

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040723\
 Data File : VX034967.D
 Acq On : 07 Apr 2023 13:18
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

Quant Time: Apr 08 00:00:08 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 28 09:11:00 2023
 Response via : Initial Calibration

04/10/2023
 Supervised By :Mahesh
 Dadoda

04/10/2023

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

Internal Standards						
1) Bromochloromethane	4.891	128	29331	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	6.763	114	187754	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	204361	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	82107	29.134	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	97.100%
60) 4-Bromofluorobenzene	11.079	95	123309	30.197	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	100.667%
63) Toluene-d8	8.647	98	207384	29.861	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.533%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	64659	23.243	ug/l	95
3) Chloromethane	1.294	50	70585	19.568	ug/l	96
4) Vinyl Chloride	1.374	62	68957	19.376	ug/l	96
5) Bromomethane	1.611	94	38272	16.349	ug/l	99
6) Chloroethane	1.691	64	39141	16.900	ug/l	96
7) Trichlorofluoromethane	1.886	101	99292	17.515	ug/l	99
8) Diethyl Ether	2.130	74	39108	19.162	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	58579	20.368	ug/l	97
10) 1,1-Dichloroethene	2.318	96	54384	18.680	ug/l	98
11) Methyl Iodide	2.453	142	54927	14.815	ug/l	98
12) Methyl Acetate	2.703	43	130759	20.281	ug/l	99
13) Acrolein	2.233	56	70211	93.908	ug/l	99
14) Acrylonitrile	3.062	53	177017	99.707	ug/l	99
15) Acetone	2.386	58	53754	111.525	ug/l	93
16) Carbon Disulfide	2.514	76	124424	16.708	ug/l	100
17) Allyl chloride	2.666	41	108411	19.243	ug/l	97
18) Methylene Chloride	2.788	84	65364	19.059	ug/l	99
19) trans-1,2-Dichloroethene	3.093	96	58842	18.470	ug/l	90
20) Diisopropyl ether	3.757	45	224456	19.447	ug/l	95
21) 1,1-Dichloroethane	3.611	63	118056	19.129	ug/l	100
22) cis-1,2-Dichloroethene	4.489	96	69590	18.755	ug/l	98
23) tert-Butyl Alcohol	2.989	59	76769m	96.106	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	211326	19.533	ug/l	99
25) Chloroform	5.092	83	120957	19.269	ug/l	98
26) Cyclohexane	5.464	56	102769	19.002	ug/l #	100
29) 1,1-Dichloropropene	5.690	75	88112	20.404	ug/l	97
30) 2-Butanone	4.556	43	263858	109.564	ug/l	99
31) 2,2-Dichloropropane	4.477	77	89925	20.534	ug/l	98
32) 1,1,1-Trichloroethane	5.385	97	102050	20.144	ug/l	100
33) Carbon Tetrachloride	5.678	117	88109	21.073	ug/l	98
34) Benzene	6.037	78	253470	20.198	ug/l	99
35) Methacrylonitrile	4.916	41	54711	20.756	ug/l	99
36) 1,2-Dichloroethane	6.086	62	106603	21.666	ug/l	100
37) Trichloroethene	7.123	130	64572	20.218	ug/l	94
38) Methylcyclohexane	7.379	83	95037	20.144	ug/l	97
39) 1,2-Dichloropropane	7.427	63	67495	20.691	ug/l	94
40) Dibromomethane	7.580	93	46139	20.591	ug/l	99
41) Bromodichloromethane	7.824	83	87176	20.654	ug/l #	96
42) Vinyl Acetate	3.721	43	822388	104.674	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	100394	21.495	ug/l	99
44) Isopropyl Acetate	6.336	43	160172	20.258	ug/l	99
45) 1,4-Dioxane	7.689	88	34313	438.036	ug/l	95
46) Methyl methacrylate	7.689	41	79913	20.743	ug/l	95
47) n-amyl Acetate	10.841	43	133759	19.459	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	88770	19.303	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	100327	19.858	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	65881	21.104	ug/l	99
51) Ethyl methacrylate	9.116	69	102350	20.201	ug/l	97
52) 1,3-Dichloropropane	9.305	76	115780	20.995	ug/l	100
53) Dibromochloromethane	9.518	129	60629	19.632	ug/l	99
54) 1,2-Dibromoethane	9.610	107	66953	20.051	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	281164	105.450	ug/l	99
56) Bromoform	10.799	173	39460	18.531	ug/l	97
58) 4-Methyl-2-Pentanone	8.573	43	506960	108.197	ug/l	99
59) 2-Hexanone	9.427	43	382394	108.394	ug/l	99
61) Tetrachloroethene	9.275	164	57030	20.711	ug/l	97
62) Toluene	8.720	91	277222	20.746	ug/l	100
64) Chlorobenzene	10.079	112	168332	20.456	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	59426	20.201	ug/l	98
66) Ethyl Benzene	10.195	91	309257	20.779	ug/l	99
67) m/p-Xylenes	10.299	106	233743	41.276	ug/l	99
68) o-Xylene	10.640	106	114492	20.444	ug/l	98
69) Styrene	10.652	104	190705	20.656	ug/l	99
70) Isopropylbenzene	10.963	105	300847	20.757	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	99549	20.896	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	83657m	19.290	ug/l	
73) Bromobenzene	11.195	156	71528	20.549	ug/l	95
74) n-propylbenzene	11.305	91	347072	20.571	ug/l	100
75) 2-Chlorotoluene	11.366	91	218502	20.773	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	253354	20.766	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	21896	16.440	ug/l	85
78) 4-Chlorotoluene	11.451	91	250924	20.808	ug/l	100
79) tert-butylbenzene	11.713	119	236243	20.284	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	252827	20.853	ug/l	98
81) sec-Butylbenzene	11.890	105	289087	20.484	ug/l	98
82) p-Isopropyltoluene	12.006	119	241449	20.274	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	132260	20.121	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	135500	20.527	ug/l	100
85) n-Butylbenzene	12.329	91	205494	20.021	ug/l	100
86) Hexachloroethane	12.536	117	35591	18.247	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	132737	20.637	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	20889	20.065	ug/l	96
89) 1,2,4-Trichlorobenzene	13.591	180	77224	20.014	ug/l	99
90) Hexachlorobutadiene	13.725	225	33422	22.461	ug/l	100
91) Naphthalene	13.774	128	279731	20.519	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	78673	20.396	ug/l	98

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

