

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072324\
 Data File : VX042457.D
 Acq On : 23 Jul 2024 08:46
 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 07/24/2024
 Supervised By : Mahesh Dadoda 07/24/2024

Quant Time: Jul 23 15:08:13 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071924W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 11:30:14 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	29887	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	164371	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	153597	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	63062	29.457	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	98.200%	
60) 4-Bromofluorobenzene	11.079	95	71228	29.805	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	99.333%	
63) Toluene-d8	8.647	98	201186	30.152	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	100.500%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	33063	18.456	ug/l	97
3) Chloromethane	1.301	50	33681	17.980	ug/l	99
4) Vinyl Chloride	1.374	62	31390	16.868	ug/l	99
5) Bromomethane	1.599	94	14893	15.942	ug/l	94
6) Chloroethane	1.679	64	19205	23.946	ug/l	98
7) Trichlorofluoromethane	1.886	101	47276	20.305	ug/l	96
8) Diethyl Ether	2.136	74	19304	19.769	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.325	101	33835	18.659	ug/l	98
10) 1,1-Dichloroethene	2.313	96	31289	17.955	ug/l	98
11) Methyl Iodide	2.447	142	32425	16.457	ug/l	98
12) Methyl Acetate	2.703	43	62514	21.827	ug/l	98
13) Acrolein	2.239	56	21899	60.868	ug/l	96
14) Acrylonitrile	3.062	53	105511	98.100	ug/l	97
15) Acetone	2.386	58	32983	103.096	ug/l	100
16) Carbon Disulfide	2.508	76	61926	17.977	ug/l	99
17) Allyl chloride	2.660	41	54390	19.616	ug/l	97
18) Methylene Chloride	2.788	84	36926	18.555	ug/l	92
19) trans-1,2-Dichloroethene	3.087	96	31607	17.956	ug/l	95
20) Diisopropyl ether	3.764	45	108734	18.610	ug/l	95
21) 1,1-Dichloroethane	3.605	63	61397	18.511	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	40050	18.169	ug/l	95
23) tert-Butyl Alcohol	2.965	59	44252	107.960	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	106438	18.300	ug/l	99
25) Chloroform	5.093	83	64284	18.753	ug/l	97
26) Cyclohexane	5.464	56	47252	17.202	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	40045	18.683	ug/l	97
30) 2-Butanone	4.556	43	151929	106.168	ug/l	100
31) 2,2-Dichloropropane	4.471	77	46394	18.828	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	53911	19.473	ug/l	98
33) Carbon Tetrachloride	5.666	117	46272	19.138	ug/l	96
34) Benzene	6.031	78	135651	19.275	ug/l	99
35) Methacrylonitrile	4.922	41	29168	20.655	ug/l	96
36) 1,2-Dichloroethane	6.086	62	45776	20.054	ug/l	98
37) Trichloroethene	7.123	130	36085	19.066	ug/l	94
38) Methylcyclohexane	7.373	83	50533	18.335	ug/l	100
39) 1,2-Dichloropropane	7.427	63	33865	19.574	ug/l	93
40) Dibromomethane	7.580	93	24223	19.397	ug/l	100
41) Bromodichloromethane	7.818	83	46195	19.723	ug/l	98
42) Vinyl Acetate	3.721	43	444543	96.016	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	51334	20.213	ug/l	100
44) Isopropyl Acetate	6.336	43	78550	19.689	ug/l	98
45) 1,4-Dioxane	7.659	88	17027	380.956	ug/l	96
46) Methyl methacrylate	7.690	41	38756	19.934	ug/l	96
47) n-amyl Acetate	10.841	43	66622	18.794	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	43957	18.825	ug/l	100
49) cis-1,3-Dichloropropene	8.366	75	51022	19.441	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	36484	19.922	ug/l	99
51) Ethyl methacrylate	9.116	69	53037	18.519	ug/l	99
52) 1,3-Dichloropropane	9.305	76	58623	19.706	ug/l	99
53) Dibromochloromethane	9.519	129	40065	19.908	ug/l	97
54) 1,2-Dibromoethane	9.610	107	37985	19.944	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	139375	100.404	ug/l	99
56) Bromoform	10.799	173	30799	18.990	ug/l	100
58) 4-Methyl-2-Pentanone	8.574	43	284805	105.211	ug/l	98
59) 2-Hexanone	9.427	43	218918	103.252	ug/l	98
61) Tetrachloroethene	9.269	164	38969	20.914	ug/l	94
62) Toluene	8.714	91	147730	19.238	ug/l	99
64) Chlorobenzene	10.079	112	99545	19.209	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	35415	18.992	ug/l	99
66) Ethyl Benzene	10.195	91	158336	18.921	ug/l	99
67) m/p-Xylenes	10.299	106	129098	38.586	ug/l	100
68) o-Xylene	10.640	106	62206	18.682	ug/l	99
69) Styrene	10.653	104	105932	18.916	ug/l	99
70) Isopropylbenzene	10.963	105	165588	19.505	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	57524	19.691	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	47465m	20.463	ug/l	
73) Bromobenzene	11.195	156	45849	18.898	ug/l	99
74) n-propylbenzene	11.305	91	181502	19.353	ug/l	99
75) 2-Chlorotoluene	11.366	91	113594	19.260	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	134543	18.970	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	15770	18.536	ug/l	98
78) 4-Chlorotoluene	11.451	91	125520	19.104	ug/l	99
79) tert-butylbenzene	11.713	119	141535	18.693	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	136299	19.098	ug/l	97
81) sec-Butylbenzene	11.890	105	171733	19.196	ug/l	99
82) p-Isopropyltoluene	12.006	119	145001	18.703	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	82691	18.975	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	81456	18.818	ug/l	99
85) n-Butylbenzene	12.335	91	112692	18.508	ug/l	99
86) Hexachloroethane	12.536	117	24546	18.620	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	82929	18.827	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.939	75	11862	19.820	ug/l	93
89) 1,2,4-Trichlorobenzene	13.591	180	52191	17.502	ug/l	99
90) Hexachlorobutadiene	13.725	225	27529	18.602	ug/l	99
91) Naphthalene	13.774	128	162579	18.283	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	55769	18.157	ug/l	97

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

