

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092823\
 Data File : VX037938.D
 Acq On : 28 Sep 2023 09:30
 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: Sep 29 04:20:48 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X092723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Sep 28 06:08:32 2023
 Response via : Initial Calibration

09/29/2023
 Supervised By :Semsettin
 Yesilyurt

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

Internal Standards						
1) Bromochloromethane	4.898	128	46554	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	259019	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	246981	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	102490	30.541	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.800%
60) 4-Bromofluorobenzene	11.079	95	120889	30.025	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	100.100%
63) Toluene-d8	8.647	98	324070	30.396	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.333%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.167	85	48254	19.773	ug/l	99
3) Chloromethane	1.295	50	50892	19.472	ug/l	97
4) Vinyl Chloride	1.374	62	56999	19.481	ug/l	96
5) Bromomethane	1.612	94	43970	19.508	ug/l	92
6) Chloroethane	1.691	64	38556	19.629	ug/l	97
7) Trichlorofluoromethane	1.892	101	95034	19.677	ug/l	99
8) Diethyl Ether	2.130	74	36245	20.342	ug/l	84
9) 1,1,2-Trichlorotrifluo...	2.331	101	48718	19.786	ug/l	99
10) 1,1-Dichloroethene	2.319	96	46559	19.317	ug/l	98
11) Methyl Iodide	2.453	142	63004	19.314	ug/l	98
12) Methyl Acetate	2.697	43	100491	20.512	ug/l	98
13) Acrolein	2.233	56	60688	107.346	ug/l	96
14) Acrylonitrile	3.063	53	139489	103.122	ug/l	97
15) Acetone	2.374	58	49496	126.503	ug/l	85
16) Carbon Disulfide	2.514	76	116887	19.873	ug/l #	95
17) Allyl chloride	2.666	41	73048	19.796	ug/l	94
18) Methylene Chloride	2.788	84	55689	19.277	ug/l	95
19) trans-1,2-Dichloroethene	3.093	96	52570	19.351	ug/l	94
20) Diisopropyl ether	3.758	45	157670	20.014	ug/l #	86
21) 1,1-Dichloroethane	3.605	63	93030	19.545	ug/l	100
22) cis-1,2-Dichloroethene	4.489	96	62125	19.260	ug/l	98
23) tert-Butyl Alcohol	2.947	59	60947	107.988	ug/l #	1
24) Methyl tert-Butyl Ether	3.111	73	167461	20.073	ug/l	97
25) Chloroform	5.093	83	102982	19.673	ug/l	98
26) Cyclohexane	5.471	56	78843	19.464	ug/l #	96
29) 1,1-Dichloropropene	5.696	75	73852	19.724	ug/l	98
30) 2-Butanone	4.550	43	199084	110.793	ug/l	96
31) 2,2-Dichloropropane	4.471	77	77008	20.416	ug/l	98
32) 1,1,1-Trichloroethane	5.385	97	88370	19.697	ug/l	97
33) Carbon Tetrachloride	5.672	117	78024	20.315	ug/l	96
34) Benzene	6.038	78	220392	19.704	ug/l	97
35) Methacrylonitrile	4.916	41	38171	20.205	ug/l	97
36) 1,2-Dichloroethane	6.086	62	79217	20.021	ug/l	99
37) Trichloroethene	7.123	130	59738	19.360	ug/l	95
38) Methylcyclohexane	7.379	83	94126	20.000	ug/l	95
39) 1,2-Dichloropropane	7.428	63	56305	19.677	ug/l	94
40) Dibromomethane	7.580	93	42899	20.317	ug/l	98
41) Bromodichloromethane	7.818	83	77540	20.114	ug/l	98
42) Vinyl Acetate	3.721	43	585719	103.402	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	69728	19.629	ug/l	99
44) Isopropyl Acetate	6.336	43	120490	20.503	ug/l	96
45) 1,4-Dioxane	7.659	88	30282	447.157	ug/l #	1
46) Methyl methacrylate	7.690	41	57437	20.560	ug/l	95
47) n-amyl Acetate	10.842	43	107503	19.443	ug/l	95
48) t-1,3-Dichloropropene	8.976	75	83953	20.047	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	89377	19.873	ug/l	94
50) 1,1,2-Trichloroethane	9.153	97	60856	20.168	ug/l	98
51) Ethyl methacrylate	9.116	69	87420	19.662	ug/l	94
52) 1,3-Dichloropropane	9.305	76	97974	20.241	ug/l	99
53) Dibromochloromethane	9.519	129	61873	19.896	ug/l	100
54) 1,2-Dibromoethane	9.610	107	65285	19.938	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	219654	101.348	ug/l	98
56) Bromoform	10.799	173	45145	19.301	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	378832	104.780	ug/l	95
59) 2-Hexanone	9.427	43	298869	108.849	ug/l	97
61) Tetrachloroethene	9.275	164	52589	20.008	ug/l	94
62) Toluene	8.720	91	255487	19.942	ug/l	99
64) Chlorobenzene	10.080	112	160767	20.116	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	58482	20.159	ug/l	98
66) Ethyl Benzene	10.195	91	284176	20.098	ug/l	98
67) m/p-Xylenes	10.299	106	222514	39.948	ug/l	98
68) o-Xylene	10.640	106	107054	19.847	ug/l	97
69) Styrene	10.653	104	178673	19.745	ug/l	98
70) Isopropylbenzene	10.964	105	286525	20.016	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.214	83	95651	20.274	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	86197m	20.808	ug/l	
73) Bromobenzene	11.195	156	71285	19.633	ug/l	93
74) n-propylbenzene	11.305	91	343593	20.091	ug/l	100
75) 2-Chlorotoluene	11.366	91	198654	19.841	ug/l	96
76) 1,3,5-Trimethylbenzene	11.451	105	245152	19.859	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	26274	20.026	ug/l	94
78) 4-Chlorotoluene	11.451	91	234463	19.962	ug/l	100
79) tert-butylbenzene	11.713	119	241471	19.874	ug/l	95
80) 1,2,4-Trimethylbenzene	11.750	105	244979	19.963	ug/l	98
81) sec-Butylbenzene	11.890	105	315222	20.174	ug/l	99
82) p-Isopropyltoluene	12.006	119	264860	20.191	ug/l	99
83) 1,3-Dichlorobenzene	11.970	146	140563	20.036	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	139947	19.686	ug/l	99
85) n-Butylbenzene	12.329	91	246678	20.099	ug/l	100
86) Hexachloroethane	12.536	117	41857	19.584	ug/l	94
87) 1,2-Dichlorobenzene	12.335	146	135578	19.614	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	19940	21.219	ug/l	87
89) 1,2,4-Trichlorobenzene	13.585	180	94360	20.064	ug/l	98
90) Hexachlorobutadiene	13.725	225	42012	20.334	ug/l	98
91) Naphthalene	13.774	128	290683	20.380	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	92210	20.140	ug/l	99

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

