

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112321\
 Data File : VN069621.D
 Acq On : 23 Nov 2021 11:40
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/24/2021
 Supervised By : Mahesh Dadoda 11/26/2021

Quant Time: Nov 24 02:25:30 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N111021W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Nov 10 14:36:17 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.657	128	163860	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	909904	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.744	117	836143	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.437	65	445297	31.334	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.433%			
60) 4-Bromofluorobenzene	12.731	95	399053	29.823	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.400%			
63) Toluene-d8	10.440	98	1184093	30.670	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.233%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.075	85	269066	22.222	ug/l	99
3) Chloromethane	2.306	50	277281	21.964	ug/l	97
4) Vinyl Chloride	2.451	62	264513	20.663	ug/l	99
5) Bromomethane	2.869	94	157507	19.212	ug/l	98
6) Chloroethane	3.028	64	158721	19.652	ug/l	95
7) Trichlorofluoromethane	3.382	101	356513	19.001	ug/l	100
8) Diethyl Ether	3.827	74	130043	21.957	ug/l	80
9) 1,1,2-Trichlorotrifluo...	4.213	101	194179	22.365	ug/l #	69
10) 1,1-Dichloroethene	4.183	96	175074	21.380	ug/l	86
11) Methyl Iodide	4.422	142	251841	22.074	ug/l	98
12) Methyl Acetate	4.857	43	504980m	21.413	ug/l	
13) Acrolein	4.047	56	79399	122.456	ug/l	97
14) Acrylonitrile	5.554	53	651600	101.276	ug/l	98
15) Acetone	4.291	58	221740	103.430	ug/l	77
16) Carbon Disulfide	4.532	76	417424	20.394	ug/l	99
17) Allyl chloride	4.841	41	372909	21.426	ug/l	91
18) Methylene Chloride	5.095	84	225507	21.617	ug/l #	84
19) trans-1,2-Dichloroethene	5.602	96	191500	21.311	ug/l	89
20) Diisopropyl ether	6.495	45	815531	21.868	ug/l #	95
21) 1,1-Dichloroethane	6.388	63	408784	21.606	ug/l	99
22) cis-1,2-Dichloroethene	7.324	96	235467	21.128	ug/l	92
23) tert-Butyl Alcohol	5.369	59	203117	90.711	ug/l #	100
24) Methyl tert-Butyl Ether	5.618	73	700308	21.340	ug/l	95
25) Chloroform	7.818	83	420108	21.476	ug/l	100
26) Cyclohexane	8.094	56	380878	21.204	ug/l #	87
29) 1,1-Dichloropropene	8.222	75	297516	21.420	ug/l	97
30) 2-Butanone	7.335	43	1017472	101.204	ug/l	92
31) 2,2-Dichloropropane	7.324	77	308448	21.006	ug/l	96
32) 1,1,1-Trichloroethane	8.013	97	340793	21.017	ug/l	94
33) Carbon Tetrachloride	8.204	117	285885	21.347	ug/l	99
34) Benzene	8.459	78	922107	21.831	ug/l #	95
35) Methacrylonitrile	7.638	41	198363	21.512	ug/l	90
36) 1,2-Dichloroethane	8.528	62	368812	22.648	ug/l	99
37) Trichloroethene	9.215	130	220467	21.605	ug/l	91
38) Methylcyclohexane	9.459	83	362986	21.123	ug/l	89
39) 1,2-Dichloropropane	9.491	63	250051	22.352	ug/l	100
40) Dibromomethane	9.577	93	161674	21.579	ug/l	96
41) Bromodichloromethane	9.759	83	304923	21.683	ug/l	94
42) Vinyl Acetate	6.434	43	3055223	107.533	ug/l #	94

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.413	43	383327	20.574	ug/l	99
44) Isopropyl Acetate	8.560	43	598137	20.592	ug/l	96
45) 1,4-Dioxane	9.569	88	90668	384.524	ug/l	88
46) Methyl methacrylate	9.558	41	272526	20.371	ug/l	84
47) n-amyl Acetate	12.390	43	364399	16.337	ug/l	98
48) t-1,3-Dichloropropene	10.717	75	300660	19.922	ug/l	98
49) cis-1,3-Dichloropropene	10.188	75	346724	21.113	ug/l	93
50) 1,1,2-Trichloroethane	10.896	97	226711	21.309	ug/l	96
51) Ethyl methacrylate	10.760	69	348379	19.531	ug/l	90
52) 1,3-Dichloropropane	11.044	76	399505	21.739	ug/l	99
53) Dibromochloromethane	11.237	129	209052	20.562	ug/l	100
54) 1,2-Dibromoethane	11.344	107	223515	20.286	ug/l	94
55) 2-Chloroethyl vinyl ether	10.041	63	477188	117.609	ug/l	97
56) Bromoform	12.457	173	138733	19.029	ug/l #	100
58) 4-Methyl-2-Pentanone	10.331	43	1919892	104.603	ug/l #	94
59) 2-Hexanone	11.087	43	1354493	97.018	ug/l	95
61) Tetrachloroethene	10.977	164	204990	22.842	ug/l	98
62) Toluene	10.505	91	992722	21.606	ug/l	98
64) Chlorobenzene	11.768	112	584519	21.204	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.840	131	209281	21.564	ug/l	99
66) Ethyl Benzene	11.843	91	1067444	20.989	ug/l	100
67) m/p-Xylenes	11.953	106	795475	42.112	ug/l	94
68) o-Xylene	12.280	106	391036	20.675	ug/l	95
69) Styrene	12.294	104	621882	20.281	ug/l	97
70) Isopropylbenzene	12.578	105	1027095	20.765	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.825	83	341974	20.952	ug/l	97
72) 1,2,3-Trichloropropane	12.881	75	292882m	18.420	ug/l	
73) Bromobenzene	12.860	156	234178	20.538	ug/l	93
74) n-propylbenzene	12.919	91	1143160	20.124	ug/l	99
75) 2-Chlorotoluene	13.007	91	721747	20.871	ug/l	96
76) 1,3,5-Trimethylbenzene	13.058	105	845042	20.815	ug/l	99
77) t-1,4-Dichloro-2-butene	12.626	75	69119	16.104	ug/l	82
78) 4-Chlorotoluene	13.104	91	667684	20.162	ug/l	94
79) tert-butylbenzene	13.324	119	715759	20.042	ug/l	98
80) 1,2,4-Trimethylbenzene	13.367	105	816517m	20.617	ug/l	
81) sec-Butylbenzene	13.501	105	990464	19.822	ug/l	100
82) p-Isopropyltoluene	13.616	119	785573	19.704	ug/l	99
83) 1,3-Dichlorobenzene	13.616	146	397501	20.390	ug/l	99
84) 1,4-Dichlorobenzene	13.694	146	371518	19.644	ug/l	98
85) n-Butylbenzene	13.943	91	590743	17.753	ug/l	99
86) Hexachloroethane	14.211	117	122810	18.612	ug/l	87
87) 1,2-Dichlorobenzene	13.989	146	379483	20.170	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.603	75	53238	18.633	ug/l	96
89) 1,2,4-Trichlorobenzene	15.263	180	152270	16.879	ug/l	98
90) Hexachlorobutadiene	15.367	225	108390	22.219	ug/l	99
91) Naphthalene	15.507	128	355466	13.678	ug/l	99
92) 1,2,3-Trichlorobenzene	15.700	180	145932	16.455	ug/l	98

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

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