

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080323\
 Data File : VN078743.D
 Acq On : 03 Aug 2023 10:37
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 08/04/2023
 Supervised By :Semsettin Yesilyurt 08/04/2023

Quant Time: Aug 04 06:29:27 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080123W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 02 04:51:47 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	90597	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.112	114	543549	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	428118	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	206013	30.336	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.133%			
60) 4-Bromofluorobenzene	12.853	95	183895	28.662	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 95.533%			
63) Toluene-d8	10.571	98	640138	30.268	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.900%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.136	85	103081	18.038	ug/l	100
3) Chloromethane	2.371	50	188719	26.828	ug/l	95
4) Vinyl Chloride	2.524	62	207966	21.755	ug/l #	89
5) Bromomethane	2.971	94	131816	18.447	ug/l	95
6) Chloroethane	3.130	64	131403	21.106	ug/l	95
7) Trichlorofluoromethane	3.506	101	198615	20.254	ug/l	96
8) Diethyl Ether	3.977	74	63245	19.755	ug/l	89
9) 1,1,2-Trichlorotrifluo...	4.389	101	104872	19.924	ug/l	93
10) 1,1-Dichloroethene	4.353	96	102199	20.248	ug/l	93
11) Methyl Iodide	4.600	142	125250	17.654	ug/l	96
12) Methyl Acetate	5.042	43	158931	19.413	ug/l	98
13) Acrolein	4.195	56	77915	89.372	ug/l	99
14) Acrylonitrile	5.730	53	232364	96.927	ug/l	97
15) Acetone	4.447	58	61316	88.278	ug/l	97
16) Carbon Disulfide	4.718	76	271896	19.070	ug/l	97
17) Allyl chloride	5.036	41	127938	18.564	ug/l	94
18) Methylene Chloride	5.294	84	125255	20.684	ug/l	97
19) trans-1,2-Dichloroethene	5.789	96	114258	19.579	ug/l #	91
20) Diisopropyl ether	6.683	45	328923	21.198	ug/l	96
21) 1,1-Dichloroethane	6.583	63	215713	20.994	ug/l	96
22) cis-1,2-Dichloroethene	7.500	96	136621	20.846	ug/l	96
23) tert-Butyl Alcohol	5.524	59	88535	90.378	ug/l #	100
24) Methyl tert-Butyl Ether	5.806	73	333293	19.637	ug/l	96
25) Chloroform	7.971	83	233991	21.510	ug/l	98
26) Cyclohexane	8.265	56	148405	19.608	ug/l #	98
29) 1,1-Dichloropropene	8.377	75	160958	20.125	ug/l	99
30) 2-Butanone	7.494	43	298702	94.477	ug/l	99
31) 2,2-Dichloropropane	7.500	77	176931	19.279	ug/l	100
32) 1,1,1-Trichloroethane	8.177	97	203671	20.128	ug/l	98
33) Carbon Tetrachloride	8.371	117	185673	20.659	ug/l	97
34) Benzene	8.618	78	501946	20.893	ug/l	99
35) Methacrylonitrile	7.788	41	62746	18.073	ug/l	89
36) 1,2-Dichloroethane	8.677	62	175809	20.836	ug/l	99
37) Trichloroethene	9.359	130	131204	19.461	ug/l	92
38) Methylcyclohexane	9.606	83	144748	17.614	ug/l	96
39) 1,2-Dichloropropane	9.629	63	128126	19.894	ug/l	93
40) Dibromomethane	9.718	93	92923	20.846	ug/l	99
41) Bromodichloromethane	9.894	83	191183	21.453	ug/l	99
42) Vinyl Acetate	6.618	43	962529	94.693	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	137708	21.068	ug/l	99
44) Isopropyl Acetate	8.694	43	217169	18.937	ug/l	100
45) 1,4-Dioxane	9.706	88	38674	366.612	ug/l	89
46) Methyl methacrylate	9.688	41	101309	19.291	ug/l	90
47) n-amyl Acetate	12.500	43	156521	17.722	ug/l	100
48) t-1,3-Dichloropropene	10.841	75	209828	22.060	ug/l	95
49) cis-1,3-Dichloropropene	10.318	75	201473	19.943	ug/l	94
50) 1,1,2-Trichloroethane	11.024	97	143263	22.704	ug/l	97
51) Ethyl methacrylate	10.882	69	189453	21.930	ug/l	95
52) 1,3-Dichloropropane	11.171	76	211140	18.617	ug/l	98
53) Dibromochloromethane	11.365	129	139788	19.610	ug/l	100
54) 1,2-Dibromoethane	11.471	107	124450	19.641	ug/l	99
55) 2-Chloroethyl vinyl ether	10.165	63	274331	99.654	ug/l	99
56) Bromoform	12.582	173	91363	19.588	ug/l	96
58) 4-Methyl-2-Pentanone	10.453	43	643789	100.466	ug/l	99
59) 2-Hexanone	11.200	43	458885	94.578	ug/l	97
61) Tetrachloroethene	11.112	164	123487	21.935	ug/l	97
62) Toluene	10.635	91	542410	21.063	ug/l	99
64) Chlorobenzene	11.900	112	321816	21.405	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.965	131	133462	22.508	ug/l	99
66) Ethyl Benzene	11.970	91	551940	21.266	ug/l	98
67) m/p-Xylenes	12.076	106	421809	42.548	ug/l	99
68) o-Xylene	12.406	106	205061	20.328	ug/l	97
69) Styrene	12.418	104	321751	19.824	ug/l	100
70) Isopropylbenzene	12.700	105	518569	20.780	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.941	83	163090	20.119	ug/l	100
72) 1,2,3-Trichloropropane	13.000	75	147411m	21.677	ug/l	
73) Bromobenzene	12.988	156	123284	20.156	ug/l	97
74) n-propylbenzene	13.041	91	559399	20.225	ug/l	100
75) 2-Chlorotoluene	13.129	91	364883	19.102	ug/l	100
76) 1,3,5-Trimethylbenzene	13.176	105	426157	19.127	ug/l	96
77) t-1,4-Dichloro-2-butene	12.741	75	44842	18.868	ug/l	86
78) 4-Chlorotoluene	13.229	91	336068	18.222	ug/l	97
79) tert-butylbenzene	13.441	119	347990	18.146	ug/l	97
80) 1,2,4-Trimethylbenzene	13.488	105	399484	18.773	ug/l	100
81) sec-Butylbenzene	13.623	105	456506	18.572	ug/l	99
82) p-Isopropyltoluene	13.735	119	362767	17.977	ug/l	100
83) 1,3-Dichlorobenzene	13.735	146	204886	18.889	ug/l	98
84) 1,4-Dichlorobenzene	13.817	146	187533	18.468	ug/l	99
85) n-Butylbenzene	14.064	91	233356	16.676	ug/l	99
86) Hexachloroethane	14.335	117	70998	19.310	ug/l	94
87) 1,2-Dichlorobenzene	14.112	146	198310	19.535	ug/l	94
88) 1,2-Dibromo-3-Chloropr...	14.723	75	22506	16.348	ug/l	91
89) 1,2,4-Trichlorobenzene	15.400	180	44732	15.444	ug/l	99
90) Hexachlorobutadiene	15.506	225	40124	18.184	ug/l	94
91) Naphthalene	15.647	128	114224	13.018	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	52269	15.858	ug/l	99

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

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