

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042822\
 Data File : VX028410.D
 Acq On : 28 Apr 2022 19:53
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX042822

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/29/2022
 Supervised By : Mahesh Dadoda 04/29/2022

Quant Time: Apr 29 06:24:24 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	4.904	128	67910	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	378711	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	345775	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	134840	31.222	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.067%			
60) 4-Bromofluorobenzene	11.085	95	160230	29.797	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.333%			
63) Toluene-d8	8.653	98	445882	30.440	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.467%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	47505	19.770	ug/l	97
3) Chloromethane	1.288	50	38912	20.543	ug/l	100
4) Vinyl Chloride	1.374	62	49078	20.382	ug/l	98
5) Bromomethane	1.605	94	42226	21.285	ug/l	99
6) Chloroethane	1.685	64	36633	19.755	ug/l	99
7) Trichlorofluoromethane	1.886	101	105150	19.971	ug/l	97
8) Diethyl Ether	2.136	74	41588	20.027	ug/l	84
9) 1,1,2-Trichlorotrifluo...	2.331	101	59002	19.055	ug/l	97
10) 1,1-Dichloroethene	2.319	96	48947	19.118	ug/l	95
11) Methyl Iodide	2.453	142	57219	16.640	ug/l	99
12) Methyl Acetate	2.703	43	83345	20.392	ug/l	99
13) Acrolein	2.233	56	85997	103.693	ug/l	98
14) Acrylonitrile	3.062	53	189417	101.797	ug/l	99
15) Acetone	2.380	58	53872	102.226	ug/l	98
16) Carbon Disulfide	2.514	76	60526	20.003	ug/l	99
17) Allyl chloride	2.666	41	73759	19.173	ug/l	88
18) Methylene Chloride	2.788	84	63775	19.388	ug/l	92
19) trans-1,2-Dichloroethene	3.093	96	55720	19.701	ug/l	91
20) Diisopropyl ether	3.764	45	185960	19.448	ug/l	88
21) 1,1-Dichloroethane	3.611	63	111439	19.718	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	76714	19.267	ug/l	96
23) tert-Butyl Alcohol	2.959	59	103237	102.729	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	218644	19.422	ug/l	96
25) Chloroform	5.099	83	130447	19.643	ug/l	96
26) Cyclohexane	5.477	56	70616	19.764	ug/l #	92
29) 1,1-Dichloropropene	5.696	75	79037	19.622	ug/l	98
30) 2-Butanone	4.556	43	262254	103.301	ug/l	93
31) 2,2-Dichloropropane	4.477	77	91029	18.400	ug/l	96
32) 1,1,1-Trichloroethane	5.385	97	111202	19.634	ug/l	98
33) Carbon Tetrachloride	5.684	117	91333	18.950	ug/l	97
34) Benzene	6.044	78	250586	19.532	ug/l	97
35) Methacrylonitrile	4.922	41	50080	19.586	ug/l	87
36) 1,2-Dichloroethane	6.092	62	94425	19.749	ug/l	97
37) Trichloroethene	7.129	130	75624	19.244	ug/l	92
38) Methylcyclohexane	7.385	83	79719	19.325	ug/l	94
39) 1,2-Dichloropropane	7.434	63	65767	19.501	ug/l	99
40) Dibromomethane	7.580	93	50411	19.488	ug/l	99
41) Bromodichloromethane	7.824	83	93974	19.144	ug/l	100
42) Vinyl Acetate	3.721	43	791471	100.594	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	97641	20.552	ug/l	100
44) Isopropyl Acetate	6.342	43	150036	19.587	ug/l	99
45) 1,4-Dioxane	7.659	88	42383	424.904	ug/l	90
46) Methyl methacrylate	7.696	41	68445	19.552	ug/l	81
47) n-amyl Acetate	10.848	43	127105	19.166	ug/l	100
48) t-1,3-Dichloropropene	8.982	75	95872	18.595	ug/l	95
49) cis-1,3-Dichloropropene	8.366	75	103772	18.732	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	81799	20.109	ug/l	98
51) Ethyl methacrylate	9.116	69	111622	19.177	ug/l	94
52) 1,3-Dichloropropane	9.311	76	125182	19.671	ug/l	100
53) Dibromochloromethane	9.525	129	77084	18.523	ug/l	100
54) 1,2-Dibromoethane	9.610	107	82090	19.399	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	302906	99.118	ug/l	98
56) Bromoform	10.799	173	55682	17.357	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	516686	102.720	ug/l	94
59) 2-Hexanone	9.433	43	403314	103.600	ug/l	95
61) Tetrachloroethene	9.275	164	72937	19.122	ug/l	95
62) Toluene	8.720	91	295592	19.711	ug/l	98
64) Chlorobenzene	10.079	112	207918	19.652	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	79271	19.184	ug/l	97
66) Ethyl Benzene	10.195	91	345910	19.564	ug/l	99
67) m/p-Xylenes	10.305	106	278053	39.231	ug/l	97
68) o-Xylene	10.640	106	140825	19.551	ug/l	96
69) Styrene	10.659	104	231837	19.271	ug/l	97
70) Isopropylbenzene	10.963	105	365577	19.508	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	127214	19.994	ug/l	98
72) 1,2,3-Trichloropropane	11.244	75	112605m	19.889	ug/l	
73) Bromobenzene	11.201	156	95946	18.988	ug/l	94
74) n-propylbenzene	11.305	91	410105	19.627	ug/l	99
75) 2-Chlorotoluene	11.366	91	252835	19.533	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	306238	19.489	ug/l	97
77) t-1,4-Dichloro-2-butene	11.024	75	29563	17.245	ug/l	88
78) 4-Chlorotoluene	11.457	91	285079	19.472	ug/l	96
79) tert-butylbenzene	11.719	119	311039	19.511	ug/l	95
80) 1,2,4-Trimethylbenzene	11.756	105	309667	19.632	ug/l	96
81) sec-Butylbenzene	11.890	105	366567	19.398	ug/l	98
82) p-Isopropyltoluene	12.012	119	314362	19.166	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	183407	19.352	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	184256	19.122	ug/l	100
85) n-Butylbenzene	12.335	91	246335	18.609	ug/l	99
86) Hexachloroethane	12.542	117	46620	18.062	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	184946	19.377	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	26258	19.321	ug/l	98
89) 1,2,4-Trichlorobenzene	13.591	180	109486	18.365	ug/l	99
90) Hexachlorobutadiene	13.725	225	46651	18.457	ug/l	98
91) Naphthalene	13.780	128	399843	19.192	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	110748	18.531	ug/l	98

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

