

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX111022\
 Data File : VX032757.D
 Acq On : 11 Nov 2022 05:37
 Operator : JC/MD
 Sample : VX1110WBSD02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1110WBSD02

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/11/2022
 Supervised By : Mahesh Dadoda 11/11/2022

Quant Time: Nov 11 06:49:29 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X111022W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 11 05:24:06 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.910	128	11423	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	81007	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	88017	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	32938	29.889	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.633%
60) 4-Bromofluorobenzene	11.079	95	50640	30.078	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	100.267%
63) Toluene-d8	8.653	98	89231	30.040	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.133%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	21274	21.043	ug/l	99
3) Chloromethane	1.294	50	22003	21.932	ug/l	95
4) Vinyl Chloride	1.374	62	23896	21.066	ug/l	97
5) Bromomethane	1.611	94	20264	20.122	ug/l	97
6) Chloroethane	1.684	64	20670	23.070	ug/l #	87
7) Trichlorofluoromethane	1.886	101	45261	20.698	ug/l	100
8) Diethyl Ether	2.136	74	15182	21.473	ug/l	75
9) 1,1,2-Trichlorotrifluo...	2.331	101	23836	20.492	ug/l	98
10) 1,1-Dichloroethene	2.318	96	22393	20.151	ug/l	88
11) Methyl Iodide	2.453	142	24227	20.279	ug/l	97
12) Methyl Acetate	2.703	43	35286	21.436	ug/l #	86
13) Acrolein	2.239	56	24166	110.091	ug/l	97
14) Acrylonitrile	3.068	53	61468	104.166	ug/l	100
15) Acetone	2.386	58	16653	108.527	ug/l	75
16) Carbon Disulfide	2.514	76	54970	19.871	ug/l	98
17) Allyl chloride	2.666	41	35546	20.131	ug/l	89
18) Methylene Chloride	2.788	84	26071	20.343	ug/l	89
19) trans-1,2-Dichloroethene	3.093	96	25006	20.428	ug/l	87
20) Diisopropyl ether	3.757	45	78961	19.943	ug/l	92
21) 1,1-Dichloroethane	3.611	63	45528	20.484	ug/l	95
22) cis-1,2-Dichloroethene	4.489	96	28604	20.013	ug/l	90
23) tert-Butyl Alcohol	2.983	59	24307	126.862	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	80019	20.110	ug/l #	89
25) Chloroform	5.098	83	50323	20.300	ug/l	100
26) Cyclohexane	5.476	56	39829	20.520	ug/l #	82
29) 1,1-Dichloropropene	5.696	75	36656	20.403	ug/l	94
30) 2-Butanone	4.562	43	87853	104.873	ug/l #	90
31) 2,2-Dichloropropane	4.477	77	27250	17.735	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	45587	20.172	ug/l	94
33) Carbon Tetrachloride	5.678	117	39259	19.785	ug/l	98
34) Benzene	6.043	78	102720	20.292	ug/l	98
35) Methacrylonitrile	4.928	41	18804	19.819	ug/l	96
36) 1,2-Dichloroethane	6.086	62	41394	19.863	ug/l #	93
37) Trichloroethene	7.129	130	28229	19.933	ug/l	90
38) Methylcyclohexane	7.385	83	39964	19.853	ug/l	88
39) 1,2-Dichloropropane	7.427	63	25448	19.861	ug/l	97
40) Dibromomethane	7.580	93	19556	19.990	ug/l	99
41) Bromodichloromethane	7.824	83	37142	19.919	ug/l	97
42) Vinyl Acetate	3.721	43	321225	99.794	ug/l #	91

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	4.721	43	34982	20.759	ug/l	#	86
44) Isopropyl Acetate	6.342	43	57014	20.189	ug/l		95
45) 1,4-Dioxane	7.689	88	12580	463.774	ug/l	#	88
46) Methyl methacrylate	7.696	41	28588	20.109	ug/l		87
47) n-amyl Acetate	10.841	43	50124	19.966	ug/l		97
48) t-1,3-Dichloropropene	8.982	75	35751	18.689	ug/l		100
49) cis-1,3-Dichloropropene	8.366	75	38697	19.157	ug/l	#	85
50) 1,1,2-Trichloroethane	9.153	97	26896	19.996	ug/l		97
51) Ethyl methacrylate	9.116	69	39595	19.710	ug/l		79
52) 1,3-Dichloropropane	9.311	76	44762	20.355	ug/l		100
53) Dibromochloromethane	9.525	129	28120	19.223	ug/l		99
54) 1,2-Dibromoethane	9.610	107	29177	20.138	ug/l		99
55) 2-Chloroethyl vinyl ether	8.244	63	95515	98.388	ug/l		94
56) Bromoform	10.799	173	19794	18.900	ug/l		99
58) 4-Methyl-2-Pentanone	8.573	43	180858	104.967	ug/l	#	91
59) 2-Hexanone	9.433	43	136565	107.650	ug/l		90
61) Tetrachloroethene	9.275	164	24777	20.142	ug/l		94
62) Toluene	8.720	91	116368	20.330	ug/l		98
64) Chlorobenzene	10.079	112	72202	20.403	ug/l		96
65) 1,1,1,2-Tetrachloroethane	10.165	131	27507	20.404	ug/l		98
66) Ethyl Benzene	10.195	91	130281	20.289	ug/l		97
67) m/p-Xylenes	10.305	106	100499	40.223	ug/l		90
68) o-Xylene	10.646	106	49012	19.991	ug/l		89
69) Styrene	10.658	104	81139	19.907	ug/l		94
70) Isopropylbenzene	10.963	105	132649	20.261	ug/l		98
71) 1,1,2,2-Tetrachloroethane	11.213	83	40987	20.644	ug/l		99
72) 1,2,3-Trichloropropane	11.238	75	37010m	21.463	ug/l		
73) Bromobenzene	11.201	156	32553	20.468	ug/l		88
74) n-propylbenzene	11.305	91	151126	20.317	ug/l		94
75) 2-Chlorotoluene	11.366	91	92733	20.590	ug/l		91
76) 1,3,5-Trimethylbenzene	11.451	105	112688	20.361	ug/l		95
77) t-1,4-Dichloro-2-butene	11.018	75	9188	17.462	ug/l		84
78) 4-Chlorotoluene	11.457	91	105933	20.419	ug/l		92
79) tert-butylbenzene	11.713	119	108699	20.210	ug/l		94
80) 1,2,4-Trimethylbenzene	11.756	105	112991	20.880	ug/l		94
81) sec-Butylbenzene	11.890	105	132159	20.410	ug/l		95
82) p-Isopropyltoluene	12.012	119	112049	20.533	ug/l		94
83) 1,3-Dichlorobenzene	11.969	146	59993	20.560	ug/l		97
84) 1,4-Dichlorobenzene	12.042	146	60383	20.607	ug/l		99
85) n-Butylbenzene	12.335	91	90981	19.671	ug/l		95
86) Hexachloroethane	12.542	117	17418	19.443	ug/l		99
87) 1,2-Dichlorobenzene	12.335	146	59063	20.362	ug/l		98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	8606	20.431	ug/l		82
89) 1,2,4-Trichlorobenzene	13.591	180	35600	19.984	ug/l		98
90) Hexachlorobutadiene	13.725	225	14694	20.493	ug/l		98
91) Naphthalene	13.774	128	122756	20.416	ug/l		99
92) 1,2,3-Trichlorobenzene	13.963	180	36067	20.130	ug/l		98

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

