

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010723\
 Data File : VX033649.D
 Acq On : 06 Jan 2023 23:50
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Quant Time: Jan 07 05:51:28 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X010723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jan 07 05:49:19 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 01/09/2023
 Supervised By : Mahesh Dadoda 01/09/2023

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

Internal Standards						
1) Bromochloromethane	4.897	128	16483	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	110544	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	122732	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	38905	27.012	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	90.033%	#	
60) 4-Bromofluorobenzene	11.079	95	68497	30.312	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	101.033%		
63) Toluene-d8	8.647	98	118716	29.316	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.733%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	84784	64.526	ug/l	99
3) Chloromethane	1.294	50	92867	68.062	ug/l	99
4) Vinyl Chloride	1.374	62	86762	58.220	ug/l	98
5) Bromomethane	1.617	94	44141	42.319	ug/l	96
6) Chloroethane	1.697	64	46360	44.458	ug/l	96
7) Trichlorofluoromethane	1.892	101	129530	44.717	ug/l	98
8) Diethyl Ether	2.136	74	46337	52.785	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	80500	56.294	ug/l	98
10) 1,1-Dichloroethene	2.325	96	79371	58.796	ug/l	97
11) Methyl Iodide	2.453	142	127748	76.592	ug/l	97
12) Methyl Acetate	2.709	43	137093	64.565	ug/l	100
13) Acrolein	2.245	56	90626	304.179	ug/l	99
14) Acrylonitrile	3.068	53	223428	292.824	ug/l	99
15) Acetone	2.404	58	57694	253.128	ug/l	84
16) Carbon Disulfide	2.514	76	210691	57.060	ug/l	98
17) Allyl chloride	2.666	41	146142	60.794	ug/l	92
18) Methylene Chloride	2.788	84	88696	53.187	ug/l	97
19) trans-1,2-Dichloroethene	3.093	96	85854	51.340	ug/l	94
20) Diisopropyl ether	3.757	45	291645	56.843	ug/l	90
21) 1,1-Dichloroethane	3.611	63	156162	52.708	ug/l	100
22) cis-1,2-Dichloroethene	4.489	96	98357	50.486	ug/l	99
23) tert-Butyl Alcohol	3.038	59	85610m	267.881	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	271576	51.898	ug/l	99
25) Chloroform	5.092	83	159142	48.311	ug/l	97
26) Cyclohexane	5.470	56	145548	55.365	ug/l #	100
29) 1,1-Dichloropropene	5.696	75	119180	52.844	ug/l	98
30) 2-Butanone	4.568	43	316768	296.259	ug/l #	98
31) 2,2-Dichloropropane	4.477	77	103482	45.542	ug/l	100
32) 1,1,1-Trichloroethane	5.385	97	139804	49.285	ug/l	99
33) Carbon Tetrachloride	5.678	117	125297	48.471	ug/l	96
34) Benzene	6.037	78	347328	53.765	ug/l	100
35) Methacrylonitrile	4.922	41	71519	62.698	ug/l	94
36) 1,2-Dichloroethane	6.086	62	125682	51.248	ug/l	99
37) Trichloroethene	7.129	130	98978	53.918	ug/l	99
38) Methylcyclohexane	7.379	83	148917	55.389	ug/l	99
39) 1,2-Dichloropropane	7.433	63	88790	54.592	ug/l	98
40) Dibromomethane	7.580	93	62538	51.140	ug/l	99
41) Bromodichloromethane	7.824	83	122537	49.747	ug/l	99
42) Vinyl Acetate	3.721	43	1140423	302.125	ug/l	99

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43) Ethyl Acetate	4.714	43	129301	63.728	ug/l	99
44) Isopropyl Acetate	6.342	43	202382	61.053	ug/l	100
45) 1,4-Dioxane	7.738	88	43198	1129.199	ug/l #	1
46) Methyl methacrylate	7.690	41	102647	61.487	ug/l	99
47) n-amyl Acetate	10.841	43	178527	63.716	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	126444	51.216	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	140865	52.683	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	89678	52.853	ug/l	98
51) Ethyl methacrylate	9.116	69	139525	56.776	ug/l	99
52) 1,3-Dichloropropane	9.305	76	151988	54.400	ug/l	100
53) Dibromochloromethane	9.518	129	100778	50.729	ug/l	98
54) 1,2-Dibromoethane	9.610	107	97032	52.518	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	334322	285.198	ug/l	99
56) Bromoform	10.799	173	78980	54.277	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	630825	304.659	ug/l	99
59) 2-Hexanone	9.433	43	459763	296.114	ug/l	99
61) Tetrachloroethene	9.275	164	88274	53.570	ug/l	99
62) Toluene	8.720	91	383743	51.513	ug/l	97
64) Chlorobenzene	10.079	112	248709	52.622	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	94664	51.320	ug/l	99
66) Ethyl Benzene	10.195	91	435650	52.018	ug/l	99
67) m/p-Xylenes	10.299	106	344258	104.588	ug/l	100
68) o-Xylene	10.640	106	168448	52.537	ug/l	100
69) Styrene	10.652	104	280814	52.799	ug/l	99
70) Isopropylbenzene	10.963	105	441945	52.234	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	133266	52.945	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	121866m	54.561	ug/l	
73) Bromobenzene	11.195	156	117628	55.408	ug/l	98
74) n-propylbenzene	11.305	91	506239	52.297	ug/l	99
75) 2-Chlorotoluene	11.366	91	300830	51.764	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	370125	52.163	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	37369	51.894	ug/l	89
78) 4-Chlorotoluene	11.457	91	339833	51.346	ug/l	100
79) tert-butylbenzene	11.713	119	379435	53.618	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	364567	52.291	ug/l	98
81) sec-Butylbenzene	11.890	105	458318	53.846	ug/l	100
82) p-Isopropyltoluene	12.006	119	396906	54.532	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	213400	54.977	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	211825	54.172	ug/l	99
85) n-Butylbenzene	12.335	91	324044	53.517	ug/l	99
86) Hexachloroethane	12.536	117	64103	50.885	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	207631	54.584	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.945	75	28077	52.166	ug/l	96
89) 1,2,4-Trichlorobenzene	13.585	180	143512	59.161	ug/l	99
90) Hexachlorobutadiene	13.725	225	66323	63.236	ug/l	97
91) Naphthalene	13.774	128	426272	55.404	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	144684	59.764	ug/l	100

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

