

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051524\
 Data File : VX041533.D
 Acq On : 15 May 2024 12:20
 Operator : JC/MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/16/2024
 Supervised By : Mahesh Dadoda 05/16/2024

Quant Time: May 16 04:57:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 16 04:55:13 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	29944	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	170034	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	157112	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	70094	29.725	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	99.100%	
60) 4-Bromofluorobenzene	11.079	95	68944	28.110	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	93.700%	
63) Toluene-d8	8.647	98	201664	29.944	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	99.800%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	74183	47.365	ug/l	100
3) Chloromethane	1.294	50	78527	45.786	ug/l	99
4) Vinyl Chloride	1.374	62	85193	47.180	ug/l	97
5) Bromomethane	1.599	94	55020	47.906	ug/l	94
6) Chloroethane	1.666	64	42036m	46.865	ug/l	
7) Trichlorofluoromethane	1.867	101	128155	46.758	ug/l	96
8) Diethyl Ether	2.136	74	49197	48.065	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	68677	43.209	ug/l	98
10) 1,1-Dichloroethene	2.306	96	68008	44.391	ug/l	94
11) Methyl Iodide	2.447	142	84508	46.313	ug/l	98
12) Methyl Acetate	2.709	43	95772	41.524	ug/l	96
13) Acrolein	2.239	56	66206	235.699	ug/l	98
14) Acrylonitrile	3.068	53	242777	239.322	ug/l	100
15) Acetone	2.392	58	58181	214.058	ug/l	97
16) Carbon Disulfide	2.501	76	152819	44.180	ug/l	98
17) Allyl chloride	2.660	41	117073	43.061	ug/l	99
18) Methylene Chloride	2.788	84	76764	42.129	ug/l	96
19) trans-1,2-Dichloroethene	3.087	96	85328	48.571	ug/l	99
20) Diisopropyl ether	3.763	45	279728	48.969	ug/l	96
21) 1,1-Dichloroethane	3.605	63	156436	48.795	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	104485	48.945	ug/l	98
23) tert-Butyl Alcohol	3.014	59	92406	211.540	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	279602	48.884	ug/l	99
25) Chloroform	5.092	83	166237	48.674	ug/l	98
26) Cyclohexane	5.464	56	126968	47.492	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	110483	49.120	ug/l	99
30) 2-Butanone	4.568	43	361408	242.078	ug/l	99
31) 2,2-Dichloropropane	4.471	77	131905	49.968	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	146549	48.558	ug/l	99
33) Carbon Tetrachloride	5.678	117	126399	48.948	ug/l	98
34) Benzene	6.037	78	347873	48.972	ug/l	98
35) Methacrylonitrile	4.928	41	76995	51.125	ug/l	97
36) 1,2-Dichloroethane	6.086	62	129946	49.022	ug/l	100
37) Trichloroethene	7.123	130	96477	48.746	ug/l	98
38) Methylcyclohexane	7.379	83	138277	48.417	ug/l	99
39) 1,2-Dichloropropane	7.427	63	80543	47.966	ug/l	98
40) Dibromomethane	7.580	93	63616	48.138	ug/l	99
41) Bromodichloromethane	7.824	83	122995	49.573	ug/l	100
42) Vinyl Acetate	3.721	43	1291328	249.300	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	137664	47.790	ug/l	99
44) Isopropyl Acetate	6.342	43	213512	49.033	ug/l	100
45) 1,4-Dioxane	7.671	88	46911	1004.552	ug/l	93
46) Methyl methacrylate	7.696	41	107686	49.704	ug/l	98
47) n-amyl Acetate	10.841	43	197007	49.891	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	124680	50.040	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	135458	50.193	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	90391	49.167	ug/l	96
51) Ethyl methacrylate	9.116	69	146947	49.659	ug/l	97
52) 1,3-Dichloropropane	9.311	76	146672	48.281	ug/l	100
53) Dibromochloromethane	9.518	129	104625	50.017	ug/l	99
54) 1,2-Dibromoethane	9.610	107	95295	48.881	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	354399	245.364	ug/l	100
56) Bromoform	10.799	173	84015	50.115	ug/l	99
58) 4-Methyl-2-Pentanone	8.580	43	681641	237.450	ug/l	99
59) 2-Hexanone	9.433	43	555516	242.912	ug/l	98
61) Tetrachloroethene	9.275	164	95096	49.472	ug/l	94
62) Toluene	8.720	91	384326	49.161	ug/l	100
64) Chlorobenzene	10.079	112	261680	49.279	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	92925	49.442	ug/l	99
66) Ethyl Benzene	10.195	91	433267	49.910	ug/l	99
67) m/p-Xylenes	10.299	106	346498	102.074	ug/l	100
68) o-Xylene	10.640	106	169632	49.644	ug/l	99
69) Styrene	10.652	104	287497	50.181	ug/l	99
70) Isopropylbenzene	10.963	105	400665	46.404	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	146819	49.499	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	135823m	51.904	ug/l	
73) Bromobenzene	11.195	156	124788	49.187	ug/l	99
74) n-propylbenzene	11.305	91	488204	50.144	ug/l	99
75) 2-Chlorotoluene	11.366	91	301905	49.380	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	367916	49.922	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	39682	47.197	ug/l	88
78) 4-Chlorotoluene	11.451	91	345412	49.603	ug/l	98
79) tert-butylbenzene	11.713	119	390381	49.769	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	369773	50.058	ug/l	99
81) sec-Butylbenzene	11.890	105	460759	50.270	ug/l	100
82) p-Isopropyltoluene	12.006	119	407505	50.789	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	224941	49.437	ug/l	100
84) 1,4-Dichlorobenzene	12.042	146	228527	49.707	ug/l	99
85) n-Butylbenzene	12.329	91	326168	50.519	ug/l	100
86) Hexachloroethane	12.536	117	67281	49.799	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	228495	49.201	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	32314	49.607	ug/l	99
89) 1,2,4-Trichlorobenzene	13.585	180	159715	51.183	ug/l	99
90) Hexachlorobutadiene	13.725	225	75019	49.278	ug/l	98
91) Naphthalene	13.774	128	483328	51.823	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	152185	47.735	ug/l	100

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

