

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080921\
 Data File : VX023602.D
 Acq On : 09 Aug 2021 09:33
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 8/11/2021 5:16:59 PM

Quant Time: Aug 10 03:57:10 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X080321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Aug 03 12:05:42 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.910	128	44555	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	251439	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	226782	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	107118	31.088	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 103.633%	
60) 4-Bromofluorobenzene	11.085	95	115235	31.023	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 103.400%	
63) Toluene-d8	8.653	98	311135	30.484	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 101.600%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	56026	21.290	ug/l	97
3) Chloromethane	1.294	50	62534	21.062	ug/l	98
4) Vinyl Chloride	1.374	62	61670	20.767	ug/l	98
5) Bromomethane	1.599	94	41448	23.786	ug/l	96
6) Chloroethane	1.685	64	37324	20.074	ug/l	97
7) Trichlorofluoromethane	1.886	101	101018	21.063	ug/l	96
8) Diethyl Ether	2.136	74	34131	19.959	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.331	101	58812	21.952	ug/l	98
10) 1,1-Dichloroethene	2.319	96	53975	20.910	ug/l	92
11) Methyl Iodide	2.453	142	72397	19.961	ug/l	97
12) Methyl Acetate	2.709	43	78628	20.424	ug/l	99
13) Acrolein	2.239	56	39113	92.279	ug/l	98
14) Acrylonitrile	3.069	53	170368	100.034	ug/l	97
15) Acetone	2.386	58	75922	147.096	ug/l	97
16) Carbon Disulfide	2.514	76	130331	20.467	ug/l	100
17) Allyl chloride	2.666	41	98658	20.684	ug/l	97
18) Methylene Chloride	2.788	84	62996	20.751	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	57149	20.686	ug/l	96
20) Diisopropyl ether	3.770	45	199999	20.998	ug/l	92
21) 1,1-Dichloroethane	3.611	63	108967	21.004	ug/l	99
22) cis-1,2-Dichloroethene	4.495	96	67177	20.893	ug/l	98
23) tert-Butyl Alcohol	2.977	59	76433	98.901	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	190879	21.081	ug/l	100
25) Chloroform	5.099	83	112834	21.202	ug/l	99
26) Cyclohexane	5.471	56	98642	20.942	ug/l #	100
29) 1,1-Dichloropropene	5.696	75	82433	21.050	ug/l	99
30) 2-Butanone	4.562	43	299976	114.277	ug/l	100
31) 2,2-Dichloropropane	4.477	77	93989	21.230	ug/l #	71
32) 1,1,1-Trichloroethane	5.391	97	97829	20.650	ug/l	98
33) Carbon Tetrachloride	5.684	117	86113	20.898	ug/l	99
34) Benzene	6.044	78	241121	20.422	ug/l	98
35) Methacrylonitrile	4.928	41	51425	19.484	ug/l	99
36) 1,2-Dichloroethane	6.092	62	93143	20.646	ug/l	98
37) Trichloroethene	7.129	130	66695	20.792	ug/l	100
38) Methylcyclohexane	7.385	83	102700	20.617	ug/l	99
39) 1,2-Dichloropropane	7.434	63	63477	20.546	ug/l	97
40) Dibromomethane	7.586	93	44993	20.529	ug/l	95
41) Bromodichloromethane	7.824	83	82166	20.657	ug/l #	94
42) Vinyl Acetate	3.727	43	882590	103.222	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	97727	20.070	ug/l	98
44) Isopropyl Acetate	6.348	43	154274	19.901	ug/l	99
45) 1,4-Dioxane	7.659	88	32217	400.503	ug/l	94
46) Methyl methacrylate	7.696	41	73731	19.721	ug/l	97
47) n-amyl Acetate	10.842	43	135362	20.524	ug/l	100
48) t-1,3-Dichloropropene	8.982	75	94097	20.262	ug/l	97
49) cis-1,3-Dichloropropene	8.372	75	99578	20.219	ug/l	95
50) 1,1,2-Trichloroethane	9.153	97	63823	20.163	ug/l	94
51) Ethyl methacrylate	9.122	69	97798	19.596	ug/l	96
52) 1,3-Dichloropropane	9.311	76	106473	20.491	ug/l	99
53) Dibromochloromethane	9.525	129	63800	20.055	ug/l	98
54) 1,2-Dibromoethane	9.610	107	66442	19.836	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	220011	88.270	ug/l	100
56) Bromoform	10.805	173	46112	20.201	ug/l	100
58) 4-Methyl-2-Pentanone	8.574	43	496016	101.454	ug/l	100
59) 2-Hexanone	9.433	43	425744	112.139	ug/l	99
61) Tetrachloroethene	9.275	164	65751	21.579	ug/l	98
62) Toluene	8.720	91	269025	21.028	ug/l	98
64) Chlorobenzene	10.079	112	169897	20.989	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	60379	20.147	ug/l	99
66) Ethyl Benzene	10.195	91	297976	21.046	ug/l	99
67) m/p-Xylenes	10.305	106	230015	42.008	ug/l	98
68) o-Xylene	10.646	106	113374	21.002	ug/l	100
69) Styrene	10.659	104	187372	21.062	ug/l	100
70) Isopropylbenzene	10.963	105	299661	21.113	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	99571	21.930	ug/l	99
72) 1,2,3-Trichloropropane	11.244	75	94027m	22.032	ug/l	
73) Bromobenzene	11.201	156	75161	21.751	ug/l	97
74) n-propylbenzene	11.305	91	352233	21.432	ug/l	100
75) 2-Chlorotoluene	11.366	91	213788	21.792	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	252428	21.445	ug/l	99
77) t-1,4-Dichloro-2-butene	11.024	75	32044	21.033	ug/l	93
78) 4-Chlorotoluene	11.457	91	238892	21.550	ug/l	99
79) tert-butylbenzene	11.719	119	243530	21.299	ug/l	99
80) 1,2,4-Trimethylbenzene	11.756	105	249101	21.355	ug/l	100
81) sec-Butylbenzene	11.890	105	314133	21.450	ug/l	100
82) p-Isopropyltoluene	12.012	119	260775	21.671	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	136987	21.887	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	135294	21.870	ug/l	98
85) n-Butylbenzene	12.335	91	230099	21.615	ug/l	99
86) Hexachloroethane	12.542	117	42799	21.884	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	130698	21.640	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.945	75	20228	20.284	ug/l	95
89) 1,2,4-Trichlorobenzene	13.591	180	78820	21.097	ug/l	99
90) Hexachlorobutadiene	13.725	225	36305	21.664	ug/l	99
91) Naphthalene	13.780	128	261329	20.365	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	78760	20.982	ug/l	99

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

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