

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060723\
 Data File : VX036067.D
 Acq On : 07 Jun 2023 17:46
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/08/2023
 Supervised By : Mahesh Dadoda 06/08/2023

Quant Time: Jun 08 07:23:35 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X052323W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 23 11:36:37 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	35158	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	203978	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	189835	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	98393	33.682	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 112.267%#			
60) 4-Bromofluorobenzene	11.079	95	100509	31.553	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 105.167%			
63) Toluene-d8	8.647	98	254883	30.371	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.233%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	45679	25.407	ug/l	97
3) Chloromethane	1.294	50	42986	19.489	ug/l	95
4) Vinyl Chloride	1.374	62	42044	20.284	ug/l	95
5) Bromomethane	1.617	94	21952	15.743	ug/l	98
6) Chloroethane	1.691	64	28703	21.965	ug/l	95
7) Trichlorofluoromethane	1.892	101	67947	21.623	ug/l	98
8) Diethyl Ether	2.130	74	25425	19.461	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.331	101	40717	24.085	ug/l	98
10) 1,1-Dichloroethene	2.319	96	37147	21.078	ug/l	93
11) Methyl Iodide	2.453	142	26086	12.252	ug/l	96
12) Methyl Acetate	2.709	43	111419	22.374	ug/l	99
13) Acrolein	2.245	56	35676	90.627	ug/l	100
14) Acrylonitrile	3.068	53	133811	107.187	ug/l	98
15) Acetone	2.404	58	37443	100.274	ug/l	93
16) Carbon Disulfide	2.514	76	74350	19.439	ug/l	100
17) Allyl chloride	2.666	41	73944	20.797	ug/l	96
18) Methylene Chloride	2.788	84	45127	19.662	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	40982	20.628	ug/l	97
20) Diisopropyl ether	3.757	45	160231	20.875	ug/l	95
21) 1,1-Dichloroethane	3.611	63	85892	21.349	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	50239	20.436	ug/l	98
23) tert-Butyl Alcohol	3.032	59	51716m	113.488	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	154876	21.804	ug/l	96
25) Chloroform	5.092	83	92081	22.304	ug/l	100
26) Cyclohexane	5.470	56	67212	22.089	ug/l #	99
29) 1,1-Dichloropropene	5.696	75	62380	21.961	ug/l	98
30) 2-Butanone	4.568	43	194496	104.601	ug/l	99
31) 2,2-Dichloropropane	4.477	77	65727	21.538	ug/l	98
32) 1,1,1-Trichloroethane	5.385	97	76840	23.165	ug/l	99
33) Carbon Tetrachloride	5.678	117	60695	23.172	ug/l	95
34) Benzene	6.037	78	180868	20.184	ug/l	99
35) Methacrylonitrile	4.928	41	42523	21.431	ug/l	99
36) 1,2-Dichloroethane	6.086	62	78793	22.594	ug/l	99
37) Trichloroethene	7.123	130	45492	20.197	ug/l	94
38) Methylcyclohexane	7.379	83	65173	20.922	ug/l	94
39) 1,2-Dichloropropane	7.427	63	50006	20.732	ug/l	94
40) Dibromomethane	7.580	93	33728	20.676	ug/l	96
41) Bromodichloromethane	7.818	83	63651	21.584	ug/l #	99
42) Vinyl Acetate	3.721	43	547269	100.200	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	72837	20.540	ug/l	99
44) Isopropyl Acetate	6.336	43	117274	20.288	ug/l	98
45) 1,4-Dioxane	7.744	88	23683	431.372	ug/l #	59
46) Methyl methacrylate	7.696	41	57236	20.493	ug/l	97
47) n-amyl Acetate	10.841	43	96127	19.799	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	63900	19.586	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	70303	19.526	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	48905	20.954	ug/l	98
51) Ethyl methacrylate	9.116	69	73200	20.347	ug/l	97
52) 1,3-Dichloropropane	9.305	76	86103	21.170	ug/l	99
53) Dibromochloromethane	9.518	129	46017	21.500	ug/l	96
54) 1,2-Dibromoethane	9.610	107	49921	20.588	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	207892	108.889	ug/l	98
56) Bromoform	10.799	173	28547	20.575	ug/l	95
58) 4-Methyl-2-Pentanone	8.573	43	388550	105.376	ug/l	98
59) 2-Hexanone	9.427	43	290669	104.765	ug/l	99
61) Tetrachloroethene	9.275	164	37230	20.364	ug/l	91
62) Toluene	8.720	91	198563	20.311	ug/l	99
64) Chlorobenzene	10.079	112	125105	20.206	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	44254	20.445	ug/l	97
66) Ethyl Benzene	10.195	91	226059	20.676	ug/l	100
67) m/p-Xylenes	10.299	106	169993	41.077	ug/l	98
68) o-Xylene	10.640	106	84555	20.427	ug/l	95
69) Styrene	10.652	104	142386	20.842	ug/l	98
70) Isopropylbenzene	10.963	105	224572	21.255	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	78659	21.018	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	67093m	20.584	ug/l	
73) Bromobenzene	11.195	156	51490	20.059	ug/l	93
74) n-propylbenzene	11.305	91	259709	20.621	ug/l	99
75) 2-Chlorotoluene	11.366	91	162228	20.970	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	189842	21.155	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	16335	16.613	ug/l	90
78) 4-Chlorotoluene	11.451	91	186978	21.216	ug/l	99
79) tert-butylbenzene	11.713	119	181606	20.963	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	190193	21.090	ug/l	97
81) sec-Butylbenzene	11.890	105	226959	20.750	ug/l	99
82) p-Isopropyltoluene	12.006	119	189035	20.774	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	98906	20.358	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	100053	20.518	ug/l	99
85) n-Butylbenzene	12.329	91	160927	19.879	ug/l	100
86) Hexachloroethane	12.536	117	27743	19.361	ug/l	90
87) 1,2-Dichlorobenzene	12.335	146	98997	20.797	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	15478	21.640	ug/l	90
89) 1,2,4-Trichlorobenzene	13.585	180	53966	18.917	ug/l	99
90) Hexachlorobutadiene	13.725	225	22917	21.792	ug/l	99
91) Naphthalene	13.774	128	199834	20.242	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	54900	19.275	ug/l	98

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

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