

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121523\
 Data File : VX039229.D
 Acq On : 15 Dec 2023 14:52
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 12/18/2023
 Supervised By :Semsettin Yesilyurt 12/18/2023

Quant Time: Dec 16 01:14:45 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X112423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 27 03:22:25 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	12025	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	94848	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	115746	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	53876	32.749	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 109.167%			
60) 4-Bromofluorobenzene	11.079	95	80577	31.873	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 106.233%			
63) Toluene-d8	8.647	98	139785	30.546	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.833%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	40110	22.285	ug/l	97
3) Chloromethane	1.294	50	44312	21.502	ug/l	95
4) Vinyl Chloride	1.374	62	43431	20.875	ug/l	98
5) Bromomethane	1.605	94	26296	20.664	ug/l	97
6) Chloroethane	1.691	64	24472	20.198	ug/l	98
7) Trichlorofluoromethane	1.886	101	64026	22.297	ug/l	96
8) Diethyl Ether	2.130	74	23152	21.004	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.331	101	40639	25.045	ug/l	98
10) 1,1-Dichloroethene	2.319	96	37439	22.889	ug/l	95
11) Methyl Iodide	2.453	142	40766	22.744	ug/l	99
12) Methyl Acetate	2.697	43	134237	26.314	ug/l	98
13) Acrolein	2.233	56	40623	90.899	ug/l	98
14) Acrylonitrile	3.056	53	143860	115.299	ug/l	99
15) Acetone	2.373	58	38914	85.801	ug/l	88
16) Carbon Disulfide	2.508	76	100846	20.357	ug/l	96
17) Allyl chloride	2.660	41	76826	23.660	ug/l	94
18) Methylene Chloride	2.788	84	45605	23.522	ug/l	99
19) trans-1,2-Dichloroethene	3.087	96	41183	22.262	ug/l	96
20) Diisopropyl ether	3.751	45	148593	24.047	ug/l	97
21) 1,1-Dichloroethane	3.605	63	81447	23.707	ug/l	98
22) cis-1,2-Dichloroethene	4.483	96	48652	22.693	ug/l	96
23) tert-Butyl Alcohol	2.946	59	65105	94.254	ug/l #	100
24) Methyl tert-Butyl Ether	3.105	73	143853	23.874	ug/l	95
25) Chloroform	5.086	83	82249	23.853	ug/l	93
26) Cyclohexane	5.464	56	67921	21.843	ug/l #	97
29) 1,1-Dichloropropene	5.684	75	59970	22.555	ug/l	97
30) 2-Butanone	4.544	43	205167	102.489	ug/l	99
31) 2,2-Dichloropropane	4.471	77	68136	22.413	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	68806	22.389	ug/l	98
33) Carbon Tetrachloride	5.672	117	55415	21.407	ug/l	98
34) Benzene	6.031	78	172442	22.264	ug/l	99
35) Methacrylonitrile	4.910	41	39744	22.413	ug/l	95
36) 1,2-Dichloroethane	6.080	62	68157	23.982	ug/l	98
37) Trichloroethene	7.116	130	42399	21.568	ug/l	98
38) Methylcyclohexane	7.373	83	69842	21.082	ug/l	97
39) 1,2-Dichloropropane	7.427	63	47243	23.128	ug/l	97
40) Dibromomethane	7.574	93	32217	22.322	ug/l	97
41) Bromodichloromethane	7.818	83	62984	22.716	ug/l	99
42) Vinyl Acetate	3.715	43	542140	113.704	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.702	43	74974	21.769	ug/l	99
44) Isopropyl Acetate	6.330	43	123009	22.657	ug/l	97
45) 1,4-Dioxane	7.653	88	20630	372.220	ug/l	95
46) Methyl methacrylate	7.683	41	72094	23.225	ug/l	99
47) n-amyl Acetate	10.841	43	101904	22.176	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	69172	21.515	ug/l	97
49) cis-1,3-Dichloropropene	8.360	75	73660	22.209	ug/l	95
50) 1,1,2-Trichloroethane	9.147	97	44405	22.649	ug/l	97
51) Ethyl methacrylate	9.110	69	55848	22.756	ug/l	98
52) 1,3-Dichloropropane	9.305	76	75207	22.371	ug/l	99
53) Dibromochloromethane	9.518	129	44529	21.148	ug/l	99
54) 1,2-Dibromoethane	9.604	107	47137	21.924	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	180356	115.940	ug/l	98
56) Bromoform	10.799	173	30088	19.799	ug/l	99
58) 4-Methyl-2-Pentanone	8.567	43	402705	114.732	ug/l	99
59) 2-Hexanone	9.427	43	322663	111.992	ug/l	98
61) Tetrachloroethene	9.269	164	33474	22.244	ug/l	92
62) Toluene	8.714	91	183563	22.338	ug/l	99
64) Chlorobenzene	10.073	112	110678	22.142	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	39520	21.953	ug/l	99
66) Ethyl Benzene	10.189	91	212376	22.696	ug/l	98
67) m/p-Xylenes	10.299	106	151312	43.761	ug/l	96
68) o-Xylene	10.640	106	72713	21.709	ug/l	95
69) Styrene	10.652	104	109605	22.112	ug/l	97
70) Isopropylbenzene	10.957	105	200116	22.331	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	75712	22.632	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	68082m	24.050	ug/l	
73) Bromobenzene	11.195	156	44170	21.649	ug/l	92
74) n-propylbenzene	11.299	91	249921	22.763	ug/l	98
75) 2-Chlorotoluene	11.360	91	145650	22.611	ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	173277	22.445	ug/l	97
77) t-1,4-Dichloro-2-butene	11.018	75	22543	20.097	ug/l	89
78) 4-Chlorotoluene	11.451	91	173472	22.906	ug/l	96
79) tert-butylbenzene	11.713	119	160159	21.817	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	169641	21.956	ug/l	98
81) sec-Butylbenzene	11.890	105	204797	22.068	ug/l	99
82) p-Isopropyltoluene	12.006	119	170304	21.653	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	84670	21.685	ug/l	97
84) 1,4-Dichlorobenzene	12.036	146	85776	21.410	ug/l	99
85) n-Butylbenzene	12.329	91	173411	22.326	ug/l	98
86) Hexachloroethane	12.536	117	30317	20.343	ug/l	96
87) 1,2-Dichlorobenzene	12.335	146	81410	21.683	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.939	75	19581	22.886	ug/l	90
89) 1,2,4-Trichlorobenzene	13.585	180	52034	20.903	ug/l	96
90) Hexachlorobutadiene	13.725	225	20171	22.693	ug/l	99
91) Naphthalene	13.774	128	194291	21.163	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	51545	21.377	ug/l	98

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

