

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112423\
 Data File : VX039020.D
 Acq On : 24 Nov 2023 13:15
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

Quant Time: Nov 27 03:10:30 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X112423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 27 03:05:03 2023
 Response via : Initial Calibration

11/27/2023
 Supervised By :Mahesh
 Dadoda

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

Internal Standards						
1) Bromochloromethane	4.898	128	10166	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	80725	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	100017	30.000	ug/l	0.00

11/27/2023

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	44963	32.329	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 107.767%	
60) 4-Bromofluorobenzene	11.079	95	64647	29.593	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 98.633%	
63) Toluene-d8	8.647	98	121103	30.625	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 102.100%	

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.167	85	8145	5.353	ug/l	95
3) Chloromethane	1.295	50	10079	5.785	ug/l	92
4) Vinyl Chloride	1.374	62	10036	5.706	ug/l	89
5) Bromomethane	1.605	94	6299	5.855	ug/l	89
6) Chloroethane	1.685	64	5535	5.236	ug/l	92
7) Trichlorofluoromethane	1.886	101	13669	5.631	ug/l	93
8) Diethyl Ether	2.130	74	5186	5.565	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	7685	5.602	ug/l	98
10) 1,1-Dichloroethene	2.319	96	7755	5.608	ug/l	92
11) Methyl Iodide	2.453	142	8665	5.718	ug/l	95
12) Methyl Acetate	2.703	43	25069	5.813	ug/l	97
13) Acrolein	2.233	56	12033	31.849	ug/l	99
14) Acrylonitrile	3.063	53	30227	28.656	ug/l	98
15) Acetone	2.374	58	12092	31.537	ug/l	78
16) Carbon Disulfide	2.514	76	24556	5.863	ug/l	97
17) Allyl chloride	2.666	41	15255	5.557	ug/l	97
18) Methylene Chloride	2.788	84	9558	5.831	ug/l	94
19) trans-1,2-Dichloroethene	3.093	96	8763	5.603	ug/l	91
20) Diisopropyl ether	3.758	45	29208	5.591	ug/l	92
21) 1,1-Dichloroethane	3.611	63	16397	5.645	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	10155	5.603	ug/l	99
23) tert-Butyl Alcohol	2.953	59	18853	32.284	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	28658	5.626	ug/l	96
25) Chloroform	5.087	83	16086	5.518	ug/l	94
26) Cyclohexane	5.471	56	14611	5.558	ug/l #	8
29) 1,1-Dichloropropene	5.690	75	12551	5.546	ug/l	98
30) 2-Butanone	4.556	43	50551	29.670	ug/l #	97
31) 2,2-Dichloropropane	4.471	77	13833	5.346	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	13618	5.207	ug/l	98
33) Carbon Tetrachloride	5.678	117	10945	4.968	ug/l	96
34) Benzene	6.032	78	36437	5.527	ug/l	95
35) Methacrylonitrile	4.922	41	7998	5.300	ug/l	93
36) 1,2-Dichloroethane	6.086	62	13651	5.644	ug/l	98
37) Trichloroethene	7.129	130	9070	5.421	ug/l	91
38) Methylcyclohexane	7.379	83	14932	5.296	ug/l	96
39) 1,2-Dichloropropane	7.434	63	9594	5.518	ug/l	98
40) Dibromomethane	7.586	93	6729	5.478	ug/l	95
41) Bromodichloromethane	7.824	83	12289	5.208	ug/l	99
42) Vinyl Acetate	3.721	43	109465	26.975	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	16021	5.466	ug/l	# 85
44) Isopropyl Acetate	6.336	43	24992	5.409	ug/l	98
45) 1,4-Dioxane	7.659	88	5096	108.031	ug/l	95
46) Methyl methacrylate	7.696	41	14411	5.455	ug/l	97
47) n-amyl Acetate	10.842	43	18863	4.823	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	14299	5.226	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	14593	5.170	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	8811	5.280	ug/l	98
51) Ethyl methacrylate	9.116	69	10545	5.048	ug/l	96
52) 1,3-Dichloropropane	9.305	76	15695	5.485	ug/l	98
53) Dibromochloromethane	9.519	129	9142	5.101	ug/l	99
54) 1,2-Dibromoethane	9.610	107	9696	5.299	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	33740	25.498	ug/l	99
56) Bromoform	10.799	173	6117	4.729	ug/l	99
58) 4-Methyl-2-Pentanone	8.568	43	83460	27.517	ug/l	99
59) 2-Hexanone	9.427	43	68445	27.492	ug/l	99
61) Tetrachloroethene	9.269	164	7170	5.514	ug/l	94
62) Toluene	8.720	91	38251	5.387	ug/l	100
64) Chlorobenzene	10.080	112	23654	5.476	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.159	131	7933	5.100	ug/l	99
66) Ethyl Benzene	10.195	91	44186	5.465	ug/l	99
67) m/p-Xylenes	10.299	106	31898	10.676	ug/l	100
68) o-Xylene	10.640	106	15348	5.303	ug/l	100
69) Styrene	10.659	104	21995	5.135	ug/l	100
70) Isopropylbenzene	10.964	105	40747	5.262	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	15600	5.396	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	12923m	3.890	ug/l	
73) Bromobenzene	11.195	156	9462	5.367	ug/l	98
74) n-propylbenzene	11.305	91	49576	5.225	ug/l	100
75) 2-Chlorotoluene	11.366	91	30051	5.399	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	34763	5.211	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	4459	4.600	ug/l	89
78) 4-Chlorotoluene	11.457	91	35009	5.350	ug/l	99
79) tert-butylbenzene	11.713	119	32945	5.194	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	34339	5.143	ug/l	99
81) sec-Butylbenzene	11.890	105	41736	5.205	ug/l	99
82) p-Isopropyltoluene	12.006	119	34923	5.138	ug/l	98
83) 1,3-Dichlorobenzene	11.970	146	17783	5.271	ug/l	97
84) 1,4-Dichlorobenzene	12.043	146	18620	5.379	ug/l	99
85) n-Butylbenzene	12.329	91	34371	5.121	ug/l	99
86) Hexachloroethane	12.536	117	6081	4.722	ug/l	92
87) 1,2-Dichlorobenzene	12.335	146	17371	5.354	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	3905	5.282	ug/l	92
89) 1,2,4-Trichlorobenzene	13.591	180	11107	5.164	ug/l	98
90) Hexachlorobutadiene	13.725	225	3861	5.027	ug/l	97
91) Naphthalene	13.774	128	42874	5.405	ug/l	98
92) 1,2,3-Trichlorobenzene	13.957	180	10735	5.152	ug/l	98

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

