

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011823\
 Data File : VX033768.D
 Acq On : 18 Jan 2023 12:38
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/19/2023
 Supervised By : Mahesh Dadoda 01/19/2023

Quant Time: Jan 18 13:25:19 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 18 12:35:47 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.898	128	16775	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	107686	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	127080	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	42715	31.448	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	= 104.833%		
60) 4-Bromofluorobenzene	11.079	95	67304	29.385	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	= 97.967%		
63) Toluene-d8	8.647	98	119971	29.498	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	= 98.333%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	7729	4.406	ug/l	96
3) Chloromethane	1.295	50	9534	5.070	ug/l	99
4) Vinyl Chloride	1.374	62	9015	5.307	ug/l	92
5) Bromomethane	1.618	94	5924	6.296	ug/l	100
6) Chloroethane	1.691	64	5054	5.080	ug/l	96
7) Trichlorofluoromethane	1.886	101	13941	5.318	ug/l	96
8) Diethyl Ether	2.130	74	4971	5.824	ug/l	91
9) 1,1,2-Trichlorotrifluo...	2.331	101	8212	6.042	ug/l	98
10) 1,1-Dichloroethene	2.319	96	8189	6.390	ug/l	97
11) Methyl Iodide	2.453	142	11540	5.238	ug/l	93
12) Methyl Acetate	2.709	43	14052	5.238	ug/l	98
13) Acrolein	2.240	56	8744	30.228	ug/l	99
14) Acrylonitrile	3.069	53	22798	25.768	ug/l	98
15) Acetone	2.398	58	7075	35.336	ug/l	83
16) Carbon Disulfide	2.514	76	19354	5.190	ug/l	97
17) Allyl chloride	2.666	41	14346	5.262	ug/l	89
18) Methylene Chloride	2.788	84	9426	5.252	ug/l	94
19) trans-1,2-Dichloroethene	3.093	96	8771	5.094	ug/l	87
20) Diisopropyl ether	3.758	45	29548	5.022	ug/l #	85
21) 1,1-Dichloroethane	3.611	63	16201	5.021	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	10270	5.016	ug/l	94
23) tert-Butyl Alcohol	3.002	59	7966m	22.795	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	26399	4.824	ug/l	97
25) Chloroform	5.093	83	16166	4.936	ug/l	97
26) Cyclohexane	5.477	56	14825	4.950	ug/l #	99
29) 1,1-Dichloropropene	5.696	75	11805	5.072	ug/l	95
30) 2-Butanone	4.568	43	33376	27.457	ug/l #	98
31) 2,2-Dichloropropane	4.477	77	10655	5.317	ug/l	96
32) 1,1,1-Trichloroethane	5.379	97	13505	4.970	ug/l	99
33) Carbon Tetrachloride	5.672	117	11608	4.732	ug/l	92
34) Benzene	6.044	78	33653	4.977	ug/l	96
35) Methacrylonitrile	4.928	41	6842m	4.940	ug/l	
36) 1,2-Dichloroethane	6.086	62	13143	5.347	ug/l	100
37) Trichloroethene	7.129	130	8631	4.426	ug/l	100
38) Methylcyclohexane	7.379	83	12469	4.308	ug/l	97
39) 1,2-Dichloropropane	7.434	63	7724	4.469	ug/l	92
40) Dibromomethane	7.580	93	5725	4.714	ug/l	96
41) Bromodichloromethane	7.824	83	10544	4.476	ug/l	95
42) Vinyl Acetate	3.721	43	105944	24.389	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	13531	5.432	ug/l	96
44) Isopropyl Acetate	6.342	43	17587	4.501	ug/l	100
45) 1,4-Dioxane	7.745	88	3569m	83.716	ug/l	
46) Methyl methacrylate	7.696	41	8828	4.462	ug/l	94
47) n-amyl Acetate	10.842	43	13965	4.197	ug/l	96
48) t-1,3-Dichloropropene	8.982	75	10520	4.370	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	12200	4.563	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	9015	5.113	ug/l	95
51) Ethyl methacrylate	9.116	69	12232	4.653	ug/l	94
52) 1,3-Dichloropropane	9.311	76	15639	5.296	ug/l	99
53) Dibromochloromethane	9.519	129	9072	4.721	ug/l	97
54) 1,2-Dibromoethane	9.610	107	9741	5.170	ug/l	94
55) 2-Chloroethyl vinyl ether	8.245	63	28555	22.468	ug/l	100
56) Bromoform	10.799	173	6258	4.242	ug/l	95
58) 4-Methyl-2-Pentanone	8.574	43	59609	23.613	ug/l	99
59) 2-Hexanone	9.433	43	45216	24.338	ug/l	99
61) Tetrachloroethene	9.275	164	9162	4.997	ug/l	96
62) Toluene	8.720	91	36237	4.530	ug/l	100
64) Chlorobenzene	10.080	112	25309	4.912	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	8868	4.573	ug/l	96
66) Ethyl Benzene	10.195	91	42677	4.784	ug/l	97
67) m/p-Xylenes	10.299	106	33531	9.523	ug/l	98
68) o-Xylene	10.640	106	17010	4.915	ug/l	96
69) Styrene	10.653	104	26814	4.681	ug/l	98
70) Isopropylbenzene	10.964	105	43810	4.888	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.214	83	13189	4.887	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	11564m	4.730	ug/l	
73) Bromobenzene	11.201	156	11815	4.981	ug/l	95
74) n-propylbenzene	11.305	91	48287	4.745	ug/l	99
75) 2-Chlorotoluene	11.366	91	29848	4.904	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	35466	4.766	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	2690	3.678	ug/l	97
78) 4-Chlorotoluene	11.457	91	32915	4.822	ug/l	100
79) tert-butylbenzene	11.713	119	36370	4.766	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	35237	4.793	ug/l	99
81) sec-Butylbenzene	11.890	105	44115	4.777	ug/l	100
82) p-Isopropyltoluene	12.012	119	37616	4.723	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	21002	4.850	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	21095	4.886	ug/l	98
85) n-Butylbenzene	12.335	91	29329	4.530	ug/l	100
86) Hexachloroethane	12.536	117	5430	4.191	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	20039	4.804	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	2359	4.210	ug/l	96
89) 1,2,4-Trichlorobenzene	13.591	180	12867	4.485	ug/l	99
90) Hexachlorobutadiene	13.725	225	6416	4.664	ug/l	98
91) Naphthalene	13.774	128	37561	4.459	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	11964	4.157	ug/l	99

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

