

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072722\
 Data File : VN073610.D
 Acq On : 27 Jul 2022 16:27
 Operator : JC\MD
 Sample : VN0727WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0727WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/28/2022
 Supervised By : Mahesh Dadoda 07/28/2022

Quant Time: Jul 28 02:14:56 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072722W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 27 18:07:26 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.587	128	48329	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.904	114	231041	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.686	117	223093	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.369	65	128788	30.821	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	102.733%
60) 4-Bromofluorobenzene	12.675	95	114597	29.010	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	96.700%
63) Toluene-d8	10.381	98	371636	29.584	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.600%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.046	85	49332	15.018	ug/l	97
3) Chloromethane	2.269	50	81302	18.719	ug/l	97
4) Vinyl Chloride	2.405	62	87827	16.476	ug/l	100
5) Bromomethane	2.805	94	59761	22.068	ug/l	99
6) Chloroethane	2.969	64	61669	17.076	ug/l	98
7) Trichlorofluoromethane	3.316	101	99615	18.999	ug/l	98
8) Diethyl Ether	3.769	74	41987	19.901	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.146	101	48673	15.398	ug/l #	68
10) 1,1-Dichloroethene	4.110	96	47843	15.812	ug/l	93
11) Methyl Iodide	4.352	142	52158	14.944	ug/l	93
12) Methyl Acetate	4.775	43	111693	21.721	ug/l	100
13) Acrolein	3.981	56	91002	100.669	ug/l	97
14) Acrylonitrile	5.475	53	253694	106.896	ug/l	97
15) Acetone	4.222	58	71883	108.950	ug/l	87
16) Carbon Disulfide	4.457	76	131197	15.867	ug/l	99
17) Allyl chloride	4.757	41	90624	17.956	ug/l	84
18) Methylene Chloride	5.016	84	77077	20.104	ug/l	99
19) trans-1,2-Dichloroethene	5.516	96	56700	16.902	ug/l	94
20) Diisopropyl ether	6.410	45	212870	19.389	ug/l	96
21) 1,1-Dichloroethane	6.304	63	118734	18.327	ug/l	98
22) cis-1,2-Dichloroethene	7.245	96	74377	18.430	ug/l	94
23) tert-Butyl Alcohol	5.287	59	90554	107.967	ug/l #	100
24) Methyl tert-Butyl Ether	5.534	73	218992	20.538	ug/l	93
25) Chloroform	7.745	83	125746	18.804	ug/l	97
26) Cyclohexane	8.022	56	82838	14.824	ug/l #	100
29) 1,1-Dichloropropene	8.151	75	75680	17.531	ug/l	97
30) 2-Butanone	7.263	43	350823	117.557	ug/l	100
31) 2,2-Dichloropropane	7.245	77	74938	16.636	ug/l	99
32) 1,1,1-Trichloroethane	7.945	97	93794	18.771	ug/l	98
33) Carbon Tetrachloride	8.134	117	74321	17.346	ug/l	99
34) Benzene	8.392	78	279567	20.013	ug/l	99
35) Methacrylonitrile	7.563	41	51369	21.205	ug/l	92
36) 1,2-Dichloroethane	8.469	62	105467	22.895	ug/l	97
37) Trichloroethene	9.151	130	63705	18.536	ug/l	100
38) Methylcyclohexane	9.398	83	84854	15.834	ug/l	94
39) 1,2-Dichloropropane	9.428	63	74884	21.248	ug/l	99
40) Dibromomethane	9.516	93	53399	22.329	ug/l	88
41) Bromodichloromethane	9.698	83	98434	21.027	ug/l	93
42) Vinyl Acetate	6.351	43	956793	111.264	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.340	43	141218	24.927	ug/l	98
44) Isopropyl Acetate	8.492	43	180903	22.962	ug/l	97
45) 1,4-Dioxane	9.504	88	46190	491.695	ug/l	95
46) Methyl methacrylate	9.498	41	83989	23.839	ug/l	85
47) n-amyl Acetate	12.333	43	128964	20.533	ug/l	92
48) t-1,3-Dichloropropene	10.663	75	98170	20.370	ug/l	96
49) cis-1,3-Dichloropropene	10.128	75	107427	20.076	ug/l	92
50) 1,1,2-Trichloroethane	10.839	97	79592	22.184	ug/l	98
51) Ethyl methacrylate	10.704	69	116298	21.561	ug/l	85
52) 1,3-Dichloropropane	10.986	76	133393	22.058	ug/l	100
53) Dibromochloromethane	11.181	129	77683	21.365	ug/l	99
54) 1,2-Dibromoethane	11.286	107	80898	22.126	ug/l	97
55) 2-Chloroethyl vinyl ether	9.981	63	265064	109.566	ug/l	100
56) Bromoform	12.398	173	59567	20.848	ug/l #	100
58) 4-Methyl-2-Pentanone	10.269	43	668287	115.850	ug/l	95
59) 2-Hexanone	11.028	43	515515	116.025	ug/l	95
61) Tetrachloroethene	10.916	164	63055	18.452	ug/l	91
62) Toluene	10.445	91	298794	19.260	ug/l	98
64) Chlorobenzene	11.710	112	180393	19.461	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.780	131	69937	20.326	ug/l	98
66) Ethyl Benzene	11.786	91	296654	17.886	ug/l	98
67) m/p-Xylenes	11.892	106	233112	36.772	ug/l	97
68) o-Xylene	12.222	106	118250	18.780	ug/l	98
69) Styrene	12.233	104	194396	18.731	ug/l	96
70) Isopropylbenzene	12.522	105	283272	17.597	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.769	83	126942	22.426	ug/l	96
72) 1,2,3-Trichloropropane	12.822	75	110871m	23.453	ug/l	
73) Bromobenzene	12.804	156	77208	19.308	ug/l	100
74) n-propylbenzene	12.863	91	317720	16.959	ug/l	100
75) 2-Chlorotoluene	12.945	91	204208	18.184	ug/l	99
76) 1,3,5-Trimethylbenzene	12.998	105	240375	17.827	ug/l	96
77) t-1,4-Dichloro-2-butene	12.569	75	34055	19.767	ug/l	92
78) 4-Chlorotoluene	13.045	91	192354	17.830	ug/l	100
79) tert-butylbenzene	13.263	119	201264	17.265	ug/l	94
80) 1,2,4-Trimethylbenzene	13.310	105	240832m	18.032	ug/l	
81) sec-Butylbenzene	13.439	105	278564	16.642	ug/l	99
82) p-Isopropyltoluene	13.557	119	224727	16.353	ug/l	97
83) 1,3-Dichlorobenzene	13.557	146	132092	18.046	ug/l	97
84) 1,4-Dichlorobenzene	13.633	146	125184	17.729	ug/l	96
85) n-Butylbenzene	13.886	91	164463	14.764	ug/l	99
86) Hexachloroethane	14.151	117	42742	16.960	ug/l	87
87) 1,2-Dichlorobenzene	13.927	146	139173	18.806	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.545	75	26195	21.187	ug/l	82
89) 1,2,4-Trichlorobenzene	15.198	180	64679	15.880	ug/l	97
90) Hexachlorobutadiene	15.304	225	32828	15.913	ug/l	96
91) Naphthalene	15.433	128	247990	18.543	ug/l	99
92) 1,2,3-Trichlorobenzene	15.627	180	73047	17.458	ug/l	97

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

