

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX111122\
 Data File : VX032780.D
 Acq On : 11 Nov 2022 17:34
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/14/2022
 Supervised By : Mahesh Dadoda 11/14/2022

Quant Time: Nov 14 05:14:50 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X111022W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 11 05:24:06 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.898	128	11179	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	77360	30.000	ug/l	# 0.00
57) Chlorobenzene-d5	10.055	117	84454	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	31831	29.515	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	98.367%	
60) 4-Bromofluorobenzene	11.079	95	47901	29.651	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	98.833%	
63) Toluene-d8	8.647	98	87048	30.542	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	101.800%	
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	21100	21.327	ug/l	100
3) Chloromethane	1.294	50	20256	20.632	ug/l	97
4) Vinyl Chloride	1.374	62	23267	20.959	ug/l	96
5) Bromomethane	1.611	94	15590	15.818	ug/l	97
6) Chloroethane	1.685	64	15062	17.177	ug/l	89
7) Trichlorofluoromethane	1.886	101	44505	20.797	ug/l	99
8) Diethyl Ether	2.130	74	14245	20.588	ug/l	71
9) 1,1,2-Trichlorotrifluo...	2.331	101	24291	21.339	ug/l	96
10) 1,1-Dichloroethene	2.319	96	22015	20.244	ug/l	88
11) Methyl Iodide	2.453	142	16311	13.951	ug/l	99
12) Methyl Acetate	2.703	43	31951	19.834	ug/l	92
13) Acrolein	2.233	56	19771	92.035	ug/l	99
14) Acrylonitrile	3.062	53	57266	99.163	ug/l	99
15) Acetone	2.380	58	14907	99.269	ug/l	90
16) Carbon Disulfide	2.514	76	53443	19.741	ug/l	99
17) Allyl chloride	2.666	41	34554	19.997	ug/l	87
18) Methylene Chloride	2.788	84	25567	20.386	ug/l	90
19) trans-1,2-Dichloroethene	3.093	96	23870	19.926	ug/l	89
20) Diisopropyl ether	3.757	45	76168	19.658	ug/l	89
21) 1,1-Dichloroethane	3.605	63	43961	20.211	ug/l	95
22) cis-1,2-Dichloroethene	4.489	96	27758	19.845	ug/l	87
23) tert-Butyl Alcohol	2.965	59	19543	104.224	ug/l	# 100
24) Methyl tert-Butyl Ether	3.111	73	77710	19.956	ug/l	# 90
25) Chloroform	5.093	83	47926	19.755	ug/l	99
26) Cyclohexane	5.471	56	38591	20.316	ug/l	# 84
29) 1,1-Dichloropropene	5.690	75	34839	20.306	ug/l	96
30) 2-Butanone	4.556	43	77978	97.473	ug/l	91
31) 2,2-Dichloropropane	4.471	77	34417	23.455	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	43306	20.066	ug/l	95
33) Carbon Tetrachloride	5.678	117	37939	20.021	ug/l	97
34) Benzene	6.031	78	97833	20.238	ug/l	95
35) Methacrylonitrile	4.922	41	17583	19.406	ug/l	91
36) 1,2-Dichloroethane	6.086	62	39792	19.995	ug/l	# 93
37) Trichloroethene	7.129	130	28017	20.716	ug/l	94
38) Methylcyclohexane	7.379	83	40716	21.181	ug/l	89
39) 1,2-Dichloropropane	7.428	63	24987	20.420	ug/l	98
40) Dibromomethane	7.580	93	18916	20.247	ug/l	97
41) Bromodichloromethane	7.818	83	35647	20.018	ug/l	96
42) Vinyl Acetate	3.721	43	308954	100.506	ug/l	# 91

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	4.715	43	32116	19.957	ug/l	#	88
44) Isopropyl Acetate	6.336	43	53883	19.980	ug/l		94
45) 1,4-Dioxane	7.671	88	8910	343.961	ug/l	#	80
46) Methyl methacrylate	7.696	41	27255	20.075	ug/l		87
47) n-amyl Acetate	10.842	43	47767	19.924	ug/l		98
48) t-1,3-Dichloropropene	8.976	75	36187	19.808	ug/l		98
49) cis-1,3-Dichloropropene	8.366	75	39219	20.331	ug/l	#	86
50) 1,1,2-Trichloroethane	9.153	97	26254	20.438	ug/l		96
51) Ethyl methacrylate	9.116	69	38352	19.991	ug/l		84
52) 1,3-Dichloropropane	9.311	76	42895	20.425	ug/l		99
53) Dibromochloromethane	9.519	129	27551	19.722	ug/l		98
54) 1,2-Dibromoethane	9.610	107	27578	19.931	ug/l		100
55) 2-Chloroethyl vinyl ether	8.238	63	96702	104.307	ug/l	#	92
56) Bromoform	10.799	173	18614	18.611	ug/l		100
58) 4-Methyl-2-Pentanone	8.574	43	168563	101.959	ug/l	#	90
59) 2-Hexanone	9.433	43	123618	101.556	ug/l		91
61) Tetrachloroethene	9.275	164	24106	20.424	ug/l		95
62) Toluene	8.720	91	111907	20.375	ug/l		97
64) Chlorobenzene	10.079	112	70012	20.619	ug/l		98
65) 1,1,1,2-Tetrachloroethane	10.165	131	25949	20.061	ug/l		99
66) Ethyl Benzene	10.195	91	126022	20.453	ug/l		97
67) m/p-Xylenes	10.299	106	98201	40.961	ug/l		89
68) o-Xylene	10.640	106	46984	19.973	ug/l		89
69) Styrene	10.659	104	79278	20.271	ug/l		95
70) Isopropylbenzene	10.963	105	129425	20.603	ug/l		96
71) 1,1,2,2-Tetrachloroethane	11.213	83	38745	20.338	ug/l		98
72) 1,2,3-Trichloropropane	11.238	75	34520m	20.864	ug/l		
73) Bromobenzene	11.201	156	31008	20.319	ug/l		89
74) n-propylbenzene	11.305	91	149735	20.979	ug/l		96
75) 2-Chlorotoluene	11.366	91	89715	20.761	ug/l		93
76) 1,3,5-Trimethylbenzene	11.451	105	110443	20.797	ug/l		96
77) t-1,4-Dichloro-2-butene	11.018	75	9243	18.307	ug/l		83
78) 4-Chlorotoluene	11.457	91	104774	21.048	ug/l		92
79) tert-butylbenzene	11.713	119	105312	20.406	ug/l		94
80) 1,2,4-Trimethylbenzene	11.756	105	109509	21.091	ug/l		93
81) sec-Butylbenzene	11.890	105	130628	21.025	ug/l		95
82) p-Isopropyltoluene	12.012	119	110668	21.135	ug/l		96
83) 1,3-Dichlorobenzene	11.969	146	59611	21.291	ug/l		98
84) 1,4-Dichlorobenzene	12.043	146	59789	21.265	ug/l		99
85) n-Butylbenzene	12.335	91	96018	21.636	ug/l		94
86) Hexachloroethane	12.542	117	15960	18.567	ug/l		99
87) 1,2-Dichlorobenzene	12.335	146	58075	20.866	ug/l		97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	8038	19.888	ug/l	#	79
89) 1,2,4-Trichlorobenzene	13.591	180	36155	21.151	ug/l		98
90) Hexachlorobutadiene	13.725	225	15064	21.896	ug/l		100
91) Naphthalene	13.774	128	120090	20.815	ug/l		99
92) 1,2,3-Trichlorobenzene	13.963	180	36612	21.296	ug/l		96

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

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