

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN083023\
 Data File : VN079109.D
 Acq On : 30 Aug 2023 11:27
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Quant Time: Aug 31 02:14:16 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N081723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 18 05:21:14 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John
 Carlone
 08/31/2023
 Supervised By :Mahesh
 Dadoda
 09/01/2023

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

Internal Standards						
1) Bromochloromethane	7.818	128	37516	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	190522	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	178148	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	88350	29.069	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.900%		
60) 4-Bromofluorobenzene	12.853	95	78487	30.203	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.667%		
63) Toluene-d8	10.571	98	258695	31.096	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	103.667%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.130	85	45303	19.137	ug/l	97
3) Chloromethane	2.365	50	55277	19.484	ug/l	99
4) Vinyl Chloride	2.512	62	55993	19.941	ug/l	98
5) Bromomethane	2.948	94	35635	20.559	ug/l	100
6) Chloroethane	3.112	64	42744	23.425	ug/l	94
7) Trichlorofluoromethane	3.500	101	74208	19.622	ug/l	85
8) Diethyl Ether	3.959	74	24279	17.069	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.371	101	39381	19.938	ug/l	89
10) 1,1-Dichloroethene	4.347	96	35366	17.797	ug/l #	88
11) Methyl Iodide	4.589	142	46519	19.399	ug/l	97
12) Methyl Acetate	5.030	43	92399	19.837	ug/l	92
13) Acrolein	4.183	56	29162	89.826	ug/l	97
14) Acrylonitrile	5.724	53	122804	100.297	ug/l #	93
15) Acetone	4.436	58	32225	85.797	ug/l	84
16) Carbon Disulfide	4.712	76	96368	16.878	ug/l	98
17) Allyl chloride	5.024	41	60819	16.698	ug/l	94
18) Methylene Chloride	5.277	84	48933	20.598	ug/l	94
19) trans-1,2-Dichloroethene	5.783	96	40828	18.255	ug/l	94
20) Diisopropyl ether	6.677	45	153714	19.401	ug/l #	89
21) 1,1-Dichloroethane	6.571	63	85711	19.496	ug/l	95
22) cis-1,2-Dichloroethene	7.488	96	47578	18.587	ug/l	95
23) tert-Butyl Alcohol	5.524	59	41236	90.287	ug/l #	100
24) Methyl tert-Butyl Ether	5.806	73	128145	18.167	ug/l	98
25) Chloroform	7.971	83	88506	19.984	ug/l	100
26) Cyclohexane	8.265	56	58768	18.274	ug/l #	94
29) 1,1-Dichloropropene	8.377	75	59869	20.657	ug/l	97
30) 2-Butanone	7.494	43	172322	101.565	ug/l	99
31) 2,2-Dichloropropane	7.500	77	63236	19.742	ug/l	99
32) 1,1,1-Trichloroethane	8.177	97	74239	21.455	ug/l	99
33) Carbon Tetrachloride	8.365	117	63716	21.258	ug/l	90
34) Benzene	8.612	78	188259	21.676	ug/l	98
35) Methacrylonitrile	7.783	41	35137	19.430	ug/l	92
36) 1,2-Dichloroethane	8.671	62	72331	22.239	ug/l	97
37) Trichloroethene	9.359	130	43858	20.286	ug/l	86
38) Methylcyclohexane	9.606	83	51283	20.098	ug/l	99
39) 1,2-Dichloropropane	9.629	63	49509	21.162	ug/l	97
40) Dibromomethane	9.712	93	35144	22.411	ug/l	96
41) Bromodichloromethane	9.894	83	71173	22.568	ug/l	97
42) Vinyl Acetate	6.612	43	475423	99.385	ug/l	98

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43) Ethyl Acetate	7.830	43	7873	2.392	ug/l	98
44) Isopropyl Acetate	8.694	43	118024	20.350	ug/l	97
45) 1,4-Dioxane	9.706	88	20239	463.720	ug/l #	89
46) Methyl methacrylate	9.688	41	53250	20.839	ug/l	93
47) n-amyl Acetate	12.500	43	86486	19.432	ug/l	96
48) t-1,3-Dichloropropene	10.841	75	69075	20.565	ug/l	98
49) cis-1,3-Dichloropropene	10.318	75	77040	21.390	ug/l	96
50) 1,1,2-Trichloroethane	11.024	97	47458	22.394	ug/l	99
51) Ethyl methacrylate	10.882	69	65799	20.061	ug/l	95
52) 1,3-Dichloropropane	11.165	76	84115	22.160	ug/l	98
53) Dibromochloromethane	11.365	129	50135	21.615	ug/l	96
54) 1,2-Dibromoethane	11.471	107	45022	20.693	ug/l	88
55) 2-Chloroethyl vinyl ether	10.165	63	149770	98.788	ug/l	99
56) Bromoform	12.582	173	34640	21.168	ug/l #	97
58) 4-Methyl-2-Pentanone	10.447	43	363811	102.931	ug/l	99
59) 2-Hexanone	11.200	43	259229	100.101	ug/l	99
61) Tetrachloroethene	11.112	164	36559	21.195	ug/l	95
62) Toluene	10.635	91	203161	20.888	ug/l	99
64) Chlorobenzene	11.900	112	118582	20.278	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.965	131	46069	20.603	ug/l	98
66) Ethyl Benzene	11.970	91	200313	19.690	ug/l	100
67) m/p-Xylenes	12.076	106	156773	41.329	ug/l	100
68) o-Xylene	12.406	106	75660	20.229	ug/l	98
69) Styrene	12.418	104	123555	20.330	ug/l	98
70) Isopropylbenzene	12.700	105	184297	20.337	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	73906	21.755	ug/l	99
72) 1,2,3-Trichloropropane	13.000	75	60033m	21.541	ug/l	
73) Bromobenzene	12.988	156	47243	20.477	ug/l	98
74) n-propylbenzene	13.041	91	216165	21.047	ug/l	100
75) 2-Chlorotoluene	13.129	91	135436	20.787	ug/l	98
76) 1,3,5-Trimethylbenzene	13.176	105	152936	21.289	ug/l	97
77) t-1,4-Dichloro-2-butene	12.747	75	20002	19.313	ug/l	90
78) 4-Chlorotoluene	13.223	91	127210	20.379	ug/l	98
79) tert-butylbenzene	13.441	119	125435	20.663	ug/l	98
80) 1,2,4-Trimethylbenzene	13.488	105	150909	21.364	ug/l	99
81) sec-Butylbenzene	13.623	105	170354	21.264	ug/l	99
82) p-Isopropyltoluene	13.735	119	137566	21.031	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	78466	21.074	ug/l	95
84) 1,4-Dichlorobenzene	13.817	146	71145	19.462	ug/l	98
85) n-Butylbenzene	14.064	91	102706	19.964	ug/l	99
86) Hexachloroethane	14.341	117	29039	21.697	ug/l	97
87) 1,2-Dichlorobenzene	14.112	146	77397	20.296	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.723	75	11928	19.562	ug/l	94
89) 1,2,4-Trichlorobenzene	15.847	180	24509	16.274	ug/l	93
90) Hexachlorobutadiene	15.500	225	15483	19.746	ug/l	98
91) Naphthalene	15.647	128	62364	14.357	ug/l #	84
92) 1,2,3-Trichlorobenzene	15.847	180	24509	16.274	ug/l	93

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

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