

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011422\
 Data File : VX026444.D
 Acq On : 14 Jan 2022 10:15
 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

Reviewed By : John Carlone 01/17/2022
 Supervised By : Mahesh Dadoda 01/18/2022

Quant Time: Jan 17 05:54:03 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011022W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jan 10 12:50:55 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.903	128	19539	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	108964	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	93824	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	47334	30.127	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	= 100.433%		
60) 4-Bromofluorobenzene	11.079	95	48545	31.003	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	= 103.333%		
63) Toluene-d8	8.647	98	130400	30.254	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	= 100.833%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	25489	21.659	ug/l	96
3) Chloromethane	1.294	50	22370	21.757	ug/l	99
4) Vinyl Chloride	1.380	62	23747	20.893	ug/l	96
5) Bromomethane	1.617	94	11048	21.589	ug/l	95
6) Chloroethane	1.691	64	13653	21.168	ug/l	99
7) Trichlorofluoromethane	1.892	101	36863	20.464	ug/l	99
8) Diethyl Ether	2.136	74	13126	20.422	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.331	101	23873	21.233	ug/l	99
10) 1,1-Dichloroethene	2.325	96	21731	20.690	ug/l	98
11) Methyl Iodide	2.453	142	24415	21.404	ug/l	99
12) Methyl Acetate	2.709	43	45677	20.759	ug/l	97
13) Acrolein	2.239	56	20240	88.758	ug/l	97
14) Acrylonitrile	3.068	53	65029	105.954	ug/l	100
15) Acetone	2.386	58	28203	146.289	ug/l	99
16) Carbon Disulfide	2.514	76	60303	20.331	ug/l	99
17) Allyl chloride	2.666	41	41742	20.651	ug/l	99
18) Methylene Chloride	2.794	84	23788	20.563	ug/l	97
19) trans-1,2-Dichloroethene	3.093	96	24122	21.366	ug/l	97
20) Diisopropyl ether	3.757	45	81007	20.620	ug/l #	87
21) 1,1-Dichloroethane	3.611	63	44363	20.511	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	27060	20.486	ug/l	98
23) tert-Butyl Alcohol	2.977	59	22652	101.753	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	78482	20.093	ug/l	98
25) Chloroform	5.098	83	46350	20.681	ug/l	99
26) Cyclohexane	5.476	56	41121	20.785	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	34445	20.467	ug/l	100
30) 2-Butanone	4.556	43	115672	118.352	ug/l	99
31) 2,2-Dichloropropane	4.477	77	33490	19.212	ug/l	100
32) 1,1,1-Trichloroethane	5.385	97	41145	20.082	ug/l	99
33) Carbon Tetrachloride	5.678	117	36788	20.268	ug/l	98
34) Benzene	6.043	78	95912	20.554	ug/l	99
35) Methacrylonitrile	4.922	41	21209	20.711	ug/l	95
36) 1,2-Dichloroethane	6.086	62	38708	20.538	ug/l	100
37) Trichloroethene	7.129	130	27291	20.250	ug/l	99
38) Methylcyclohexane	7.379	83	41304	20.480	ug/l	99
39) 1,2-Dichloropropane	7.427	63	24544	20.569	ug/l	99
40) Dibromomethane	7.580	93	17370	20.722	ug/l	99
41) Bromodichloromethane	7.824	83	35400	20.462	ug/l	94
42) Vinyl Acetate	3.721	43	304448	100.542	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	35995	20.256	ug/l	98
44) Isopropyl Acetate	6.336	43	58057	19.794	ug/l	99
45) 1,4-Dioxane	7.683	88	11123	489.294	ug/l	98
46) Methyl methacrylate	7.689	41	28824	20.035	ug/l	98
47) n-amyl Acetate	10.841	43	44461	20.261	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	33930	19.642	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	38066	19.928	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	24356	21.132	ug/l	98
51) Ethyl methacrylate	9.116	69	36688	19.964	ug/l	98
52) 1,3-Dichloropropane	9.311	76	41929	20.992	ug/l	99
53) Dibromochloromethane	9.518	129	26152	20.877	ug/l	97
54) 1,2-Dibromoethane	9.610	107	24793	20.283	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	99854	101.578	ug/l	99
56) Bromoform	10.799	173	17694	21.277	ug/l	99
58) 4-Methyl-2-Pentanone	8.573	43	187737	107.274	ug/l	99
59) 2-Hexanone	9.433	43	156705	115.642	ug/l	100
61) Tetrachloroethene	9.275	164	27924	20.193	ug/l	94
62) Toluene	8.720	91	102335	20.430	ug/l	99
64) Chlorobenzene	10.079	112	63475	20.873	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.165	131	23934	20.669	ug/l	99
66) Ethyl Benzene	10.195	91	116031	20.703	ug/l	100
67) m/p-Xylenes	10.299	106	88403	42.455	ug/l	99
68) o-Xylene	10.640	106	43048	21.316	ug/l	99
69) Styrene	10.658	104	71111	21.184	ug/l	99
70) Isopropylbenzene	10.963	105	115336	21.286	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	32532	22.032	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	33529m	22.390	ug/l	
73) Bromobenzene	11.201	156	26403	21.288	ug/l	99
74) n-propylbenzene	11.305	91	133220	21.286	ug/l	99
75) 2-Chlorotoluene	11.366	91	80658	21.453	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	97142	21.463	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	9032	20.054	ug/l	97
78) 4-Chlorotoluene	11.457	91	92345	21.544	ug/l	98
79) tert-butylbenzene	11.713	119	90060	21.497	ug/l	99
80) 1,2,4-Trimethylbenzene	11.756	105	95320	21.322	ug/l	100
81) sec-Butylbenzene	11.890	105	119225	21.726	ug/l	100
82) p-Isopropyltoluene	12.012	119	100838	21.752	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	51328	22.236	ug/l	97
84) 1,4-Dichlorobenzene	12.042	146	50496	21.832	ug/l	100
85) n-Butylbenzene	12.335	91	87055	21.697	ug/l	100
86) Hexachloroethane	12.542	117	14713	21.022	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	48849	22.024	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	8088	21.468	ug/l	97
89) 1,2,4-Trichlorobenzene	13.591	180	31066	21.396	ug/l	99
90) Hexachlorobutadiene	13.725	225	13635	21.516	ug/l	97
91) Naphthalene	13.780	128	105557	21.030	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	30861	21.369	ug/l	99

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

