

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061523\
 Data File : VX036165.D
 Acq On : 15 Jun 2023 12:56
 Operator : JC/MD
 Sample : VX0615WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0615WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/16/2023
 Supervised By : Mahesh Dadoda 06/16/2023

Quant Time: Jun 16 07:53:17 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	4.898	128	38088	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	206775	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	197857	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	106072	33.517	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 111.733%#			
60) 4-Bromofluorobenzene	11.079	95	106436	32.059	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 106.867%			
63) Toluene-d8	8.647	98	249070	28.475	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 94.933%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	43688	22.431	ug/l	99
3) Chloromethane	1.295	50	38316	16.036	ug/l	98
4) Vinyl Chloride	1.374	62	38786	17.273	ug/l	96
5) Bromomethane	1.618	94	23021	15.240	ug/l	96
6) Chloroethane	1.691	64	23706	16.746	ug/l	94
7) Trichlorofluoromethane	1.892	101	67139	19.723	ug/l	98
8) Diethyl Ether	2.130	74	24999	17.663	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.331	101	40677	22.210	ug/l	95
10) 1,1-Dichloroethene	2.319	96	35525	18.607	ug/l	92
11) Methyl Iodide	2.453	142	37238	16.145	ug/l	96
12) Methyl Acetate	2.703	43	109945	20.379	ug/l	98
13) Acrolein	2.239	56	46856	109.870	ug/l	99
14) Acrylonitrile	3.069	53	131580	97.292	ug/l	99
15) Acetone	2.398	58	38484	95.134	ug/l	94
16) Carbon Disulfide	2.514	76	74410	17.958	ug/l	100
17) Allyl chloride	2.666	41	72983	18.948	ug/l	98
18) Methylene Chloride	2.788	84	44544	17.915	ug/l	97
19) trans-1,2-Dichloroethene	3.093	96	37819	17.571	ug/l	91
20) Diisopropyl ether	3.757	45	155380	18.686	ug/l	97
21) 1,1-Dichloroethane	3.605	63	81681	18.741	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	48023	18.032	ug/l	95
23) tert-Butyl Alcohol	3.014	59	50540m	102.375	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	152865	19.865	ug/l	95
25) Chloroform	5.093	83	88345	19.753	ug/l	99
26) Cyclohexane	5.465	56	64297	19.506	ug/l #	97
29) 1,1-Dichloropropene	5.690	75	59623	20.707	ug/l	97
30) 2-Butanone	4.562	43	197032	104.532	ug/l	99
31) 2,2-Dichloropropane	4.477	77	67966	21.970	ug/l	95
32) 1,1,1-Trichloroethane	5.385	97	74775	22.238	ug/l	99
33) Carbon Tetrachloride	5.678	117	60005	22.599	ug/l	98
34) Benzene	6.038	78	168020	18.497	ug/l	99
35) Methacrylonitrile	4.916	41	41720	20.742	ug/l	97
36) 1,2-Dichloroethane	6.086	62	78353	22.164	ug/l	97
37) Trichloroethene	7.123	130	42817	18.752	ug/l	93
38) Methylcyclohexane	7.379	83	67681	21.433	ug/l	95
39) 1,2-Dichloropropane	7.428	63	45463	18.594	ug/l	99
40) Dibromomethane	7.580	93	33383	20.187	ug/l	94
41) Bromodichloromethane	7.818	83	63773	21.332	ug/l #	95
42) Vinyl Acetate	3.721	43	568835	102.740	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	72191	20.083	ug/l	100
44) Isopropyl Acetate	6.336	43	117548	20.061	ug/l	99
45) 1,4-Dioxane	7.708	88	20424m	366.980	ug/l	
46) Methyl methacrylate	7.690	41	59831	21.133	ug/l	97
47) n-amyl Acetate	10.842	43	99068	20.128	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	67097	20.288	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	72887	19.970	ug/l	95
50) 1,1,2-Trichloroethane	9.153	97	46948	19.844	ug/l	99
51) Ethyl methacrylate	9.116	69	71872	19.707	ug/l	93
52) 1,3-Dichloropropane	9.305	76	82425	19.992	ug/l	100
53) Dibromochloromethane	9.519	129	46230	21.307	ug/l	97
54) 1,2-Dibromoethane	9.610	107	48212	19.615	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	210923	108.983	ug/l	99
56) Bromoform	10.799	173	28883	20.535	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	383008	99.661	ug/l	99
59) 2-Hexanone	9.427	43	294148	101.720	ug/l	98
61) Tetrachloroethene	9.275	164	35742	18.757	ug/l	96
62) Toluene	8.720	91	184240	18.082	ug/l	99
64) Chlorobenzene	10.080	112	117350	18.185	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	41951	18.595	ug/l	98
66) Ethyl Benzene	10.195	91	215165	18.882	ug/l	99
67) m/p-Xylenes	10.299	106	161641	37.476	ug/l	97
68) o-Xylene	10.640	106	79926	18.525	ug/l	94
69) Styrene	10.653	104	132793	18.649	ug/l	97
70) Isopropylbenzene	10.964	105	214764	19.502	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	76437	19.596	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	74147m	21.826	ug/l	
73) Bromobenzene	11.195	156	48158	18.000	ug/l	89
74) n-propylbenzene	11.305	91	258062	19.660	ug/l	99
75) 2-Chlorotoluene	11.360	91	157995	19.595	ug/l	96
76) 1,3,5-Trimethylbenzene	11.451	105	184704	19.748	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	18468	18.021	ug/l	87
78) 4-Chlorotoluene	11.451	91	184283	20.062	ug/l	97
79) tert-butylbenzene	11.713	119	176141	19.508	ug/l	94
80) 1,2,4-Trimethylbenzene	11.750	105	186281	19.818	ug/l	96
81) sec-Butylbenzene	11.890	105	226795	19.895	ug/l	98
82) p-Isopropyltoluene	12.006	119	190019	20.036	ug/l	97
83) 1,3-Dichlorobenzene	11.969	146	94635	18.689	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	95715	18.833	ug/l	98
85) n-Butylbenzene	12.329	91	171180	20.289	ug/l	99
86) Hexachloroethane	12.536	117	29301	19.619	ug/l	88
87) 1,2-Dichlorobenzene	12.335	146	95002	19.149	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.939	75	17192	23.062	ug/l	87
89) 1,2,4-Trichlorobenzene	13.585	180	57627	19.381	ug/l	97
90) Hexachlorobutadiene	13.725	225	23531	21.468	ug/l	99
91) Naphthalene	13.774	128	202952	19.725	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	57736	19.448	ug/l	98

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

