

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012021\
 Data File : VN065560.D
 Acq On : 20 Jan 2021 10:02
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

SAM
 1/21/2021 6:33:11 PM

Quant Time: Jan 21 01:20:09 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N011321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jan 14 04:12:08 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.158	128	31018	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.550	114	160885	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.379	117	149855	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.990	65	55992	28.89	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	96.30%	
60) 4-Bromofluorobenzene	12.376	95	65843	29.01	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	96.70%	
63) Toluene-d8	10.058	98	197137	30.05	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	100.17%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.849	85	30861	20.00	ug/l	93
3) Chloromethane	2.055	50	38625	20.21	ug/l	98
4) Vinyl Chloride	2.180	62	42788	20.33	ug/l	100
5) Bromomethane	2.550	94	31726	21.13	ug/l	99
6) Chloroethane	2.688	64	27663	20.22	ug/l	99
7) Trichlorofluoromethane	3.004	101	59644	21.27	ug/l	97
8) Diethyl Ether	3.389	74	24233	21.24	ug/l	94
9) 1,1,2-Trichlorotrifluo...	3.724	101	37456	22.49	ug/l	99
10) 1,1-Dichloroethene	3.701	96	36877	21.62	ug/l	96
11) Methyl Iodide	3.917	142	56854	21.12	ug/l	98
12) Methyl Acetate	4.293	43	36542	21.87	ug/l	96
13) Acrolein	3.579	56	28472	100.81	ug/l	98
14) Acrylonitrile	4.946	53	76693	101.33	ug/l	98
15) Acetone	3.791	58	33849	145.84	ug/l	96
16) Carbon Disulfide	4.010	76	82527	19.90	ug/l	100
17) Allyl chloride	4.283	41	49444	20.45	ug/l	97
18) Methylene Chloride	4.511	84	39300	21.23	ug/l	96
19) trans-1,2-Dichloroethene	4.994	96	36543	21.29	ug/l	96
20) Diisopropyl ether	5.913	45	104506	20.63	ug/l	98
21) 1,1-Dichloroethane	5.804	63	65184	21.54	ug/l	98
22) cis-1,2-Dichloroethene	6.788	96	42216	21.23	ug/l	96
23) tert-Butyl Alcohol	4.775	59	23077	98.66	ug/l #	100
24) Methyl tert-Butyl Ether	5.007	73	104172	20.83	ug/l #	77
25) Chloroform	7.331	83	67252	21.54	ug/l	97
26) Cyclohexane	7.614	56	50811	20.00	ug/l #	98
29) 1,1-Dichloropropene	7.753	75	48936	21.40	ug/l	100
30) 2-Butanone	6.801	43	108916	118.12	ug/l	98
31) 2,2-Dichloropropane	6.782	77	53175	22.52	ug/l	98
32) 1,1,1-Trichloroethane	7.527	97	56773	21.96	ug/l	97
33) Carbon Tetrachloride	7.733	117	48845	21.47	ug/l	98
34) Benzene	8.003	78	151592	21.55	ug/l	95
35) Methacrylonitrile	7.129	41	15621	16.32	ug/l	98
36) 1,2-Dichloroethane	8.087	62	49203	21.19	ug/l	98
37) Trichloroethene	8.801	130	45937	21.93	ug/l	95
38) Methylcyclohexane	9.045	83	56243	21.20	ug/l	98
39) 1,2-Dichloropropane	9.084	63	40164	21.99	ug/l	98
40) Dibromomethane	9.174	93	26368	21.55	ug/l	99
41) Bromodichloromethane	9.370	83	51111	21.57	ug/l	99
42) Vinyl Acetate	5.856	43	408406	102.15	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.894	43	39352	19.97	ug/l	96
44) Isopropyl Acetate	8.132	43	66254	20.14	ug/l	98
45) 1,4-Dioxane	9.170	88	9821	419.70	ug/l	94
46) Methyl methacrylate	9.167	41	31518	19.41	ug/l	96
47) n-amyl Acetate	12.042	43	54209	19.05	ug/l	99
48) t-1,3-Dichloropropene	10.351	75	54345	20.67	ug/l	99
49) cis-1,3-Dichloropropene	9.807	75	62342	21.57	ug/l	97
50) 1,1,2-Trichloroethane	10.534	97	39380	21.99	ug/l	99
51) Ethyl methacrylate	10.399	69	50315	20.06	ug/l	96
52) 1,3-Dichloropropane	10.675	76	63645	21.44	ug/l	98
53) Dibromochloromethane	10.871	129	43104	21.74	ug/l	98
54) 1,2-Dibromoethane	10.977	107	40322	21.05	ug/l	99
55) 2-Chloroethyl vinyl ether	9.662	63	101540	92.44	ug/l	99
56) Bromoform	12.100	173	31647	20.50	ug/l	96
58) 4-Methyl-2-Pentanone	9.952	43	197995	99.55	ug/l	97
59) 2-Hexanone	10.723	43	151079	104.99	ug/l	98
61) Tetrachloroethene	10.601	164	54568	22.79	ug/l	98
62) Toluene	10.122	91	169009	21.60	ug/l	100
64) Chlorobenzene	11.405	112	110966	21.82	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.479	131	41036	21.47	ug/l	95
66) Ethyl Benzene	11.482	91	178814	20.91	ug/l	99
67) m/p-Xylenes	11.592	106	143644	42.94	ug/l	97
68) o-Xylene	11.920	106	68565	21.21	ug/l	97
69) Styrene	11.936	104	113905	21.10	ug/l	99
70) Isopropylbenzene	12.222	105	180102	21.31	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.476	83	49410	20.55	ug/l	99
72) 1,2,3-Trichloropropane	12.527	75	44948m	19.71	ug/l	
73) Bromobenzene	12.498	156	51257	21.20	ug/l	99
74) n-propylbenzene	12.563	91	202680	21.40	ug/l	100
75) 2-Chlorotoluene	12.646	91	120792	21.13	ug/l	99
76) 1,3,5-Trimethylbenzene	12.707	105	154745	21.37	ug/l	100
77) t-1,4-Dichloro-2-butene	12.273	75	15907	19.83	ug/l	97
78) 4-Chlorotoluene	12.746	91	122204	21.14	ug/l	98
79) tert-butylbenzene	12.968	119	132364	21.27	ug/l	97
80) 1,2,4-Trimethylbenzene	13.013	105	155128	21.53	ug/l	99
81) sec-Butylbenzene	13.145	105	172745	21.47	ug/l	99
82) p-Isopropyltoluene	13.264	119	160882	21.40	ug/l	99
83) 1,3-Dichlorobenzene	13.257	146	86130	21.50	ug/l	100
84) 1,4-Dichlorobenzene	13.338	146	82874	21.20	ug/l	100
85) n-Butylbenzene	13.588	91	128454	21.61	ug/l	99
86) Hexachloroethane	13.846	117	25512	20.62	ug/l	95
87) 1,2-Dichlorobenzene	13.627	146	86011	21.79	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.244	75	8655	20.16	ug/l	94
89) 1,2,4-Trichlorobenzene	14.881	180	44597	23.22	ug/l	98
90) Hexachlorobutadiene	14.981	225	31833	23.07	ug/l	100
91) Naphthalene	15.103	128	104156	22.96	ug/l	100
92) 1,2,3-Trichlorobenzene	15.283	180	45716	22.83	ug/l	100

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

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