

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052523\
 Data File : VX035878.D
 Acq On : 26 May 2023 02:03
 Operator : JC/MD
 Sample : VX0525WBSD02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0525WBSD02

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/26/2023
 Supervised By : Mahesh Dadoda 05/26/2023

Quant Time: May 26 09:22:20 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	4.891	128	31772	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	176927	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	157353	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	77712	29.437	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.133%		
60) 4-Bromofluorobenzene	11.079	95	77787	29.461	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.200%		
63) Toluene-d8	8.647	98	214800	30.878	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	102.933%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	37304	22.960	ug/l	97
3) Chloromethane	1.294	50	38290	19.210	ug/l	96
4) Vinyl Chloride	1.374	62	37838	20.200	ug/l	97
5) Bromomethane	1.611	94	23426	18.591	ug/l	97
6) Chloroethane	1.691	64	23747	20.109	ug/l	99
7) Trichlorofluoromethane	1.886	101	58949	20.759	ug/l	95
8) Diethyl Ether	2.130	74	22352	18.933	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.331	101	34139	22.346	ug/l	99
10) 1,1-Dichloroethene	2.319	96	31635	19.863	ug/l	99
11) Methyl Iodide	2.453	142	36466	18.953	ug/l	92
12) Methyl Acetate	2.709	43	88467	19.658	ug/l	99
13) Acrolein	2.239	56	33988	95.540	ug/l	96
14) Acrylonitrile	3.068	53	109390	96.963	ug/l	99
15) Acetone	2.398	58	31093	92.143	ug/l	89
16) Carbon Disulfide	2.514	76	60852	17.605	ug/l	97
17) Allyl chloride	2.666	41	62445	19.434	ug/l	97
18) Methylene Chloride	2.788	84	40389	19.473	ug/l	97
19) trans-1,2-Dichloroethene	3.093	96	34728	19.343	ug/l	97
20) Diisopropyl ether	3.757	45	137030	19.755	ug/l	97
21) 1,1-Dichloroethane	3.611	63	70914	19.505	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	42728	19.233	ug/l	97
23) tert-Butyl Alcohol	3.014	59	42631m	103.521	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	124037	19.323	ug/l	98
25) Chloroform	5.092	83	73441	19.685	ug/l	99
26) Cyclohexane	5.470	56	58896	21.419	ug/l #	99
29) 1,1-Dichloropropene	5.696	75	51048	20.719	ug/l	98
30) 2-Butanone	4.562	43	159634	98.978	ug/l	99
31) 2,2-Dichloropropane	4.477	77	43011	16.249	ug/l	96
32) 1,1,1-Trichloroethane	5.385	97	58710	20.406	ug/l	99
33) Carbon Tetrachloride	5.678	117	46016	20.254	ug/l	94
34) Benzene	6.037	78	154564	19.886	ug/l	96
35) Methacrylonitrile	4.922	41	33390	19.401	ug/l	98
36) 1,2-Dichloroethane	6.086	62	61308	20.268	ug/l	99
37) Trichloroethene	7.129	130	38099	19.501	ug/l	98
38) Methylcyclohexane	7.379	83	58351	21.596	ug/l	99
39) 1,2-Dichloropropane	7.427	63	41178	19.683	ug/l	98
40) Dibromomethane	7.580	93	27819	19.661	ug/l	98
41) Bromodichloromethane	7.824	83	48118	18.811	ug/l	98
42) Vinyl Acetate	3.721	43	460576	97.221	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	57403	18.663	ug/l #	78
44) Isopropyl Acetate	6.336	43	94917	18.931	ug/l	98
45) 1,4-Dioxane	7.726	88	21214	445.479	ug/l #	88
46) Methyl methacrylate	7.690	41	45424	18.751	ug/l	100
47) n-amyl Acetate	10.841	43	79609	18.904	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	49621	17.535	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	55959	17.918	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	40244	19.880	ug/l	98
51) Ethyl methacrylate	9.116	69	58340	18.695	ug/l	98
52) 1,3-Dichloropropane	9.305	76	70310	19.930	ug/l	100
53) Dibromochloromethane	9.519	129	33576	18.086	ug/l	99
54) 1,2-Dibromoethane	9.610	107	40223	19.125	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	166812	100.731	ug/l	99
56) Bromoform	10.799	173	20974	17.428	ug/l	96
58) 4-Methyl-2-Pentanone	8.574	43	309898	101.394	ug/l	100
59) 2-Hexanone	9.433	43	233818	101.671	ug/l	99
61) Tetrachloroethene	9.275	164	31899	21.050	ug/l	98
62) Toluene	8.720	91	164040	20.244	ug/l	99
64) Chlorobenzene	10.079	112	102300	19.934	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	34433	19.192	ug/l	98
66) Ethyl Benzene	10.195	91	184258	20.332	ug/l	100
67) m/p-Xylenes	10.299	106	138517	40.381	ug/l	100
68) o-Xylene	10.640	106	69731	20.323	ug/l	97
69) Styrene	10.652	104	111988	19.776	ug/l	99
70) Isopropylbenzene	10.963	105	184310	21.045	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	62694	20.210	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	55303m	20.470	ug/l	
73) Bromobenzene	11.195	156	41716	19.606	ug/l	97
74) n-propylbenzene	11.305	91	212350	20.341	ug/l	99
75) 2-Chlorotoluene	11.366	91	129104	20.133	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	150206	20.194	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	12633	15.500	ug/l	91
78) 4-Chlorotoluene	11.451	91	147440	20.183	ug/l	99
79) tert-butylbenzene	11.713	119	145169	20.216	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	150435	20.124	ug/l	98
81) sec-Butylbenzene	11.890	105	184698	20.372	ug/l	99
82) p-Isopropyltoluene	12.006	119	150957	20.014	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	80299	19.940	ug/l	100
84) 1,4-Dichlorobenzene	12.042	146	81640	20.198	ug/l	99
85) n-Butylbenzene	12.329	91	128918	19.213	ug/l	99
86) Hexachloroethane	12.536	117	20800	17.512	ug/l	92
87) 1,2-Dichlorobenzene	12.335	146	80409	20.379	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.939	75	11767	19.847	ug/l	90
89) 1,2,4-Trichlorobenzene	13.585	180	46595	19.705	ug/l	99
90) Hexachlorobutadiene	13.725	225	18109	20.775	ug/l	98
91) Naphthalene	13.774	128	166502	20.348	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	46220	19.577	ug/l	98

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

