

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN030521\
 Data File : VN066134.D
 Acq On : 5 Mar 2021 14:48
 Operator : JC/MD
 Sample : VSTDIC100
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Manual Integrations
 APPROVED

MMDadoda
 3/8/2021 10:53:37 AM

Quant Time: Mar 05 15:09:31 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N030521W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 05 14:59:37 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.167	128	38710	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.556	114	223846	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.379	117	210124	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.997	65	100175	35.61	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	118.70%#	
60) 4-Bromofluorobenzene	12.373	95	110424	32.06	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	106.87%	
63) Toluene-d8	10.061	98	285280	28.55	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	95.17%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.872	85	192168	85.79	ug/l	96
3) Chloromethane	2.074	50	264611	80.94	ug/l	100
4) Vinyl Chloride	2.206	62	279396	86.74	ug/l	99
5) Bromomethane	2.566	94	194391	98.02	ug/l	100
6) Chloroethane	2.708	64	165498	88.31	ug/l	100
7) Trichlorofluoromethane	3.023	101	437208	122.09	ug/l	98
8) Diethyl Ether	3.412	74	147160	94.31	ug/l	94
9) 1,1,2-Trichlorotrifluo...	3.759	101	183099	89.13	ug/l	92
10) 1,1-Dichloroethene	3.737	96	209017	94.36	ug/l	92
11) Methyl Iodide	3.949	142	327468	103.87	ug/l	92
12) Methyl Acetate	4.312	43	218350	82.63	ug/l	98
13) Acrolein	3.602	56	184222	507.99	ug/l	100
14) Acrylonitrile	4.965	53	531786	448.83	ug/l	99
15) Acetone	3.814	58	142389m	402.50	ug/l	
16) Carbon Disulfide	4.049	76	602740	87.51	ug/l	99
17) Allyl chloride	4.312	41	368930	88.15	ug/l	94
18) Methylene Chloride	4.540	84	250878	95.37	ug/l	97
19) trans-1,2-Dichloroethene	5.026	96	234931	95.93	ug/l	90
20) Diisopropyl ether	5.926	45	726568	86.87	ug/l	97
21) 1,1-Dichloroethane	5.827	63	453656	96.25	ug/l	99
22) cis-1,2-Dichloroethene	6.801	96	285098	100.87	ug/l	95
23) tert-Butyl Alcohol	4.782	59	225652	514.94	ug/l #	100
24) Methyl tert-Butyl Ether	5.026	73	833106	108.39	ug/l	94
25) Chloroform	7.344	83	491663	111.81	ug/l	98
26) Cyclohexane	7.627	56	352580	82.70	ug/l #	99
29) 1,1-Dichloropropene	7.765	75	350319	97.50	ug/l	98
30) 2-Butanone	6.804	43	667450	422.39	ug/l	99
31) 2,2-Dichloropropane	6.794	77	443596	113.00	ug/l	94
32) 1,1,1-Trichloroethane	7.544	97	452805	120.47	ug/l	98
33) Carbon Tetrachloride	7.746	117	394137	126.22	ug/l	99
34) Benzene	8.013	78	1042655	94.37	ug/l #	89
35) Methacrylonitrile	7.155	41	159782m	93.08	ug/l	
36) 1,2-Dichloroethane	8.097	62	426386	121.31	ug/l	96
37) Trichloroethene	8.807	130	283064	104.22	ug/l	92
38) Methylcyclohexane	9.052	83	380718	90.96	ug/l	98
39) 1,2-Dichloropropane	9.087	63	263373	88.88	ug/l	97
40) Dibromomethane	9.180	93	183388	105.20	ug/l	85
41) Bromodichloromethane	9.373	83	411825	114.72	ug/l	98
42) Vinyl Acetate	5.872	43	3102944	446.47	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.897	43	291160	90.33	ug/l	97
44) Isopropyl Acetate	8.132	43	530354	93.60	ug/l #	84
45) 1,4-Dioxane	9.180	88	87441	1853.71	ug/l	97
46) Methyl methacrylate	9.167	41	252568	92.89	ug/l	92
47) n-amyl Acetate	12.042	43	445232	97.07	ug/l	96
48) t-1,3-Dichloropropene	10.351	75	475389	112.66	ug/l	98
49) cis-1,3-Dichloropropene	9.810	75	491227	104.27	ug/l	92
50) 1,1,2-Trichloroethane	10.534	97	256515	101.78	ug/l	99
51) Ethyl methacrylate	10.399	69	396865	99.34	ug/l	94
52) 1,3-Dichloropropane	10.679	76	449632	100.05	ug/l	100
53) Dibromochloromethane	10.875	129	314683	118.77	ug/l	100
54) 1,2-Dibromoethane	10.978	107	272220	106.50	ug/l	99
55) 2-Chloroethyl vinyl ether	9.666	63	713311	419.54	ug/l	99
56) Bromoform	12.100	173	212741	125.96	ug/l #	96
58) 4-Methyl-2-Pentanone	9.952	43	1448354	427.68	ug/l	98
59) 2-Hexanone	10.720	43	1039806	433.47	ug/l	99
61) Tetrachloroethene	10.605	164	278588	99.69	ug/l	91
62) Toluene	10.125	91	1154339	95.13	ug/l	98
64) Chlorobenzene	11.405	112	740970	102.06	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.479	131	287977	111.84	ug/l	97
66) Ethyl Benzene	11.482	91	1327383	101.06	ug/l	99
67) m/p-Xylenes	11.592	106	1027671	208.91	ug/l	95
68) o-Xylene	11.916	106	503218	104.97	ug/l	94
69) Styrene	11.936	104	840159	108.14	ug/l	94
70) Isopropylbenzene	12.219	105	1315356	106.64	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.476	83	351842	98.06	ug/l	99
72) 1,2,3-Trichloropropane	12.524	75	368640m	105.83	ug/l	
73) Bromobenzene	12.495	156	316204	112.17	ug/l	81
74) n-propylbenzene	12.563	91	1497087	105.62	ug/l	97
75) 2-Chlorotoluene	12.646	91	934793	108.19	ug/l	94
76) 1,3,5-Trimethylbenzene	12.704	105	1182500	112.96	ug/l	96
77) t-1,4-Dichloro-2-butene	12.270	75	136664	101.31	ug/l	96
78) 4-Chlorotoluene	12.743	91	980811	113.17	ug/l	93
79) tert-butylbenzene	12.965	119	986069	113.55	ug/l	93
80) 1,2,4-Trimethylbenzene	13.010	105	1180008	113.11	ug/l	98
81) sec-Butylbenzene	13.141	105	1259557	110.67	ug/l	98
82) p-Isopropyltoluene	13.260	119	1199212	116.51	ug/l	96
83) 1,3-Dichlorobenzene	13.254	146	578463	117.68	ug/l	96
84) 1,4-Dichlorobenzene	13.334	146	571677	118.88	ug/l	96
85) n-Butylbenzene	13.585	91	995223	113.66	ug/l	99
86) Hexachloroethane	13.842	117	194369	112.04	ug/l	77
87) 1,2-Dichlorobenzene	13.624	146	568651	115.71	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	14.238	75	93664	132.30	ug/l #	71
89) 1,2,4-Trichlorobenzene	14.878	180	344920	134.94	ug/l	96
90) Hexachlorobutadiene	14.977	225	141487	120.99	ug/l	97
91) Naphthalene	15.096	128	1011944	124.62	ug/l	99
92) 1,2,3-Trichlorobenzene	15.276	180	342532	132.60	ug/l	97

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

