

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030624\
 Data File : VX040595.D
 Acq On : 06 Mar 2024 10:04
 Operator : JC/MD
 Sample : VX0306WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0306WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/07/2024
 Supervised By : Mahesh Dadoda 03/07/2024

Quant Time: Mar 07 04:33:00 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X030524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 05 13:21:29 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.891	128	15346	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	89139	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	84917	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	46934	30.622	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.067%			
60) 4-Bromofluorobenzene	11.079	95	45203	31.034	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 103.433%			
63) Toluene-d8	8.647	98	111909	29.821	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	21329	20.492	ug/l	97
3) Chloromethane	1.294	50	21671	20.321	ug/l	95
4) Vinyl Chloride	1.374	62	24252	21.042	ug/l	95
5) Bromomethane	1.605	94	17013	24.169	ug/l	95
6) Chloroethane	1.685	64	14767	21.808	ug/l	97
7) Trichlorofluoromethane	1.886	101	34492	19.656	ug/l	96
8) Diethyl Ether	2.136	74	11523	19.340	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.325	101	20117	20.929	ug/l	94
10) 1,1-Dichloroethene	2.319	96	18833	20.580	ug/l	98
11) Methyl Iodide	2.453	142	21380	19.317	ug/l	90
12) Methyl Acetate	2.703	43	29553	19.605	ug/l	95
13) Acrolein	2.233	56	24507	86.235	ug/l	97
14) Acrylonitrile	3.062	53	59507	100.250	ug/l	98
15) Acetone	2.380	58	16530	97.424	ug/l #	66
16) Carbon Disulfide	2.508	76	50483	20.072	ug/l	98
17) Allyl chloride	2.666	41	33872	20.057	ug/l	92
18) Methylene Chloride	2.788	84	21074	20.170	ug/l	99
19) trans-1,2-Dichloroethene	3.087	96	20023	20.041	ug/l	92
20) Diisopropyl ether	3.764	45	66563	19.708	ug/l	92
21) 1,1-Dichloroethane	3.605	63	39619	20.385	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	23329	20.107	ug/l	97
23) tert-Butyl Alcohol	2.959	59	27017	96.333	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	66506	19.692	ug/l	93
25) Chloroform	5.093	83	41940	19.716	ug/l	94
26) Cyclohexane	5.464	56	31283	19.945	ug/l #	94
29) 1,1-Dichloropropene	5.690	75	30261	19.613	ug/l	98
30) 2-Butanone	4.550	43	91485	97.166	ug/l #	95
31) 2,2-Dichloropropane	4.471	77	34128	20.494	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	37218	19.143	ug/l	97
33) Carbon Tetrachloride	5.678	117	31785	19.431	ug/l	95
34) Benzene	6.037	78	81884	19.659	ug/l	99
35) Methacrylonitrile	4.916	41	18384	19.020	ug/l	91
36) 1,2-Dichloroethane	6.086	62	38057	19.761	ug/l	96
37) Trichloroethene	7.123	130	21938	19.600	ug/l	98
38) Methylcyclohexane	7.379	83	33692	20.279	ug/l	98
39) 1,2-Dichloropropane	7.427	63	21599	20.366	ug/l	99
40) Dibromomethane	7.580	93	16862	20.239	ug/l	98
41) Bromodichloromethane	7.824	83	33365	20.130	ug/l #	99
42) Vinyl Acetate	3.721	43	315207	97.235	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	34232	19.305	ug/l	99
44) Isopropyl Acetate	6.336	43	54273	19.175	ug/l	94
45) 1,4-Dioxane	7.653	88	11354	390.238	ug/l	95
46) Methyl methacrylate	7.690	41	28197	20.057	ug/l	91
47) n-amyl Acetate	10.842	43	46440	19.037	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	34532	19.712	ug/l	93
49) cis-1,3-Dichloropropene	8.366	75	35527	19.908	ug/l	91
50) 1,1,2-Trichloroethane	9.147	97	22431	20.269	ug/l	94
51) Ethyl methacrylate	9.116	69	33564	19.264	ug/l	97
52) 1,3-Dichloropropane	9.305	76	38098	20.175	ug/l	99
53) Dibromochloromethane	9.519	129	24559	19.467	ug/l	99
54) 1,2-Dibromoethane	9.610	107	23364	19.080	ug/l	97
55) 2-Chloroethyl vinyl ether	8.238	63	85547	96.418	ug/l	99
56) Bromoform	10.799	173	17331	19.368	ug/l #	97
58) 4-Methyl-2-Pentanone	8.568	43	183877	97.244	ug/l	98
59) 2-Hexanone	9.427	43	144207	94.417	ug/l	97
61) Tetrachloroethene	9.275	164	20936	20.772	ug/l	95
62) Toluene	8.714	91	93262	19.941	ug/l	99
64) Chlorobenzene	10.079	112	57989	20.287	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.165	131	20817	19.093	ug/l	99
66) Ethyl Benzene	10.195	91	107021	19.846	ug/l	97
67) m/p-Xylenes	10.299	106	80235	40.293	ug/l	98
68) o-Xylene	10.640	106	39013	20.351	ug/l	98
69) Styrene	10.653	104	63607	19.749	ug/l	97
70) Isopropylbenzene	10.963	105	105620	20.391	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	36051	19.853	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	30966m	18.953	ug/l	
73) Bromobenzene	11.195	156	24170	19.711	ug/l	97
74) n-propylbenzene	11.305	91	132336	20.686	ug/l	99
75) 2-Chlorotoluene	11.366	91	76737	20.213	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	90147	19.768	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	9208	18.134	ug/l	68
78) 4-Chlorotoluene	11.451	91	91362	20.174	ug/l	99
79) tert-butylbenzene	11.713	119	86115	20.233	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	89864	20.001	ug/l	95
81) sec-Butylbenzene	11.890	105	112659	20.048	ug/l	99
82) p-Isopropyltoluene	12.006	119	91610	19.917	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	49531	20.759	ug/l	96
84) 1,4-Dichlorobenzene	12.043	146	48935	20.055	ug/l	99
85) n-Butylbenzene	12.329	91	89976	20.103	ug/l	99
86) Hexachloroethane	12.536	117	13741	17.121	ug/l	87
87) 1,2-Dichlorobenzene	12.335	146	46671	20.129	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	8677	17.871	ug/l	99
89) 1,2,4-Trichlorobenzene	13.585	180	31956	20.469	ug/l	99
90) Hexachlorobutadiene	13.725	225	12610	19.976	ug/l	95
91) Naphthalene	13.774	128	98680	19.378	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	30706	19.948	ug/l	99

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

