

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030624\
 Data File : VX040593.D
 Acq On : 06 Mar 2024 09:09
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone
 03/07/2024

Supervised By :Mahesh
 Dadoda
 03/07/2024

Quant Time: Mar 07 04:31:18 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	16368	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	95152	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	87973	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	51084	31.249	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.167%			
60) 4-Bromofluorobenzene	11.079	95	46828	31.032	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 103.433%			
63) Toluene-d8	8.647	98	119442	30.723	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.400%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	21915	19.741	ug/l	99
3) Chloromethane	1.294	50	22034	19.371	ug/l	95
4) Vinyl Chloride	1.374	62	23981	19.508	ug/l	98
5) Bromomethane	1.605	94	16575	22.077	ug/l	97
6) Chloroethane	1.685	64	14770	20.451	ug/l	100
7) Trichlorofluoromethane	1.886	101	35089	18.748	ug/l	97
8) Diethyl Ether	2.130	74	11587	18.233	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.325	101	18788	18.326	ug/l	95
10) 1,1-Dichloroethene	2.319	96	16486	16.890	ug/l	93
11) Methyl Iodide	2.447	142	21446	18.166	ug/l	97
12) Methyl Acetate	2.697	43	30072	18.703	ug/l	96
13) Acrolein	2.233	56	23595	77.842	ug/l	98
14) Acrylonitrile	3.056	53	59477	93.943	ug/l	99
15) Acetone	2.373	58	17067	94.308	ug/l	71
16) Carbon Disulfide	2.508	76	51940	19.362	ug/l	97
17) Allyl chloride	2.660	41	34140	18.954	ug/l	84
18) Methylene Chloride	2.788	84	21426	19.226	ug/l	97
19) trans-1,2-Dichloroethene	3.087	96	20851	19.567	ug/l	95
20) Diisopropyl ether	3.757	45	67811	18.824	ug/l	96
21) 1,1-Dichloroethane	3.605	63	40218	19.401	ug/l	98
22) cis-1,2-Dichloroethene	4.483	96	23608	19.077	ug/l	95
23) tert-Butyl Alcohol	2.953	59	25134	84.023	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	68526	19.023	ug/l	96
25) Chloroform	5.086	83	42879	18.899	ug/l	98
26) Cyclohexane	5.464	56	32019	19.139	ug/l #	96
29) 1,1-Dichloropropene	5.690	75	31716	19.257	ug/l	87
30) 2-Butanone	4.550	43	89114	88.667	ug/l	99
31) 2,2-Dichloropropane	4.471	77	33500	18.845	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	38141	18.378	ug/l	97
33) Carbon Tetrachloride	5.672	117	32643	18.695	ug/l	98
34) Benzene	6.031	78	84156	18.928	ug/l #	95
35) Methacrylonitrile	4.910	41	19026	18.440	ug/l	97
36) 1,2-Dichloroethane	6.080	62	38054	18.511	ug/l	96
37) Trichloroethene	7.123	130	23247	19.457	ug/l	100
38) Methylcyclohexane	7.372	83	34070	19.211	ug/l	97
39) 1,2-Dichloropropane	7.421	63	22073	19.498	ug/l	96
40) Dibromomethane	7.580	93	16651	18.723	ug/l	92
41) Bromodichloromethane	7.818	83	34064	19.253	ug/l	99
42) Vinyl Acetate	3.715	43	314634	90.925	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	34392	18.170	ug/l	100
44) Isopropyl Acetate	6.330	43	53376	17.666	ug/l	96
45) 1,4-Dioxane	7.653	88	11217	361.166	ug/l	97
46) Methyl methacrylate	7.690	41	28272	18.839	ug/l	96
47) n-amyl Acetate	10.841	43	45518	17.480	ug/l	97
48) t-1,3-Dichloropropene	8.976	75	34694	18.553	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	36285	19.048	ug/l	93
50) 1,1,2-Trichloroethane	9.147	97	21857	18.502	ug/l	95
51) Ethyl methacrylate	9.116	69	34299	18.442	ug/l	94
52) 1,3-Dichloropropane	9.305	76	38244	18.973	ug/l	98
53) Dibromochloromethane	9.518	129	24971	18.543	ug/l	100
54) 1,2-Dibromoethane	9.610	107	24583	18.807	ug/l	97
55) 2-Chloroethyl vinyl ether	8.238	63	91306	96.406	ug/l	99
56) Bromoform	10.799	173	18132	18.983	ug/l #	98
58) 4-Methyl-2-Pentanone	8.567	43	183246	93.544	ug/l	98
59) 2-Hexanone	9.427	43	144705	91.452	ug/l	96
61) Tetrachloroethene	9.268	164	21603	20.689	ug/l	98
62) Toluene	8.714	91	94470	19.498	ug/l	99
64) Chlorobenzene	10.079	112	57988	19.582	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.159	131	22005	19.482	ug/l	97
66) Ethyl Benzene	10.189	91	108377	19.400	ug/l	98
67) m/p-Xylenes	10.299	106	81597	39.553	ug/l	97
68) o-Xylene	10.640	106	38244	19.257	ug/l	94
69) Styrene	10.652	104	64383	19.296	ug/l	97
70) Isopropylbenzene	10.963	105	106337	19.816	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	35933	19.101	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	32181m	19.012	ug/l	
73) Bromobenzene	11.195	156	24976	19.661	ug/l	94
74) n-propylbenzene	11.305	91	132569	20.003	ug/l	99
75) 2-Chlorotoluene	11.360	91	77950	19.820	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	92218	19.520	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	9246	17.577	ug/l	78
78) 4-Chlorotoluene	11.451	91	91581	19.520	ug/l	98
79) tert-butylbenzene	11.713	119	85776	19.453	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	90617	19.468	ug/l	99
81) sec-Butylbenzene	11.890	105	112586	19.339	ug/l	99
82) p-Isopropyltoluene	12.006	119	93374	19.595	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	48189	19.495	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	48178	19.059	ug/l	99
85) n-Butylbenzene	12.329	91	88945	19.182	ug/l	98
86) Hexachloroethane	12.536	117	15711	18.895	ug/l	89
87) 1,2-Dichlorobenzene	12.335	146	46680	19.434	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.939	75	9444	18.775	ug/l	99
89) 1,2,4-Trichlorobenzene	13.585	180	31178	19.277	ug/l	97
90) Hexachlorobutadiene	13.725	225	12744	19.487	ug/l	96
91) Naphthalene	13.774	128	97918	18.561	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	30588	19.181	ug/l	99

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

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