

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071423\
 Data File : VX036526.D
 Acq On : 13 Jul 2023 14:56
 Operator : JC/MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC050

Quant Time: Jul 14 02:26:35 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 14 02:24:12 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 07/14/2023
 Supervised By :Semsettin Yesilyurt 07/14/2023

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

Internal Standards						
1) Bromochloromethane	4.904	128	31682	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	184905	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	168528	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	79363	30.182	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	100.600%
60) 4-Bromofluorobenzene	11.079	95	80168	29.326	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	97.767%
63) Toluene-d8	8.653	98	232557	29.988	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.967%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	80876	45.689	ug/l	100
3) Chloromethane	1.300	50	118640	48.989	ug/l	95
4) Vinyl Chloride	1.374	62	118743	47.549	ug/l	100
5) Bromomethane	1.605	94	120263	47.024	ug/l	97
6) Chloroethane	1.685	64	81836	48.145	ug/l	96
7) Trichlorofluoromethane	1.886	101	189254	46.713	ug/l	99
8) Diethyl Ether	2.136	74	82888	49.239	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.325	101	82231	44.829	ug/l	97
10) 1,1-Dichloroethene	2.319	96	88825	47.911	ug/l	98
11) Methyl Iodide	2.453	142	112270	53.141	ug/l	99
12) Methyl Acetate	2.703	43	214256	49.165	ug/l	95
13) Acrolein	2.239	56	82072	229.568	ug/l	96
14) Acrylonitrile	3.062	53	302277	247.454	ug/l	97
15) Acetone	2.386	58	82725	239.202	ug/l	97
16) Carbon Disulfide	2.514	76	210398	46.775	ug/l	99
17) Allyl chloride	2.666	41	161473	49.096	ug/l	96
18) Methylene Chloride	2.788	84	108208	48.471	ug/l	97
19) trans-1,2-Dichloroethene	3.093	96	98026	48.372	ug/l	93
20) Diisopropyl ether	3.763	45	333524	49.756	ug/l	97
21) 1,1-Dichloroethane	3.611	63	191199	48.925	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	118369	48.533	ug/l	97
23) tert-Butyl Alcohol	2.971	59	134630m	238.359	ug/l	
24) Methyl tert-Butyl Ether	3.117	73	337104	49.999	ug/l	100
25) Chloroform	5.099	83	198659	49.169	ug/l	99
26) Cyclohexane	5.470	56	133598	44.560	ug/l #	100
29) 1,1-Dichloropropene	5.696	75	132001	47.341	ug/l	99
30) 2-Butanone	4.556	43	426963	243.194	ug/l	100
31) 2,2-Dichloropropane	4.477	77	146182	47.807	ug/l	99
32) 1,1,1-Trichloroethane	5.391	97	161216	48.658	ug/l	100
33) Carbon Tetrachloride	5.678	117	134511	47.588	ug/l	98
34) Benzene	6.044	78	420442	48.919	ug/l	99
35) Methacrylonitrile	4.922	41	89431	49.098	ug/l	97
36) 1,2-Dichloroethane	6.092	62	160186	48.572	ug/l	100
37) Trichloroethene	7.129	130	111032	49.085	ug/l	96
38) Methylcyclohexane	7.385	83	145761	44.935	ug/l	96
39) 1,2-Dichloropropane	7.434	63	113352	48.654	ug/l	96
40) Dibromomethane	7.586	93	82390	48.824	ug/l	99
41) Bromodichloromethane	7.824	83	149924	48.953	ug/l	100
42) Vinyl Acetate	3.721	43	1331222	251.035	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	169653	49.644	ug/l	99
44) Isopropyl Acetate	6.342	43	270586	49.653	ug/l	99
45) 1,4-Dioxane	7.671	88	60650	982.005	ug/l #	1
46) Methyl methacrylate	7.696	41	130080	49.939	ug/l	93
47) n-amyl Acetate	10.841	43	229858	49.725	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	167855	49.970	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	182390	50.265	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	111422	48.640	ug/l	97
51) Ethyl methacrylate	9.116	69	182829	50.836	ug/l	98
52) 1,3-Dichloropropane	9.311	76	189847	49.108	ug/l	98
53) Dibromochloromethane	9.525	129	115532	49.966	ug/l	99
54) 1,2-Dibromoethane	9.610	107	120931	50.253	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	467329	241.611	ug/l	100
56) Bromoform	10.799	173	80982	50.341	ug/l	100
58) 4-Methyl-2-Pentanone	8.574	43	859570	246.654	ug/l	99
59) 2-Hexanone	9.433	43	656429	247.596	ug/l	100
61) Tetrachloroethene	9.275	164	96300	47.708	ug/l	96
62) Toluene	8.720	91	458935	48.535	ug/l	99
64) Chlorobenzene	10.079	112	290487	49.346	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	106336	50.016	ug/l	99
66) Ethyl Benzene	10.195	91	501179	48.769	ug/l	97
67) m/p-Xylenes	10.305	106	387904	96.823	ug/l	100
68) o-Xylene	10.640	106	193686	48.712	ug/l	97
69) Styrene	10.659	104	317151	49.196	ug/l	99
70) Isopropylbenzene	10.963	105	478211	48.289	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	175647	48.595	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	166315m	49.884	ug/l	
73) Bromobenzene	11.201	156	120474	49.214	ug/l	98
74) n-propylbenzene	11.305	91	559753	48.023	ug/l	99
75) 2-Chlorotoluene	11.366	91	340788	48.079	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	409014	48.064	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	54873	49.890	ug/l	90
78) 4-Chlorotoluene	11.457	91	387460	48.010	ug/l	99
79) tert-butylbenzene	11.713	119	382067	47.303	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	408370	48.431	ug/l	99
81) sec-Butylbenzene	11.890	105	477568	46.975	ug/l	99
82) p-Isopropyltoluene	12.012	119	402753	47.617	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	218596	48.007	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	219553	48.388	ug/l	99
85) n-Butylbenzene	12.335	91	359400	46.679	ug/l	99
86) Hexachloroethane	12.536	117	67909	48.493	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	220115	48.194	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	39991	49.205	ug/l	97
89) 1,2,4-Trichlorobenzene	13.585	180	140104	48.645	ug/l	99
90) Hexachlorobutadiene	13.725	225	47995	45.878	ug/l	97
91) Naphthalene	13.774	128	500287	49.504	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	138007	47.471	ug/l	99

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

