

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020321\
 Data File : VN065699.D
 Acq On : 3 Feb 2021 14:27
 Operator : JC/MD
 Sample : VSTDIC150
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Manual Integrations
 APPROVED

MMDadoda
 2/4/2021 10:33:17 AM

Quant Time: Feb 03 14:46:00 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 03 14:25:47 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.148	128	29576	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.550	114	165555	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.376	117	148844	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.987	65	60880	32.31	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	107.70%	
60) 4-Bromofluorobenzene	12.373	95	72796	31.64	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	105.47%	
63) Toluene-d8	10.058	98	213383	32.09	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	106.97%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.836	85	276207	182.57	ug/l	94
3) Chloromethane	2.036	50	401204	206.53	ug/l	99
4) Vinyl Chloride	2.168	62	398286	189.61	ug/l	98
5) Bromomethane	2.528	94	240506	167.63	ug/l	100
6) Chloroethane	2.672	64	228173	171.74	ug/l	97
7) Trichlorofluoromethane	2.991	101	406185	153.14	ug/l	98
8) Diethyl Ether	3.380	74	188143	171.14	ug/l	94
9) 1,1,2-Trichlorotrifluo...	3.717	101	250989	158.71	ug/l	91
10) 1,1-Dichloroethene	3.695	96	266726	163.16	ug/l	92
11) Methyl Iodide	3.907	142	389348	154.04	ug/l	98
12) Methyl Acetate	4.283	43	313685	188.40	ug/l	96
13) Acrolein	3.569	56	229460	833.31	ug/l	98
14) Acrylonitrile	4.936	53	732744	975.07	ug/l	99
15) Acetone	3.782	58	186712	786.31	ug/l	82
16) Carbon Disulfide	4.004	76	844881	201.22	ug/l	98
17) Allyl chloride	4.274	41	516654	209.87	ug/l	92
18) Methylene Chloride	4.499	84	309562	172.24	ug/l	94
19) trans-1,2-Dichloroethene	4.987	96	289424	173.71	ug/l	91
20) Diisopropyl ether	5.910	45	996597	194.66	ug/l	89
21) 1,1-Dichloroethane	5.798	63	558984	186.49	ug/l	98
22) cis-1,2-Dichloroethene	6.778	96	338438	174.67	ug/l	95
23) tert-Butyl Alcohol	4.769	59	257539	1061.11	ug/l #	100
24) Methyl tert-Butyl Ether	4.997	73	895043	181.94	ug/l	97
25) Chloroform	7.328	83	513856	170.10	ug/l	98
26) Cyclohexane	7.611	56	527606	203.30	ug/l #	90
29) 1,1-Dichloropropene	7.749	75	422299	176.05	ug/l	97
30) 2-Butanone	6.794	43	916469	925.81	ug/l	96
31) 2,2-Dichloropropane	6.775	77	434679	174.93	ug/l	100
32) 1,1,1-Trichloroethane	7.527	97	412755	156.44	ug/l	98
33) Carbon Tetrachloride	7.733	117	350645	152.06	ug/l	100
34) Benzene	8.000	78	1291348	175.15	ug/l #	89
35) Methacrylonitrile	7.126	41	204106	204.92	ug/l	95
36) 1,2-Dichloroethane	8.084	62	387815	162.95	ug/l	98
37) Trichloroethene	8.801	130	316447	149.41	ug/l	90
38) Methylcyclohexane	9.045	83	499151	178.04	ug/l	95
39) 1,2-Dichloropropane	9.084	63	354940	183.99	ug/l	99
40) Dibromomethane	9.174	93	200250	159.75	ug/l	83
41) Bromodichloromethane	9.370	83	411387	167.96	ug/l	98
42) Vinyl Acetate	5.846	43	4084487	953.63	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.888	43	390234	186.09	ug/l	97
44) Isopropyl Acetate	8.129	43	674103	191.78	ug/l	98
45) 1,4-Dioxane	9.174	88	113532	4327.80	ug/l	92
46) Methyl methacrylate	9.164	41	324042	188.12	ug/l	95
47) n-amyl Acetate	12.042	43	592428	196.50	ug/l	95
48) t-1,3-Dichloropropene	10.351	75	496265	179.55	ug/l	97
49) cis-1,3-Dichloropropene	9.807	75	557827	183.39	ug/l	98
50) 1,1,2-Trichloroethane	10.531	97	293830	160.41	ug/l	96
51) Ethyl methacrylate	10.399	69	485079	183.47	ug/l	97
52) 1,3-Dichloropropane	10.675	76	525352	170.26	ug/l	100
53) Dibromochloromethane	10.871	129	308900	154.03	ug/l	100
54) 1,2-Dibromoethane	10.974	107	301375	155.14	ug/l	99
55) 2-Chloroethyl vinyl ether	9.662	63	1113490	936.83	ug/l	96
56) Bromoform	12.096	173	198351	130.27	ug/l #	96
58) 4-Methyl-2-Pentanone	9.952	43	1885856	918.94	ug/l	98
59) 2-Hexanone	10.720	43	1374831	926.02	ug/l	98
61) Tetrachloroethene	10.598	164	294451	128.67	ug/l	92
62) Toluene	10.122	91	1344242	170.54	ug/l	100
64) Chlorobenzene	11.402	112	806733	160.23	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.479	131	281168	150.56	ug/l	97
66) Ethyl Benzene	11.482	91	1466765	170.43	ug/l	99
67) m/p-Xylenes	11.592	106	1097027	328.68	ug/l	98
68) o-Xylene	11.916	106	526766	162.93	ug/l	97
69) Styrene	11.932	104	888649	166.16	ug/l	98
70) Isopropylbenzene	12.219	105	1364108	161.97	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.476	83	408024	169.23	ug/l	99
72) 1,2,3-Trichloropropane	12.524	75	375776m	161.54	ug/l	
73) Bromobenzene	12.495	156	311019	134.63	ug/l	71
74) n-propylbenzene	12.563	91	1608379	169.95	ug/l	96
75) 2-Chlorotoluene	12.643	91	949589	165.82	ug/l	93
76) 1,3,5-Trimethylbenzene	12.704	105	1154258	160.92	ug/l	98
77) t-1,4-Dichloro-2-butene	12.270	75	165243	199.77	ug/l	90
78) 4-Chlorotoluene	12.743	91	987233	171.60	ug/l	94
79) tert-butylbenzene	12.965	119	946084	154.17	ug/l	97
80) 1,2,4-Trimethylbenzene	13.010	105	1170766	164.05	ug/l	98
81) sec-Butylbenzene	13.141	105	1278277	160.22	ug/l	96
82) p-Isopropyltoluene	13.260	119	1162111	157.18	ug/l	98
83) 1,3-Dichlorobenzene	13.254	146	570831	147.52	ug/l	96
84) 1,4-Dichlorobenzene	13.334	146	571761	150.83	ug/l	97
85) n-Butylbenzene	13.585	91	1046682	175.82	ug/l	97
86) Hexachloroethane	13.846	117	207111	168.31	ug/l	72
87) 1,2-Dichlorobenzene	13.624	146	568857	148.82	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.238	75	86416	195.59	ug/l #	79
89) 1,2,4-Trichlorobenzene	14.878	180	346065	173.08	ug/l	97
90) Hexachlorobutadiene	14.977	225	129493	102.01	ug/l	98
91) Naphthalene	15.100	128	1140474	220.39	ug/l	100
92) 1,2,3-Trichlorobenzene	15.280	180	344878	174.79	ug/l	98

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

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