

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112423\
 Data File : VX039023.D
 Acq On : 24 Nov 2023 14:46
 Operator : JC/MD
 Sample : VX1124WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1124WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/27/2023
 Supervised By : Mahesh Dadoda 11/27/2023

Quant Time: Nov 27 03:28:20 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X112423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 27 03:22:25 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.898	128	10064	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	81648	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	103568	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	44871	32.590	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	= 108.633%		
60) 4-Bromofluorobenzene	11.079	95	66975	29.607	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	= 98.700%		
63) Toluene-d8	8.647	98	122168	29.836	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	= 99.467%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	31776	21.095	ug/l	96
3) Chloromethane	1.295	50	35611	20.647	ug/l	95
4) Vinyl Chloride	1.374	62	36003	20.677	ug/l	97
5) Bromomethane	1.605	94	24367	22.880	ug/l	99
6) Chloroethane	1.691	64	22424	22.114	ug/l	99
7) Trichlorofluoromethane	1.892	101	49246	20.492	ug/l	99
8) Diethyl Ether	2.136	74	19555	21.198	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	27362	20.148	ug/l	99
10) 1,1-Dichloroethene	2.319	96	27977	20.437	ug/l	98
11) Methyl Iodide	2.453	142	31130	20.752	ug/l	99
12) Methyl Acetate	2.697	43	91708	21.480	ug/l	100
13) Acrolein	2.233	56	30991	82.858	ug/l	98
14) Acrylonitrile	3.062	53	111298	106.582	ug/l	99
15) Acetone	2.374	58	32829	86.489	ug/l	98
16) Carbon Disulfide	2.514	76	85407	20.600	ug/l	98
17) Allyl chloride	2.666	41	56713	20.869	ug/l	97
18) Methylene Chloride	2.788	84	33336	20.544	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	32980	21.301	ug/l	98
20) Diisopropyl ether	3.757	45	109271	21.129	ug/l	99
21) 1,1-Dichloroethane	3.611	63	59952	20.850	ug/l	100
22) cis-1,2-Dichloroethene	4.489	96	36755	20.484	ug/l	99
23) tert-Butyl Alcohol	2.953	59	60528	104.703	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	104827	20.787	ug/l	98
25) Chloroform	5.093	83	60126	20.834	ug/l	97
26) Cyclohexane	5.471	56	54546	20.959	ug/l #	99
29) 1,1-Dichloropropene	5.696	75	45684	19.960	ug/l	99
30) 2-Butanone	4.550	43	164173	95.269	ug/l	100
31) 2,2-Dichloropropane	4.471	77	49318	18.846	ug/l	100
32) 1,1,1-Trichloroethane	5.385	97	52988	20.030	ug/l	98
33) Carbon Tetrachloride	5.678	117	43685	19.604	ug/l	96
34) Benzene	6.038	78	132936	19.938	ug/l	97
35) Methacrylonitrile	4.916	41	30119	19.731	ug/l	96
36) 1,2-Dichloroethane	6.086	62	49498	20.233	ug/l	98
37) Trichloroethene	7.123	130	33569	19.837	ug/l	98
38) Methylcyclohexane	7.379	83	57126	20.031	ug/l	98
39) 1,2-Dichloropropane	7.434	63	34853	19.821	ug/l	99
40) Dibromomethane	7.580	93	24863	20.012	ug/l	98
41) Bromodichloromethane	7.824	83	47341	19.834	ug/l	98
42) Vinyl Acetate	3.721	43	412803	100.575	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.709	43	60232	20.316	ug/l	99
44) Isopropyl Acetate	6.336	43	94049	20.123	ug/l	100
45) 1,4-Dioxane	7.653	88	19608	410.976	ug/l	95
46) Methyl methacrylate	7.690	41	54646	20.450	ug/l	99
47) n-amyl Acetate	10.842	43	75491	19.084	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	52898	19.113	ug/l	96
49) cis-1,3-Dichloropropene	8.366	75	56988	19.960	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	34290	20.317	ug/l	98
51) Ethyl methacrylate	9.116	69	41888	19.827	ug/l	96
52) 1,3-Dichloropropane	9.305	76	58786	20.313	ug/l	99
53) Dibromochloromethane	9.519	129	35162	19.399	ug/l	97
54) 1,2-Dibromoethane	9.610	107	37438	20.228	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	131703	98.352	ug/l	99
56) Bromoform	10.799	173	24268	18.551	ug/l	100
58) 4-Methyl-2-Pentanone	8.568	43	316095	100.646	ug/l	99
59) 2-Hexanone	9.427	43	250198	97.051	ug/l	100
61) Tetrachloroethene	9.275	164	26830	19.925	ug/l	96
62) Toluene	8.720	91	145400	19.774	ug/l	100
64) Chlorobenzene	10.080	112	88292	19.740	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	31720	19.692	ug/l	98
66) Ethyl Benzene	10.195	91	163420	19.518	ug/l	96
67) m/p-Xylenes	10.299	106	121462	39.258	ug/l	99
68) o-Xylene	10.640	106	58709	19.589	ug/l	99
69) Styrene	10.653	104	86366	19.472	ug/l	100
70) Isopropylbenzene	10.964	105	157184	19.603	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	58630	19.586	ug/l	97
72) 1,2,3-Trichloropropane	11.238	75	48946m	19.323	ug/l	
73) Bromobenzene	11.195	156	35749	19.582	ug/l	98
74) n-propylbenzene	11.305	91	191623	19.505	ug/l	99
75) 2-Chlorotoluene	11.360	91	113322	19.661	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	135593	19.629	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	17753	17.688	ug/l	97
78) 4-Chlorotoluene	11.451	91	131847	19.456	ug/l	99
79) tert-butylbenzene	11.713	119	128596	19.577	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	135281	19.567	ug/l	99
81) sec-Butylbenzene	11.890	105	163440	19.682	ug/l	99
82) p-Isopropyltoluene	12.006	119	136237	19.358	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	68648	19.649	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	67989	18.966	ug/l	99
85) n-Butylbenzene	12.329	91	129645	18.654	ug/l	99
86) Hexachloroethane	12.536	117	24594	18.443	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	66542	19.807	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	14504	18.946	ug/l	99
89) 1,2,4-Trichlorobenzene	13.585	180	41712	18.727	ug/l	96
90) Hexachlorobutadiene	13.725	225	14312	17.995	ug/l	96
91) Naphthalene	13.774	128	157837	19.214	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	41926	19.433	ug/l	99

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

