

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031623\
 Data File : VN077017.D
 Acq On : 16 Mar 2023 13:08
 Operator : JC\MD
 Sample : VN0316WBSD02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0316WBSD02

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/17/2023
 Supervised By : Mahesh Dadoda 03/17/2023

Quant Time: Mar 17 03:22:12 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N030823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 09 04:16:54 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.819	128	51377	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	377332	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	409499	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	155975	33.029	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 110.100%#	
60) 4-Bromofluorobenzene	12.854	95	235704	30.412	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 101.367%	
63) Toluene-d8	10.572	98	441217	30.633	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 102.100%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	122057	18.565	ug/l	98
3) Chloromethane	2.378	50	91338	15.200	ug/l	96
4) Vinyl Chloride	2.531	62	96900	17.683	ug/l #	88
5) Bromomethane	2.978	94	69752	19.905	ug/l	87
6) Chloroethane	3.137	64	64347	19.984	ug/l	91
7) Trichlorofluoromethane	3.513	101	208147	20.333	ug/l	100
8) Diethyl Ether	3.978	74	81899	21.333	ug/l	93
9) 1,1,2-Trichlorotrifluo...	4.390	101	124455	21.460	ug/l	97
10) 1,1-Dichloroethene	4.354	96	114653	20.368	ug/l	96
11) Methyl Iodide	4.607	142	144187	21.259	ug/l	95
12) Methyl Acetate	5.037	43	210313	22.716	ug/l	96
13) Acrolein	4.195	56	157420	115.014	ug/l	100
14) Acrylonitrile	5.731	53	328198	107.612	ug/l	100
15) Acetone	4.443	58	116202	140.000	ug/l	96
16) Carbon Disulfide	4.725	76	327690	20.995	ug/l	98
17) Allyl chloride	5.037	41	202290	23.960	ug/l	97
18) Methylene Chloride	5.295	84	135009	20.505	ug/l	93
19) trans-1,2-Dichloroethene	5.801	96	122129	20.591	ug/l	93
20) Diisopropyl ether	6.684	45	446556	23.446	ug/l	97
21) 1,1-Dichloroethane	6.578	63	253788	22.391	ug/l	96
22) cis-1,2-Dichloroethene	7.495	96	141122	20.762	ug/l	96
23) tert-Butyl Alcohol	5.525	59	103738	117.118	ug/l #	100
24) Methyl tert-Butyl Ether	5.807	73	401835	21.896	ug/l	94
25) Chloroform	7.972	83	247623	21.267	ug/l	97
26) Cyclohexane	8.260	56	228585	22.089	ug/l #	97
29) 1,1-Dichloropropene	8.378	75	186454	20.979	ug/l	98
30) 2-Butanone	7.489	43	487985	120.346	ug/l	100
31) 2,2-Dichloropropane	7.495	77	198622	22.557	ug/l #	66
32) 1,1,1-Trichloroethane	8.172	97	211707	20.422	ug/l	98
33) Carbon Tetrachloride	8.366	117	182568	19.917	ug/l	94
34) Benzene	8.613	78	553348	20.308	ug/l	96
35) Methacrylonitrile	7.783	41	90367m	19.806	ug/l	
36) 1,2-Dichloroethane	8.678	62	194416	21.287	ug/l	99
37) Trichloroethene	9.354	130	122695	18.270	ug/l	95
38) Methylcyclohexane	9.607	83	234806	21.225	ug/l	97
39) 1,2-Dichloropropane	9.625	63	148198	21.169	ug/l	98
40) Dibromomethane	9.713	93	90363	20.261	ug/l	99
41) Bromodichloromethane	9.889	83	189486	20.731	ug/l	99
42) Vinyl Acetate	6.613	43	1483061	117.333	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	181757	22.214	ug/l	99
44) Isopropyl Acetate	8.695	43	296282	22.339	ug/l	96
45) 1,4-Dioxane	9.701	88	47652	427.073	ug/l	92
46) Methyl methacrylate	9.683	41	147518	22.839	ug/l	93
47) n-amyl Acetate	12.495	43	251175	23.270	ug/l	94
48) t-1,3-Dichloropropene	10.836	75	201842	22.047	ug/l	99
49) cis-1,3-Dichloropropene	10.313	75	222487	21.397	ug/l	89
50) 1,1,2-Trichloroethane	11.019	97	127851	19.567	ug/l	99
51) Ethyl methacrylate	10.877	69	203854	21.163	ug/l	95
52) 1,3-Dichloropropane	11.166	76	234680	20.795	ug/l	99
53) Dibromochloromethane	11.360	129	131596	19.742	ug/l	99
54) 1,2-Dibromoethane	11.471	107	124197	19.698	ug/l	98
55) 2-Chloroethyl vinyl ether	10.160	63	438309	129.782	ug/l	98
56) Bromoform	12.583	173	86511	19.399	ug/l	99
58) 4-Methyl-2-Pentanone	10.448	43	929774	112.395	ug/l	95
59) 2-Hexanone	11.195	43	697262	118.652	ug/l	94
61) Tetrachloroethene	11.107	164	100179	15.497	ug/l	89
62) Toluene	10.630	91	581571	20.611	ug/l	98
64) Chlorobenzene	11.895	112	335198	20.181	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.960	131	122911	19.702	ug/l	97
66) Ethyl Benzene	11.966	91	636451	20.775	ug/l	100
67) m/p-Xylenes	12.071	106	484366	41.740	ug/l	92
68) o-Xylene	12.401	106	234826	20.727	ug/l	96
69) Styrene	12.413	104	378145	20.580	ug/l	97
70) Isopropylbenzene	12.701	105	615131	20.867	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.936	83	190061	21.384	ug/l	99
72) 1,2,3-Trichloropropane	12.995	75	146982m	18.027	ug/l	
73) Bromobenzene	12.983	156	131386	19.751	ug/l	89
74) n-propylbenzene	13.036	91	731496	21.023	ug/l	99
75) 2-Chlorotoluene	13.130	91	438842	20.394	ug/l	96
76) 1,3,5-Trimethylbenzene	13.177	105	528653	20.720	ug/l	93
77) t-1,4-Dichloro-2-butene	12.736	75	57966	23.290	ug/l	98
78) 4-Chlorotoluene	13.224	91	430553	20.757	ug/l	92
79) tert-butylbenzene	13.442	119	434593	20.368	ug/l	96
80) 1,2,4-Trimethylbenzene	13.483	105	521632	20.803	ug/l	94
81) sec-Butylbenzene	13.618	105	631734	20.694	ug/l	98
82) p-Isopropyltoluene	13.730	119	512357	20.766	ug/l	97
83) 1,3-Dichlorobenzene	13.736	146	246652	20.040	ug/l	97
84) 1,4-Dichlorobenzene	13.812	146	239809	20.058	ug/l	97
85) n-Butylbenzene	14.060	91	443452	21.204	ug/l	97
86) Hexachloroethane	14.336	117	93533	21.232	ug/l	99
87) 1,2-Dichlorobenzene	14.107	146	241043	19.639	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.724	75	36479	21.072	ug/l	95
89) 1,2,4-Trichlorobenzene	15.395	180	122358	18.688	ug/l	98
90) Hexachlorobutadiene	15.507	225	62683	18.160	ug/l	97
91) Naphthalene	15.642	128	391308	18.843	ug/l	98
92) 1,2,3-Trichlorobenzene	15.842	180	119662	18.230	ug/l	97

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

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