

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042922\
 Data File : VX028412.D
 Acq On : 29 Apr 2022 10:08
 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 05/02/2022
 Supervised By : Mahesh Dadoda 05/02/2022

Quant Time: Apr 30 08:16:10 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X042822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 29 06:09:36 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.898	128	69130	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	388889	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	359543	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	139782	31.795	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 105.967%			
60) 4-Bromofluorobenzene	11.079	95	167886	30.026	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.100%			
63) Toluene-d8	8.647	98	456775	29.989	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.967%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	43441	17.760	ug/l	97
3) Chloromethane	1.295	50	36370	18.862	ug/l	96
4) Vinyl Chloride	1.374	62	46891	19.130	ug/l	99
5) Bromomethane	1.605	94	38310	18.970	ug/l	97
6) Chloroethane	1.685	64	34662	18.362	ug/l	97
7) Trichlorofluoromethane	1.886	101	101109	18.865	ug/l	95
8) Diethyl Ether	2.130	74	39223	18.555	ug/l	86
9) 1,1,2-Trichlorotrifluo...	2.331	101	58190	18.462	ug/l	96
10) 1,1-Dichloroethene	2.319	96	46783	17.951	ug/l	99
11) Methyl Iodide	2.453	142	52189	14.910	ug/l	98
12) Methyl Acetate	2.697	43	73517	17.670	ug/l	99
13) Acrolein	2.233	56	80169	94.960	ug/l	99
14) Acrylonitrile	3.056	53	165761	87.511	ug/l	99
15) Acetone	2.374	58	52338	97.562	ug/l	96
16) Carbon Disulfide	2.514	76	58846	19.105	ug/l	100
17) Allyl chloride	2.666	41	71931	18.368	ug/l	80
18) Methylene Chloride	2.788	84	58922	17.596	ug/l	94
19) trans-1,2-Dichloroethene	3.093	96	52744	18.319	ug/l	90
20) Diisopropyl ether	3.757	45	179545	18.446	ug/l	92
21) 1,1-Dichloroethane	3.611	63	106699	18.547	ug/l	97
22) cis-1,2-Dichloroethene	4.489	96	73552	18.147	ug/l	97
23) tert-Butyl Alcohol	2.953	59	83245	81.374	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	207347	18.094	ug/l	97
25) Chloroform	5.093	83	124779	18.458	ug/l	98
26) Cyclohexane	5.471	56	69731	19.171	ug/l #	94
29) 1,1-Dichloropropene	5.690	75	77214	18.667	ug/l	99
30) 2-Butanone	4.550	43	236821	90.841	ug/l	93
31) 2,2-Dichloropropane	4.477	77	92584	18.225	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	105150	18.080	ug/l	99
33) Carbon Tetrachloride	5.678	117	91252	18.438	ug/l	98
34) Benzene	6.038	78	243449	18.479	ug/l	97
35) Methacrylonitrile	4.910	41	45267	17.240	ug/l	89
36) 1,2-Dichloroethane	6.080	62	90980	18.530	ug/l	97
37) Trichloroethene	7.123	130	73256	18.153	ug/l	98
38) Methylcyclohexane	7.379	83	79266	18.712	ug/l	95
39) 1,2-Dichloropropane	7.434	63	62715	18.109	ug/l	95
40) Dibromomethane	7.580	93	48058	18.092	ug/l	98
41) Bromodichloromethane	7.824	83	92642	18.379	ug/l	99
42) Vinyl Acetate	3.721	43	751005	92.953	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.709	43	87520	17.940	ug/l	99
44) Isopropyl Acetate	6.336	43	140397	17.849	ug/l	100
45) 1,4-Dioxane	7.653	88	36087	352.316	ug/l #	86
46) Methyl methacrylate	7.690	41	65100	18.109	ug/l	88
47) n-amyl Acetate	10.842	43	118780	17.442	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	93729	17.704	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	102448	18.009	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	74154	17.753	ug/l	96
51) Ethyl methacrylate	9.116	69	104228	17.438	ug/l	94
52) 1,3-Dichloropropane	9.311	76	117481	17.977	ug/l	98
53) Dibromochloromethane	9.519	129	77191	18.063	ug/l	99
54) 1,2-Dibromoethane	9.610	107	78033	17.958	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	288680	91.991	ug/l	99
56) Bromoform	10.799	173	56211	17.064	ug/l	97
58) 4-Methyl-2-Pentanone	8.574	43	462834	88.490	ug/l	93
59) 2-Hexanone	9.427	43	358083	88.459	ug/l	94
61) Tetrachloroethene	9.275	164	70900	17.876	ug/l	96
62) Toluene	8.720	91	286989	18.404	ug/l	98
64) Chlorobenzene	10.079	112	198322	18.027	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	76968	17.913	ug/l	96
66) Ethyl Benzene	10.195	91	336700	18.314	ug/l	99
67) m/p-Xylenes	10.299	106	265976	36.090	ug/l	98
68) o-Xylene	10.640	106	133212	17.786	ug/l	98
69) Styrene	10.659	104	221163	17.680	ug/l	97
70) Isopropylbenzene	10.963	105	356785	18.310	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	117882	17.818	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	107017m	18.179	ug/l	
73) Bromobenzene	11.201	156	91216	17.361	ug/l	93
74) n-propylbenzene	11.305	91	397747	18.307	ug/l	99
75) 2-Chlorotoluene	11.366	91	244118	18.137	ug/l	96
76) 1,3,5-Trimethylbenzene	11.451	105	298640	18.277	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	28814	16.165	ug/l	81
78) 4-Chlorotoluene	11.457	91	276161	18.140	ug/l	95
79) tert-butylbenzene	11.713	119	297745	17.962	ug/l	96
80) 1,2,4-Trimethylbenzene	11.750	105	299820	18.280	ug/l	96
81) sec-Butylbenzene	11.890	105	359175	18.279	ug/l	97
82) p-Isopropyltoluene	12.012	119	313572	18.385	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	178437	18.107	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	179054	17.871	ug/l	98
85) n-Butylbenzene	12.335	91	248574	18.059	ug/l	100
86) Hexachloroethane	12.542	117	48000	17.885	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	179121	18.048	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	23808	16.847	ug/l	95
89) 1,2,4-Trichlorobenzene	13.591	180	107969	17.417	ug/l	97
90) Hexachlorobutadiene	13.725	225	46527	17.703	ug/l	99
91) Naphthalene	13.780	128	364576	16.829	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	105576	16.990	ug/l	99

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

