

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012523\
 Data File : VX033883.D
 Acq On : 25 Jan 2023 12:01
 Operator : JC/MD
 Sample : VX0125WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0125WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/26/2023
 Supervised By : Semsettin Yesilyurt 01/26/2023

Quant Time: Jan 26 05:12:02 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 18 14:40:07 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	14359	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	99484	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	107752	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	32140	28.923	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.400%		
60) 4-Bromofluorobenzene	11.079	95	58211	30.219	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.733%		
63) Toluene-d8	8.647	98	104374	30.361	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.200%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	30155	22.923	ug/l	98
3) Chloromethane	1.294	50	32035	21.656	ug/l	100
4) Vinyl Chloride	1.374	62	31781	21.888	ug/l	99
5) Bromomethane	1.618	94	20037	21.407	ug/l	99
6) Chloroethane	1.691	64	16765	21.586	ug/l	96
7) Trichlorofluoromethane	1.892	101	46138	21.491	ug/l	96
8) Diethyl Ether	2.130	74	18083	22.348	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	29226	22.496	ug/l	99
10) 1,1-Dichloroethene	2.319	96	27183	21.300	ug/l	94
11) Methyl Iodide	2.453	142	38680	20.091	ug/l	99
12) Methyl Acetate	2.703	43	45057	20.233	ug/l	96
13) Acrolein	2.239	56	29080	116.751	ug/l	98
14) Acrylonitrile	3.062	53	74407	102.557	ug/l	100
15) Acetone	2.392	58	23352	107.042	ug/l	96
16) Carbon Disulfide	2.514	76	65007	20.779	ug/l	97
17) Allyl chloride	2.666	41	46639	20.248	ug/l	97
18) Methylene Chloride	2.788	84	30174	21.000	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	29468	21.449	ug/l	95
20) Diisopropyl ether	3.757	45	93789	20.772	ug/l	89
21) 1,1-Dichloroethane	3.605	63	51311	20.767	ug/l	100
22) cis-1,2-Dichloroethene	4.489	96	34447	21.339	ug/l	98
23) tert-Butyl Alcohol	2.995	59	24305m	96.946	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	86033	20.361	ug/l	97
25) Chloroform	5.086	83	53181	21.401	ug/l	96
26) Cyclohexane	5.471	56	48078	21.352	ug/l #	100
29) 1,1-Dichloropropene	5.690	75	39467	20.654	ug/l	98
30) 2-Butanone	4.562	43	102292	96.894	ug/l	99
31) 2,2-Dichloropropane	4.471	77	36280	20.019	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	44468	20.209	ug/l	99
33) Carbon Tetrachloride	5.678	117	40485	20.556	ug/l	93
34) Benzene	6.037	78	118313	20.862	ug/l	98
35) Methacrylonitrile	4.916	41	22074	19.201	ug/l	96
36) 1,2-Dichloroethane	6.086	62	39598	19.851	ug/l	100
37) Trichloroethene	7.123	130	34936	21.813	ug/l	100
38) Methylcyclohexane	7.379	83	50735	22.067	ug/l	97
39) 1,2-Dichloropropane	7.428	63	29530	21.270	ug/l	99
40) Dibromomethane	7.580	93	20711	20.988	ug/l	92
41) Bromodichloromethane	7.824	83	39455	20.956	ug/l	98
42) Vinyl Acetate	3.721	43	349300	98.472	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	39395	19.089	ug/l	99
44) Isopropyl Acetate	6.336	43	60342	19.229	ug/l	98
45) 1,4-Dioxane	7.708	88	12914m	398.197	ug/l	
46) Methyl methacrylate	7.690	41	30840	19.355	ug/l	96
47) n-amyl Acetate	10.842	43	49310	18.628	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	38714	19.518	ug/l	95
49) cis-1,3-Dichloropropene	8.366	75	44793	20.006	ug/l	92
50) 1,1,2-Trichloroethane	9.153	97	30086	20.552	ug/l	97
51) Ethyl methacrylate	9.116	69	43829	20.209	ug/l	92
52) 1,3-Dichloropropane	9.305	76	50923	20.641	ug/l	99
53) Dibromochloromethane	9.519	129	33642	21.042	ug/l	100
54) 1,2-Dibromoethane	9.610	107	32449	20.520	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	94283	92.592	ug/l	99
56) Bromoform	10.799	173	25976	20.934	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	196992	101.710	ug/l	97
59) 2-Hexanone	9.427	43	145705	100.124	ug/l	96
61) Tetrachloroethene	9.275	164	32354	22.803	ug/l	97
62) Toluene	8.714	91	130588	21.666	ug/l	100
64) Chlorobenzene	10.079	112	85594	21.302	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	32244	21.550	ug/l	99
66) Ethyl Benzene	10.195	91	146193	21.194	ug/l	99
67) m/p-Xylenes	10.299	106	118768	43.601	ug/l	95
68) o-Xylene	10.640	106	57810	21.401	ug/l	100
69) Styrene	10.653	104	95716	21.542	ug/l	98
70) Isopropylbenzene	10.963	105	150821	21.676	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	44569	21.363	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	39914m	20.998	ug/l	
73) Bromobenzene	11.195	156	40874	21.691	ug/l	99
74) n-propylbenzene	11.305	91	169801	21.483	ug/l	99
75) 2-Chlorotoluene	11.366	91	102211	21.739	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	126242	21.877	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	10964	18.772	ug/l	97
78) 4-Chlorotoluene	11.451	91	116153	21.959	ug/l	99
79) tert-butylbenzene	11.713	119	128808	21.809	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	125171	21.879	ug/l	99
81) sec-Butylbenzene	11.890	105	157982	21.982	ug/l	100
82) p-Isopropyltoluene	12.006	119	137828	22.139	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	75945	22.307	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	75614	22.159	ug/l	99
85) n-Butylbenzene	12.329	91	108831	21.494	ug/l	100
86) Hexachloroethane	12.536	117	20831	21.168	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	72920	22.220	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	8462	19.819	ug/l	97
89) 1,2,4-Trichlorobenzene	13.591	180	50927	22.302	ug/l	99
90) Hexachlorobutadiene	13.725	225	24495	22.877	ug/l	98
91) Naphthalene	13.774	128	140775	21.032	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	50496	22.547	ug/l	99

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

