

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081723\
 Data File : VN078928.D
 Acq On : 17 Aug 2023 16:04
 Operator : JC\MD
 Sample : VN0817WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0817WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/18/2023
 Supervised By : Semsettin Yesilyurt 08/18/2023

Quant Time: Aug 18 05:32:04 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

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

Internal Standards						
1) Bromochloromethane	7.818	128	43155	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	243169	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	218575	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	107810	30.836	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.800%			
60) 4-Bromofluorobenzene	12.853	95	96763	30.349	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.167%			
63) Toluene-d8	10.571	98	308589	30.232	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.767%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.130	85	54960	20.182	ug/l	96
3) Chloromethane	2.365	50	64028	19.619	ug/l	95
4) Vinyl Chloride	2.512	62	64035	19.825	ug/l	94
5) Bromomethane	2.948	94	40049	20.087	ug/l	100
6) Chloroethane	3.118	64	39770	18.947	ug/l	89
7) Trichlorofluoromethane	3.495	101	86759	19.943	ug/l	95
8) Diethyl Ether	3.965	74	32257	19.714	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.377	101	44907	19.764	ug/l	92
10) 1,1-Dichloroethene	4.342	96	44526	19.479	ug/l #	81
11) Methyl Iodide	4.595	142	54315	19.691	ug/l	91
12) Methyl Acetate	5.036	43	112509	20.999	ug/l	94
13) Acrolein	4.177	56	29733	79.618	ug/l	97
14) Acrylonitrile	5.724	53	145867	103.566	ug/l #	92
15) Acetone	4.436	58	41822	96.799	ug/l	95
16) Carbon Disulfide	4.718	76	127276	19.378	ug/l	96
17) Allyl chloride	5.030	41	79835	19.055	ug/l	97
18) Methylene Chloride	5.277	84	52188	19.098	ug/l	94
19) trans-1,2-Dichloroethene	5.789	96	49409	19.205	ug/l	97
20) Diisopropyl ether	6.683	45	188643	20.699	ug/l	95
21) 1,1-Dichloroethane	6.571	63	103175	20.402	ug/l	93
22) cis-1,2-Dichloroethene	7.494	96	59234	20.117	ug/l #	89
23) tert-Butyl Alcohol	5.536	59	55874	106.352	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	164962	20.330	ug/l	99
25) Chloroform	7.971	83	101703	19.963	ug/l	99
26) Cyclohexane	8.265	56	75066	20.292	ug/l #	98
29) 1,1-Dichloropropene	8.377	75	76313	20.630	ug/l	99
30) 2-Butanone	7.494	43	220414	101.784	ug/l	99
31) 2,2-Dichloropropane	7.494	77	83593	20.447	ug/l	99
32) 1,1,1-Trichloroethane	8.171	97	86061	19.487	ug/l	99
33) Carbon Tetrachloride	8.371	117	77562	20.275	ug/l	97
34) Benzene	8.612	78	223937	20.201	ug/l	99
35) Methacrylonitrile	7.783	41	47471	20.568	ug/l	93
36) 1,2-Dichloroethane	8.677	62	81754	19.694	ug/l	99
37) Trichloroethene	9.359	130	54542	19.766	ug/l	85
38) Methylcyclohexane	9.606	83	66285	20.353	ug/l	98
39) 1,2-Dichloropropane	9.624	63	60921	20.403	ug/l	96
40) Dibromomethane	9.712	93	40323	20.146	ug/l	97
41) Bromodichloromethane	9.894	83	80190	19.922	ug/l	94
42) Vinyl Acetate	6.612	43	623112	102.057	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	87443	20.814	ug/l	99
44) Isopropyl Acetate	8.694	43	144523	19.523	ug/l	99
45) 1,4-Dioxane	9.700	88	24279	435.848	ug/l	96
46) Methyl methacrylate	9.688	41	66506	20.391	ug/l	92
47) n-amyl Acetate	12.500	43	116853	20.571	ug/l	99
48) t-1,3-Dichloropropene	10.841	75	86174	20.101	ug/l	99
49) cis-1,3-Dichloropropene	10.318	75	93799	20.405	ug/l	95
50) 1,1,2-Trichloroethane	11.024	97	54616	20.192	ug/l #	88
51) Ethyl methacrylate	10.876	69	86327	20.621	ug/l	97
52) 1,3-Dichloropropane	11.171	76	97251	20.074	ug/l	100
53) Dibromochloromethane	11.365	129	60580	20.464	ug/l	95
54) 1,2-Dibromoethane	11.476	107	55415	19.956	ug/l	92
55) 2-Chloroethyl vinyl ether	10.165	63	191815	99.129	ug/l	98
56) Bromoform	12.582	173	41066	19.661	ug/l	98
58) 4-Methyl-2-Pentanone	10.453	43	453492	104.573	ug/l	100
59) 2-Hexanone	11.200	43	324086	101.999	ug/l	100
61) Tetrachloroethene	11.106	164	40735	19.248	ug/l	91
62) Toluene	10.635	91	240394	20.145	ug/l	98
64) Chlorobenzene	11.894	112	142156	19.813	ug/l	92
65) 1,1,1,2-Tetrachloroethane	11.965	131	54032	19.695	ug/l	95
66) Ethyl Benzene	11.970	91	250173	20.042	ug/l	99
67) m/p-Xylenes	12.076	106	185309	39.817	ug/l	96
68) o-Xylene	12.406	106	91711	19.986	ug/l	97
69) Styrene	12.418	104	149981	20.114	ug/l	99
70) Isopropylbenzene	12.700	105	223364	20.089	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.941	83	83476	20.027	ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	77385m	22.631	ug/l	
73) Bromobenzene	12.982	156	56462	19.947	ug/l	99
74) n-propylbenzene	13.041	91	257575	20.441	ug/l	98
75) 2-Chlorotoluene	13.129	91	160222	20.042	ug/l	98
76) 1,3,5-Trimethylbenzene	13.176	105	179764	20.395	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	25835	20.331	ug/l	86
78) 4-Chlorotoluene	13.223	91	150880	19.701	ug/l	100
79) tert-butylbenzene	13.447	119	148773	19.975	ug/l	96
80) 1,2,4-Trimethylbenzene	13.488	105	177601	20.492	ug/l	98
81) sec-Butylbenzene	13.617	105	196856	20.027	ug/l	99
82) p-Isopropyltoluene	13.735	119	163076	20.320	ug/l	99
83) 1,3-Dichlorobenzene	13.741	146	92860	20.327	ug/l	94
84) 1,4-Dichlorobenzene	13.817	146	86454	19.276	ug/l	97
85) n-Butylbenzene	14.064	91	120037	19.017	ug/l	99
86) Hexachloroethane	14.335	117	33020	20.109	ug/l	91
87) 1,2-Dichlorobenzene	14.112	146	95273	20.362	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	15514	20.738	ug/l	95
89) 1,2,4-Trichlorobenzene	15.847	180	36917	19.979	ug/l	97
90) Hexachlorobutadiene	15.506	225	19416	20.182	ug/l	99
91) Naphthalene	15.641	128	97478	18.290	ug/l	98
92) 1,2,3-Trichlorobenzene	15.847	180	36917	19.979	ug/l	97

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

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