

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010924\
 Data File : VX039673.D
 Acq On : 09 Jan 2024 10:58
 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 01/10/2024
 Supervised By : Mahesh Dadoda 01/10/2024

Quant Time: Jan 10 05:31:16 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X010824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Jan 09 06:15:26 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.891	128	8185	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	70305	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	82657	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	40064	31.223	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.067%			
60) 4-Bromofluorobenzene	11.079	95	54050	29.647	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.833%			
63) Toluene-d8	8.647	98	104227	30.670	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.233%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	27979	20.233	ug/l	94
3) Chloromethane	1.295	50	30637	19.942	ug/l	98
4) Vinyl Chloride	1.374	62	29903	19.943	ug/l	99
5) Bromomethane	1.599	94	14027	19.577	ug/l	99
6) Chloroethane	1.666	64	11045	16.183	ug/l	98
7) Trichlorofluoromethane	1.874	101	41850	19.766	ug/l	100
8) Diethyl Ether	2.136	74	15473	19.531	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	26250	20.242	ug/l	99
10) 1,1-Dichloroethene	2.313	96	24646	19.835	ug/l	97
11) Methyl Iodide	2.447	142	26637	19.563	ug/l	99
12) Methyl Acetate	2.703	43	39252	19.614	ug/l	98
13) Acrolein	2.233	56	27082	90.701	ug/l	97
14) Acrylonitrile	3.062	53	88001	95.891	ug/l	100
15) Acetone	2.380	58	29735	102.722	ug/l	99
16) Carbon Disulfide	2.502	76	65458	19.540	ug/l	99
17) Allyl chloride	2.660	41	48445	19.772	ug/l	92
18) Methylene Chloride	2.788	84	29436	20.265	ug/l	97
19) trans-1,2-Dichloroethene	3.087	96	26610	20.182	ug/l	97
20) Diisopropyl ether	3.757	45	95726	20.015	ug/l	97
21) 1,1-Dichloroethane	3.605	63	53240	19.937	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	30017	19.477	ug/l	95
23) tert-Butyl Alcohol	3.008	59	44236	102.900	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	88548	19.443	ug/l	95
25) Chloroform	5.093	83	50582	19.301	ug/l	91
26) Cyclohexane	5.464	56	46035	19.872	ug/l #	97
29) 1,1-Dichloropropene	5.690	75	38319	18.993	ug/l	96
30) 2-Butanone	4.556	43	131814	91.093	ug/l	97
31) 2,2-Dichloropropane	4.465	77	41108	18.326	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	43523	18.665	ug/l	98
33) Carbon Tetrachloride	5.666	117	33909	18.446	ug/l	93
34) Benzene	6.031	78	111581	18.643	ug/l	99
35) Methacrylonitrile	4.922	41	23411	16.814	ug/l	94
36) 1,2-Dichloroethane	6.086	62	42943	18.297	ug/l #	91
37) Trichloroethene	7.123	130	26608	18.712	ug/l	95
38) Methylcyclohexane	7.373	83	45815	18.560	ug/l	95
39) 1,2-Dichloropropane	7.428	63	29584	18.345	ug/l	97
40) Dibromomethane	7.580	93	20345	18.677	ug/l	98
41) Bromodichloromethane	7.818	83	36864	18.263	ug/l	100
42) Vinyl Acetate	3.721	43	441948	92.372	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.709	43	46542	17.160	ug/l	97
44) Isopropyl Acetate	6.336	43	75435	17.991	ug/l	98
45) 1,4-Dioxane	7.665	88	14391	355.998	ug/l	95
46) Methyl methacrylate	7.690	41	37067	18.407	ug/l	96
47) n-amyl Acetate	10.842	43	64600	17.642	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	39264	18.073	ug/l	94
49) cis-1,3-Dichloropropene	8.366	75	43358	18.223	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	28221	18.900	ug/l	96
51) Ethyl methacrylate	9.116	69	45166	18.108	ug/l	97
52) 1,3-Dichloropropane	9.305	76	47357	18.379	ug/l	100
53) Dibromochloromethane	9.519	129	25974	18.692	ug/l	100
54) 1,2-Dibromoethane	9.610	107	29711	18.986	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	109044	89.843	ug/l	100
56) Bromoform	10.799	173	15807	16.888	ug/l	95
58) 4-Methyl-2-Pentanone	8.574	43	253889	93.381	ug/l	99
59) 2-Hexanone	9.433	43	204876	93.090	ug/l	98
61) Tetrachloroethene	9.269	164	21343	19.493	ug/l	96
62) Toluene	8.714	91	117704	19.208	ug/l	99
64) Chlorobenzene	10.079	112	67925	19.065	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	23690	18.703	ug/l	100
66) Ethyl Benzene	10.195	91	129359	19.225	ug/l	99
67) m/p-Xylenes	10.299	106	95770	38.966	ug/l	97
68) o-Xylene	10.640	106	47193	19.126	ug/l	97
69) Styrene	10.653	104	75929	19.249	ug/l	98
70) Isopropylbenzene	10.964	105	127054	19.509	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.213	83	47357	18.932	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	39158m	18.716	ug/l	
73) Bromobenzene	11.195	156	27301	18.987	ug/l	95
74) n-propylbenzene	11.305	91	150800	19.421	ug/l	99
75) 2-Chlorotoluene	11.366	91	92109	19.094	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	106613	19.163	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	12009	17.490	ug/l	88
78) 4-Chlorotoluene	11.451	91	102712	19.197	ug/l	97
79) tert-butylbenzene	11.713	119	102399	19.424	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	106116	19.219	ug/l	98
81) sec-Butylbenzene	11.890	105	130165	19.212	ug/l	99
82) p-Isopropyltoluene	12.006	119	103026	19.107	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	50325	18.726	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	50608	18.986	ug/l	99
85) n-Butylbenzene	12.329	91	92954	18.835	ug/l	96
86) Hexachloroethane	12.536	117	16337	17.709	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	50530	18.762	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	10851	18.116	ug/l	90
89) 1,2,4-Trichlorobenzene	13.585	180	27990	18.433	ug/l	97
90) Hexachlorobutadiene	13.725	225	12530	18.850	ug/l	98
91) Naphthalene	13.774	128	110789	18.702	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	29434	18.722	ug/l	97

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

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