

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080321\
 Data File : VX023518.D
 Acq On : 03 Aug 2021 10:02
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 8/6/2021 5:39:14 PM

Quant Time: Aug 03 11:37:57 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	4.903	128	39581	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	221609	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	200266	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	93827	31.175	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.900%			
60) 4-Bromofluorobenzene	11.085	95	95501	29.519	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.400%			
63) Toluene-d8	8.652	98	274829	30.411	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.367%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	11599	4.929	ug/l	96
3) Chloromethane	1.294	50	13510	5.088	ug/l	100
4) Vinyl Chloride	1.373	62	13422	5.073	ug/l	98
5) Bromomethane	1.599	94	8514	5.317	ug/l	90
6) Chloroethane	1.684	64	8329	5.067	ug/l	97
7) Trichlorofluoromethane	1.885	101	21605	5.103	ug/l	100
8) Diethyl Ether	2.135	74	7676	5.054	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.324	101	12529	5.304	ug/l	99
10) 1,1-Dichloroethene	2.318	96	11604	5.090	ug/l	84
11) Methyl Iodide	2.452	142	12904	4.032	ug/l	98
12) Methyl Acetate	2.708	43	17045	4.972	ug/l	93
13) Acrolein	2.239	56	12171	31.197	ug/l	99
14) Acrylonitrile	3.068	53	36846	24.063	ug/l	96
15) Acetone	2.385	58	11510	25.730	ug/l	87
16) Carbon Disulfide	2.513	76	26296	4.767	ug/l	98
17) Allyl chloride	2.666	41	20807	4.980	ug/l	98
18) Methylene Chloride	2.794	84	14625	5.417	ug/l	97
19) trans-1,2-Dichloroethene	3.092	96	12483	5.125	ug/l	97
20) Diisopropyl ether	3.769	45	41257	4.900	ug/l	95
21) 1,1-Dichloroethane	3.617	63	23032	5.040	ug/l	98
22) cis-1,2-Dichloroethene	4.495	96	14026	4.885	ug/l	96
23) tert-Butyl Alcohol	2.977	59	16825	24.777	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	38534	4.751	ug/l	98
25) Chloroform	5.098	83	23403	4.957	ug/l	99
26) Cyclohexane	5.470	56	20135	4.769	ug/l #	100
29) 1,1-Dichloropropene	5.696	75	16051	4.688	ug/l	96
30) 2-Butanone	4.568	43	53954	23.524	ug/l	99
31) 2,2-Dichloropropane	4.476	77	18861	4.992	ug/l	93
32) 1,1,1-Trichloroethane	5.391	97	19212	4.691	ug/l #	85
33) Carbon Tetrachloride	5.683	117	16484	4.628	ug/l	95
34) Benzene	6.037	78	51135	4.968	ug/l	98
35) Methacrylonitrile	4.934	41	11380m	4.977	ug/l	
36) 1,2-Dichloroethane	6.092	62	19783	5.073	ug/l	99
37) Trichloroethene	7.128	130	14076	5.061	ug/l	99
38) Methylcyclohexane	7.384	83	21222	4.865	ug/l	99
39) 1,2-Dichloropropane	7.433	63	12900	4.791	ug/l	96
40) Dibromomethane	7.586	93	9523	5.077	ug/l	95
41) Bromodichloromethane	7.823	83	15522	4.570	ug/l	94
42) Vinyl Acetate	3.727	43	174137	23.345	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.726	43	19430	4.500	ug/l	100
44) Isopropyl Acetate	6.348	43	31694	4.653	ug/l	100
45) 1,4-Dioxane	7.665	88	6721	96.003	ug/l	91
46) Methyl methacrylate	7.695	41	14559	4.437	ug/l	93
47) n-amyl Acetate	10.847	43	25051	4.378	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	17126	4.317	ug/l	95
49) cis-1,3-Dichloropropene	8.372	75	19281	4.545	ug/l	95
50) 1,1,2-Trichloroethane	9.152	97	13115	4.804	ug/l	95
51) Ethyl methacrylate	9.122	69	18931	4.323	ug/l	97
52) 1,3-Dichloropropane	9.311	76	21641	4.783	ug/l	99
53) Dibromochloromethane	9.524	129	11414	4.251	ug/l	98
54) 1,2-Dibromoethane	9.616	107	13287	4.576	ug/l	98
55) 2-Chloroethyl vinyl ether	8.244	63	44948	20.722	ug/l	99
56) Bromoform	10.798	173	8182	4.294	ug/l	97
58) 4-Methyl-2-Pentanone	8.579	43	101817	23.809	ug/l	99
59) 2-Hexanone	9.433	43	80349	24.225	ug/l	99
61) Tetrachloroethene	9.274	164	13691	5.119	ug/l	92
62) Toluene	8.720	91	54817	4.854	ug/l	98
64) Chlorobenzene	10.079	112	34814	4.941	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.164	131	12615	4.977	ug/l	95
66) Ethyl Benzene	10.195	91	58334	4.685	ug/l	96
67) m/p-Xylenes	10.305	106	44508	9.344	ug/l	98
68) o-Xylene	10.646	106	21585	4.566	ug/l	96
69) Styrene	10.658	104	34831	4.546	ug/l	99
70) Isopropylbenzene	10.963	105	58078	4.732	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	19562	4.954	ug/l	99
72) 1,2,3-Trichloropropane	11.243	75	18559m	5.026	ug/l	
73) Bromobenzene	11.201	156	14281	4.697	ug/l	95
74) n-propylbenzene	11.304	91	66009	4.649	ug/l	99
75) 2-Chlorotoluene	11.365	91	40810	4.800	ug/l	100
76) 1,3,5-Trimethylbenzene	11.457	105	47781	4.671	ug/l	100
77) t-1,4-Dichloro-2-butene	11.024	75	4898	3.782	ug/l	92
78) 4-Chlorotoluene	11.457	91	45506	4.766	ug/l	100
79) tert-butylbenzene	11.719	119	46493	4.670	ug/l	99
80) 1,2,4-Trimethylbenzene	11.756	105	47801	4.724	ug/l	99
81) sec-Butylbenzene	11.890	105	58894	4.633	ug/l	100
82) p-Isopropyltoluene	12.012	119	47619	4.544	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	25668	4.740	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	25245	4.713	ug/l	99
85) n-Butylbenzene	12.335	91	41053	4.425	ug/l	99
86) Hexachloroethane	12.542	117	7095	4.259	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	25603	4.919	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.944	75	3474	4.099	ug/l	97
89) 1,2,4-Trichlorobenzene	13.591	180	13935	4.327	ug/l	96
90) Hexachlorobutadiene	13.731	225	6927	4.806	ug/l	99
91) Naphthalene	13.780	128	44793	4.014	ug/l	99
92) 1,2,3-Trichlorobenzene	13.962	180	13832	4.240	ug/l	99

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

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