

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032924\
 Data File : VX040834.D
 Acq On : 29 Mar 2024 11:03
 Operator : JC/MD
 Sample : VX0329WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0329WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/01/2024
 Supervised By : Mahesh Dadoda 04/01/2024

Quant Time: Mar 29 22:57:57 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 29 05:24:11 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.891	128	3833	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	29058	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	36176	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	18711	28.483	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	94.933%		
60) 4-Bromofluorobenzene	11.079	95	24076	30.466	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	101.567%		
63) Toluene-d8	8.647	98	40738	28.725	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	95.733%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	12879	19.192	ug/l	96
3) Chloromethane	1.300	50	12316	20.105	ug/l	95
4) Vinyl Chloride	1.374	62	12853	20.360	ug/l	97
5) Bromomethane	1.611	94	8859	22.216	ug/l	96
6) Chloroethane	1.691	64	7618	19.080	ug/l	99
7) Trichlorofluoromethane	1.892	101	19864	18.149	ug/l	96
8) Diethyl Ether	2.136	74	6128	17.957	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	12006	19.609	ug/l	97
10) 1,1-Dichloroethene	2.319	96	10941	19.066	ug/l	94
11) Methyl Iodide	2.453	142	15289	19.491	ug/l	91
12) Methyl Acetate	2.703	43	14485	17.583	ug/l	96
13) Acrolein	2.233	56	7649	84.753	ug/l	99
14) Acrylonitrile	3.056	53	32546	90.742	ug/l	99
15) Acetone	2.373	58	8856	87.070	ug/l #	65
16) Carbon Disulfide	2.514	76	30892	19.167	ug/l	97
17) Allyl chloride	2.666	41	19791	18.786	ug/l	93
18) Methylene Chloride	2.788	84	11697	18.943	ug/l	97
19) trans-1,2-Dichloroethene	3.093	96	11543	19.248	ug/l	97
20) Diisopropyl ether	3.757	45	38546	18.792	ug/l	97
21) 1,1-Dichloroethane	3.605	63	21645	18.692	ug/l	96
22) cis-1,2-Dichloroethene	4.489	96	13363	18.966	ug/l	98
23) tert-Butyl Alcohol	2.940	59	14811	89.021	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	38072	18.644	ug/l	93
25) Chloroform	5.092	83	23838	18.992	ug/l	93
26) Cyclohexane	5.470	56	19173	19.918	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	16993	20.957	ug/l	97
30) 2-Butanone	4.544	43	49311	96.117	ug/l	97
31) 2,2-Dichloropropane	4.471	77	19099	19.945	ug/l	95
32) 1,1,1-Trichloroethane	5.379	97	21746	20.313	ug/l	97
33) Carbon Tetrachloride	5.678	117	19054	20.619	ug/l	95
34) Benzene	6.037	78	46318	19.914	ug/l	100
35) Methacrylonitrile	4.916	41	10570	19.468	ug/l	95
36) 1,2-Dichloroethane	6.080	62	18463	18.269	ug/l	97
37) Trichloroethene	7.123	130	11480	19.980	ug/l	98
38) Methylcyclohexane	7.379	83	19698	20.578	ug/l	98
39) 1,2-Dichloropropane	7.427	63	11226	20.315	ug/l	98
40) Dibromomethane	7.580	93	9273	20.238	ug/l	98
41) Bromodichloromethane	7.818	83	18260	19.631	ug/l	92
42) Vinyl Acetate	3.715	43	186474	98.338	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	19912	19.942	ug/l	96
44) Isopropyl Acetate	6.330	43	30889	19.362	ug/l	95
45) 1,4-Dioxane	7.653	88	5865	392.610	ug/l	93
46) Methyl methacrylate	7.689	41	15395	20.043	ug/l	95
47) n-amyl Acetate	10.841	43	28001	19.492	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	17560	19.030	ug/l	98
49) cis-1,3-Dichloropropene	8.360	75	18307	19.204	ug/l	92
50) 1,1,2-Trichloroethane	9.147	97	10851	19.311	ug/l	97
51) Ethyl methacrylate	9.116	69	18411	18.760	ug/l	95
52) 1,3-Dichloropropane	9.305	76	18142	18.785	ug/l	99
53) Dibromochloromethane	9.518	129	12485	18.544	ug/l	97
54) 1,2-Dibromoethane	9.604	107	11837	19.033	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	44333	92.354	ug/l	98
56) Bromoform	10.799	173	9186	19.625	ug/l #	98
58) 4-Methyl-2-Pentanone	8.567	43	95069	93.049	ug/l	97
59) 2-Hexanone	9.427	43	77259	94.884	ug/l	96
61) Tetrachloroethene	9.275	164	9419	19.423	ug/l	96
62) Toluene	8.714	91	44905	18.353	ug/l	99
64) Chlorobenzene	10.079	112	32598	20.610	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.159	131	11154	20.123	ug/l	99
66) Ethyl Benzene	10.189	91	59721	20.766	ug/l	98
67) m/p-Xylenes	10.299	106	43837	41.520	ug/l	96
68) o-Xylene	10.640	106	20981	21.094	ug/l	95
69) Styrene	10.652	104	35363	20.490	ug/l	97
70) Isopropylbenzene	10.957	105	57489	21.217	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.207	83	18492	19.652	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	16645m	20.894	ug/l	
73) Bromobenzene	11.195	156	13480	20.864	ug/l	97
74) n-propylbenzene	11.305	91	71938	21.267	ug/l	99
75) 2-Chlorotoluene	11.360	91	42231	21.114	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	49456	21.093	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	5831	18.397	ug/l	71
78) 4-Chlorotoluene	11.451	91	50608	21.291	ug/l	98
79) tert-butylbenzene	11.713	119	44499	19.723	ug/l	96
80) 1,2,4-Trimethylbenzene	11.750	105	47298	20.356	ug/l	99
81) sec-Butylbenzene	11.890	105	56401	19.495	ug/l	99
82) p-Isopropyltoluene	12.006	119	47387	19.344	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	24499	19.528	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	24952	19.300	ug/l	99
85) n-Butylbenzene	12.329	91	46433	19.059	ug/l	98
86) Hexachloroethane	12.536	117	8071	18.544	ug/l	89
87) 1,2-Dichlorobenzene	12.335	146	23120	19.052	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	4302	17.763	ug/l	91
89) 1,2,4-Trichlorobenzene	13.585	180	15995	18.893	ug/l	98
90) Hexachlorobutadiene	13.725	225	6555	20.646	ug/l	98
91) Naphthalene	13.774	128	54448	19.230	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	16310	20.211	ug/l	96

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

