

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021523\
 Data File : VN076685.D
 Acq On : 15 Feb 2023 14:40
 Operator : JC\MD
 Sample : VN0215WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0215WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/16/2023
 Supervised By : Mahesh Dadoda 02/18/2023

Quant Time: Feb 16 04:31:17 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N021523W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Feb 16 01:08:46 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.825	128	33355	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	242896	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	271572	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	95754	31.388	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	104.633%
60) 4-Bromofluorobenzene	12.854	95	147237	30.652	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	102.167%
63) Toluene-d8	10.572	98	279487	29.382	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.933%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.143	85	75792	21.472	ug/l	98
3) Chloromethane	2.378	50	90577	20.898	ug/l	96
4) Vinyl Chloride	2.525	62	99603	21.531	ug/l	98
5) Bromomethane	2.966	94	66316	20.763	ug/l	98
6) Chloroethane	3.137	64	67287	22.429	ug/l	92
7) Trichlorofluoromethane	3.513	101	119490	20.720	ug/l	96
8) Diethyl Ether	3.978	74	53153	23.230	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.390	101	74944	21.383	ug/l	87
10) 1,1-Dichloroethene	4.354	96	68781	20.895	ug/l	97
11) Methyl Iodide	4.607	142	85597	20.838	ug/l	93
12) Methyl Acetate	5.043	43	157815	23.386	ug/l #	87
13) Acrolein	4.201	56	83440	104.106	ug/l	100
14) Acrylonitrile	5.725	53	238855	115.331	ug/l	100
15) Acetone	4.443	58	64649	96.414	ug/l	99
16) Carbon Disulfide	4.725	76	187140	20.268	ug/l	97
17) Allyl chloride	5.037	41	128156	21.751	ug/l	94
18) Methylene Chloride	5.290	84	85401	20.554	ug/l	97
19) trans-1,2-Dichloroethene	5.807	96	76587m	20.746	ug/l	
20) Diisopropyl ether	6.684	45	310798	22.308	ug/l	96
21) 1,1-Dichloroethane	6.578	63	153586	21.074	ug/l	98
22) cis-1,2-Dichloroethene	7.495	96	92690	21.884	ug/l	98
23) tert-Butyl Alcohol	5.531	59	74997	125.300	ug/l #	100
24) Methyl tert-Butyl Ether	5.807	73	261988	23.003	ug/l	99
25) Chloroform	7.972	83	157034	21.973	ug/l	96
26) Cyclohexane	8.266	56	141706	21.755	ug/l #	98
29) 1,1-Dichloropropene	8.383	75	113202	20.431	ug/l	98
30) 2-Butanone	7.489	43	346585	107.240	ug/l	99
31) 2,2-Dichloropropane	7.501	77	116316	20.087	ug/l #	60
32) 1,1,1-Trichloroethane	8.178	97	128550	19.986	ug/l	98
33) Carbon Tetrachloride	8.372	117	111075	19.930	ug/l	95
34) Benzene	8.613	78	359522	20.325	ug/l	98
35) Methacrylonitrile	7.784	41	74837	21.229	ug/l	96
36) 1,2-Dichloroethane	8.678	62	128037	21.625	ug/l	99
37) Trichloroethene	9.360	130	81623	19.842	ug/l	95
38) Methylcyclohexane	9.607	83	142048	20.373	ug/l	97
39) 1,2-Dichloropropane	9.625	63	95515	20.778	ug/l	98
40) Dibromomethane	9.713	93	62401	21.285	ug/l	97
41) Bromodichloromethane	9.889	83	123078	20.929	ug/l	93
42) Vinyl Acetate	6.619	43	1038869	110.918	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	131641	21.379	ug/l	99
44) Isopropyl Acetate	8.695	43	229338	22.627	ug/l	100
45) 1,4-Dioxane	9.701	88	39915	465.297	ug/l	96
46) Methyl methacrylate	9.683	41	106203	22.826	ug/l	95
47) n-amyl Acetate	12.495	43	197422	22.057	ug/l	98
48) t-1,3-Dichloropropene	10.842	75	130870	21.941	ug/l	95
49) cis-1,3-Dichloropropene	10.319	75	140112	20.639	ug/l	99
50) 1,1,2-Trichloroethane	11.019	97	92102	21.611	ug/l	94
51) Ethyl methacrylate	10.877	69	137591	22.236	ug/l	97
52) 1,3-Dichloropropane	11.166	76	158076	21.574	ug/l	99
53) Dibromochloromethane	11.366	129	87867	20.071	ug/l	99
54) 1,2-Dibromoethane	11.472	107	90441	21.799	ug/l	99
55) 2-Chloroethyl vinyl ether	10.166	63	264428	96.397	ug/l	99
56) Bromoform	12.583	173	63283	20.989	ug/l	99
58) 4-Methyl-2-Pentanone	10.448	43	725733	112.360	ug/l	98
59) 2-Hexanone	11.201	43	535580	111.478	ug/l	100
61) Tetrachloroethene	11.107	164	67576	19.705	ug/l	94
62) Toluene	10.636	91	380070	20.026	ug/l	100
64) Chlorobenzene	11.895	112	232422	20.555	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.966	131	85032	20.514	ug/l	97
66) Ethyl Benzene	11.966	91	420975	20.865	ug/l	95
67) m/p-Xylenes	12.077	106	329958	41.820	ug/l	99
68) o-Xylene	12.401	106	163343	21.008	ug/l	98
69) Styrene	12.413	104	264346	21.177	ug/l	98
70) Isopropylbenzene	12.701	105	412373	20.789	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.942	83	141906	21.867	ug/l	95
72) 1,2,3-Trichloropropane	12.995	75	122033m	21.347	ug/l	
73) Bromobenzene	12.983	156	95175	20.678	ug/l	95
74) n-propylbenzene	13.036	91	494833	20.945	ug/l	100
75) 2-Chlorotoluene	13.130	91	293264	20.861	ug/l	98
76) 1,3,5-Trimethylbenzene	13.177	105	346111	20.921	ug/l	100
77) t-1,4-Dichloro-2-butene	12.742	75	39757	21.646	ug/l	96
78) 4-Chlorotoluene	13.224	91	284249	21.091	ug/l	98
79) tert-butylbenzene	13.442	119	307364	20.984	ug/l	99
80) 1,2,4-Trimethylbenzene	13.483	105	344383	20.964	ug/l	100
81) sec-Butylbenzene	13.618	105	434591	20.661	ug/l	98
82) p-Isopropyltoluene	13.736	119	362697	21.268	ug/l	98
83) 1,3-Dichlorobenzene	13.736	146	182506	20.752	ug/l	99
84) 1,4-Dichlorobenzene	13.818	146	178191	20.773	ug/l	98
85) n-Butylbenzene	14.060	91	297049	20.552	ug/l	99
86) Hexachloroethane	14.342	117	63704	19.297	ug/l	94
87) 1,2-Dichlorobenzene	14.113	146	180147	20.371	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.724	75	26168	21.753	ug/l	97
89) 1,2,4-Trichlorobenzene	15.395	180	93725	20.776	ug/l	99
90) Hexachlorobutadiene	15.501	225	42326	19.475	ug/l	93
91) Naphthalene	15.642	128	318950	21.989	ug/l	99
92) 1,2,3-Trichlorobenzene	15.842	180	93691	20.461	ug/l	99

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

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