

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080321\
 Data File : VX023519.D
 Acq On : 03 Aug 2021 10:25
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 8/6/2021 5:39:16 PM

Quant Time: Aug 03 11:38:44 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X080321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Aug 03 11:36:59 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.910	128	38802	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	209071	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	189340	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	88337	29.940	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.800%		
60) 4-Bromofluorobenzene	11.085	95	90767	29.675	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.900%		
63) Toluene-d8	8.653	98	260543	30.494	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.633%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	44218	19.166	ug/l	96
3) Chloromethane	1.294	50	50262	19.311	ug/l	96
4) Vinyl Chloride	1.374	62	48735	18.790	ug/l	98
5) Bromomethane	1.605	94	33135	21.108	ug/l	94
6) Chloroethane	1.685	64	30242	18.767	ug/l	96
7) Trichlorofluoromethane	1.892	101	79036	19.045	ug/l	95
8) Diethyl Ether	2.136	74	27847	18.702	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	44318	19.138	ug/l	99
10) 1,1-Dichloroethene	2.319	96	41932	18.761	ug/l	97
11) Methyl Iodide	2.453	142	56000	17.851	ug/l	95
12) Methyl Acetate	2.709	43	63960	19.031	ug/l	99
13) Acrolein	2.239	56	32381	84.666	ug/l	99
14) Acrylonitrile	3.068	53	142296	94.793	ug/l	98
15) Acetone	2.386	58	49549	112.990	ug/l	99
16) Carbon Disulfide	2.514	76	99784	18.453	ug/l	99
17) Allyl chloride	2.666	41	76965	18.792	ug/l	97
18) Methylene Chloride	2.794	84	49640	18.757	ug/l	99
19) trans-1,2-Dichloroethene	3.099	96	44536	18.650	ug/l	96
20) Diisopropyl ether	3.770	45	156911	19.011	ug/l	98
21) 1,1-Dichloroethane	3.617	63	84331	18.824	ug/l	99
22) cis-1,2-Dichloroethene	4.501	96	52533	18.665	ug/l	97
23) tert-Butyl Alcohol	2.971	59	65228	97.985	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	148159	18.635	ug/l	100
25) Chloroform	5.105	83	86438	18.675	ug/l	98
26) Cyclohexane	5.483	56	77257	18.667	ug/l #	98
29) 1,1-Dichloropropene	5.696	75	60800	18.823	ug/l	98
30) 2-Butanone	4.568	43	224513	103.759	ug/l	100
31) 2,2-Dichloropropane	4.483	77	70955	19.907	ug/l	98
32) 1,1,1-Trichloroethane	5.391	97	75544	19.553	ug/l	100
33) Carbon Tetrachloride	5.684	117	65019	19.349	ug/l	96
34) Benzene	6.044	78	191461	19.717	ug/l	98
35) Methacrylonitrile	4.928	41	41261	19.128	ug/l	98
36) 1,2-Dichloroethane	6.098	62	72505	19.706	ug/l	99
37) Trichloroethene	7.135	130	50557	19.267	ug/l	95
38) Methylcyclohexane	7.385	83	77781	18.899	ug/l	99
39) 1,2-Dichloropropane	7.434	63	49626	19.537	ug/l	95
40) Dibromomethane	7.586	93	35240	19.912	ug/l	96
41) Bromodichloromethane	7.830	83	61425	19.168	ug/l	99
42) Vinyl Acetate	3.733	43	691967	98.331	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.727	43	79850	19.603	ug/l	100
44) Isopropyl Acetate	6.348	43	122515	19.067	ug/l	100
45) 1,4-Dioxane	7.665	88	27303	413.384	ug/l	99
46) Methyl methacrylate	7.696	41	59279	19.148	ug/l	99
47) n-amyl Acetate	10.848	43	103133	19.107	ug/l	98
48) t-1,3-Dichloropropene	8.982	75	70941	18.954	ug/l	99
49) cis-1,3-Dichloropropene	8.372	75	77024	19.245	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	50100	19.454	ug/l	97
51) Ethyl methacrylate	9.122	69	75937	18.380	ug/l	97
52) 1,3-Dichloropropane	9.311	76	83275	19.508	ug/l	99
53) Dibromochloromethane	9.525	129	47765	18.858	ug/l	98
54) 1,2-Dibromoethane	9.616	107	53028	19.358	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	197148	96.341	ug/l	100
56) Bromoform	10.805	173	34320	19.092	ug/l	97
58) 4-Methyl-2-Pentanone	8.580	43	412676	102.070	ug/l	100
59) 2-Hexanone	9.433	43	327881	104.559	ug/l	99
61) Tetrachloroethene	9.275	164	50778	20.080	ug/l	96
62) Toluene	8.720	91	209377	19.610	ug/l	99
64) Chlorobenzene	10.086	112	131433	19.730	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.165	131	47365	19.767	ug/l	98
66) Ethyl Benzene	10.195	91	226227	19.217	ug/l	99
67) m/p-Xylenes	10.305	106	176416	39.172	ug/l	98
68) o-Xylene	10.646	106	86379	19.329	ug/l	100
69) Styrene	10.659	104	140327	19.371	ug/l	100
70) Isopropylbenzene	10.963	105	224716	19.366	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	75042	20.099	ug/l	99
72) 1,2,3-Trichloropropane	11.244	75	72254m	20.698	ug/l	
73) Bromobenzene	11.201	156	55236	19.217	ug/l	96
74) n-propylbenzene	11.305	91	258822	19.282	ug/l	100
75) 2-Chlorotoluene	11.366	91	155093	19.294	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	187593	19.399	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	23736	19.383	ug/l	99
78) 4-Chlorotoluene	11.457	91	173589	19.228	ug/l	100
79) tert-butylbenzene	11.719	119	180189	19.145	ug/l	99
80) 1,2,4-Trimethylbenzene	11.756	105	188790	19.735	ug/l	100
81) sec-Butylbenzene	11.896	105	230437	19.173	ug/l	100
82) p-Isopropyltoluene	12.012	119	189038	19.079	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	98589	19.255	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	96611	19.077	ug/l	99
85) n-Butylbenzene	12.335	91	163407	18.631	ug/l	100
86) Hexachloroethane	12.542	117	28864	18.328	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	96679	19.645	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	14516	18.115	ug/l	97
89) 1,2,4-Trichlorobenzene	13.591	180	56320	18.499	ug/l	98
90) Hexachlorobutadiene	13.725	225	26378	19.358	ug/l	99
91) Naphthalene	13.780	128	197741	18.741	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	57493	18.641	ug/l	99

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

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