

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072921\
 Data File : VX023504.D
 Acq On : 28 Jul 2021 20:53
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 7/30/2021 6:17:36 PM

Quant Time: Jul 29 03:17:34 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X072921W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 29 03:13:17 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.910	128	35811	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	200285	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.061	117	182426	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.970	65	81554	29.986	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.967%		
60) 4-Bromofluorobenzene	11.085	95	88170	29.906	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.700%		
63) Toluene-d8	8.653	98	250358	30.421	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.400%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	37846	18.084	ug/l	98
3) Chloromethane	1.294	50	42388	17.965	ug/l	98
4) Vinyl Chloride	1.374	62	42388	17.980	ug/l	95
5) Bromomethane	1.599	94	30214	21.141	ug/l	99
6) Chloroethane	1.685	64	25912	17.636	ug/l	96
7) Trichlorofluoromethane	1.886	101	67812	18.076	ug/l	96
8) Diethyl Ether	2.136	74	24268	17.927	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	37464	17.854	ug/l	99
10) 1,1-Dichloroethene	2.319	96	35756	17.642	ug/l	98
11) Methyl Iodide	2.453	142	48724	17.144	ug/l	97
12) Methyl Acetate	2.715	43	55804	18.252	ug/l	97
13) Acrolein	2.239	56	29493	83.557	ug/l	96
14) Acrylonitrile	3.075	53	123739	90.444	ug/l	98
15) Acetone	2.386	58	35078	90.420	ug/l	97
16) Carbon Disulfide	2.514	76	84428	17.378	ug/l	97
17) Allyl chloride	2.666	41	64854	17.451	ug/l	97
18) Methylene Chloride	2.794	84	43822	18.127	ug/l	96
19) trans-1,2-Dichloroethene	3.099	96	39350	18.106	ug/l	93
20) Diisopropyl ether	3.776	45	133728	17.836	ug/l	88
21) 1,1-Dichloroethane	3.617	63	73418	18.042	ug/l	98
22) cis-1,2-Dichloroethene	4.501	96	45253	17.611	ug/l	98
23) tert-Butyl Alcohol	2.977	59	57660m	95.695	ug/l	
24) Methyl tert-Butyl Ether	3.123	73	128745	17.841	ug/l	98
25) Chloroform	5.111	83	75202	17.859	ug/l	96
26) Cyclohexane	5.483	56	66577	17.664	ug/l #	99
29) 1,1-Dichloropropene	5.702	75	55447	18.087	ug/l	85
30) 2-Butanone	4.568	43	180009	89.578	ug/l	100
31) 2,2-Dichloropropane	4.489	77	51309	15.464	ug/l	97
32) 1,1,1-Trichloroethane	5.391	97	63648	17.627	ug/l	98
33) Carbon Tetrachloride	5.684	117	54308	17.348	ug/l	99
34) Benzene	6.050	78	165620	18.208	ug/l	97
35) Methacrylonitrile	4.928	41	36568	18.028	ug/l	98
36) 1,2-Dichloroethane	6.098	62	61977	17.992	ug/l	99
37) Trichloroethene	7.135	130	44247	17.927	ug/l	100
38) Methylcyclohexane	7.385	83	66894	17.258	ug/l	99
39) 1,2-Dichloropropane	7.434	63	43099	18.132	ug/l	96
40) Dibromomethane	7.586	93	29483	17.919	ug/l	100
41) Bromodichloromethane	7.830	83	51833	17.382	ug/l	99
42) Vinyl Acetate	3.733	43	595727	90.422	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.727	43	66421	17.403	ug/l	99
44) Isopropyl Acetate	6.355	43	107605	17.812	ug/l	99
45) 1,4-Dioxane	7.665	88	24067	390.275	ug/l	97
46) Methyl methacrylate	7.702	41	51632	17.769	ug/l	96
47) n-amyl Acetate	10.848	43	90398	17.865	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	56168	16.124	ug/l	98
49) cis-1,3-Dichloropropene	8.372	75	62645	16.832	ug/l	95
50) 1,1,2-Trichloroethane	9.159	97	42589	17.618	ug/l	99
51) Ethyl methacrylate	9.122	69	66843	17.153	ug/l	98
52) 1,3-Dichloropropane	9.311	76	71770	17.881	ug/l	99
53) Dibromochloromethane	9.525	129	39760	16.932	ug/l	98
54) 1,2-Dibromoethane	9.616	107	45017	17.580	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	175598	90.994	ug/l	99
56) Bromoform	10.805	173	27357	16.486	ug/l	99
58) 4-Methyl-2-Pentanone	8.580	43	356509	93.460	ug/l	99
59) 2-Hexanone	9.433	43	276342	93.721	ug/l	100
61) Tetrachloroethene	9.281	164	43342	18.211	ug/l	93
62) Toluene	8.720	91	181905	18.034	ug/l	100
64) Chlorobenzene	10.086	112	112246	17.867	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	39993	17.780	ug/l	99
66) Ethyl Benzene	10.195	91	199603	17.914	ug/l	99
67) m/p-Xylenes	10.305	106	153074	36.107	ug/l	100
68) o-Xylene	10.646	106	77249	18.334	ug/l	98
69) Styrene	10.659	104	121993	17.871	ug/l	100
70) Isopropylbenzene	10.963	105	198982	18.135	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	69036	19.620	ug/l	99
72) 1,2,3-Trichloropropane	11.244	75	62549m	19.112	ug/l	
73) Bromobenzene	11.201	156	49358	18.132	ug/l	97
74) n-propylbenzene	11.305	91	227569	17.964	ug/l	100
75) 2-Chlorotoluene	11.366	91	137626	18.132	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	164228	17.989	ug/l	99
77) t-1,4-Dichloro-2-butene	11.024	75	17895	15.713	ug/l	99
78) 4-Chlorotoluene	11.457	91	151667	17.799	ug/l	100
79) tert-butylbenzene	11.719	119	161782	18.210	ug/l	99
80) 1,2,4-Trimethylbenzene	11.756	105	162138	18.025	ug/l	98
81) sec-Butylbenzene	11.896	105	203932	17.963	ug/l	99
82) p-Isopropyltoluene	12.012	119	167157	17.834	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	88683	18.393	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	86485	18.047	ug/l	98
85) n-Butylbenzene	12.335	91	143234	17.282	ug/l	99
86) Hexachloroethane	12.542	117	25660	17.382	ug/l	96
87) 1,2-Dichlorobenzene	12.335	146	88760	19.125	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	13092	17.278	ug/l	98
89) 1,2,4-Trichlorobenzene	13.591	180	51070	17.713	ug/l	98
90) Hexachlorobutadiene	13.725	225	23132	18.009	ug/l	98
91) Naphthalene	13.780	128	180035	17.957	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	51494	17.648	ug/l	99

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

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