

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071422\
 Data File : VX030077.D
 Acq On : 14 Jul 2022 21:38
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/15/2022
 Supervised By : Mahesh Dadoda 07/15/2022

Quant Time: Jul 15 04:42:18 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X070822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jul 09 02:10:54 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.903	128	28416	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	155469	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	141639	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	68857	29.717	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	99.067%	
60) 4-Bromofluorobenzene	11.085	95	78347	29.351	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	97.833%	
63) Toluene-d8	8.653	98	227853	29.667	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	98.900%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	36943	19.012	ug/l	98
3) Chloromethane	1.288	50	35816	17.676	ug/l	97
4) Vinyl Chloride	1.374	62	40076	17.454	ug/l	98
5) Bromomethane	1.611	94	18716	19.785	ug/l	99
6) Chloroethane	1.685	64	23140	18.819	ug/l	100
7) Trichlorofluoromethane	1.886	101	54770	18.818	ug/l	97
8) Diethyl Ether	2.136	74	22027	17.793	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.325	101	35914	18.326	ug/l	94
10) 1,1-Dichloroethene	2.319	96	36760	18.370	ug/l	89
11) Methyl Iodide	2.453	142	30747	21.443	ug/l	94
12) Methyl Acetate	2.709	43	66039	20.264	ug/l	93
13) Acrolein	2.239	56	27809	72.636	ug/l	100
14) Acrylonitrile	3.068	53	131551	93.789	ug/l	99
15) Acetone	2.392	58	36691	96.301	ug/l	87
16) Carbon Disulfide	2.514	76	85866	16.438	ug/l	98
17) Allyl chloride	2.666	41	62761	17.797	ug/l	91
18) Methylene Chloride	2.788	84	43494	18.656	ug/l	97
19) trans-1,2-Dichloroethene	3.093	96	38647	17.797	ug/l	94
20) Diisopropyl ether	3.769	45	131080	18.555	ug/l #	84
21) 1,1-Dichloroethane	3.611	63	70915	18.646	ug/l	99
22) cis-1,2-Dichloroethene	4.495	96	47149	18.285	ug/l	95
23) tert-Butyl Alcohol	2.989	59	49076	76.376	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	118503	18.357	ug/l	98
25) Chloroform	5.099	83	72503	19.128	ug/l	98
26) Cyclohexane	5.477	56	62827	17.830	ug/l #	94
29) 1,1-Dichloropropene	5.702	75	51316	19.295	ug/l	99
30) 2-Butanone	4.568	43	181041	100.851	ug/l	100
31) 2,2-Dichloropropane	4.483	77	35573	13.994	ug/l #	87
32) 1,1,1-Trichloroethane	5.385	97	57555	20.126	ug/l #	86
33) Carbon Tetrachloride	5.678	117	47592	19.815	ug/l	98
34) Benzene	6.043	78	168567	19.723	ug/l #	95
35) Methacrylonitrile	4.928	41	36531	20.105	ug/l	92
36) 1,2-Dichloroethane	6.092	62	52918	20.340	ug/l	97
37) Trichloroethene	7.129	130	44705	19.558	ug/l	97
38) Methylcyclohexane	7.385	83	65298	18.922	ug/l	95
39) 1,2-Dichloropropane	7.433	63	41515	19.082	ug/l	93
40) Dibromomethane	7.586	93	29007	19.669	ug/l	92
41) Bromodichloromethane	7.830	83	53560	20.332	ug/l	100
42) Vinyl Acetate	3.727	43	555236	96.719	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.727	43	67514	19.966	ug/l	99
44) Isopropyl Acetate	6.348	43	98838	19.241	ug/l	99
45) 1,4-Dioxane	7.683	88	24101	399.664	ug/l	97
46) Methyl methacrylate	7.696	41	48381	19.874	ug/l	97
47) n-amyl Acetate	10.841	43	77841	17.639	ug/l	96
48) t-1,3-Dichloropropene	8.982	75	50821	17.457	ug/l	92
49) cis-1,3-Dichloropropene	8.372	75	57932	17.721	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	44537	20.385	ug/l	98
51) Ethyl methacrylate	9.122	69	64393	18.940	ug/l	98
52) 1,3-Dichloropropane	9.311	76	70110	19.949	ug/l	98
53) Dibromochloromethane	9.525	129	39245	19.407	ug/l	98
54) 1,2-Dibromoethane	9.610	107	45000	19.834	ug/l	97
55) 2-Chloroethyl vinyl ether	8.244	63	177384	101.214	ug/l	96
56) Bromoform	10.799	173	26924	19.019	ug/l	97
58) 4-Methyl-2-Pentanone	8.580	43	345392	98.723	ug/l	98
59) 2-Hexanone	9.433	43	266396	98.446	ug/l	99
61) Tetrachloroethene	9.275	164	45048	21.182	ug/l	93
62) Toluene	8.720	91	178925	18.990	ug/l	97
64) Chlorobenzene	10.079	112	108123	19.215	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	37872	19.302	ug/l	96
66) Ethyl Benzene	10.195	91	191973	19.173	ug/l	99
67) m/p-Xylenes	10.305	106	148652	38.260	ug/l	98
68) o-Xylene	10.646	106	73215	18.923	ug/l	100
69) Styrene	10.659	104	122133	19.075	ug/l	97
70) Isopropylbenzene	10.963	105	187614	19.259	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	64882	18.315	ug/l	98
72) 1,2,3-Trichloropropane	11.244	75	59327m	18.631	ug/l	
73) Bromobenzene	11.201	156	43490	18.618	ug/l	89
74) n-propylbenzene	11.305	91	217276	18.593	ug/l	97
75) 2-Chlorotoluene	11.366	91	130961	19.031	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	152324	18.624	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	16336	14.915	ug/l	91
78) 4-Chlorotoluene	11.457	91	143324	18.557	ug/l	99
79) tert-butylbenzene	11.713	119	145450	18.280	ug/l	100
80) 1,2,4-Trimethylbenzene	11.756	105	153437	18.248	ug/l	99
81) sec-Butylbenzene	11.890	105	196309	18.227	ug/l	98
82) p-Isopropyltoluene	12.012	119	157385	18.152	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	83313	18.434	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	81684	17.821	ug/l	99
85) n-Butylbenzene	12.335	91	142036	17.457	ug/l	94
86) Hexachloroethane	12.542	117	25372	17.613	ug/l	82
87) 1,2-Dichlorobenzene	12.335	146	85273	19.108	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	14915	18.462	ug/l	85
89) 1,2,4-Trichlorobenzene	13.591	180	48343	17.496	ug/l	99
90) Hexachlorobutadiene	13.725	225	18779	17.920	ug/l	100
91) Naphthalene	13.780	128	200083	18.167	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	50513	17.947	ug/l	99

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

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