

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102523\
 Data File : VN079673.D
 Acq On : 25 Oct 2023 11:07
 Operator : JC\MD
 Sample : VN1025WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1025WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/26/2023
 Supervised By : Mahesh Dadoda 10/26/2023

Quant Time: Oct 26 01:33:41 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 18 02:19:15 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	24352	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	173717	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	217805	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	107228	30.970	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.233%			
60) 4-Bromofluorobenzene	12.853	95	128524	32.268	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 107.567%			
63) Toluene-d8	10.571	98	285183	30.556	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.867%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.130	85	67699	19.170	ug/l	98
3) Chloromethane	2.365	50	84008	18.354	ug/l	100
4) Vinyl Chloride	2.518	62	91649	18.553	ug/l	98
5) Bromomethane	2.959	94	51362	16.769	ug/l	97
6) Chloroethane	3.124	64	57711	16.598	ug/l #	81
7) Trichlorofluoromethane	3.506	101	123781	20.535	ug/l	96
8) Diethyl Ether	3.965	74	41971	19.212	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.371	101	72351	20.979	ug/l	95
10) 1,1-Dichloroethene	4.342	96	63554	19.369	ug/l	92
11) Methyl Iodide	4.594	142	75183	20.695	ug/l	92
12) Methyl Acetate	5.030	43	151270	19.124	ug/l	96
13) Acrolein	4.177	56	62525	95.622	ug/l	100
14) Acrylonitrile	5.724	53	178323	94.138	ug/l	96
15) Acetone	4.436	58	57331	95.540	ug/l	86
16) Carbon Disulfide	4.718	76	183800	18.370	ug/l	98
17) Allyl chloride	5.024	41	98656	19.502	ug/l	99
18) Methylene Chloride	5.283	84	83166	20.592	ug/l	98
19) trans-1,2-Dichloroethene	5.788	96	72015	19.618	ug/l	98
20) Diisopropyl ether	6.677	45	249642	20.811	ug/l	98
21) 1,1-Dichloroethane	6.571	63	151259	20.751	ug/l	96
22) cis-1,2-Dichloroethene	7.494	96	86089	20.361	ug/l	98
23) tert-Butyl Alcohol	5.518	59	53598	84.615	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	221533	20.122	ug/l	98
25) Chloroform	7.971	83	158583	21.531	ug/l	90
26) Cyclohexane	8.259	56	105885	19.216	ug/l #	98
29) 1,1-Dichloropropene	8.377	75	112257	22.113	ug/l	99
30) 2-Butanone	7.488	43	255405	100.367	ug/l	99
31) 2,2-Dichloropropane	7.494	77	124697	21.785	ug/l	99
32) 1,1,1-Trichloroethane	8.171	97	132927	22.030	ug/l	99
33) Carbon Tetrachloride	8.365	117	117352	22.868	ug/l	94
34) Benzene	8.612	78	333603	21.629	ug/l	98
35) Methacrylonitrile	7.782	41	54608	20.400	ug/l	96
36) 1,2-Dichloroethane	8.671	62	124932	22.685	ug/l	99
37) Trichloroethene	9.353	130	77562	21.513	ug/l	95
38) Methylcyclohexane	9.606	83	95665	19.572	ug/l	97
39) 1,2-Dichloropropane	9.624	63	91213	22.409	ug/l	96
40) Dibromomethane	9.712	93	59359	22.221	ug/l	98
41) Bromodichloromethane	9.894	83	122880	22.197	ug/l #	98
42) Vinyl Acetate	6.606	43	642478	99.529	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	101702	21.254	ug/l	98
44) Isopropyl Acetate	8.694	43	164304	19.316	ug/l	96
45) 1,4-Dioxane	9.700	88	26332	395.472	ug/l	97
46) Methyl methacrylate	9.682	41	78197	20.722	ug/l	98
47) n-amyl Acetate	12.500	43	119223	19.421	ug/l	95
48) t-1,3-Dichloropropene	10.841	75	120005	21.443	ug/l	97
49) cis-1,3-Dichloropropene	10.318	75	131351	21.464	ug/l	98
50) 1,1,2-Trichloroethane	11.023	97	79257	21.387	ug/l	98
51) Ethyl methacrylate	10.876	69	105179	20.572	ug/l	95
52) 1,3-Dichloropropane	11.165	76	145053	22.095	ug/l	100
53) Dibromochloromethane	11.359	129	85405	22.550	ug/l	99
54) 1,2-Dibromoethane	11.470	107	78526	21.479	ug/l	99
55) 2-Chloroethyl vinyl ether	10.165	63	184095	94.374	ug/l	98
56) Bromoform	12.582	173	54537	21.767	ug/l	99
58) 4-Methyl-2-Pentanone	10.447	43	519626	102.284	ug/l	100
59) 2-Hexanone	11.200	43	367966	98.730	ug/l	98
61) Tetrachloroethene	11.106	164	66822	22.345	ug/l	95
62) Toluene	10.635	91	351848	21.137	ug/l	99
64) Chlorobenzene	11.894	112	203351	21.063	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.965	131	80625	21.923	ug/l	96
66) Ethyl Benzene	11.970	91	361123	21.056	ug/l	98
67) m/p-Xylenes	12.076	106	281314	44.347	ug/l	97
68) o-Xylene	12.400	106	127325	20.996	ug/l	96
69) Styrene	12.417	104	214233	22.253	ug/l	99
70) Isopropylbenzene	12.700	105	332243	21.348	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.941	83	113708	20.548	ug/l	100
72) 1,2,3-Trichloropropane	12.994	75	105745m	21.043	ug/l	
73) Bromobenzene	12.982	156	78380	21.439	ug/l	97
74) n-propylbenzene	13.041	91	397113	21.917	ug/l	99
75) 2-Chlorotoluene	13.129	91	250548	22.243	ug/l	98
76) 1,3,5-Trimethylbenzene	13.176	105	282644	22.216	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	30946	20.177	ug/l	98
78) 4-Chlorotoluene	13.223	91	235605	22.138	ug/l	99
79) tert-butylbenzene	13.441	119	229467	22.433	ug/l	96
80) 1,2,4-Trimethylbenzene	13.488	105	268040	21.743	ug/l	99
81) sec-Butylbenzene	13.617	105	304745	21.222	ug/l	99
82) p-Isopropyltoluene	13.735	119	248378	21.805	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	134957	22.449	ug/l	98
84) 1,4-Dichlorobenzene	13.817	146	124058	21.526	ug/l	98
85) n-Butylbenzene	14.059	91	186407	20.945	ug/l	100
86) Hexachloroethane	14.335	117	50697	20.587	ug/l	95
87) 1,2-Dichlorobenzene	14.111	146	130032	21.761	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.723	75	16483	19.548	ug/l	97
89) 1,2,4-Trichlorobenzene	15.847	180	35398	16.807	ug/l	94
90) Hexachlorobutadiene	15.506	225	31715	21.259	ug/l	98
91) Naphthalene	15.647	128	76501	14.081	ug/l #	96
92) 1,2,3-Trichlorobenzene	15.847	180	35398	16.807	ug/l	94

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

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