

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110823\
 Data File : VN079993.D
 Acq On : 08 Nov 2023 15:28
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN110823

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/09/2023
 Supervised By : Semsettin Yesilyurt 11/09/2023

Quant Time: Nov 09 04:08:28 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N110823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Nov 09 04:02:05 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	80953	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	9.106	114	452430	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	417936	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	204438	30.085	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.267%			
60) 4-Bromofluorobenzene	12.847	95	202324	30.272	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.900%			
63) Toluene-d8	10.571	98	594319	30.012	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.033%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	109508	20.747	ug/l	99
3) Chloromethane	2.359	50	137471	20.674	ug/l	100
4) Vinyl Chloride	2.512	62	138409	24.909	ug/l	99
5) Bromomethane	2.959	94	63263	20.794	ug/l	92
6) Chloroethane	3.124	64	68240	21.144	ug/l	91
7) Trichlorofluoromethane	3.495	101	176782	21.199	ug/l	100
8) Diethyl Ether	3.959	74	60120	20.082	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.371	101	99610	21.142	ug/l	99
10) 1,1-Dichloroethene	4.347	96	93486	22.430	ug/l	86
11) Methyl Iodide	4.589	142	107900	19.572	ug/l	93
12) Methyl Acetate	5.024	43	216124	20.000	ug/l	99
13) Acrolein	4.183	56	72714	79.646	ug/l	100
14) Acrylonitrile	5.718	53	260742	101.591	ug/l	97
15) Acetone	4.430	58	77216	89.099	ug/l	77
16) Carbon Disulfide	4.712	76	273897	19.245	ug/l	100
17) Allyl chloride	5.024	41	141858	19.478	ug/l	94
18) Methylene Chloride	5.277	84	113296	20.270	ug/l	93
19) trans-1,2-Dichloroethene	5.789	96	104153	20.160	ug/l	97
20) Diisopropyl ether	6.677	45	353233	20.754	ug/l	98
21) 1,1-Dichloroethane	6.571	63	207995	20.474	ug/l	98
22) cis-1,2-Dichloroethene	7.488	96	121842	20.323	ug/l	97
23) tert-Butyl Alcohol	5.518	59	67350	97.218	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	314346	20.483	ug/l	98
25) Chloroform	7.965	83	214700	20.473	ug/l	93
26) Cyclohexane	8.265	56	163318	20.435	ug/l #	99
29) 1,1-Dichloropropene	8.377	75	158578	20.422	ug/l	99
30) 2-Butanone	7.483	43	351534	94.796	ug/l	100
31) 2,2-Dichloropropane	7.494	77	173368	20.658	ug/l	99
32) 1,1,1-Trichloroethane	8.171	97	185405	20.916	ug/l	98
33) Carbon Tetrachloride	8.365	117	161510	20.729	ug/l	98
34) Benzene	8.606	78	481042	20.854	ug/l	98
35) Methacrylonitrile	7.783	41	75490	19.417	ug/l	95
36) 1,2-Dichloroethane	8.671	62	169785	20.339	ug/l	99
37) Trichloroethene	9.359	130	111794	20.153	ug/l	100
38) Methylcyclohexane	9.606	83	142985	19.611	ug/l	99
39) 1,2-Dichloropropane	9.624	63	122460	20.058	ug/l	97
40) Dibromomethane	9.712	93	80507	20.400	ug/l	98
41) Bromodichloromethane	9.888	83	168611	20.629	ug/l	99
42) Vinyl Acetate	6.606	43	920414	99.925	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	143728	20.632	ug/l	97
44) Isopropyl Acetate	8.688	43	229121	20.185	ug/l	95
45) 1,4-Dioxane	9.700	88	36247	414.368	ug/l	96
46) Methyl methacrylate	9.682	41	110631	20.275	ug/l	94
47) n-amyl Acetate	12.500	43	182574	20.024	ug/l	97
48) t-1,3-Dichloropropene	10.841	75	169546	20.311	ug/l	97
49) cis-1,3-Dichloropropene	10.318	75	188378	20.414	ug/l	93
50) 1,1,2-Trichloroethane	11.023	97	110986	20.617	ug/l	95
51) Ethyl methacrylate	10.876	69	153322	19.815	ug/l	89
52) 1,3-Dichloropropane	11.165	76	199254	20.703	ug/l	99
53) Dibromochloromethane	11.359	129	114643	19.907	ug/l	97
54) 1,2-Dibromoethane	11.471	107	109496	20.256	ug/l	98
55) 2-Chloroethyl vinyl ether	10.165	63	309288	86.909	ug/l	98
56) Bromoform	12.582	173	78200	20.722	ug/l	99
58) 4-Methyl-2-Pentanone	10.447	43	715509	102.475	ug/l	97
59) 2-Hexanone	11.200	43	521781	98.099	ug/l	97
61) Tetrachloroethene	11.106	164	102029	20.823	ug/l	93
62) Toluene	10.635	91	496806	20.553	ug/l	98
64) Chlorobenzene	11.894	112	294516	20.417	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.965	131	109851	20.760	ug/l	96
66) Ethyl Benzene	11.965	91	528272	20.797	ug/l	99
67) m/p-Xylenes	12.076	106	400940	42.398	ug/l	95
68) o-Xylene	12.400	106	189134	20.866	ug/l	100
69) Styrene	12.412	104	313644	20.903	ug/l	100
70) Isopropylbenzene	12.700	105	464519	20.545	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.941	83	156276	20.293	ug/l	100
72) 1,2,3-Trichloropropane	12.994	75	145160m	20.287	ug/l	
73) Bromobenzene	12.982	156	114356	20.573	ug/l	97
74) n-propylbenzene	13.041	91	561657	20.765	ug/l	98
75) 2-Chlorotoluene	13.129	91	353589	20.567	ug/l	98
76) 1,3,5-Trimethylbenzene	13.176	105	389310	20.818	ug/l	97
77) t-1,4-Dichloro-2-butene	12.741	75	47387	20.226	ug/l	94
78) 4-Chlorotoluene	13.223	91	347095	20.328	ug/l	99
79) tert-butylbenzene	13.441	119	314672	21.486	ug/l	96
80) 1,2,4-Trimethylbenzene	13.488	105	391283	21.338	ug/l	100
81) sec-Butylbenzene	13.617	105	418198	20.229	ug/l	99
82) p-Isopropyltoluene	13.735	119	345507	20.579	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	208041	20.540	ug/l	98
84) 1,4-Dichlorobenzene	13.817	146	200579	20.176	ug/l	98
85) n-Butylbenzene	14.059	91	274305	19.534	ug/l	97
86) Hexachloroethane	14.335	117	64189	19.661	ug/l	94
87) 1,2-Dichlorobenzene	14.106	146	200078	20.677	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	27733	19.693	ug/l	99
89) 1,2,4-Trichlorobenzene	15.841	180	85195	19.005	ug/l	98
90) Hexachlorobutadiene	15.506	225	41183	18.641	ug/l	98
91) Naphthalene	15.647	128	255705	17.774	ug/l	98
92) 1,2,3-Trichlorobenzene	15.841	180	85195	19.005	ug/l	98

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

