

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030422\
 Data File : VX027294.D
 Acq On : 04 Mar 2022 12:15
 Operator : JC/MD
 Sample : VX0304WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0304WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/07/2022
 Supervised By : Mahesh Dadoda 03/07/2022

Quant Time: Mar 05 01:48:25 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X030322W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 04 01:00:22 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	12010	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	66129	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	60188	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	25491	30.658	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.200%			
60) 4-Bromofluorobenzene	11.079	95	28349	29.074	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 96.900%			
63) Toluene-d8	8.647	98	76192	28.957	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 96.533%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	15371	19.993	ug/l	99
3) Chloromethane	1.295	50	11780	19.052	ug/l	99
4) Vinyl Chloride	1.380	62	11818	19.960	ug/l	97
5) Bromomethane	1.605	94	6656	20.919	ug/l	98
6) Chloroethane	1.691	64	7210	20.609	ug/l	98
7) Trichlorofluoromethane	1.892	101	20499	20.243	ug/l	100
8) Diethyl Ether	2.136	74	6260	19.412	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	14233	20.105	ug/l	100
10) 1,1-Dichloroethene	2.325	96	13535	19.681	ug/l	99
11) Methyl Iodide	2.459	142	11977	14.942	ug/l	98
12) Methyl Acetate	2.703	43	17413	19.459	ug/l	95
13) Acrolein	2.239	56	14695	103.242	ug/l	98
14) Acrylonitrile	3.062	53	37959	94.053	ug/l	99
15) Acetone	2.380	58	11895	102.679	ug/l	95
16) Carbon Disulfide	2.514	76	35572	19.479	ug/l	100
17) Allyl chloride	2.666	41	21869	19.131	ug/l	99
18) Methylene Chloride	2.794	84	14455	18.613	ug/l	99
19) trans-1,2-Dichloroethene	3.099	96	14618	19.650	ug/l	88
20) Diisopropyl ether	3.764	45	43557	19.821	ug/l	90
21) 1,1-Dichloroethane	3.611	63	25238	19.634	ug/l	99
22) cis-1,2-Dichloroethene	4.495	96	16759	19.616	ug/l	98
23) tert-Butyl Alcohol	2.959	59	14152	88.538	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	43989	19.272	ug/l	100
25) Chloroform	5.093	83	26989	19.701	ug/l	99
26) Cyclohexane	5.471	56	23519	20.320	ug/l #	97
29) 1,1-Dichloropropene	5.690	75	19808	19.594	ug/l	100
30) 2-Butanone	4.556	43	54608	95.692	ug/l	100
31) 2,2-Dichloropropane	4.477	77	19328	19.019	ug/l	99
32) 1,1,1-Trichloroethane	5.391	97	23723	19.322	ug/l	99
33) Carbon Tetrachloride	5.684	117	21381	19.091	ug/l	98
34) Benzene	6.044	78	57509	19.467	ug/l	98
35) Methacrylonitrile	4.922	41	10647	17.848	ug/l	92
36) 1,2-Dichloroethane	6.086	62	20834	19.362	ug/l	98
37) Trichloroethene	7.129	130	17023	19.072	ug/l	98
38) Methylcyclohexane	7.379	83	24570	19.620	ug/l	97
39) 1,2-Dichloropropane	7.434	63	13784	19.005	ug/l	95
40) Dibromomethane	7.580	93	9976	18.394	ug/l	99
41) Bromodichloromethane	7.824	83	19573	18.725	ug/l	99
42) Vinyl Acetate	3.721	43	185672	97.060	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	19972	18.468	ug/l	99
44) Isopropyl Acetate	6.342	43	30545	18.295	ug/l	98
45) 1,4-Dioxane	7.659	88	6567	348.612	ug/l	99
46) Methyl methacrylate	7.690	41	15002	18.113	ug/l	97
47) n-amyl Acetate	10.842	43	23239	16.889	ug/l	98
48) t-1,3-Dichloropropene	8.982	75	18726	17.350	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	22280	18.788	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	14556	18.884	ug/l	99
51) Ethyl methacrylate	9.116	69	21589	18.056	ug/l	97
52) 1,3-Dichloropropane	9.311	76	23955	18.609	ug/l	99
53) Dibromochloromethane	9.519	129	15420	18.309	ug/l	99
54) 1,2-Dibromoethane	9.610	107	14945	17.881	ug/l	98
55) 2-Chloroethyl vinyl ether	8.244	63	52390	90.450	ug/l	99
56) Bromoform	10.799	173	10686	17.351	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	98324	90.307	ug/l	99
59) 2-Hexanone	9.433	43	74317	89.193	ug/l	99
61) Tetrachloroethene	9.275	164	16945	19.302	ug/l	96
62) Toluene	8.720	91	60854	18.560	ug/l	99
64) Chlorobenzene	10.079	112	39092	18.608	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.165	131	14366	18.017	ug/l	97
66) Ethyl Benzene	10.195	91	68028	18.407	ug/l	99
67) m/p-Xylenes	10.305	106	56175	38.818	ug/l	97
68) o-Xylene	10.640	106	25754	18.208	ug/l	96
69) Styrene	10.659	104	43095	18.326	ug/l	98
70) Isopropylbenzene	10.963	105	69742	18.744	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	19653	18.069	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	19646m	18.599	ug/l	
73) Bromobenzene	11.201	156	17383	18.777	ug/l	97
74) n-propylbenzene	11.305	91	78156	18.430	ug/l	100
75) 2-Chlorotoluene	11.366	91	47818	18.627	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	58088	18.586	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	5423	17.330	ug/l	90
78) 4-Chlorotoluene	11.457	91	53600	18.340	ug/l	98
79) tert-butylbenzene	11.713	119	56429	18.563	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	58568	18.810	ug/l	100
81) sec-Butylbenzene	11.890	105	71409	18.468	ug/l	99
82) p-Isopropyltoluene	12.012	119	61959	18.734	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	31867	18.393	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	32167	18.594	ug/l	99
85) n-Butylbenzene	12.335	91	49295	18.273	ug/l	99
86) Hexachloroethane	12.542	117	9108	17.719	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	31553	18.834	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	4343	16.856	ug/l	97
89) 1,2,4-Trichlorobenzene	13.591	180	20100	18.265	ug/l	97
90) Hexachlorobutadiene	13.725	225	8205	17.759	ug/l	97
91) Naphthalene	13.774	128	65837	17.954	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	19466	17.643	ug/l	99

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

