

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021523\
 Data File : VN076676.D
 Acq On : 15 Feb 2023 10:24
 Operator : JC\MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

02/16/2023
 Supervised By :Mahesh
 Dadoda

Quant Time: Feb 15 11:45:29 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N021523W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 15 11:41:11 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.819	128	31159	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	219010	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	240062	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	92177	25.100	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	83.667%#
60) 4-Bromofluorobenzene	12.854	95	123426	22.774	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	75.900%
63) Toluene-d8	10.571	98	261839	29.705	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.033%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	17055	3.955	ug/l	98
3) Chloromethane	2.378	50	24193	4.665	ug/l	100
4) Vinyl Chloride	2.531	62	24989	5.519	ug/l	95
5) Bromomethane	2.954	94	19516	8.586	ug/l	93
6) Chloroethane	3.125	64	16714	6.408	ug/l	92
7) Trichlorofluoromethane	3.507	101	31545	4.103	ug/l	93
8) Diethyl Ether	3.972	74	11735	4.812	ug/l	89
9) 1,1,2-Trichlorotrifluo...	4.384	101	19428m	5.249	ug/l	
10) 1,1-Dichloroethene	4.342	96	18164m	5.223	ug/l	
11) Methyl Iodide	4.601	142	18267	3.615	ug/l #	79
12) Methyl Acetate	5.042	43	36426	4.991	ug/l #	89
13) Acrolein	4.189	56	23129	24.742	ug/l	100
14) Acrylonitrile	5.731	53	53042	24.806	ug/l	93
15) Acetone	4.448	58	17123m	27.735	ug/l	
16) Carbon Disulfide	4.725	76	50213	5.253	ug/l	99
17) Allyl chloride	5.042	41	32935	4.912	ug/l	97
18) Methylene Chloride	5.278	84	23629m	5.742	ug/l	
19) trans-1,2-Dichloroethene	5.801	96	20220m	5.659	ug/l	
20) Diisopropyl ether	6.683	45	72578	4.742	ug/l	92
21) 1,1-Dichloroethane	6.572	63	40405m	4.841	ug/l	
22) cis-1,2-Dichloroethene	7.495	96	21517	5.026	ug/l #	91
23) tert-Butyl Alcohol	5.525	59	14574m	20.312	ug/l	
24) Methyl tert-Butyl Ether	5.801	73	57417	4.584	ug/l #	81
25) Chloroform	7.972	83	36279	4.393	ug/l	96
26) Cyclohexane	8.260	56	32581	4.399	ug/l #	93
29) 1,1-Dichloropropene	8.377	75	27095	4.780	ug/l	97
30) 2-Butanone	7.495	43	76573	25.024	ug/l #	58
31) 2,2-Dichloropropane	7.507	77	28708m	4.877	ug/l	
32) 1,1,1-Trichloroethane	8.177	97	32610	4.636	ug/l	96
33) Carbon Tetrachloride	8.366	117	27118	4.469	ug/l #	91
34) Benzene	8.613	78	91290	5.241	ug/l #	96
35) Methacrylonitrile	7.783	41	17709	5.033	ug/l	96
36) 1,2-Dichloroethane	8.677	62	30248	4.528	ug/l	99
37) Trichloroethene	9.354	130	20713	5.808	ug/l	95
38) Methylcyclohexane	9.607	83	32973	5.255	ug/l	90
39) 1,2-Dichloropropane	9.624	63	24448	5.881	ug/l #	85
40) Dibromomethane	9.713	93	14769	5.401	ug/l	98
41) Bromodichloromethane	9.889	83	29454	5.123	ug/l	98
42) Vinyl Acetate	6.613	43	213381	21.439	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.572	43	29441	4.718	ug/l	100
44) Isopropyl Acetate	8.689	43	47692	4.647	ug/l	99
45) 1,4-Dioxane	9.701	88	8468	101.211	ug/l #	94
46) Methyl methacrylate	9.683	41	21205	4.285	ug/l	82
47) n-amyl Acetate	12.495	43	38392	4.401	ug/l	98
48) t-1,3-Dichloropropene	10.836	75	27120	4.686	ug/l	99
49) cis-1,3-Dichloropropene	10.319	75	32433	5.069	ug/l	94
50) 1,1,2-Trichloroethane	11.018	97	21858	5.886	ug/l	94
51) Ethyl methacrylate	10.877	69	27889	4.729	ug/l	88
52) 1,3-Dichloropropane	11.166	76	37057	5.353	ug/l	100
53) Dibromochloromethane	11.366	129	20991	5.439	ug/l	95
54) 1,2-Dibromoethane	11.477	107	19800	5.269	ug/l	98
55) 2-Chloroethyl vinyl ether	10.160	63	64392	23.905	ug/l	97
56) Bromoform	12.583	173	13876	5.583	ug/l #	85
58) 4-Methyl-2-Pentanone	10.448	43	151398	22.560	ug/l	98
59) 2-Hexanone	11.201	43	109298	22.400	ug/l	97
61) Tetrachloroethene	11.107	164	17679	5.761	ug/l	86
62) Toluene	10.636	91	95325	5.356	ug/l	97
64) Chlorobenzene	11.895	112	55473	5.380	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.965	131	20414	5.223	ug/l	95
66) Ethyl Benzene	11.965	91	94925	4.865	ug/l	96
67) m/p-Xylenes	12.077	106	72275	9.872	ug/l	97
68) o-Xylene	12.401	106	36137	5.010	ug/l	100
69) Styrene	12.413	104	55261	4.827	ug/l	96
70) Isopropylbenzene	12.695	105	87194	4.511	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.942	83	31363	4.654	ug/l	99
72) 1,2,3-Trichloropropane	12.995	75	25770m	4.187	ug/l	
73) Bromobenzene	12.983	156	19759	4.308	ug/l	87
74) n-propylbenzene	13.036	91	106920	4.313	ug/l	97
75) 2-Chlorotoluene	13.130	91	66376	4.257	ug/l	97
76) 1,3,5-Trimethylbenzene	13.171	105	73311	4.062	ug/l	100
77) t-1,4-Dichloro-2-butene	12.742	75	8228	4.432	ug/l	96
78) 4-Chlorotoluene	13.224	91	61693	3.935	ug/l	98
79) tert-butylbenzene	13.436	119	64783	4.229	ug/l	98
80) 1,2,4-Trimethylbenzene	13.489	105	71169	3.998	ug/l	99
81) sec-Butylbenzene	13.618	105	89473	4.171	ug/l	97
82) p-Isopropyltoluene	13.736	119	71609	4.155	ug/l	97
83) 1,3-Dichlorobenzene	13.736	146	39918	4.706	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	38268	4.522	ug/l	99
85) n-Butylbenzene	14.059	91	57896	3.617	ug/l	99
86) Hexachloroethane	14.342	117	15495	4.630	ug/l	99
87) 1,2-Dichlorobenzene	14.112	146	39598	4.252	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.724	75	5294	3.854	ug/l	96
89) 1,2,4-Trichlorobenzene	15.395	180	16755	4.314	ug/l	93
90) Hexachlorobutadiene	15.501	225	9495	5.061	ug/l	91
91) Naphthalene	15.648	128	50304	3.796	ug/l	99
92) 1,2,3-Trichlorobenzene	15.848	180	18695	4.823	ug/l	87

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

