

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100523\
 Data File : VX038108.D
 Acq On : 05 Oct 2023 18:50
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/06/2023
 Supervised By : Mahesh Dadoda 10/06/2023

Quant Time: Oct 06 06:33:22 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X092723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Sep 28 06:08:32 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	23602	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	135402	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	134334	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	60271	35.426	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 118.100%#			
60) 4-Bromofluorobenzene	11.079	95	66988	30.590	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.967%			
63) Toluene-d8	8.647	98	177047	30.531	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.767%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	24853	20.087	ug/l	99
3) Chloromethane	1.307	50	24829	18.738	ug/l	95
4) Vinyl Chloride	1.374	62	30496	20.559	ug/l	96
5) Bromomethane	1.605	94	30494	26.686	ug/l	100
6) Chloroethane	1.685	64	22872	22.968	ug/l #	89
7) Trichlorofluoromethane	1.886	101	59978	24.496	ug/l	99
8) Diethyl Ether	2.136	74	22379	24.774	ug/l	86
9) 1,1,2-Trichlorotrifluo...	2.325	101	23147	18.542	ug/l	96
10) 1,1-Dichloroethene	2.319	96	21979	17.986	ug/l	93
11) Methyl Iodide	2.453	142	32852	19.864	ug/l	97
12) Methyl Acetate	2.703	43	68412	27.543	ug/l	99
13) Acrolein	2.233	56	48994	170.936	ug/l	95
14) Acrylonitrile	3.062	53	94859	138.324	ug/l	97
15) Acetone	2.380	58	27058	136.406	ug/l	97
16) Carbon Disulfide	2.514	76	55130	18.488	ug/l	99
17) Allyl chloride	2.666	41	38718	20.696	ug/l	93
18) Methylene Chloride	2.788	84	29859	20.387	ug/l	96
19) trans-1,2-Dichloroethene	3.093	96	28259	20.518	ug/l	97
20) Diisopropyl ether	3.764	45	86835	21.741	ug/l #	88
21) 1,1-Dichloroethane	3.611	63	51754	21.447	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	33725	20.623	ug/l	99
23) tert-Butyl Alcohol	2.959	59	46001	160.768	ug/l #	1
24) Methyl tert-Butyl Ether	3.111	73	91325	21.592	ug/l	97
25) Chloroform	5.099	83	58878	22.186	ug/l	100
26) Cyclohexane	5.477	56	42193	20.546	ug/l #	95
29) 1,1-Dichloropropene	5.690	75	41376	21.139	ug/l	99
30) 2-Butanone	4.556	43	139317	148.315	ug/l	98
31) 2,2-Dichloropropane	4.477	77	36500	18.511	ug/l	100
32) 1,1,1-Trichloroethane	5.385	97	47828	20.393	ug/l	98
33) Carbon Tetrachloride	5.678	117	40308	20.077	ug/l	99
34) Benzene	6.038	78	120570	20.621	ug/l	99
35) Methacrylonitrile	4.922	41	25162	25.479	ug/l	95
36) 1,2-Dichloroethane	6.086	62	47925	23.171	ug/l	98
37) Trichloroethene	7.129	130	32026	19.855	ug/l	94
38) Methylcyclohexane	7.379	83	48670	19.783	ug/l	97
39) 1,2-Dichloropropane	7.434	63	31281	20.912	ug/l	93
40) Dibromomethane	7.580	93	25029	22.676	ug/l	93
41) Bromodichloromethane	7.824	83	43317	21.495	ug/l	97
42) Vinyl Acetate	3.727	43	335157	113.186	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	50172	27.018	ug/l	98
44) Isopropyl Acetate	6.342	43	75870	24.696	ug/l	99
45) 1,4-Dioxane	7.659	88	18544	523.825	ug/l #	1
46) Methyl methacrylate	7.696	41	36392	24.920	ug/l	97
47) n-amyl Acetate	10.842	43	66524	23.016	ug/l	96
48) t-1,3-Dichloropropene	8.982	75	43240	19.752	ug/l	94
49) cis-1,3-Dichloropropene	8.366	75	47509	20.208	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	34313	21.754	ug/l	97
51) Ethyl methacrylate	9.116	69	51607	22.205	ug/l	97
52) 1,3-Dichloropropane	9.311	76	55871	22.081	ug/l	98
53) Dibromochloromethane	9.519	129	32723	20.129	ug/l	99
54) 1,2-Dibromoethane	9.610	107	37099	21.674	ug/l	98
55) 2-Chloroethyl vinyl ether	8.244	63	130771	115.424	ug/l	99
56) Bromoform	10.799	173	22760	18.615	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	275850	140.276	ug/l	99
59) 2-Hexanone	9.433	43	221543	148.348	ug/l	100
61) Tetrachloroethene	9.275	164	27153	18.994	ug/l	94
62) Toluene	8.720	91	140668	20.187	ug/l	99
64) Chlorobenzene	10.080	112	87141	20.047	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	30306	19.207	ug/l	97
66) Ethyl Benzene	10.195	91	159835	20.783	ug/l	98
67) m/p-Xylenes	10.299	106	122115	40.307	ug/l	97
68) o-Xylene	10.640	106	59241	20.192	ug/l	95
69) Styrene	10.659	104	99313	20.178	ug/l	98
70) Isopropylbenzene	10.964	105	155663	19.993	ug/l	96
71) 1,1,2,2-Tetrachloroethane	11.213	83	59592	23.223	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	53095m	23.565	ug/l	
73) Bromobenzene	11.201	156	38331	19.409	ug/l	98
74) n-propylbenzene	11.305	91	194945	20.958	ug/l	97
75) 2-Chlorotoluene	11.366	91	114259	20.982	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	135034	20.111	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	13823	19.371	ug/l	95
78) 4-Chlorotoluene	11.457	91	133045	20.826	ug/l	100
79) tert-butylbenzene	11.713	119	131904	19.960	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	136099	20.390	ug/l	99
81) sec-Butylbenzene	11.890	105	175849	20.692	ug/l	96
82) p-Isopropyltoluene	12.012	119	141291	19.803	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	75225	19.714	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	76490	19.782	ug/l	100
85) n-Butylbenzene	12.335	91	136400	20.433	ug/l	98
86) Hexachloroethane	12.536	117	21302	18.325	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	73255	19.485	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	13777	26.955	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	47588	18.604	ug/l	97
90) Hexachlorobutadiene	13.725	225	19539	17.388	ug/l	96
91) Naphthalene	13.774	128	170687	22.002	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	47530	19.086	ug/l	100

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

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