

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX110421\
 Data File : VX025060.D
 Acq On : 03 Nov 2021 19:46
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/04/2021
 Supervised By : Mahesh Dadoda 11/10/2021

Quant Time: Nov 03 23:36:32 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X110421W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Nov 03 23:32:35 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	13523	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	6.769	114	69334	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	60251	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	36979	33.740	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 112.467%#	
60) 4-Bromofluorobenzene	11.085	95	34520	33.925	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 113.100%#	
63) Toluene-d8	8.653	98	85718	31.471	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 104.900%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	155817	180.488	ug/l	96
3) Chloromethane	1.288	50	77987	91.990	ug/l	100
4) Vinyl Chloride	1.374	62	90534	105.070	ug/l	94
5) Bromomethane	1.611	94	65077	122.919	ug/l	97
6) Chloroethane	1.685	64	45237	83.888	ug/l	100
7) Trichlorofluoromethane	1.886	101	218231	145.835	ug/l	96
8) Diethyl Ether	2.136	74	50772	102.201	ug/l	77
9) 1,1,2-Trichlorotrifluo...	2.331	101	113657	139.300	ug/l	94
10) 1,1-Dichloroethene	2.319	96	99475	128.070	ug/l	96
11) Methyl Iodide	2.453	142	128669	124.980	ug/l	89
12) Methyl Acetate	2.703	43	199101	160.485	ug/l	98
13) Acrolein	2.239	56	37687	319.822	ug/l	97
14) Acrylonitrile	3.068	53	284156	565.489	ug/l	93
15) Acetone	2.386	58	82791	556.937	ug/l	96
16) Carbon Disulfide	2.514	76	250756	129.871	ug/l	99
17) Allyl chloride	2.666	41	157914	113.002	ug/l	92
18) Methylene Chloride	2.794	84	109895	119.809	ug/l	92
19) trans-1,2-Dichloroethene	3.093	96	106486	127.402	ug/l	92
20) Diisopropyl ether	3.763	45	326981	115.257	ug/l	89
21) 1,1-Dichloroethane	3.611	63	219485	136.658	ug/l	99
22) cis-1,2-Dichloroethene	4.495	96	124707	127.992	ug/l	89
23) tert-Butyl Alcohol	3.026	59	154578	639.067	ug/l	100
24) Methyl tert-Butyl Ether	3.117	73	411487	145.267	ug/l	91
25) Chloroform	5.099	83	253551	149.677	ug/l	96
26) Cyclohexane	5.476	56	175045	123.518	ug/l #	98
29) 1,1-Dichloropropene	5.696	75	171167	152.740	ug/l	96
30) 2-Butanone	4.562	43	410481	587.565	ug/l	97
31) 2,2-Dichloropropane	4.483	77	214365	165.765	ug/l	90
32) 1,1,1-Trichloroethane	5.391	97	247560	178.260	ug/l	93
33) Carbon Tetrachloride	5.684	117	220364	181.879	ug/l	98
34) Benzene	6.043	78	429178	133.207	ug/l #	95
35) Methacrylonitrile	4.928	41	84782	95.547	ug/l	95
36) 1,2-Dichloroethane	6.092	62	208498	160.885	ug/l #	94
37) Trichloroethene	7.129	130	122347	139.591	ug/l	87
38) Methylcyclohexane	7.385	83	188475	137.900	ug/l	100
39) 1,2-Dichloropropane	7.433	63	115941	137.515	ug/l	100
40) Dibromomethane	7.586	93	92656	151.374	ug/l	91
41) Bromodichloromethane	7.824	83	198761	171.787	ug/l	99
42) Vinyl Acetate	3.727	43	1285641	568.783	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	158517	120.949	ug/l	99
44) Isopropyl Acetate	6.348	43	259470	124.745	ug/l	96
45) 1,4-Dioxane	7.690	88	51307	2387.917	ug/l	96
46) Methyl methacrylate	7.696	41	125269	124.073	ug/l	88
47) n-amyl Acetate	10.847	43	214135	121.887	ug/l	94
48) t-1,3-Dichloropropene	8.982	75	216227	162.806	ug/l	98
49) cis-1,3-Dichloropropene	8.372	75	213511	153.782	ug/l #	84
50) 1,1,2-Trichloroethane	9.153	97	121681	138.998	ug/l	96
51) Ethyl methacrylate	9.122	69	203572	145.899	ug/l	80
52) 1,3-Dichloropropane	9.311	76	208893	143.740	ug/l	100
53) Dibromochloromethane	9.525	129	150851	166.124	ug/l	97
54) 1,2-Dibromoethane	9.616	107	140046	149.406	ug/l	98
55) 2-Chloroethyl vinyl ether	8.244	63	398232	591.118	ug/l	99
56) Bromoform	10.805	173	104043	163.049	ug/l #	99
58) 4-Methyl-2-Pentanone	8.580	43	779815	619.483	ug/l #	91
59) 2-Hexanone	9.439	43	608325	626.517	ug/l	92
61) Tetrachloroethene	9.275	164	112075	141.133	ug/l	95
62) Toluene	8.720	91	487357	143.983	ug/l	96
64) Chlorobenzene	10.085	112	299917	141.076	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.165	131	134758	163.298	ug/l	95
66) Ethyl Benzene	10.195	91	587884	153.827	ug/l	94
67) m/p-Xylenes	10.305	106	421840	293.877	ug/l	88
68) o-Xylene	10.646	106	200723	141.298	ug/l	80
69) Styrene	10.658	104	340026	144.903	ug/l	92
70) Isopropylbenzene	10.963	105	578733	151.909	ug/l	95
71) 1,1,2,2-Tetrachloroethane	11.219	83	188676	154.726	ug/l	100
72) 1,2,3-Trichloropropane	11.244	75	177779m	154.824	ug/l	
73) Bromobenzene	11.201	156	128660	141.930	ug/l	86
74) n-propylbenzene	11.305	91	690496	155.263	ug/l	96
75) 2-Chlorotoluene	11.366	91	418626	156.805	ug/l	92
76) 1,3,5-Trimethylbenzene	11.457	105	504240	157.982	ug/l	91
77) t-1,4-Dichloro-2-butene	11.024	75	68115	167.862	ug/l	87
78) 4-Chlorotoluene	11.457	91	488699	160.834	ug/l	93
79) tert-butylbenzene	11.719	119	482387	156.067	ug/l	96
80) 1,2,4-Trimethylbenzene	11.756	105	496721	157.249	ug/l	92
81) sec-Butylbenzene	11.896	105	598547	152.063	ug/l	97
82) p-Isopropyltoluene	12.012	119	507965	156.762	ug/l	96
83) 1,3-Dichlorobenzene	11.975	146	243947	147.309	ug/l	97
84) 1,4-Dichlorobenzene	12.042	146	243839	148.698	ug/l	96
85) n-Butylbenzene	12.335	91	472936	164.017	ug/l	97
86) Hexachloroethane	12.542	117	91416	170.018	ug/l	91
87) 1,2-Dichlorobenzene	12.335	146	245778	152.832	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	12.945	75	54264	190.926	ug/l	86
89) 1,2,4-Trichlorobenzene	13.591	180	152824	152.546	ug/l	96
90) Hexachlorobutadiene	13.725	225	77868	171.660	ug/l	99
91) Naphthalene	13.780	128	543121	159.096	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	155048	154.598	ug/l	98

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

