

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX110421\
 Data File : VX025056.D
 Acq On : 03 Nov 2021 17:50
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

Quant Time: Nov 03 23:33:54 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X110421W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Nov 03 23:32:35 2021
 Response via : Initial Calibration

11/04/2021
 Supervised By :Mahesh
 Dadoda

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

Internal Standards						
1) Bromochloromethane	4.904	128	19522	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	103329	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	92752	30.000	ug/l	0.00

11/10/2021

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	55764	35.245	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 117.467%#	
60) 4-Bromofluorobenzene	11.085	95	50843	32.458	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 108.200%	
63) Toluene-d8	8.653	98	129845	30.967	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 103.233%	

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.167	85	5610	4.501	ug/l	99
3) Chloromethane	1.288	50	3223	2.633	ug/l	95
4) Vinyl Chloride	1.374	62	3711	2.983	ug/l #	71
5) Bromomethane	1.612	94	4089	5.350	ug/l	100
6) Chloroethane	1.685	64	2200	2.826	ug/l	94
7) Trichlorofluoromethane	1.886	101	9179	4.249	ug/l	99
8) Diethyl Ether	2.136	74	2303	3.211	ug/l	80
9) 1,1,2-Trichlorotrifluo...	2.331	101	5306	4.505	ug/l	90
10) 1,1-Dichloroethene	2.319	96	4098	3.655	ug/l #	67
11) Methyl Iodide	2.453	142	1522	1.024	ug/l #	64
12) Methyl Acetate	2.703	43	8916	4.978	ug/l	94
13) Acrolein	2.240	56	3203	18.829	ug/l #	81
14) Acrylonitrile	3.069	53	11938	16.457	ug/l	97
15) Acetone	2.392	58	3681	17.153	ug/l #	68
16) Carbon Disulfide	2.514	76	10252	3.678	ug/l	97
17) Allyl chloride	2.666	41	6095	3.021	ug/l	95
18) Methylene Chloride	2.788	84	5028	3.797	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	4580	3.796	ug/l #	89
20) Diisopropyl ether	3.764	45	14141	3.453	ug/l	94
21) 1,1-Dichloroethane	3.611	63	9462	4.081	ug/l	96
22) cis-1,2-Dichloroethene	4.495	96	5564	3.956	ug/l #	81
23) tert-Butyl Alcohol	3.008	59	8817m	25.250	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	16587	4.056	ug/l	96
25) Chloroform	5.093	83	11178	4.571	ug/l	99
26) Cyclohexane	5.477	56	7808	3.817	ug/l #	36
29) 1,1-Dichloropropene	5.702	75	6740	4.036	ug/l	82
30) 2-Butanone	4.562	43	17775	17.072	ug/l #	63
31) 2,2-Dichloropropane	4.477	77	9160	4.753	ug/l #	81
32) 1,1,1-Trichloroethane	5.391	97	10162	4.910	ug/l #	36
33) Carbon Tetrachloride	5.678	117	8750	4.846	ug/l	84
34) Benzene	6.044	78	18777	3.911	ug/l	98
35) Methacrylonitrile	4.922	41	3374m	2.551	ug/l	
36) 1,2-Dichloroethane	6.092	62	8981	4.650	ug/l #	82
37) Trichloroethene	7.135	130	5326	4.077	ug/l	99
38) Methylcyclohexane	7.379	83	7239m	3.554	ug/l	
39) 1,2-Dichloropropane	7.434	63	5801m	4.617	ug/l	
40) Dibromomethane	7.586	93	3978	4.361	ug/l	90
41) Bromodichloromethane	7.824	83	8236	4.776	ug/l #	82
42) Vinyl Acetate	3.727	43	50486	14.987	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.727	43	7390	3.784	ug/l	97
44) Isopropyl Acetate	6.342	43	10807	3.486	ug/l #	91
45) 1,4-Dioxane	7.714	88	2521m	78.730	ug/l	
46) Methyl methacrylate	7.702	41	5173	3.438	ug/l	93
47) n-amyl Acetate	10.848	43	8646	3.302	ug/l	93
48) t-1,3-Dichloropropene	8.982	75	8633	4.362	ug/l #	87
49) cis-1,3-Dichloropropene	8.366	75	8820	4.263	ug/l #	84
50) 1,1,2-Trichloroethane	9.153	97	5914	4.533	ug/l	97
51) Ethyl methacrylate	9.122	69	8464m	4.070	ug/l	
52) 1,3-Dichloropropane	9.311	76	9078	4.191	ug/l	99
53) Dibromochloromethane	9.525	129	5688	4.203	ug/l	95
54) 1,2-Dibromoethane	9.616	107	6260	4.481	ug/l	89
55) 2-Chloroethyl vinyl ether	8.245	63	22990	22.898	ug/l	98
56) Bromoform	10.805	173	3340	3.512	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	34256	17.677	ug/l #	94
59) 2-Hexanone	9.433	43	25630	17.147	ug/l #	92
61) Tetrachloroethene	9.275	164	5158	4.219	ug/l	92
62) Toluene	8.720	91	21195	4.068	ug/l	99
64) Chlorobenzene	10.080	112	12456	3.806	ug/l	93
65) 1,1,1,2-Tetrachloroethane	10.165	131	5422	4.268	ug/l	95
66) Ethyl Benzene	10.195	91	23076	3.922	ug/l	96
67) m/p-Xylenes	10.305	106	15182	6.870	ug/l #	71
68) o-Xylene	10.647	106	7354	3.363	ug/l	71
69) Styrene	10.659	104	13414	3.713	ug/l	93
70) Isopropylbenzene	10.964	105	22959	3.915	ug/l	92
71) 1,1,2,2-Tetrachloroethane	11.214	83	7653	4.077	ug/l	94
72) 1,2,3-Trichloropropane	11.238	75	7653m	4.329	ug/l	
73) Bromobenzene	11.201	156	5200	3.726	ug/l	83
74) n-propylbenzene	11.305	91	27281	3.985	ug/l	96
75) 2-Chlorotoluene	11.366	91	18229	4.435	ug/l	92
76) 1,3,5-Trimethylbenzene	11.451	105	20701	4.213	ug/l	90
77) t-1,4-Dichloro-2-butene	11.025	75	2274	3.640	ug/l	67
78) 4-Chlorotoluene	11.457	91	19197	4.104	ug/l	97
79) tert-butylbenzene	11.720	119	17993	3.781	ug/l	89
80) 1,2,4-Trimethylbenzene	11.756	105	18870	3.881	ug/l	86
81) sec-Butylbenzene	11.890	105	21977	3.627	ug/l	98
82) p-Isopropyltoluene	12.012	119	17667	3.542	ug/l	94
83) 1,3-Dichlorobenzene	11.976	146	9302	3.649	ug/l	93
84) 1,4-Dichlorobenzene	12.049	146	9360	3.708	ug/l	96
85) n-Butylbenzene	12.335	91	16187	3.647	ug/l	96
86) Hexachloroethane	12.543	117	3259	3.937	ug/l	77
87) 1,2-Dichlorobenzene	12.341	146	8822	3.564	ug/l	92
88) 1,2-Dibromo-3-Chloropr...	12.945	75	1913	4.372	ug/l	87
89) 1,2,4-Trichlorobenzene	13.591	180	4708	3.053	ug/l	99
90) Hexachlorobutadiene	13.725	225	2632	3.769	ug/l	91
91) Naphthalene	13.780	128	12535	2.385	ug/l #	95
92) 1,2,3-Trichlorobenzene	13.963	180	4902	3.175	ug/l	96

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

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