

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021822\
 Data File : VX027092.D
 Acq On : 17 Feb 2022 21:11
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

02/18/2022
 Supervised By :Mahesh
 Dadoda

Quant Time: Feb 18 04:53:13 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X021822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Feb 18 04:52:41 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	14802	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	81514	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	69734	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	32595	28.780	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	95.933%
60) 4-Bromofluorobenzene	11.079	95	33179	28.924	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	96.400%
63) Toluene-d8	8.653	98	94670	30.223	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.733%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	3834	4.328	ug/l	95
3) Chloromethane	1.294	50	3831	3.970	ug/l	97
4) Vinyl Chloride	1.374	62	3802	3.939	ug/l	96
5) Bromomethane	1.605	94	2265	4.098	ug/l	92
6) Chloroethane	1.685	64	2362	3.912	ug/l	91
7) Trichlorofluoromethane	1.892	101	5997	3.873	ug/l	93
8) Diethyl Ether	2.136	74	2300	4.157	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.337	101	4242	4.710	ug/l	99
10) 1,1-Dichloroethene	2.325	96	4005	4.577	ug/l	99
11) Methyl Iodide	2.453	142	4205	3.470	ug/l	99
12) Methyl Acetate	2.709	43	6452	4.975	ug/l	92
13) Acrolein	2.239	56	5721	37.787	ug/l	99
14) Acrylonitrile	3.069	53	13767	23.989	ug/l	99
15) Acetone	2.386	58	3668	22.164	ug/l	99
16) Carbon Disulfide	2.514	76	10185	4.656	ug/l	100
17) Allyl chloride	2.666	41	7269	4.540	ug/l	94
18) Methylene Chloride	2.794	84	4935	4.845	ug/l	95
19) trans-1,2-Dichloroethene	3.099	96	4685	4.996	ug/l	82
20) Diisopropyl ether	3.764	45	15164	4.737	ug/l #	81
21) 1,1-Dichloroethane	3.617	63	8184	4.677	ug/l	93
22) cis-1,2-Dichloroethene	4.495	96	5253	4.829	ug/l	96
23) tert-Butyl Alcohol	2.965	59	5250	20.875	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	14848	4.855	ug/l	100
25) Chloroform	5.105	83	8861	4.932	ug/l	99
26) Cyclohexane	5.477	56	7491	4.697	ug/l #	97
29) 1,1-Dichloropropene	5.702	75	6269	4.820	ug/l	97
30) 2-Butanone	4.562	43	19177	22.785	ug/l	99
31) 2,2-Dichloropropane	4.483	77	5390	3.893	ug/l	95
32) 1,1,1-Trichloroethane	5.391	97	7413	4.769	ug/l	98
33) Carbon Tetrachloride	5.684	117	6160	4.550	ug/l #	93
34) Benzene	6.044	78	18805	4.856	ug/l	99
35) Methacrylonitrile	4.928	41	3868	4.489	ug/l	82
36) 1,2-Dichloroethane	6.092	62	6839	4.667	ug/l	99
37) Trichloroethene	7.135	130	5302	4.938	ug/l	96
38) Methylcyclohexane	7.385	83	7520	4.581	ug/l	98
39) 1,2-Dichloropropane	7.440	63	4674	4.640	ug/l	99
40) Dibromomethane	7.586	93	3505	4.904	ug/l	94
41) Bromodichloromethane	7.830	83	6086	4.629	ug/l	94
42) Vinyl Acetate	3.727	43	62127	22.311	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	4.721	43	7077	4.467	ug/l	#	86
44) Isopropyl Acetate	6.348	43	10862	4.327	ug/l		99
45) 1,4-Dioxane	7.665	88	2274	88.155	ug/l		94
46) Methyl methacrylate	7.696	41	5233	4.305	ug/l		92
47) n-amyl Acetate	10.848	43	8173	3.870	ug/l		99
48) t-1,3-Dichloropropene	8.982	75	5329	3.595	ug/l		94
49) cis-1,3-Dichloropropene	8.372	75	6252	3.925	ug/l		99
50) 1,1,2-Trichloroethane	9.153	97	4682	4.522	ug/l		98
51) Ethyl methacrylate	9.122	69	6944	4.241	ug/l		94
52) 1,3-Dichloropropane	9.311	76	8240	4.842	ug/l		99
53) Dibromochloromethane	9.525	129	4382	4.197	ug/l		97
54) 1,2-Dibromoethane	9.610	107	4989	4.589	ug/l		94
55) 2-Chloroethyl vinyl ether	8.244	63	18736	23.739	ug/l		99
56) Bromoform	10.805	173	2833	3.826	ug/l		98
58) 4-Methyl-2-Pentanone	8.574	43	35632	23.657	ug/l		100
59) 2-Hexanone	9.433	43	26774	23.121	ug/l		98
61) Tetrachloroethene	9.275	164	5541	5.598	ug/l		97
62) Toluene	8.720	91	19660	4.923	ug/l		99
64) Chlorobenzene	10.079	112	12214	4.870	ug/l		99
65) 1,1,1,2-Tetrachloroethane	10.165	131	4239	4.562	ug/l		97
66) Ethyl Benzene	10.195	91	20609	4.652	ug/l		97
67) m/p-Xylenes	10.305	106	16162	9.443	ug/l		99
68) o-Xylene	10.646	106	7915	4.690	ug/l		97
69) Styrene	10.659	104	12435	4.463	ug/l		99
70) Isopropylbenzene	10.963	105	20413	4.598	ug/l		99
71) 1,1,2,2-Tetrachloroethane	11.213	83	6257	4.513	ug/l		98
72) 1,2,3-Trichloropropane	11.238	75	6319m	4.829	ug/l		
73) Bromobenzene	11.201	156	4922	4.562	ug/l		99
74) n-propylbenzene	11.305	91	22329	4.368	ug/l		99
75) 2-Chlorotoluene	11.366	91	15000	4.874	ug/l		99
76) 1,3,5-Trimethylbenzene	11.451	105	16626	4.520	ug/l		99
77) t-1,4-Dichloro-2-butene	11.024	75	1305	2.896	ug/l		94
78) 4-Chlorotoluene	11.457	91	16054	4.618	ug/l		98
79) tert-butylbenzene	11.713	119	16296	4.595	ug/l		98
80) 1,2,4-Trimethylbenzene	11.756	105	16609	4.563	ug/l		99
81) sec-Butylbenzene	11.890	105	19896	4.358	ug/l		100
82) p-Isopropyltoluene	12.012	119	16239	4.313	ug/l		99
83) 1,3-Dichlorobenzene	11.969	146	9141	4.660	ug/l		97
84) 1,4-Dichlorobenzene	12.043	146	9279	4.759	ug/l		98
85) n-Butylbenzene	12.335	91	12776	3.886	ug/l		99
86) Hexachloroethane	12.536	117	2355	3.870	ug/l		95
87) 1,2-Dichlorobenzene	12.335	146	8837	4.650	ug/l		99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	1256	3.986	ug/l		96
89) 1,2,4-Trichlorobenzene	13.591	180	5099	4.324	ug/l		95
90) Hexachlorobutadiene	13.725	225	2330	4.499	ug/l		96
91) Naphthalene	13.780	128	17290	4.246	ug/l		99
92) 1,2,3-Trichlorobenzene	13.963	180	5246	4.434	ug/l		99

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

