

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030422\
 Data File : VX027295.D
 Acq On : 04 Mar 2022 12:44
 Operator : JC/MD
 Sample : VX0304WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0304WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/07/2022
 Supervised By : Mahesh Dadoda 03/07/2022

Quant Time: Mar 05 01:48:50 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	11327	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	61764	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	55522	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	23787	30.334	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.100%			
60) 4-Bromofluorobenzene	11.079	95	27205	30.246	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.833%			
63) Toluene-d8	8.647	98	71902	29.623	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.733%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.173	85	14047	19.372	ug/l	97
3) Chloromethane	1.294	50	10997	18.858	ug/l	100
4) Vinyl Chloride	1.380	62	10630	19.036	ug/l	94
5) Bromomethane	1.611	94	6213	20.704	ug/l	94
6) Chloroethane	1.691	64	6589	19.969	ug/l	96
7) Trichlorofluoromethane	1.892	101	18806	19.691	ug/l	96
8) Diethyl Ether	2.136	74	6075	19.974	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.337	101	12896	19.315	ug/l	98
10) 1,1-Dichloroethene	2.325	96	12076	18.618	ug/l	93
11) Methyl Iodide	2.459	142	11999	15.872	ug/l	96
12) Methyl Acetate	2.703	43	15435	18.289	ug/l	96
13) Acrolein	2.239	56	13770	102.577	ug/l	99
14) Acrylonitrile	3.062	53	35730	93.868	ug/l	98
15) Acetone	2.380	58	10161	93.000	ug/l	98
16) Carbon Disulfide	2.514	76	31952	18.551	ug/l	100
17) Allyl chloride	2.666	41	19926	18.482	ug/l	98
18) Methylene Chloride	2.794	84	13384	18.273	ug/l	98
19) trans-1,2-Dichloroethene	3.099	96	13133	18.718	ug/l	97
20) Diisopropyl ether	3.764	45	39745	19.177	ug/l	91
21) 1,1-Dichloroethane	3.617	63	22926	18.911	ug/l	97
22) cis-1,2-Dichloroethene	4.495	96	15252	18.929	ug/l	97
23) tert-Butyl Alcohol	2.953	59	13121	87.037	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	41757	19.397	ug/l	100
25) Chloroform	5.099	83	24715	19.129	ug/l	95
26) Cyclohexane	5.471	56	20888	19.135	ug/l #	98
29) 1,1-Dichloropropene	5.696	75	18068	19.136	ug/l	100
30) 2-Butanone	4.556	43	49230	92.364	ug/l	100
31) 2,2-Dichloropropane	4.483	77	17879	18.836	ug/l	100
32) 1,1,1-Trichloroethane	5.385	97	22032	19.213	ug/l	98
33) Carbon Tetrachloride	5.678	117	19970	19.092	ug/l	96
34) Benzene	6.037	78	53512	19.395	ug/l	99
35) Methacrylonitrile	4.922	41	10217	18.337	ug/l	98
36) 1,2-Dichloroethane	6.086	62	19729	19.631	ug/l	100
37) Trichloroethene	7.129	130	15777	18.925	ug/l	98
38) Methylcyclohexane	7.379	83	22870	19.553	ug/l	97
39) 1,2-Dichloropropane	7.434	63	12653	18.678	ug/l	98
40) Dibromomethane	7.580	93	9717	19.183	ug/l	98
41) Bromodichloromethane	7.824	83	18646	19.099	ug/l	98
42) Vinyl Acetate	3.727	43	169325	94.770	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	18830	18.642	ug/l	99
44) Isopropyl Acetate	6.336	43	28523	18.291	ug/l	98
45) 1,4-Dioxane	7.659	88	6328	359.665	ug/l	100
46) Methyl methacrylate	7.696	41	14495	18.738	ug/l	95
47) n-amyl Acetate	10.842	43	22913	17.829	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	18257	18.111	ug/l	95
49) cis-1,3-Dichloropropene	8.366	75	20829	18.806	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	13788	19.152	ug/l	96
51) Ethyl methacrylate	9.116	69	20176	18.066	ug/l	99
52) 1,3-Dichloropropane	9.311	76	23282	19.364	ug/l	99
53) Dibromochloromethane	9.525	129	14751	18.752	ug/l	100
54) 1,2-Dibromoethane	9.610	107	14639	18.752	ug/l	97
55) 2-Chloroethyl vinyl ether	8.244	63	48918	90.425	ug/l	100
56) Bromoform	10.799	173	10584	18.400	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	94799	94.387	ug/l	99
59) 2-Hexanone	9.427	43	70900	92.243	ug/l	100
61) Tetrachloroethene	9.275	164	16089	19.867	ug/l	93
62) Toluene	8.720	91	58098	19.209	ug/l	98
64) Chlorobenzene	10.079	112	37069	19.128	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	14047	19.098	ug/l	98
66) Ethyl Benzene	10.195	91	64769	18.998	ug/l	99
67) m/p-Xylenes	10.299	106	50828	38.075	ug/l	96
68) o-Xylene	10.640	106	25025	19.179	ug/l	99
69) Styrene	10.659	104	41281	19.030	ug/l	98
70) Isopropylbenzene	10.963	105	66061	19.247	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	19408	19.344	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	18429m	18.913	ug/l	
73) Bromobenzene	11.201	156	16753	19.618	ug/l	99
74) n-propylbenzene	11.305	91	74522	19.050	ug/l	99
75) 2-Chlorotoluene	11.366	91	45792	19.337	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	56583	19.626	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	5159	17.872	ug/l	98
78) 4-Chlorotoluene	11.457	91	51559	19.124	ug/l	99
79) tert-butylbenzene	11.713	119	53583	19.108	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	56943	19.825	ug/l	99
81) sec-Butylbenzene	11.890	105	68280	19.142	ug/l	99
82) p-Isopropyltoluene	12.012	119	57567	18.868	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	31409	19.652	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	30622	19.188	ug/l	100
85) n-Butylbenzene	12.335	91	46727	18.776	ug/l	99
86) Hexachloroethane	12.536	117	8568	18.070	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	29902	19.349	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	4324	18.193	ug/l	97
89) 1,2,4-Trichlorobenzene	13.591	180	19047	18.763	ug/l	98
90) Hexachlorobutadiene	13.725	225	8168	19.164	ug/l	99
91) Naphthalene	13.774	128	64425	19.045	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	18860	18.530	ug/l	99

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

