

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051321\
 Data File : VX021932.D
 Acq On : 12 May 2021 17:25
 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

5/13/2021 4:07:06 PM

Quant Time: May 13 05:58:12 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 13 05:56:15 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.910	128	19976	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	117007	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	102612	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	46500	30.22	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	100.73%
60) 4-Bromofluorobenzene	11.085	95	49902	29.30	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	97.67%
63) Toluene-d8	8.653	98	139421	29.73	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.10%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	6184	5.24	ug/l	97
3) Chloromethane	1.294	50	8096	5.72	ug/l	98
4) Vinyl Chloride	1.374	62	8172	5.56	ug/l	99
5) Bromomethane	1.611	94	5464	6.60	ug/l	99
6) Chloroethane	1.684	64	5478	5.78	ug/l	97
7) Trichlorofluoromethane	1.892	101	11853	5.77	ug/l	94
8) Diethyl Ether	2.136	74	5225	5.93	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.331	101	7097	6.02	ug/l	95
10) 1,1-Dichloroethene	2.319	96	7158	6.03	ug/l	96
11) Methyl Iodide	2.453	142	4897	4.15	ug/l	95
12) Methyl Acetate	2.709	43	9068	5.52	ug/l	100
13) Acrolein	2.239	56	6081	23.88	ug/l	95
14) Acrylonitrile	3.068	53	18948	28.28	ug/l	98
15) Acetone	2.386	58	5613	28.07	ug/l	99
16) Carbon Disulfide	2.514	76	18850	5.80	ug/l	99
17) Allyl chloride	2.666	41	12208	5.83	ug/l	98
18) Methylene Chloride	2.794	84	8943	6.34	ug/l	90
19) trans-1,2-Dichloroethene	3.099	96	7534	5.84	ug/l #	81
20) Diisopropyl ether	3.763	45	23554	5.97	ug/l	89
21) 1,1-Dichloroethane	3.617	63	13794	5.84	ug/l	94
22) cis-1,2-Dichloroethene	4.489	96	8698	5.74	ug/l	97
23) tert-Butyl Alcohol	2.977	59	9172	28.17	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	22427	5.80	ug/l	98
25) Chloroform	5.105	83	14103	5.89	ug/l	100
26) Cyclohexane	5.470	56	11911	6.11	ug/l #	55
29) 1,1-Dichloropropene	5.702	75	10388	5.67	ug/l	96
30) 2-Butanone	4.568	43	28455	27.45	ug/l	99
31) 2,2-Dichloropropane	4.477	77	12998	6.04	ug/l #	76
32) 1,1,1-Trichloroethane	5.385	97	12669	5.86	ug/l #	86
33) Carbon Tetrachloride	5.690	117	10406	5.67	ug/l	97
34) Benzene	6.037	78	32953	5.90	ug/l #	95
35) Methacrylonitrile	4.922	41	6240	5.62	ug/l	91
36) 1,2-Dichloroethane	6.092	62	11092	5.81	ug/l #	88
37) Trichloroethene	7.129	130	8268	5.89	ug/l	99
38) Methylcyclohexane	7.385	83	12504	6.01	ug/l	97
39) 1,2-Dichloropropane	7.440	63	7981	5.72	ug/l	100
40) Dibromomethane	7.580	93	5559	5.73	ug/l	96
41) Bromodichloromethane	7.824	83	11112	5.73	ug/l	89
42) Vinyl Acetate	3.727	43	108342	27.99	ug/l	99

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43) Ethyl Acetate	4.721	43	12210m	6.72	ug/l	
44) Isopropyl Acetate	6.342	43	19913	5.73	ug/l	97
45) 1,4-Dioxane	7.677	88	3201	103.20	ug/l #	100
46) Methyl methacrylate	7.696	41	9224	5.73	ug/l	98
47) n-amyl Acetate	10.847	43	15336	5.31	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	11841	5.44	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	12728	5.45	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	7800	5.65	ug/l	93
51) Ethyl methacrylate	9.116	69	12345	5.54	ug/l	95
52) 1,3-Dichloropropane	9.311	76	14369	5.96	ug/l	95
53) Dibromochloromethane	9.525	129	7602	5.48	ug/l	97
54) 1,2-Dibromoethane	9.610	107	7814	5.51	ug/l	98
55) 2-Chloroethyl vinyl ether	8.244	63	33497	28.48	ug/l	99
56) Bromoform	10.805	173	4690	5.33	ug/l	97
58) 4-Methyl-2-Pentanone	8.580	43	57559	27.82	ug/l	99
59) 2-Hexanone	9.433	43	41220	26.90	ug/l	99
61) Tetrachloroethene	9.275	164	6894	5.92	ug/l	87
62) Toluene	8.720	91	34210	5.82	ug/l	99
64) Chlorobenzene	10.079	112	19865	5.65	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	7156	5.58	ug/l	97
66) Ethyl Benzene	10.195	91	36805	5.69	ug/l	99
67) m/p-Xylenes	10.305	106	28253	13.22	ug/l	97
68) o-Xylene	10.646	106	13715	5.75	ug/l	98
69) Styrene	10.658	104	22622	5.67	ug/l	98
70) Isopropylbenzene	10.963	105	35668	5.69	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	11463	5.55	ug/l	95
72) 1,2,3-Trichloropropane	11.244	75	10399m	4.29	ug/l	
73) Bromobenzene	11.201	156	7536	5.68	ug/l	95
74) n-propylbenzene	11.305	91	41263	5.65	ug/l	99
75) 2-Chlorotoluene	11.366	91	24381	5.64	ug/l	98
76) 1,3,5-Trimethylbenzene	11.457	105	29328	5.60	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	3777	5.09	ug/l	88
78) 4-Chlorotoluene	11.457	91	28293	5.68	ug/l	99
79) tert-butylbenzene	11.719	119	29165	5.83	ug/l	97
80) 1,2,4-Trimethylbenzene	11.756	105	29683	5.68	ug/l	99
81) sec-Butylbenzene	11.896	105	35392	5.63	ug/l	97
82) p-Isopropyltoluene	12.012	119	29197	5.54	ug/l	97
83) 1,3-Dichlorobenzene	11.975	146	14373	5.71	ug/l	97
84) 1,4-Dichlorobenzene	12.042	146	13999	5.55	ug/l	98
85) n-Butylbenzene	12.335	91	26563	5.50	ug/l	97
86) Hexachloroethane	12.542	117	4848	5.53	ug/l	93
87) 1,2-Dichlorobenzene	12.341	146	13506	5.54	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	2358	5.13	ug/l	94
89) 1,2,4-Trichlorobenzene	13.591	180	8007	5.36	ug/l	93
90) Hexachlorobutadiene	13.731	225	3141	5.44	ug/l	95
91) Naphthalene	13.780	128	30547	5.21	ug/l	99
92) 1,2,3-Trichlorobenzene	13.969	180	7746	5.22	ug/l	95

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

