

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011223\
 Data File : VX033701.D
 Acq On : 12 Jan 2023 10:18
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/13/2023
 Supervised By : Mahesh Dadoda 01/13/2023

Quant Time: Jan 12 23:54:30 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X010723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jan 07 06:16:21 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	15028	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	106168	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	115965	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	36362	29.883	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.600%		
60) 4-Bromofluorobenzene	11.079	95	61930	29.631	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.767%		
63) Toluene-d8	8.647	98	111996	30.177	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.600%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	35039	22.294	ug/l	98
3) Chloromethane	1.294	50	36128	21.445	ug/l	98
4) Vinyl Chloride	1.374	62	33208	21.822	ug/l	98
5) Bromomethane	1.618	94	20143	23.898	ug/l	99
6) Chloroethane	1.691	64	20443	22.938	ug/l	98
7) Trichlorofluoromethane	1.892	101	54385	23.159	ug/l	96
8) Diethyl Ether	2.130	74	16354	21.389	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.331	101	34429	28.274	ug/l	96
10) 1,1-Dichloroethene	2.319	96	32669	28.456	ug/l	99
11) Methyl Iodide	2.453	142	46257	23.439	ug/l	93
12) Methyl Acetate	2.709	43	52581	21.877	ug/l	94
13) Acrolein	2.239	56	31681	122.251	ug/l	99
14) Acrylonitrile	3.069	53	86334	108.926	ug/l	99
15) Acetone	2.404	58	32431	180.805	ug/l	75
16) Carbon Disulfide	2.514	76	83352	24.951	ug/l	98
17) Allyl chloride	2.666	41	58915	24.123	ug/l	89
18) Methylene Chloride	2.788	84	35537	22.104	ug/l	94
19) trans-1,2-Dichloroethene	3.093	96	35555	23.052	ug/l	89
20) Diisopropyl ether	3.757	45	115641	21.938	ug/l	99
21) 1,1-Dichloroethane	3.605	63	62321	21.559	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	40734	22.208	ug/l	97
23) tert-Butyl Alcohol	3.014	59	33757m	107.827	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	105838	21.589	ug/l	97
25) Chloroform	5.086	83	63418	21.614	ug/l	95
26) Cyclohexane	5.471	56	59153	22.047	ug/l #	97
29) 1,1-Dichloropropene	5.690	75	48061	20.943	ug/l	97
30) 2-Butanone	4.562	43	133899	111.728	ug/l #	96
31) 2,2-Dichloropropane	4.477	77	45623	23.090	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	55340	20.655	ug/l	99
33) Carbon Tetrachloride	5.672	117	49788	20.588	ug/l	97
34) Benzene	6.038	78	142448	21.366	ug/l	98
35) Methacrylonitrile	4.916	41	27025	19.790	ug/l	96
36) 1,2-Dichloroethane	6.086	62	48948	20.197	ug/l	98
37) Trichloroethene	7.123	130	40880	21.262	ug/l	97
38) Methylcyclohexane	7.379	83	62026	21.736	ug/l	99
39) 1,2-Dichloropropane	7.428	63	35169	20.641	ug/l	91
40) Dibromomethane	7.580	93	24757	20.676	ug/l	97
41) Bromodichloromethane	7.818	83	46962	20.220	ug/l	99
42) Vinyl Acetate	3.721	43	439899	102.715	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	49661	20.223	ug/l	98
44) Isopropyl Acetate	6.336	43	74295	19.284	ug/l	99
45) 1,4-Dioxane	7.726	88	17291	411.383	ug/l #	1
46) Methyl methacrylate	7.690	41	39030	20.009	ug/l	99
47) n-amyl Acetate	10.842	43	63540	19.371	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	48441	20.412	ug/l	95
49) cis-1,3-Dichloropropene	8.366	75	55120	20.913	ug/l	98
50) 1,1,2-Trichloroethane	9.147	97	35431	20.385	ug/l	95
51) Ethyl methacrylate	9.116	69	52503	20.257	ug/l	99
52) 1,3-Dichloropropane	9.305	76	60884	20.914	ug/l	99
53) Dibromochloromethane	9.519	129	39428	20.812	ug/l	97
54) 1,2-Dibromoethane	9.610	107	37694	20.292	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	114523	91.399	ug/l	99
56) Bromoform	10.799	173	30102	20.695	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	239885	104.136	ug/l	99
59) 2-Hexanone	9.427	43	181832	107.254	ug/l	99
61) Tetrachloroethene	9.275	164	36769	21.976	ug/l	97
62) Toluene	8.714	91	156533	21.443	ug/l	98
64) Chlorobenzene	10.079	112	102392	21.778	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	37371	21.119	ug/l	97
66) Ethyl Benzene	10.195	91	175508	21.559	ug/l	99
67) m/p-Xylenes	10.299	106	139661	43.467	ug/l	100
68) o-Xylene	10.640	106	67458	21.361	ug/l	100
69) Styrene	10.653	104	113533	21.721	ug/l	98
70) Isopropylbenzene	10.963	105	179922	21.999	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	52069	21.144	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	40975m	18.367	ug/l	
73) Bromobenzene	11.195	156	47335	21.869	ug/l	97
74) n-propylbenzene	11.305	91	204265	21.998	ug/l	100
75) 2-Chlorotoluene	11.366	91	119498	21.516	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	149846	22.068	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	13693	20.516	ug/l	94
78) 4-Chlorotoluene	11.451	91	136336	21.890	ug/l	100
79) tert-butylbenzene	11.713	119	153528	22.046	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	147346	21.965	ug/l	97
81) sec-Butylbenzene	11.890	105	186277	22.106	ug/l	99
82) p-Isopropyltoluene	12.006	119	162297	22.331	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	86722	21.948	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	87335	22.169	ug/l	98
85) n-Butylbenzene	12.329	91	131812	22.308	ug/l	99
86) Hexachloroethane	12.536	117	25339	21.431	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	82965	21.797	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.945	75	10133	19.819	ug/l	96
89) 1,2,4-Trichlorobenzene	13.585	180	58341	22.286	ug/l	99
90) Hexachlorobutadiene	13.725	225	28716	22.878	ug/l	99
91) Naphthalene	13.774	128	168759	21.954	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	58426	22.244	ug/l	99

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

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