

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020321\
 Data File : VN065701.D
 Acq On : 3 Feb 2021 15:16
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN020321

Manual Integrations
 APPROVED

MMDadoda
 2/4/2021 10:33:20 AM

Quant Time: Feb 04 04:18:03 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 03 14:50:04 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.151	128	31174	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.550	114	179065	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.376	117	156639	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.987	65	66185	30.61	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	102.03%	
60) 4-Bromofluorobenzene	12.370	95	76672	30.09	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	100.30%	
63) Toluene-d8	10.058	98	226553	30.08	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	100.27%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.837	85	37160	19.95	ug/l	93
3) Chloromethane	2.036	50	53940	19.75	ug/l	99
4) Vinyl Chloride	2.168	62	54037	20.00	ug/l	97
5) Bromomethane	2.537	94	34096	21.15	ug/l	99
6) Chloroethane	2.679	64	30704	19.69	ug/l	98
7) Trichlorofluoromethane	2.994	101	55512	19.82	ug/l	96
8) Diethyl Ether	3.380	74	25950	20.21	ug/l	91
9) 1,1,2-Trichlorotrifluo...	3.717	101	34364	20.08	ug/l	91
10) 1,1-Dichloroethene	3.698	96	36441	19.99	ug/l	96
11) Methyl Iodide	3.910	142	48367	18.83	ug/l	98
12) Methyl Acetate	4.287	43	42499	19.25	ug/l	93
13) Acrolein	3.570	56	32606	109.98	ug/l	99
14) Acrylonitrile	4.939	53	96373	98.21	ug/l	97
15) Acetone	3.782	58	30725	102.34	ug/l	87
16) Carbon Disulfide	4.007	76	113364	19.83	ug/l	99
17) Allyl chloride	4.274	41	70002	20.24	ug/l	91
18) Methylene Chloride	4.502	84	42099	19.59	ug/l	97
19) trans-1,2-Dichloroethene	4.988	96	40092	20.11	ug/l	90
20) Diisopropyl ether	5.907	45	140859	20.18	ug/l	97
21) 1,1-Dichloroethane	5.798	63	76211	19.79	ug/l	99
22) cis-1,2-Dichloroethene	6.782	96	45237	19.75	ug/l	93
23) tert-Butyl Alcohol	4.759	59	34991	99.67	ug/l #	100
24) Methyl tert-Butyl Ether	4.997	73	122293	20.07	ug/l	99
25) Chloroform	7.328	83	69346	19.85	ug/l	97
26) Cyclohexane	7.611	56	71430	19.82	ug/l #	90
29) 1,1-Dichloropropene	7.749	75	55272	19.12	ug/l	96
30) 2-Butanone	6.795	43	127252	98.31	ug/l	97
31) 2,2-Dichloropropane	6.775	77	59249	19.58	ug/l	99
32) 1,1,1-Trichloroethane	7.528	97	55283	19.28	ug/l	99
33) Carbon Tetrachloride	7.733	117	44716	18.87	ug/l	99
34) Benzene	8.000	78	176002	19.71	ug/l	98
35) Methacrylonitrile	7.129	41	23853	17.54	ug/l	91
36) 1,2-Dichloroethane	8.087	62	53656	20.00	ug/l	100
37) Trichloroethene	8.801	130	42086	19.51	ug/l	87
38) Methylcyclohexane	9.045	83	65740	19.18	ug/l	95
39) 1,2-Dichloropropane	9.081	63	48151	19.84	ug/l	97
40) Dibromomethane	9.174	93	27048	19.67	ug/l	82
41) Bromodichloromethane	9.370	83	53512	19.21	ug/l #	99
42) Vinyl Acetate	5.846	43	557639	98.35	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.888	43	51198	19.31	ug/l	96
44) Isopropyl Acetate	8.129	43	89391	19.50	ug/l	97
45) 1,4-Dioxane	9.171	88	15260	401.33	ug/l	87
46) Methyl methacrylate	9.167	41	42364	19.28	ug/l	95
47) n-amyl Acetate	12.042	43	73594	19.19	ug/l	95
48) t-1,3-Dichloropropene	10.351	75	63831	19.39	ug/l	97
49) cis-1,3-Dichloropropene	9.807	75	72668	19.49	ug/l	99
50) 1,1,2-Trichloroethane	10.531	97	40091	19.92	ug/l	95
51) Ethyl methacrylate	10.399	69	63008	19.44	ug/l	98
52) 1,3-Dichloropropane	10.675	76	71014	19.70	ug/l	99
53) Dibromochloromethane	10.872	129	38304	18.78	ug/l	99
54) 1,2-Dibromoethane	10.974	107	39294	19.48	ug/l	100
55) 2-Chloroethyl vinyl ether	9.663	63	146731	101.88	ug/l	97
56) Bromoform	12.097	173	24774	19.23	ug/l #	96
58) 4-Methyl-2-Pentanone	9.952	43	262621	100.94	ug/l	98
59) 2-Hexanone	10.720	43	183652	98.61	ug/l	99
61) Tetrachloroethene	10.598	164	41251	20.00	ug/l	92
62) Toluene	10.122	91	182027	19.87	ug/l	100
64) Chlorobenzene	11.402	112	106013	19.62	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.479	131	36223	19.28	ug/l	96
66) Ethyl Benzene	11.482	91	194597	19.85	ug/l	98
67) m/p-Xylenes	11.592	106	143916	39.42	ug/l	97
68) o-Xylene	11.916	106	70212	19.75	ug/l	96
69) Styrene	11.933	104	113444	19.74	ug/l	98
70) Isopropylbenzene	12.219	105	182305	19.96	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.476	83	53184	19.85	ug/l	99
72) 1,2,3-Trichloropropane	12.524	75	52024m	19.83	ug/l	
73) Bromobenzene	12.495	156	39184	19.05	ug/l	67
74) n-propylbenzene	12.563	91	210030	19.90	ug/l	96
75) 2-Chlorotoluene	12.643	91	125207	19.58	ug/l	93
76) 1,3,5-Trimethylbenzene	12.704	105	154452	20.20	ug/l	96
77) t-1,4-Dichloro-2-butene	12.270	75	18653	18.21	ug/l	94
78) 4-Chlorotoluene	12.743	91	126525	19.89	ug/l	93
79) tert-butylbenzene	12.965	119	123970	19.63	ug/l	96
80) 1,2,4-Trimethylbenzene	13.010	105	149040	19.47	ug/l	100
81) sec-Butylbenzene	13.142	105	165600	19.64	ug/l	96
82) p-Isopropyltoluene	13.261	119	151171	20.13	ug/l	98
83) 1,3-Dichlorobenzene	13.254	146	70446	19.57	ug/l	96
84) 1,4-Dichlorobenzene	13.334	146	68048	19.28	ug/l	97
85) n-Butylbenzene	13.585	91	126296	19.28	ug/l	97
86) Hexachloroethane	13.846	117	24286	18.63	ug/l	73
87) 1,2-Dichlorobenzene	13.624	146	70821	19.69	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	14.241	75	10047	19.46	ug/l #	75
89) 1,2,4-Trichlorobenzene	14.878	180	34284	18.28	ug/l	97
90) Hexachlorobutadiene	14.977	225	17341	20.39	ug/l	97
91) Naphthalene	15.100	128	102690	17.10	ug/l	99
92) 1,2,3-Trichlorobenzene	15.280	180	34879	18.54	ug/l	96

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

