

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030322\
 Data File : VX027282.D
 Acq On : 03 Mar 2022 20:37
 Operator : JC/MD
 Sample : VX0303WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0303WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/04/2022
 Supervised By : Mahesh Dadoda 03/04/2022

Quant Time: Mar 04 02:41:38 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X030322W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 04 01:00:22 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.910	128	12032	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	64676	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	58271	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	24835	29.815	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	99.367%	
60) 4-Bromofluorobenzene	11.079	95	29693	31.455	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	104.833%	
63) Toluene-d8	8.653	98	76208	29.916	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	99.733%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.172	85	13526	17.561	ug/l	94
3) Chloromethane	1.300	50	11242	18.149	ug/l	97
4) Vinyl Chloride	1.380	62	10434	17.590	ug/l	98
5) Bromomethane	1.605	94	6597	20.695	ug/l	95
6) Chloroethane	1.691	64	6589	18.799	ug/l	98
7) Trichlorofluoromethane	1.892	101	17817	17.562	ug/l	95
8) Diethyl Ether	2.136	74	5789	17.918	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	12437	17.536	ug/l	99
10) 1,1-Dichloroethene	2.325	96	11727	17.020	ug/l	97
11) Methyl Iodide	2.459	142	13787	17.169	ug/l	99
12) Methyl Acetate	2.709	43	16235	18.110	ug/l	94
13) Acrolein	2.239	56	10451	73.291	ug/l	99
14) Acrylonitrile	3.068	53	37240	92.103	ug/l	99
15) Acetone	2.386	58	10140	87.369	ug/l	94
16) Carbon Disulfide	2.514	76	31475	17.204	ug/l	98
17) Allyl chloride	2.672	41	19991	17.456	ug/l	96
18) Methylene Chloride	2.794	84	13720	17.634	ug/l	98
19) trans-1,2-Dichloroethene	3.099	96	13358	17.924	ug/l	92
20) Diisopropyl ether	3.769	45	39549	17.964	ug/l	88
21) 1,1-Dichloroethane	3.617	63	22926	17.803	ug/l	99
22) cis-1,2-Dichloroethene	4.495	96	15491	18.099	ug/l	98
23) tert-Butyl Alcohol	2.965	59	14698	91.786	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	40972	17.917	ug/l	99
25) Chloroform	5.105	83	24111	17.568	ug/l	91
26) Cyclohexane	5.476	56	20689	17.842	ug/l #	98
29) 1,1-Dichloropropene	5.696	75	17760	17.963	ug/l	99
30) 2-Butanone	4.562	43	52336	93.771	ug/l	98
31) 2,2-Dichloropropane	4.483	77	16336	16.436	ug/l	97
32) 1,1,1-Trichloroethane	5.391	97	21777	18.135	ug/l	99
33) Carbon Tetrachloride	5.684	117	19218	17.545	ug/l	99
34) Benzene	6.050	78	53801	18.621	ug/l	97
35) Methacrylonitrile	4.928	41	10854	18.604	ug/l	95
36) 1,2-Dichloroethane	6.092	62	19040	18.092	ug/l	99
37) Trichloroethene	7.129	130	15762	18.056	ug/l	99
38) Methylcyclohexane	7.385	83	21966	17.934	ug/l	98
39) 1,2-Dichloropropane	7.433	63	13117	18.492	ug/l	97
40) Dibromomethane	7.586	93	9862	18.592	ug/l	98
41) Bromodichloromethane	7.824	83	18714	18.306	ug/l	99
42) Vinyl Acetate	3.727	43	171684	91.764	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	19643	18.572	ug/l	100
44) Isopropyl Acetate	6.348	43	29731	18.208	ug/l	98
45) 1,4-Dioxane	7.659	88	6889	373.921	ug/l	100
46) Methyl methacrylate	7.696	41	14795	18.264	ug/l	96
47) n-amyl Acetate	10.847	43	23987	17.824	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	17444	16.525	ug/l	98
49) cis-1,3-Dichloropropene	8.372	75	20506	17.681	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	13697	18.169	ug/l	97
51) Ethyl methacrylate	9.122	69	20664	17.670	ug/l	94
52) 1,3-Dichloropropane	9.311	76	22637	17.980	ug/l	98
53) Dibromochloromethane	9.525	129	14202	17.241	ug/l	100
54) 1,2-Dibromoethane	9.610	107	14931	18.265	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	49308	87.042	ug/l	99
56) Bromoform	10.799	173	9852	16.356	ug/l	99
58) 4-Methyl-2-Pentanone	8.580	43	102122	96.881	ug/l	100
59) 2-Hexanone	9.433	43	78910	97.821	ug/l	99
61) Tetrachloroethene	9.275	164	15633	18.393	ug/l	98
62) Toluene	8.720	91	57745	18.192	ug/l	98
64) Chlorobenzene	10.079	112	38213	18.788	ug/l	91
65) 1,1,1,2-Tetrachloroethane	10.165	131	13735	17.793	ug/l	97
66) Ethyl Benzene	10.195	91	65030	18.175	ug/l	99
67) m/p-Xylenes	10.305	106	51658	36.871	ug/l	99
68) o-Xylene	10.646	106	25079	18.314	ug/l	100
69) Styrene	10.658	104	41509	18.233	ug/l	99
70) Isopropylbenzene	10.963	105	65987	18.319	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	20040	19.031	ug/l	99
72) 1,2,3-Trichloropropane	11.244	75	19052m	18.630	ug/l	
73) Bromobenzene	11.201	156	16372	18.267	ug/l	97
74) n-propylbenzene	11.305	91	73054	17.794	ug/l	99
75) 2-Chlorotoluene	11.366	91	45604	18.349	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	55815	18.447	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	4953	16.349	ug/l	89
78) 4-Chlorotoluene	11.457	91	51640	18.250	ug/l	99
79) tert-butylbenzene	11.713	119	52798	17.940	ug/l	100
80) 1,2,4-Trimethylbenzene	11.756	105	54560	18.099	ug/l	99
81) sec-Butylbenzene	11.890	105	68474	18.291	ug/l	99
82) p-Isopropyltoluene	12.012	119	55948	17.473	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	30231	18.022	ug/l	100
84) 1,4-Dichlorobenzene	12.042	146	30925	18.464	ug/l	98
85) n-Butylbenzene	12.335	91	45847	17.553	ug/l	98
86) Hexachloroethane	12.536	117	8810	17.704	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	29625	18.265	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	4263	17.090	ug/l	98
89) 1,2,4-Trichlorobenzene	13.591	180	17958	16.856	ug/l	98
90) Hexachlorobutadiene	13.725	225	7551	16.881	ug/l	99
91) Naphthalene	13.780	128	63465	17.876	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	18660	17.469	ug/l	98

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

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