578	17.967	ug/l	95
11) Methyl Iodide	4.422	142	158302	16.508	ug/l	89
12) Methyl Acetate	4.851	43	156532	16.973	ug/l	96
13) Acrolein	4.040	56	81121	82.680	ug/l	97
14) Acrylonitrile	5.545	53	357473	85.584	ug/l	98
15) Acetone	4.281	58	120533	100.275	ug/l	90
16) Carbon Disulfide	4.528	76	300653	17.646	ug/l	97
17) Allyl chloride	4.840	41	184775	17.408	ug/l	89
18) Methylene Chloride	5.093	84	140651	17.916	ug/l	98
19) trans-1,2-Dichloroethene	5.598	96	125043	17.865	ug/l	98
20) Diisopropyl ether	6.492	45	405549	18.261	ug/l	94
21) 1,1-Dichloroethane	6.387	63	238335	17.775	ug/l	96
22) cis-1,2-Dichloroethene	7.322	96	152123	17.889	ug/l	97
23) tert-Butyl Alcohol	5.357	59	129063	86.595	ug/l #	100
24) Methyl tert-Butyl Ether	5.610	73	425048	17.997	ug/l	94
25) Chloroform	7.816	83	247899	18.383	ug/l	98
26) Cyclohexane	8.092	56	207888	17.937	ug/l #	96
29) 1,1-Dichloropropene	8.216	75	185492	18.247	ug/l	98
30) 2-Butanone	7.328	43	492264	86.993	ug/l	98
31) 2,2-Dichloropropane	7.322	77	208313	17.988	ug/l	99
32) 1,1,1-Trichloroethane	8.010	97	212051	17.910	ug/l	99
33) Carbon Tetrachloride	8.204	117	176974	17.658	ug/l	97
34) Benzene	8.457	78	562452	17.808	ug/l	98
35) Methacrylonitrile	7.628	41	98103	18.070	ug/l	93
36) 1,2-Dichloroethane	8.528	62	196242	17.810	ug/l #	95
37) Trichloroethene	9.216	130	145831	17.894	ug/l	99
38) Methylcyclohexane	9.457	83	234440	18.296	ug/l	98
39) 1,2-Dichloropropane	9.486	63	140435	17.772	ug/l	98
40) Dibromomethane	9.569	93	94289	17.629	ug/l	87
41) Bromodichloromethane	9.757	83	188180	17.582	ug/l	95
42) Vinyl Acetate	6.428	43	1698377	87.595	ug/l	96

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43) Ethyl Acetate	7.404	43	186148	16.964	ug/l	99
44) Isopropyl Acetate	8.557	43	299579	17.023	ug/l	95
45) 1,4-Dioxane	9.563	88	63070	355.203	ug/l	95
46) Methyl methacrylate	9.551	41	127608	16.535	ug/l	85
47) n-amyl Acetate	12.386	43	196647	16.745	ug/l	93
48) t-1,3-Dichloropropene	10.716	75	203761	17.515	ug/l	98
49) cis-1,3-Dichloropropene	10.186	75	220698	17.348	ug/l #	88
50) 1,1,2-Trichloroethane	10.892	97	142683	17.845	ug/l	98
51) Ethyl methacrylate	10.757	69	211991	17.171	ug/l	88
52) 1,3-Dichloropropane	11.039	76	244605	17.913	ug/l	98
53) Dibromochloromethane	11.233	129	143654	17.356	ug/l	99
54) 1,2-Dibromoethane	11.339	107	146139	17.768	ug/l	96
55) 2-Chloroethyl vinyl ether	10.039	63	244375	73.466	ug/l	98
56) Bromoform	12.451	173	105187	16.482	ug/l #	99
58) 4-Methyl-2-Pentanone	10.327	43	932387	87.339	ug/l	94
59) 2-Hexanone	11.080	43	683240	87.658	ug/l	92
61) Tetrachloroethene	10.974	164	128360	18.754	ug/l	93
62) Toluene	10.498	91	624848	18.324	ug/l	97
64) Chlorobenzene	11.763	112	382072	18.165	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.839	131	137683	17.843	ug/l	99
66) Ethyl Benzene	11.839	91	666702	17.991	ug/l	97
67) m/p-Xylenes	11.951	106	527491	36.590	ug/l	96
68) o-Xylene	12.274	106	257532	17.973	ug/l	98
69) Styrene	12.292	104	397646	17.633	ug/l	97
70) Isopropylbenzene	12.574	105	659511	18.338	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.821	83	207663	17.742	ug/l	99
72) 1,2,3-Trichloropropane	12.874	75	150982m	15.015	ug/l	
73) Bromobenzene	12.857	156	155608	17.736	ug/l	97
74) n-propylbenzene	12.916	91	708122	18.041	ug/l	98
75) 2-Chlorotoluene	13.004	91	443628	18.086	ug/l	99
76) 1,3,5-Trimethylbenzene	13.057	105	528996	18.335	ug/l	95
77) t-1,4-Dichloro-2-butene	12.621	75	59471	16.844	ug/l	96
78) 4-Chlorotoluene	13.098	91	411512	17.963	ug/l	99
79) tert-butylbenzene	13.321	119	471894	18.125	ug/l	94
80) 1,2,4-Trimethylbenzene	13.363	105	513885m	18.357	ug/l	
81) sec-Butylbenzene	13.498	105	627218	17.929	ug/l	97
82) p-Isopropyltoluene	13.610	119	513119	18.053	ug/l	97
83) 1,3-Dichlorobenzene	13.610	146	263093	18.326	ug/l	98
84) 1,4-Dichlorobenzene	13.692	146	248974	18.170	ug/l	98
85) n-Butylbenzene	13.939	91	367095	17.388	ug/l	96
86) Hexachloroethane	14.204	117	89208	16.807	ug/l	79
87) 1,2-Dichlorobenzene	13.986	146	255384	18.401	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.598	75	33863	16.260	ug/l	86
89) 1,2,4-Trichlorobenzene	15.262	180	113445	17.683	ug/l	96
90) Hexachlorobutadiene	15.368	225	73361	19.297	ug/l	99
91) Naphthalene	15.504	128	294465	18.795	ug/l	98
92) 1,2,3-Trichlorobenzene	15.692	180	113971	18.113	ug/l	95

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

