

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020222\
 Data File : VX026730.D
 Acq On : 02 Feb 2022 12:24
 Operator : JC/MD
 Sample : VX0202WBS02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0202WBS02

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/03/2022
 Supervised By : Mahesh Dadoda 02/04/2022

Quant Time: Feb 03 03:02:38 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011022W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jan 10 12:50:55 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	16995	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	92999	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	82522	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	36993	27.070	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	90.233%#	
60) 4-Bromofluorobenzene	11.079	95	40317	29.274	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	97.567%	
63) Toluene-d8	8.653	98	109960	29.006	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	96.700%	
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.172	85	19186	18.743	ug/l	100
3) Chloromethane	1.294	50	17219	19.254	ug/l	96
4) Vinyl Chloride	1.374	62	17856	18.061	ug/l	97
5) Bromomethane	1.617	94	9583	21.529	ug/l	97
6) Chloroethane	1.691	64	9768	17.412	ug/l	94
7) Trichlorofluoromethane	1.892	101	27667	17.658	ug/l	99
8) Diethyl Ether	2.136	74	10213	18.268	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.337	101	18788	19.212	ug/l	99
10) 1,1-Dichloroethene	2.325	96	17365	19.008	ug/l	93
11) Methyl Iodide	2.459	142	22899	23.080	ug/l	98
12) Methyl Acetate	2.709	43	40006	20.903	ug/l	97
13) Acrolein	2.239	56	20367	102.685	ug/l	98
14) Acrylonitrile	3.068	53	57381	107.488	ug/l	98
15) Acetone	2.392	58	18228	108.702	ug/l	86
16) Carbon Disulfide	2.520	76	44341	17.188	ug/l	99
17) Allyl chloride	2.666	41	32081	18.247	ug/l	97
18) Methylene Chloride	2.794	84	20332	20.206	ug/l	98
19) trans-1,2-Dichloroethene	3.099	96	19085	19.435	ug/l	94
20) Diisopropyl ether	3.763	45	66040	19.327	ug/l	98
21) 1,1-Dichloroethane	3.611	63	35043	18.627	ug/l	99
22) cis-1,2-Dichloroethene	4.495	96	22368	19.469	ug/l	93
23) tert-Butyl Alcohol	2.989	59	18638	96.255	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	62193	18.306	ug/l	99
25) Chloroform	5.098	83	37283	19.126	ug/l	98
26) Cyclohexane	5.476	56	32073	18.638	ug/l #	99
29) 1,1-Dichloropropene	5.696	75	26362	18.353	ug/l	99
30) 2-Butanone	4.562	43	83312	99.876	ug/l	97
31) 2,2-Dichloropropane	4.477	77	25877	17.393	ug/l	97
32) 1,1,1-Trichloroethane	5.391	97	31634	18.090	ug/l	100
33) Carbon Tetrachloride	5.684	117	27828	17.963	ug/l	95
34) Benzene	6.043	78	78555	19.724	ug/l	100
35) Methacrylonitrile	4.922	41	18032	20.631	ug/l	94
36) 1,2-Dichloroethane	6.092	62	29127	18.108	ug/l	96
37) Trichloroethene	7.129	130	23477	20.411	ug/l	93
38) Methylcyclohexane	7.385	83	33184	19.278	ug/l	99
39) 1,2-Dichloropropane	7.427	63	20385	20.016	ug/l	95
40) Dibromomethane	7.580	93	14440	20.183	ug/l	99
41) Bromodichloromethane	7.824	83	27519	18.637	ug/l	95
42) Vinyl Acetate	3.727	43	251001	97.121	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	29523	19.466	ug/l	100
44) Isopropyl Acetate	6.342	43	48107	19.218	ug/l	100
45) 1,4-Dioxane	7.689	88	8783	452.685	ug/l	97
46) Methyl methacrylate	7.696	41	23862	19.433	ug/l	91
47) n-amyl Acetate	10.841	43	36928	19.717	ug/l	97
48) t-1,3-Dichloropropene	8.982	75	27855	18.893	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	30873	18.937	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	21063	21.412	ug/l	98
51) Ethyl methacrylate	9.116	69	31776	20.260	ug/l	96
52) 1,3-Dichloropropane	9.311	76	35993	21.113	ug/l	99
53) Dibromochloromethane	9.524	129	21649	20.249	ug/l	99
54) 1,2-Dibromoethane	9.610	107	21566	20.672	ug/l	98
55) 2-Chloroethyl vinyl ether	8.244	63	81932	97.654	ug/l	99
56) Bromoform	10.799	173	14263	20.096	ug/l	99
58) 4-Methyl-2-Pentanone	8.573	43	155685	101.143	ug/l	98
59) 2-Hexanone	9.433	43	116175	97.474	ug/l	98
61) Tetrachloroethene	9.275	164	26319	21.639	ug/l	97
62) Toluene	8.720	91	85166	19.331	ug/l	99
64) Chlorobenzene	10.079	112	54180	20.257	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	19874	19.513	ug/l	98
66) Ethyl Benzene	10.195	91	95356	19.344	ug/l	99
67) m/p-Xylenes	10.305	106	74359	40.601	ug/l	96
68) o-Xylene	10.640	106	36144	20.348	ug/l	99
69) Styrene	10.658	104	59001	19.984	ug/l	97
70) Isopropylbenzene	10.963	105	95721	20.086	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	25170	19.380	ug/l	100
72) 1,2,3-Trichloropropane	11.244	75	27313m	20.737	ug/l	
73) Bromobenzene	11.201	156	22233	20.381	ug/l	95
74) n-propylbenzene	11.305	91	108279	19.670	ug/l	100
75) 2-Chlorotoluene	11.366	91	64507	19.507	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	78466	19.711	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	7276	18.368	ug/l	95
78) 4-Chlorotoluene	11.457	91	73252	19.430	ug/l	98
79) tert-butylbenzene	11.713	119	72946	19.797	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	78127	19.869	ug/l	98
81) sec-Butylbenzene	11.890	105	95734	19.834	ug/l	99
82) p-Isopropyltoluene	12.012	119	80594	19.766	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	40389	19.894	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	40724	20.018	ug/l	99
85) n-Butylbenzene	12.335	91	67022	18.992	ug/l	99
86) Hexachloroethane	12.542	117	11258	18.288	ug/l	95
87) 1,2-Dichlorobenzene	12.335	146	39529	20.263	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	5739	17.319	ug/l	93
89) 1,2,4-Trichlorobenzene	13.591	180	24366	19.080	ug/l	99
90) Hexachlorobutadiene	13.725	225	10978	19.696	ug/l	100
91) Naphthalene	13.780	128	83740	18.969	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	24319	19.145	ug/l	98

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

