

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032422\
 Data File : VN071512.D
 Acq On : 24 Mar 2022 10:30
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

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

Quant Time: Mar 24 11:43:32 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N032422W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 24 11:41:47 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.657	128	109152	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	599725	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	532478	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.434	65	232478	27.401	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	91.333%		
60) 4-Bromofluorobenzene	12.727	95	235181	28.791	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	95.967%		
63) Toluene-d8	10.439	98	749579	30.594	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.967%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.069	85	140489	19.981	ug/l	98
3) Chloromethane	2.299	50	159469	17.501	ug/l	99
4) Vinyl Chloride	2.446	62	180300	20.710	ug/l	99
5) Bromomethane	2.858	94	119957	26.120	ug/l	98
6) Chloroethane	3.016	64	115540	21.631	ug/l	97
7) Trichlorofluoromethane	3.381	101	211539	19.506	ug/l	97
8) Diethyl Ether	3.828	74	87955	18.685	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.216	101	128869	20.758	ug/l #	67
10) 1,1-Dichloroethene	4.187	96	124365	19.880	ug/l	96
11) Methyl Iodide	4.428	142	179838	20.558	ug/l	87
12) Methyl Acetate	4.852	43	173729	15.301	ug/l	97
13) Acrolein	4.040	56	88783	61.955	ug/l	98
14) Acrylonitrile	5.546	53	389817	81.415	ug/l	98
15) Acetone	4.281	58	118845	91.956	ug/l	85
16) Carbon Disulfide	4.534	76	315907	18.782	ug/l	98
17) Allyl chloride	4.840	41	197906	16.064	ug/l	85
18) Methylene Chloride	5.099	84	148675	19.570	ug/l	94
19) trans-1,2-Dichloroethene	5.593	96	131512	19.937	ug/l	98
20) Diisopropyl ether	6.493	45	426691	16.933	ug/l	96
21) 1,1-Dichloroethane	6.381	63	253911	18.731	ug/l	98
22) cis-1,2-Dichloroethene	7.322	96	161159	20.122	ug/l	96
23) tert-Butyl Alcohol	5.351	59	134772	76.618	ug/l #	100
24) Methyl tert-Butyl Ether	5.616	73	449016	18.978	ug/l	91
25) Chloroform	7.816	83	258441	19.626	ug/l	98
26) Cyclohexane	8.092	56	218139	17.850	ug/l #	99
29) 1,1-Dichloropropene	8.216	75	189249	19.630	ug/l	99
30) 2-Butanone	7.328	43	531174	81.108	ug/l	98
31) 2,2-Dichloropropane	7.322	77	215728	22.980	ug/l	99
32) 1,1,1-Trichloroethane	8.010	97	220962	19.702	ug/l	97
33) Carbon Tetrachloride	8.204	117	188689	19.768	ug/l	96
34) Benzene	8.457	78	597428	19.999	ug/l	99
35) Methacrylonitrile	7.628	41	106373	16.742	ug/l	96
36) 1,2-Dichloroethane	8.528	62	206723	19.495	ug/l	96
37) Trichloroethene	9.216	130	150618	20.804	ug/l	97
38) Methylcyclohexane	9.457	83	237969	20.305	ug/l	97
39) 1,2-Dichloropropane	9.487	63	149070	19.055	ug/l	99
40) Dibromomethane	9.575	93	100418	20.012	ug/l	87
41) Bromodichloromethane	9.757	83	198084	19.636	ug/l	97
42) Vinyl Acetate	6.428	43	1791288	83.360	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.404	43	208538	16.361	ug/l	99
44) Isopropyl Acetate	8.557	43	317887	15.580	ug/l	95
45) 1,4-Dioxane	9.563	88	67924	364.761	ug/l	95
46) Methyl methacrylate	9.551	41	135461	14.962	ug/l	84
47) n-amyl Acetate	12.380	43	197728	14.632	ug/l	91
48) t-1,3-Dichloropropene	10.716	75	205927	18.773	ug/l	100
49) cis-1,3-Dichloropropene	10.186	75	231635	19.448	ug/l #	87
50) 1,1,2-Trichloroethane	10.892	97	149843	20.336	ug/l	99
51) Ethyl methacrylate	10.757	69	218514	17.695	ug/l	86
52) 1,3-Dichloropropane	11.039	76	257790	19.643	ug/l	98
53) Dibromochloromethane	11.233	129	150700	19.740	ug/l	100
54) 1,2-Dibromoethane	11.339	107	150538	19.789	ug/l	95
55) 2-Chloroethyl vinyl ether	10.039	63	302172	80.725	ug/l	99
56) Bromoform	12.451	173	113469	19.203	ug/l #	99
58) 4-Methyl-2-Pentanone	10.328	43	999370	81.990	ug/l	93
59) 2-Hexanone	11.081	43	725604	80.154	ug/l	91
61) Tetrachloroethene	10.975	164	131279	22.003	ug/l	89
62) Toluene	10.498	91	650569	21.163	ug/l	98
64) Chlorobenzene	11.763	112	389029	20.822	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.839	131	146261	21.105	ug/l	99
66) Ethyl Benzene	11.839	91	681892	20.235	ug/l	99
67) m/p-Xylenes	11.945	106	540556	42.184	ug/l	96
68) o-Xylene	12.275	106	265681	20.756	ug/l	96
69) Styrene	12.292	104	405874	20.115	ug/l	97
70) Isopropylbenzene	12.575	105	670445	20.665	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.822	83	224898	20.232	ug/l	98
72) 1,2,3-Trichloropropane	12.875	75	194593m	19.053	ug/l	
73) Bromobenzene	12.857	156	158491	20.754	ug/l	97
74) n-propylbenzene	12.916	91	707828	19.888	ug/l	98
75) 2-Chlorotoluene	13.004	91	453891	20.308	ug/l	99
76) 1,3,5-Trimethylbenzene	13.057	105	540816	20.938	ug/l	96
77) t-1,4-Dichloro-2-butene	12.622	75	58956	17.767	ug/l	99
78) 4-Chlorotoluene	13.098	91	411888	19.854	ug/l	98
79) tert-butylbenzene	13.322	119	482025	20.516	ug/l	94
80) 1,2,4-Trimethylbenzene	13.363	105	516415m	20.750	ug/l	
81) sec-Butylbenzene	13.498	105	634221	20.214	ug/l	97
82) p-Isopropyltoluene	13.610	119	507717	20.159	ug/l	97
83) 1,3-Dichlorobenzene	13.610	146	254390	20.461	ug/l	98
84) 1,4-Dichlorobenzene	13.692	146	242587	20.433	ug/l	98
85) n-Butylbenzene	13.939	91	350724	18.734	ug/l	96
86) Hexachloroethane	14.204	117	95700	19.891	ug/l	82
87) 1,2-Dichlorobenzene	13.986	146	258862	21.388	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.598	75	36807	17.613	ug/l #	83
89) 1,2,4-Trichlorobenzene	15.257	180	105926	19.038	ug/l	95
90) Hexachlorobutadiene	15.363	225	69330	21.700	ug/l	95
91) Naphthalene	15.498	128	270379	15.904	ug/l	98
92) 1,2,3-Trichlorobenzene	15.698	180	104641	18.487	ug/l	98

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

