

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030524\
 Data File : VX040591.D
 Acq On : 05 Mar 2024 16:24
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/06/2024
 Supervised By : Mahesh Dadoda 03/06/2024

Quant Time: Mar 06 00:14:47 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	4.897	128	15445	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	84032	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	82687	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	44549	28.880	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.267%		
60) 4-Bromofluorobenzene	11.079	95	40306	28.418	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	94.733%		
63) Toluene-d8	8.647	98	109637	30.003	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.000%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	22307	21.295	ug/l	99
3) Chloromethane	1.294	50	21836	20.344	ug/l	98
4) Vinyl Chloride	1.374	62	23764	20.487	ug/l	99
5) Bromomethane	1.605	94	16756	23.652	ug/l	97
6) Chloroethane	1.685	64	13641	20.016	ug/l	97
7) Trichlorofluoromethane	1.886	101	35137	19.895	ug/l	94
8) Diethyl Ether	2.130	74	11856	19.772	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	20090	20.767	ug/l	93
10) 1,1-Dichloroethene	2.319	96	18427	20.007	ug/l	97
11) Methyl Iodide	2.453	142	21401	19.212	ug/l	97
12) Methyl Acetate	2.703	43	29840	19.668	ug/l	98
13) Acrolein	2.233	56	25942	90.700	ug/l	98
14) Acrylonitrile	3.056	53	59779	100.063	ug/l	99
15) Acetone	2.374	58	16531	96.805	ug/l	69
16) Carbon Disulfide	2.508	76	50165	19.818	ug/l	97
17) Allyl chloride	2.660	41	33909	19.950	ug/l	84
18) Methylene Chloride	2.788	84	21575	20.517	ug/l	93
19) trans-1,2-Dichloroethene	3.093	96	20146	20.035	ug/l	97
20) Diisopropyl ether	3.757	45	66461	19.552	ug/l	98
21) 1,1-Dichloroethane	3.605	63	39260	20.071	ug/l	97
22) cis-1,2-Dichloroethene	4.483	96	23391	20.031	ug/l	94
23) tert-Butyl Alcohol	2.953	59	26617	94.298	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	68455	20.139	ug/l	94
25) Chloroform	5.086	83	43215	20.185	ug/l	96
26) Cyclohexane	5.464	56	32359	20.498	ug/l #	98
29) 1,1-Dichloropropene	5.684	75	31297	21.517	ug/l	97
30) 2-Butanone	4.550	43	91211	102.763	ug/l	99
31) 2,2-Dichloropropane	4.477	77	33713	21.475	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	38668	21.098	ug/l	97
33) Carbon Tetrachloride	5.678	117	31795	20.619	ug/l	98
34) Benzene	6.031	78	82475	21.004	ug/l	96
35) Methacrylonitrile	4.922	41	18483	20.284	ug/l	94
36) 1,2-Dichloroethane	6.080	62	38519	21.217	ug/l	96
37) Trichloroethene	7.123	130	22720	21.532	ug/l	97
38) Methylcyclohexane	7.379	83	34966	22.325	ug/l	99
39) 1,2-Dichloropropane	7.428	63	21943	21.948	ug/l	100
40) Dibromomethane	7.580	93	16811	21.404	ug/l	97
41) Bromodichloromethane	7.818	83	31680	20.275	ug/l	97
42) Vinyl Acetate	3.715	43	317027	103.740	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	35290	21.111	ug/l	99
44) Isopropyl Acetate	6.336	43	55236	20.701	ug/l #	76
45) 1,4-Dioxane	7.653	88	11489	418.876	ug/l	96
46) Methyl methacrylate	7.690	41	27954	21.093	ug/l	94
47) n-amyl Acetate	10.842	43	46451	20.199	ug/l	97
48) t-1,3-Dichloropropene	8.976	75	33970	20.570	ug/l	96
49) cis-1,3-Dichloropropene	8.366	75	36251	21.548	ug/l	92
50) 1,1,2-Trichloroethane	9.153	97	22182	21.262	ug/l	99
51) Ethyl methacrylate	9.110	69	34462	20.982	ug/l	97
52) 1,3-Dichloropropane	9.305	76	38404	21.573	ug/l	99
53) Dibromochloromethane	9.519	129	23248	19.548	ug/l	100
54) 1,2-Dibromoethane	9.610	107	24234	20.993	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	84503	101.030	ug/l	99
56) Bromoform	10.799	173	17048	20.210	ug/l #	95
58) 4-Methyl-2-Pentanone	8.568	43	184800	100.368	ug/l	99
59) 2-Hexanone	9.427	43	139633	93.888	ug/l	96
61) Tetrachloroethene	9.275	164	21010	21.408	ug/l	88
62) Toluene	8.720	91	92923	20.404	ug/l	100
64) Chlorobenzene	10.079	112	57861	20.788	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	20920	19.705	ug/l	98
66) Ethyl Benzene	10.195	91	107736	20.518	ug/l	99
67) m/p-Xylenes	10.299	106	79122	40.805	ug/l	94
68) o-Xylene	10.640	106	38612	20.686	ug/l	97
69) Styrene	10.653	104	63488	20.244	ug/l	96
70) Isopropylbenzene	10.963	105	106640	21.143	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	33060	18.697	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	28858m	18.139	ug/l	
73) Bromobenzene	11.195	156	23430	19.623	ug/l	90
74) n-propylbenzene	11.305	91	122178	19.613	ug/l	100
75) 2-Chlorotoluene	11.366	91	70604	19.099	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	83503	18.805	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	9400	19.012	ug/l	80
78) 4-Chlorotoluene	11.451	91	81360	18.450	ug/l	99
79) tert-butylbenzene	11.713	119	79134	19.094	ug/l	96
80) 1,2,4-Trimethylbenzene	11.750	105	85544	19.553	ug/l	97
81) sec-Butylbenzene	11.890	105	104084	19.021	ug/l	98
82) p-Isopropyltoluene	12.006	119	85154	19.012	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	44072	18.969	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	44949	18.919	ug/l	98
85) n-Butylbenzene	12.335	91	80686	18.513	ug/l	99
86) Hexachloroethane	12.536	117	15184	19.429	ug/l	95
87) 1,2-Dichlorobenzene	12.335	146	42344	18.755	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	9225	19.512	ug/l	98
89) 1,2,4-Trichlorobenzene	13.591	180	30534	20.086	ug/l	98
90) Hexachlorobutadiene	13.725	225	12600	20.499	ug/l	98
91) Naphthalene	13.774	128	97568	19.676	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	31220	20.828	ug/l	96

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

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