

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071224\
 Data File : VX042295.D
 Acq On : 12 Jul 2024 12:14
 Operator : JC/MD
 Sample : VX0712WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0712WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/15/2024
 Supervised By : Mahesh Dadoda 07/15/2024

Quant Time: Jul 15 02:52:28 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061424W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 15 04:02:59 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	24688	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	136369	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	127450	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	49519	29.137	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.133%		
60) 4-Bromofluorobenzene	11.079	95	59965	30.395	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	101.333%		
63) Toluene-d8	8.647	98	160357	29.408	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.033%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	30755	19.244	ug/l	98
3) Chloromethane	1.300	50	30615	17.137	ug/l	98
4) Vinyl Chloride	1.374	62	30789	17.624	ug/l	99
5) Bromomethane	1.599	94	17724	18.979	ug/l	97
6) Chloroethane	1.666	64	17419	23.337	ug/l	100
7) Trichlorofluoromethane	1.873	101	49544	22.519	ug/l	100
8) Diethyl Ether	2.136	74	18502	19.432	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	32000	21.395	ug/l	99
10) 1,1-Dichloroethene	2.312	96	30050	19.917	ug/l	92
11) Methyl Iodide	2.447	142	34351	17.493	ug/l	97
12) Methyl Acetate	2.709	43	47351	24.616	ug/l	95
13) Acrolein	2.239	56	39192	101.045	ug/l	99
14) Acrylonitrile	3.068	53	90967	99.634	ug/l	99
15) Acetone	2.386	58	26125	100.026	ug/l	97
16) Carbon Disulfide	2.508	76	59237	17.915	ug/l	100
17) Allyl chloride	2.660	41	46463	20.277	ug/l	95
18) Methylene Chloride	2.788	84	34856	20.141	ug/l	97
19) trans-1,2-Dichloroethene	3.087	96	30249	20.014	ug/l	98
20) Diisopropyl ether	3.763	45	97152	20.627	ug/l	99
21) 1,1-Dichloroethane	3.605	63	55673	20.693	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	37980	20.759	ug/l	99
23) tert-Butyl Alcohol	2.983	59	30817	90.787	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	98660	21.139	ug/l	98
25) Chloroform	5.092	83	58389	21.355	ug/l	99
26) Cyclohexane	5.458	56	45491	19.468	ug/l #	99
29) 1,1-Dichloropropene	5.684	75	37794	21.234	ug/l	99
30) 2-Butanone	4.562	43	124592	104.765	ug/l	98
31) 2,2-Dichloropropane	4.471	77	44846	22.995	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	50454	22.363	ug/l	99
33) Carbon Tetrachloride	5.672	117	42905	22.050	ug/l	99
34) Benzene	6.031	78	127704	21.539	ug/l	98
35) Methacrylonitrile	4.922	41	24733	20.706	ug/l	94
36) 1,2-Dichloroethane	6.086	62	41402	22.415	ug/l	99
37) Trichloroethene	7.123	130	35314	21.805	ug/l	97
38) Methylcyclohexane	7.379	83	50112	21.256	ug/l	98
39) 1,2-Dichloropropane	7.427	63	30544	21.627	ug/l	98
40) Dibromomethane	7.580	93	23297	22.298	ug/l	99
41) Bromodichloromethane	7.818	83	41198	22.011	ug/l	94
42) Vinyl Acetate	3.721	43	405192	101.790	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	43818	19.651	ug/l	98
44) Isopropyl Acetate	6.342	43	67240	20.133	ug/l	99
45) 1,4-Dioxane	7.665	88	15857m	389.508	ug/l	
46) Methyl methacrylate	7.696	41	33605	20.579	ug/l	97
47) n-amyl Acetate	10.841	43	59851	19.967	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	41087	21.320	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	46596	21.555	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	34238	22.537	ug/l	98
51) Ethyl methacrylate	9.116	69	50789	21.045	ug/l	97
52) 1,3-Dichloropropane	9.305	76	54894	22.103	ug/l	100
53) Dibromochloromethane	9.518	129	37015	22.265	ug/l	98
54) 1,2-Dibromoethane	9.610	107	35667	22.264	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	152045	135.356	ug/l	99
56) Bromoform	10.799	173	29184	21.528	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	238920	104.615	ug/l	99
59) 2-Hexanone	9.433	43	186676	105.902	ug/l	99
61) Tetrachloroethene	9.268	164	36180	22.560	ug/l	97
62) Toluene	8.714	91	140067	21.718	ug/l	100
64) Chlorobenzene	10.079	112	96165	21.896	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.159	131	34567	22.790	ug/l	99
66) Ethyl Benzene	10.195	91	154371	21.893	ug/l	99
67) m/p-Xylenes	10.299	106	125426	44.224	ug/l	99
68) o-Xylene	10.640	106	62032	21.938	ug/l	96
69) Styrene	10.652	104	103729	21.952	ug/l	99
70) Isopropylbenzene	10.963	105	158305	22.266	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	52776	21.449	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	43144m	21.648	ug/l	
73) Bromobenzene	11.195	156	45890	22.128	ug/l	98
74) n-propylbenzene	11.305	91	176449	22.593	ug/l	100
75) 2-Chlorotoluene	11.360	91	110216	22.224	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	134157	22.523	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	14159	19.205	ug/l	93
78) 4-Chlorotoluene	11.451	91	123051	22.335	ug/l	100
79) tert-butylbenzene	11.713	119	141261	22.343	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	133308	22.402	ug/l	100
81) sec-Butylbenzene	11.890	105	167004	22.647	ug/l	100
82) p-Isopropyltoluene	12.006	119	145704	22.547	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	81609	22.070	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	82066	22.297	ug/l	100
85) n-Butylbenzene	12.329	91	110732	22.159	ug/l	99
86) Hexachloroethane	12.536	117	23138	21.925	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	83377	22.296	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.939	75	10148	19.939	ug/l	99
89) 1,2,4-Trichlorobenzene	13.585	180	54972	21.716	ug/l	99
90) Hexachlorobutadiene	13.725	225	29669	23.785	ug/l	98
91) Naphthalene	13.774	128	162189	21.205	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	57835	22.061	ug/l	97

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

