

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012523\
 Data File : VX033879.D
 Acq On : 25 Jan 2023 10:05
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

Quant Time: Jan 26 05:06:42 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 18 14:40:07 2023
 Response via : Initial Calibration

01/26/2023
 Supervised By :Semsettin
 Yesilyurt

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

Internal Standards						
1) Bromochloromethane	4.891	128	15275	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	6.757	114	105184	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	114112	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	34051	28.806	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	96.033%
60) 4-Bromofluorobenzene	11.079	95	60462	29.638	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.800%
63) Toluene-d8	8.647	98	110503	30.352	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.167%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	31612	22.590	ug/l	100
3) Chloromethane	1.294	50	33443	21.252	ug/l	97
4) Vinyl Chloride	1.374	62	33191	21.488	ug/l	97
5) Bromomethane	1.618	94	21086	21.176	ug/l	99
6) Chloroethane	1.691	64	17872	21.631	ug/l	100
7) Trichlorofluoromethane	1.892	101	50476	22.102	ug/l	100
8) Diethyl Ether	2.130	74	18706	21.731	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.331	101	32059	23.196	ug/l	99
10) 1,1-Dichloroethene	2.319	96	30045	22.131	ug/l	97
11) Methyl Iodide	2.453	142	41225	20.129	ug/l	99
12) Methyl Acetate	2.703	43	51269	21.642	ug/l	97
13) Acrolein	2.239	56	36055	136.074	ug/l	97
14) Acrylonitrile	3.062	53	75744	98.140	ug/l	99
15) Acetone	2.392	58	32940	141.938	ug/l	99
16) Carbon Disulfide	2.514	76	74939	22.517	ug/l	99
17) Allyl chloride	2.666	41	55121	22.496	ug/l	98
18) Methylene Chloride	2.788	84	33601	21.982	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	31431	21.506	ug/l	94
20) Diisopropyl ether	3.757	45	98438	20.494	ug/l	89
21) 1,1-Dichloroethane	3.611	63	54520	20.742	ug/l	97
22) cis-1,2-Dichloroethene	4.483	96	36144	21.047	ug/l	98
23) tert-Butyl Alcohol	2.995	59	23725m	88.958	ug/l	
24) Methyl tert-Butyl Ether	3.105	73	93063	20.704	ug/l	98
25) Chloroform	5.086	83	56131	21.234	ug/l	96
26) Cyclohexane	5.464	56	50971	21.280	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	42038	20.807	ug/l	99
30) 2-Butanone	4.556	43	116194	104.098	ug/l #	97
31) 2,2-Dichloropropane	4.471	77	39264	20.491	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	47994	20.629	ug/l	99
33) Carbon Tetrachloride	5.672	117	43935	21.099	ug/l	95
34) Benzene	6.037	78	125068	20.858	ug/l	99
35) Methacrylonitrile	4.910	41	23907	19.668	ug/l	95
36) 1,2-Dichloroethane	6.086	62	42404	20.105	ug/l	98
37) Trichloroethene	7.123	130	37301	22.028	ug/l	95
38) Methylcyclohexane	7.379	83	54441	22.396	ug/l	97
39) 1,2-Dichloropropane	7.427	63	31102	21.188	ug/l	97
40) Dibromomethane	7.580	93	22195	21.273	ug/l	93
41) Bromodichloromethane	7.818	83	42785	21.493	ug/l	97
42) Vinyl Acetate	3.715	43	372371	99.287	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	41550	19.043	ug/l	100
44) Isopropyl Acetate	6.330	43	64073	19.312	ug/l	97
45) 1,4-Dioxane	7.708	88	12414	362.037	ug/l #	91
46) Methyl methacrylate	7.690	41	32551	19.322	ug/l	93
47) n-amyl Acetate	10.842	43	52455	18.742	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	42434	20.234	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	48389	20.440	ug/l	96
50) 1,1,2-Trichloroethane	9.147	97	32790	21.185	ug/l	98
51) Ethyl methacrylate	9.116	69	45612	19.891	ug/l	92
52) 1,3-Dichloropropane	9.305	76	53843	20.642	ug/l	98
53) Dibromochloromethane	9.519	129	35549	21.029	ug/l	98
54) 1,2-Dibromoethane	9.610	107	34724	20.769	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	101974	94.718	ug/l	99
56) Bromoform	10.799	173	27603	21.039	ug/l	99
58) 4-Methyl-2-Pentanone	8.568	43	202429	98.692	ug/l	96
59) 2-Hexanone	9.427	43	158878	103.091	ug/l	95
61) Tetrachloroethene	9.269	164	34972	23.274	ug/l	99
62) Toluene	8.714	91	138846	21.752	ug/l	100
64) Chlorobenzene	10.079	112	90955	21.374	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.159	131	34444	21.738	ug/l	99
66) Ethyl Benzene	10.195	91	155062	21.227	ug/l	98
67) m/p-Xylenes	10.299	106	125719	43.580	ug/l	95
68) o-Xylene	10.640	106	61383	21.457	ug/l	97
69) Styrene	10.653	104	100486	21.355	ug/l	98
70) Isopropylbenzene	10.963	105	158874	21.560	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	46881	21.219	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	42005m	20.866	ug/l	
73) Bromobenzene	11.195	156	42871	21.483	ug/l	99
74) n-propylbenzene	11.305	91	179577	21.453	ug/l	99
75) 2-Chlorotoluene	11.366	91	106252	21.339	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	132942	21.755	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	12798	20.691	ug/l	92
78) 4-Chlorotoluene	11.451	91	121143	21.626	ug/l	98
79) tert-butylbenzene	11.713	119	136589	21.837	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	130790	21.587	ug/l	100
81) sec-Butylbenzene	11.890	105	165263	21.713	ug/l	100
82) p-Isopropyltoluene	12.006	119	143551	21.773	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	78618	21.805	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	78718	21.783	ug/l	99
85) n-Butylbenzene	12.329	91	115632	21.564	ug/l	99
86) Hexachloroethane	12.536	117	23053	22.120	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	76247	21.939	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	8768	19.391	ug/l	95
89) 1,2,4-Trichlorobenzene	13.585	180	52827	21.845	ug/l	100
90) Hexachlorobutadiene	13.725	225	27062	23.866	ug/l	99
91) Naphthalene	13.774	128	149633	21.109	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	53500	22.556	ug/l	100

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

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