

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070822\
 Data File : VX029973.D
 Acq On : 08 Jul 2022 15:15
 Operator : JC/MD
 Sample : VX0708WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0708WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/11/2022
 Supervised By : Mahesh Dadoda 07/11/2022

Quant Time: Jul 09 02:17:51 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X070822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jul 09 02:10:54 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	30612	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	163954	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	147069	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	70788	28.359	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	94.533%
60) 4-Bromofluorobenzene	11.085	95	81293	29.331	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	97.767%
63) Toluene-d8	8.653	98	234226	29.371	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	39442	18.842	ug/l	96
3) Chloromethane	1.288	50	43562	19.956	ug/l	97
4) Vinyl Chloride	1.374	62	44794	18.110	ug/l	99
5) Bromomethane	1.611	94	23504	23.064	ug/l	98
6) Chloroethane	1.685	64	25307	19.105	ug/l	95
7) Trichlorofluoromethane	1.886	101	58173	18.553	ug/l	96
8) Diethyl Ether	2.136	74	25789	19.338	ug/l	91
9) 1,1,2-Trichlorotrifluo...	2.331	101	39826	18.864	ug/l	96
10) 1,1-Dichloroethene	2.319	96	38825	18.010	ug/l	93
11) Methyl Iodide	2.453	142	26505	18.937	ug/l	90
12) Methyl Acetate	2.709	43	70656	20.125	ug/l	96
13) Acrolein	2.239	56	36244	87.876	ug/l	99
14) Acrylonitrile	3.069	53	153560	101.627	ug/l	98
15) Acetone	2.386	58	42664	103.946	ug/l	90
16) Carbon Disulfide	2.508	76	100308	17.825	ug/l	99
17) Allyl chloride	2.666	41	68542	18.042	ug/l	93
18) Methylene Chloride	2.788	84	49709	19.792	ug/l	97
19) trans-1,2-Dichloroethene	3.093	96	42995	18.379	ug/l	96
20) Diisopropyl ether	3.764	45	145705	19.146	ug/l	90
21) 1,1-Dichloroethane	3.611	63	77111	18.821	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	52302	18.828	ug/l	97
23) tert-Butyl Alcohol	2.983	59	68251	98.598	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	134954	19.405	ug/l	99
25) Chloroform	5.099	83	76451	18.723	ug/l	93
26) Cyclohexane	5.471	56	70746	18.637	ug/l #	91
29) 1,1-Dichloropropene	5.690	75	56411	20.113	ug/l	99
30) 2-Butanone	4.562	43	207092	109.393	ug/l	99
31) 2,2-Dichloropropane	4.483	77	49179	18.346	ug/l #	81
32) 1,1,1-Trichloroethane	5.391	97	59819	19.835	ug/l	98
33) Carbon Tetrachloride	5.678	117	49330	19.475	ug/l	99
34) Benzene	6.044	78	179828	19.952	ug/l	97
35) Methacrylonitrile	4.922	41	40350	21.057	ug/l	97
36) 1,2-Dichloroethane	6.092	62	57817	21.073	ug/l	96
37) Trichloroethene	7.129	130	48809	20.249	ug/l	97
38) Methylcyclohexane	7.385	83	74201	20.389	ug/l	96
39) 1,2-Dichloropropane	7.434	63	48056	20.945	ug/l	99
40) Dibromomethane	7.586	93	32378	20.819	ug/l	93
41) Bromodichloromethane	7.824	83	56671	20.399	ug/l	97
42) Vinyl Acetate	3.727	43	647518	106.956	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	76014	21.316	ug/l	98
44) Isopropyl Acetate	6.348	43	114266	21.093	ug/l	99
45) 1,4-Dioxane	7.677	88	28468	447.650	ug/l	95
46) Methyl methacrylate	7.696	41	55604	21.659	ug/l	97
47) n-amyl Acetate	10.842	43	92993	19.982	ug/l	97
48) t-1,3-Dichloropropene	8.982	75	59892	19.508	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	68574	19.891	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	48578	21.084	ug/l	98
51) Ethyl methacrylate	9.116	69	77308	21.562	ug/l	98
52) 1,3-Dichloropropane	9.311	76	78346	21.139	ug/l	100
53) Dibromochloromethane	9.525	129	42701	20.023	ug/l	98
54) 1,2-Dibromoethane	9.610	107	50100	20.939	ug/l	98
55) 2-Chloroethyl vinyl ether	8.244	63	198128	107.200	ug/l	97
56) Bromoform	10.805	173	29702	19.896	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	394083	108.481	ug/l	98
59) 2-Hexanone	9.433	43	303630	108.063	ug/l	98
61) Tetrachloroethene	9.275	164	44511	20.157	ug/l	97
62) Toluene	8.720	91	194688	19.900	ug/l	97
64) Chlorobenzene	10.079	112	117884	20.177	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	41217	20.231	ug/l	96
66) Ethyl Benzene	10.195	91	206706	19.882	ug/l	99
67) m/p-Xylenes	10.305	106	164692	40.823	ug/l	96
68) o-Xylene	10.646	106	82700	20.585	ug/l	93
69) Styrene	10.659	104	133213	20.038	ug/l	98
70) Isopropylbenzene	10.963	105	201482	19.919	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	76034	20.671	ug/l	99
72) 1,2,3-Trichloropropane	11.244	75	67734m	20.486	ug/l	
73) Bromobenzene	11.201	156	49049	20.222	ug/l	94
74) n-propylbenzene	11.305	91	238065	19.620	ug/l	99
75) 2-Chlorotoluene	11.366	91	141394	19.789	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	165950	19.541	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	22056	19.394	ug/l	85
78) 4-Chlorotoluene	11.457	91	155986	19.451	ug/l	97
79) tert-butylbenzene	11.719	119	160711	19.452	ug/l	98
80) 1,2,4-Trimethylbenzene	11.756	105	168003	19.243	ug/l	97
81) sec-Butylbenzene	11.890	105	219137	19.596	ug/l	98
82) p-Isopropyltoluene	12.012	119	171809	19.084	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	91377	19.472	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	91827	19.294	ug/l	98
85) n-Butylbenzene	12.335	91	152300	18.027	ug/l	98
86) Hexachloroethane	12.542	117	26944	18.014	ug/l	88
87) 1,2-Dichlorobenzene	12.335	146	91266	19.695	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	16343	19.483	ug/l	98
89) 1,2,4-Trichlorobenzene	13.591	180	55110	19.208	ug/l	98
90) Hexachlorobutadiene	13.725	225	22086	20.298	ug/l	97
91) Naphthalene	13.774	128	228573	19.987	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	58124	19.889	ug/l	99

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

