

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032824\
 Data File : VX040826.D
 Acq On : 28 Mar 2024 16:25
 Operator : JC/MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/29/2024
 Supervised By : Mahesh Dadoda 03/29/2024

Quant Time: Mar 29 04:52:27 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 29 04:49:13 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.898	128	3505	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	28746	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	35392	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	18076	30.091	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.300%			
60) 4-Bromofluorobenzene	11.079	95	23110	29.891	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.633%			
63) Toluene-d8	8.647	98	42973	30.972	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.233%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	30091	49.038	ug/l	98
3) Chloromethane	1.301	50	26885	47.995	ug/l	100
4) Vinyl Chloride	1.374	62	29203	50.590	ug/l	97
5) Bromomethane	1.605	94	18984	52.063	ug/l	96
6) Chloroethane	1.685	64	17925	49.097	ug/l	100
7) Trichlorofluoromethane	1.886	101	47304	47.264	ug/l	99
8) Diethyl Ether	2.136	74	15589	49.957	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	26805	47.876	ug/l	97
10) 1,1-Dichloroethene	2.319	96	25403	48.410	ug/l	92
11) Methyl Iodide	2.453	142	35163	49.023	ug/l	92
12) Methyl Acetate	2.703	43	37352	49.583	ug/l	98
13) Acrolein	2.240	56	19050	230.833	ug/l	97
14) Acrylonitrile	3.063	53	80875	246.591	ug/l	99
15) Acetone	2.380	58	23779	255.668	ug/l	74
16) Carbon Disulfide	2.514	76	70530	47.856	ug/l	98
17) Allyl chloride	2.666	41	47245	49.041	ug/l	90
18) Methylene Chloride	2.788	84	27834	49.295	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	26652	48.602	ug/l	96
20) Diisopropyl ether	3.758	45	93834	50.026	ug/l #	91
21) 1,1-Dichloroethane	3.611	63	51505	48.640	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	31006	48.124	ug/l	94
23) tert-Butyl Alcohol	2.959	59	37564	246.904	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	91159	48.819	ug/l	93
25) Chloroform	5.093	83	55702	48.530	ug/l	94
26) Cyclohexane	5.471	56	42291	48.046	ug/l #	96
29) 1,1-Dichloropropene	5.690	75	38443	47.926	ug/l	96
30) 2-Butanone	4.550	43	122630	241.625	ug/l	97
31) 2,2-Dichloropropane	4.477	77	44274	46.736	ug/l	96
32) 1,1,1-Trichloroethane	5.385	97	49989	47.201	ug/l	98
33) Carbon Tetrachloride	5.678	117	42806	46.825	ug/l	99
34) Benzene	6.038	78	107888	46.889	ug/l	98
35) Methacrylonitrile	4.916	41	26081	48.177	ug/l	96
36) 1,2-Dichloroethane	6.086	62	47162	47.174	ug/l #	94
37) Trichloroethene	7.123	130	27241	47.925	ug/l	94
38) Methylcyclohexane	7.379	83	45281	47.817	ug/l	98
39) 1,2-Dichloropropane	7.428	63	26061	47.673	ug/l	100
40) Dibromomethane	7.580	93	22007	48.552	ug/l	98
41) Bromodichloromethane	7.818	83	44747	48.629	ug/l	98
42) Vinyl Acetate	3.721	43	461887	246.222	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	47913	47.816	ug/l	98
44) Isopropyl Acetate	6.336	43	75579	47.888	ug/l	94
45) 1,4-Dioxane	7.653	88	14814	1002.431	ug/l	97
46) Methyl methacrylate	7.690	41	37608	49.495	ug/l	92
47) n-amyl Acetate	10.842	43	70237	49.423	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	44692	48.959	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	46358	49.156	ug/l	90
50) 1,1,2-Trichloroethane	9.153	97	27334	49.174	ug/l	99
51) Ethyl methacrylate	9.116	69	47705	49.137	ug/l	95
52) 1,3-Dichloropropane	9.305	76	46314	48.477	ug/l	98
53) Dibromochloromethane	9.519	129	32400	48.647	ug/l	99
54) 1,2-Dibromoethane	9.610	107	28820	46.843	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	114062	240.192	ug/l	99
56) Bromoform	10.799	173	22572	48.746	ug/l #	96
58) 4-Methyl-2-Pentanone	8.574	43	255722	255.833	ug/l	97
59) 2-Hexanone	9.427	43	204733	257.009	ug/l	96
61) Tetrachloroethene	9.275	164	23552	49.643	ug/l	96
62) Toluene	8.720	91	119325	49.850	ug/l	99
64) Chlorobenzene	10.080	112	75063	48.509	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.159	131	26428	48.734	ug/l	96
66) Ethyl Benzene	10.189	91	136441	48.493	ug/l	96
67) m/p-Xylenes	10.299	106	98268	95.135	ug/l	96
68) o-Xylene	10.640	106	49073	50.430	ug/l	95
69) Styrene	10.653	104	83909	49.695	ug/l	97
70) Isopropylbenzene	10.964	105	131295	49.530	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.214	83	45594	49.527	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	39244m	50.352	ug/l	
73) Bromobenzene	11.195	156	31325	49.558	ug/l	97
74) n-propylbenzene	11.305	91	164932	49.840	ug/l	98
75) 2-Chlorotoluene	11.360	91	98159	50.163	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	113325	49.404	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	15511	50.022	ug/l	85
78) 4-Chlorotoluene	11.451	91	116007	49.887	ug/l	98
79) tert-butylbenzene	11.713	119	108267	49.050	ug/l	96
80) 1,2,4-Trimethylbenzene	11.750	105	113937	50.123	ug/l	100
81) sec-Butylbenzene	11.890	105	137945	48.737	ug/l	99
82) p-Isopropyltoluene	12.006	119	118327	49.372	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	62197	50.676	ug/l	97
84) 1,4-Dichlorobenzene	12.043	146	62763	49.621	ug/l	99
85) n-Butylbenzene	12.329	91	119789	50.258	ug/l	97
86) Hexachloroethane	12.536	117	21118	49.595	ug/l	93
87) 1,2-Dichlorobenzene	12.335	146	59256	49.912	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.939	75	11697	49.366	ug/l	99
89) 1,2,4-Trichlorobenzene	13.585	180	40982	49.481	ug/l	98
90) Hexachlorobutadiene	13.725	225	15611	50.258	ug/l	99
91) Naphthalene	13.774	128	142607	51.481	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	38531	48.804	ug/l	98

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

