

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020924\
 Data File : VN080984.D
 Acq On : 09 Feb 2024 12:27
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN020924

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/12/2024
 Supervised By : Mahesh Dadoda 02/12/2024

Quant Time: Feb 10 01:55:59 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020924W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Feb 10 01:52:21 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	80902	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	474297	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	423022	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	186721	30.716	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.400%			
60) 4-Bromofluorobenzene	12.853	95	200933	31.070	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 103.567%			
63) Toluene-d8	10.571	98	586558	30.898	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	113982	20.721	ug/l	98
3) Chloromethane	2.359	50	116351	21.047	ug/l	96
4) Vinyl Chloride	2.512	62	141061	21.402	ug/l	96
5) Bromomethane	2.959	94	91445m	20.656	ug/l	
6) Chloroethane	3.124	64	92727	21.582	ug/l	99
7) Trichlorofluoromethane	3.495	101	179538	20.686	ug/l	93
8) Diethyl Ether	3.953	74	59695	19.569	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.377	101	96598	20.507	ug/l	95
10) 1,1-Dichloroethene	4.336	96	96699	20.945	ug/l	98
11) Methyl Iodide	4.589	142	90208	18.244	ug/l	87
12) Methyl Acetate	5.030	43	83364	19.926	ug/l	94
13) Acrolein	4.177	56	76288	83.617	ug/l	98
14) Acrylonitrile	5.718	53	211099	101.614	ug/l	98
15) Acetone	4.424	58	49070m	102.676	ug/l	
16) Carbon Disulfide	4.718	76	246018	19.417	ug/l	99
17) Allyl chloride	5.018	41	121505	20.956	ug/l	88
18) Methylene Chloride	5.271	84	103115	19.544	ug/l	93
19) trans-1,2-Dichloroethene	5.789	96	104012	19.846	ug/l	85
20) Diisopropyl ether	6.671	45	290808	20.867	ug/l	92
21) 1,1-Dichloroethane	6.565	63	183378	20.533	ug/l	96
22) cis-1,2-Dichloroethene	7.483	96	124641	20.467	ug/l	95
23) tert-Butyl Alcohol	5.524	59	82380m	108.853	ug/l	
24) Methyl tert-Butyl Ether	5.794	73	309671	20.233	ug/l	96
25) Chloroform	7.965	83	207514	20.944	ug/l	98
26) Cyclohexane	8.259	56	144205	21.443	ug/l #	87
29) 1,1-Dichloropropene	8.371	75	146032	20.670	ug/l	97
30) 2-Butanone	7.483	43	263838	101.785	ug/l	98
31) 2,2-Dichloropropane	7.488	77	173493	21.568	ug/l	100
32) 1,1,1-Trichloroethane	8.171	97	184763	20.789	ug/l	99
33) Carbon Tetrachloride	8.359	117	155927	20.823	ug/l	94
34) Benzene	8.606	78	448118	20.756	ug/l	98
35) Methacrylonitrile	7.777	41	63194	20.742	ug/l	84
36) 1,2-Dichloroethane	8.671	62	151674	20.933	ug/l	97
37) Trichloroethene	9.353	130	121099	21.097	ug/l	97
38) Methylcyclohexane	9.606	83	147036	20.854	ug/l	95
39) 1,2-Dichloropropane	9.624	63	105524	20.606	ug/l	98
40) Dibromomethane	9.706	93	81849	21.008	ug/l	93
41) Bromodichloromethane	9.888	83	154737	20.293	ug/l	96
42) Vinyl Acetate	6.606	43	1130282	101.941	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	110987	20.557	ug/l #	84
44) Isopropyl Acetate	8.688	43	199229	20.537	ug/l	98
45) 1,4-Dioxane	9.694	88	40023	435.018	ug/l	91
46) Methyl methacrylate	9.682	41	88712	19.986	ug/l	93
47) n-amyl Acetate	12.500	43	166429	19.672	ug/l	93
48) t-1,3-Dichloropropene	10.841	75	164701	20.610	ug/l	98
49) cis-1,3-Dichloropropene	10.312	75	174650	20.169	ug/l	96
50) 1,1,2-Trichloroethane	11.018	97	107325	19.909	ug/l	97
51) Ethyl methacrylate	10.876	69	147197	19.537	ug/l	90
52) 1,3-Dichloropropane	11.165	76	182042	20.449	ug/l	99
53) Dibromochloromethane	11.365	129	112807	19.199	ug/l	99
54) 1,2-Dibromoethane	11.476	107	112320	20.139	ug/l	97
55) 2-Chloroethyl vinyl ether	10.159	63	378087	97.922	ug/l	99
56) Bromoform	12.576	173	67730	18.099	ug/l	98
58) 4-Methyl-2-Pentanone	10.447	43	578355	105.309	ug/l	94
59) 2-Hexanone	11.200	43	435999	107.938	ug/l	94
61) Tetrachloroethene	11.106	164	102322	21.175	ug/l	94
62) Toluene	10.635	91	485342	20.945	ug/l	99
64) Chlorobenzene	11.894	112	294335	20.739	ug/l	92
65) 1,1,1,2-Tetrachloroethane	11.965	131	106495	20.229	ug/l	96
66) Ethyl Benzene	11.965	91	514778	21.128	ug/l	98
67) m/p-Xylenes	12.076	106	395958	41.382	ug/l	98
68) o-Xylene	12.400	106	193466	20.632	ug/l	96
69) Styrene	12.412	104	316304	20.490	ug/l	96
70) Isopropylbenzene	12.700	105	472174	20.663	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	142710	20.253	ug/l	98
72) 1,2,3-Trichloropropane	13.000	75	114090m	20.683	ug/l	
73) Bromobenzene	12.982	156	116604	20.519	ug/l	95
74) n-propylbenzene	13.041	91	537269	20.687	ug/l	98
75) 2-Chlorotoluene	13.129	91	339466	21.056	ug/l	95
76) 1,3,5-Trimethylbenzene	13.176	105	388029	20.753	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	41353	19.811	ug/l	92
78) 4-Chlorotoluene	13.223	91	337988	20.931	ug/l	94
79) tert-butylbenzene	13.441	119	314541	20.265	ug/l	99
80) 1,2,4-Trimethylbenzene	13.488	105	394979	21.202	ug/l	100
81) sec-Butylbenzene	13.617	105	453080	20.845	ug/l	100
82) p-Isopropyltoluene	13.735	119	370938	20.328	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	207283	20.280	ug/l	98
84) 1,4-Dichlorobenzene	13.817	146	205737	20.054	ug/l	99
85) n-Butylbenzene	14.059	91	312931	20.785	ug/l	100
86) Hexachloroethane	14.341	117	55392	19.245	ug/l	87
87) 1,2-Dichlorobenzene	14.106	146	202825	20.382	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.723	75	26868	21.125	ug/l	95
89) 1,2,4-Trichlorobenzene	15.841	180	93750	19.258	ug/l	99
90) Hexachlorobutadiene	15.506	225	40724	19.067	ug/l	98
91) Naphthalene	15.647	128	330873	19.142	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	93750	19.258	ug/l	99

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

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