

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121222\
 Data File : VX033365.D
 Acq On : 12 Dec 2022 11:21
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Quant Time: Dec 12 12:26:02 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X121222W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Dec 12 12:25:09 2022
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 12/13/2022
 Supervised By : Mahesh Dadoda 12/13/2022

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

Internal Standards						
1) Bromochloromethane	4.904	128	13616	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	95793	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	105674	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	36058	27.450	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	91.500%		
60) 4-Bromofluorobenzene	11.079	95	59818	29.592	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.633%		
63) Toluene-d8	8.647	98	106200	29.779	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.267%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	48864	40.549	ug/l	99
3) Chloromethane	1.294	50	49146	41.098	ug/l	100
4) Vinyl Chloride	1.374	62	60262	44.568	ug/l	99
5) Bromomethane	1.618	94	43684	36.391	ug/l	97
6) Chloroethane	1.691	64	44767	41.917	ug/l	91
7) Trichlorofluoromethane	1.892	101	121095	46.458	ug/l	99
8) Diethyl Ether	2.136	74	40928	48.565	ug/l	80
9) 1,1,2-Trichlorotrifluo...	2.331	101	65855	47.497	ug/l	98
10) 1,1-Dichloroethene	2.325	96	62513	47.195	ug/l	95
11) Methyl Iodide	2.453	142	76184	53.499	ug/l	100
12) Methyl Acetate	2.703	43	85590	43.621	ug/l #	87
13) Acrolein	2.239	56	72654	277.675	ug/l	98
14) Acrylonitrile	3.068	53	155269	220.745	ug/l	100
15) Acetone	2.392	58	61387	335.623	ug/l	92
16) Carbon Disulfide	2.514	76	158889	48.186	ug/l	99
17) Allyl chloride	2.666	41	97346	46.252	ug/l	96
18) Methylene Chloride	2.788	84	66787	43.721	ug/l	95
19) trans-1,2-Dichloroethene	3.093	96	69108	47.363	ug/l #	87
20) Diisopropyl ether	3.757	45	208715	44.225	ug/l	89
21) 1,1-Dichloroethane	3.611	63	120993	45.670	ug/l	95
22) cis-1,2-Dichloroethene	4.489	96	79938	46.922	ug/l	91
23) tert-Butyl Alcohol	3.008	59	66036m	289.143	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	214846	45.297	ug/l	96
25) Chloroform	5.093	83	137424	46.508	ug/l	98
26) Cyclohexane	5.471	56	105109	45.431	ug/l #	87
29) 1,1-Dichloropropene	5.696	75	97458	45.873	ug/l	97
30) 2-Butanone	4.562	43	241608	243.898	ug/l	93
31) 2,2-Dichloropropane	4.477	77	102137	56.213	ug/l	97
32) 1,1,1-Trichloroethane	5.385	97	125793	47.071	ug/l	96
33) Carbon Tetrachloride	5.678	117	113019	48.166	ug/l	96
34) Benzene	6.037	78	279472	46.687	ug/l #	97
35) Methacrylonitrile	4.916	41	48080	42.854	ug/l	96
36) 1,2-Dichloroethane	6.086	62	108268	43.935	ug/l #	94
37) Trichloroethene	7.129	130	78588	46.928	ug/l	95
38) Methylcyclohexane	7.379	83	113264	47.583	ug/l	90
39) 1,2-Dichloropropane	7.427	63	69737	46.025	ug/l	97
40) Dibromomethane	7.580	93	52962	45.781	ug/l	99
41) Bromodichloromethane	7.824	83	109762	49.778	ug/l	97
42) Vinyl Acetate	3.721	43	812328	213.410	ug/l #	93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121222\
 Data File : VX033365.D
 Acq On : 12 Dec 2022 11:21
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/13/2022
 Supervised By : Mahesh Dadoda 12/13/2022

Quant Time: Dec 12 12:26:02 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X121222W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Dec 12 12:25:09 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	82978	41.640	ug/l #	86
44) Isopropyl Acetate	6.336	43	141011	42.226	ug/l	97
45) 1,4-Dioxane	7.702	88	33964	1058.847	ug/l	90
46) Methyl methacrylate	7.690	41	71277	42.398	ug/l	87
47) n-amyl Acetate	10.841	43	125289	42.203	ug/l	96
48) t-1,3-Dichloropropene	8.976	75	112017	49.518	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	119473	50.017	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	74428	46.792	ug/l	93
51) Ethyl methacrylate	9.116	69	109885	46.257	ug/l	91
52) 1,3-Dichloropropane	9.311	76	121114	46.573	ug/l	100
53) Dibromochloromethane	9.525	129	89328	51.640	ug/l	99
54) 1,2-Dibromoethane	9.610	107	82718	48.279	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	239174	208.341	ug/l	94
56) Bromoform	10.799	173	66311	53.543	ug/l	100
58) 4-Methyl-2-Pentanone	8.574	43	443749	214.512	ug/l	95
59) 2-Hexanone	9.427	43	350118	229.873	ug/l	95
61) Tetrachloroethene	9.275	164	69277	46.909	ug/l	96
62) Toluene	8.720	91	320678	46.662	ug/l	99
64) Chlorobenzene	10.079	112	203735	47.952	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	80117	49.500	ug/l	100
66) Ethyl Benzene	10.195	91	369580	47.938	ug/l	97
67) m/p-Xylenes	10.299	106	287593	95.871	ug/l	92
68) o-Xylene	10.640	106	141678	48.133	ug/l	94
69) Styrene	10.659	104	239452	48.932	ug/l	97
70) Isopropylbenzene	10.963	105	375706	47.798	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.213	83	113141	47.464	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	101568m	49.060	ug/l	
73) Bromobenzene	11.201	156	92270	48.322	ug/l	91
74) n-propylbenzene	11.305	91	431848	48.355	ug/l	96
75) 2-Chlorotoluene	11.366	91	255816	47.310	ug/l	94
76) 1,3,5-Trimethylbenzene	11.451	105	319659	48.106	ug/l	97
77) t-1,4-Dichloro-2-butene	11.018	75	34061	53.916	ug/l	95
78) 4-Chlorotoluene	11.457	91	296548	47.611	ug/l	95
79) tert-butylbenzene	11.713	119	313718	48.582	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	313690	48.283	ug/l	95
81) sec-Butylbenzene	11.890	105	380660	48.964	ug/l	96
82) p-Isopropyltoluene	12.012	119	324413	49.515	ug/l	97
83) 1,3-Dichlorobenzene	11.969	146	173785	49.607	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	172983	49.170	ug/l	99
85) n-Butylbenzene	12.329	91	273946	49.333	ug/l	96
86) Hexachloroethane	12.536	117	56039	52.102	ug/l	95
87) 1,2-Dichlorobenzene	12.335	146	170771	49.035	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	24489	48.424	ug/l	89
89) 1,2,4-Trichlorobenzene	13.585	180	106717	49.895	ug/l	99
90) Hexachlorobutadiene	13.725	225	43991	51.102	ug/l	99
91) Naphthalene	13.774	128	350826	48.598	ug/l	98
92) 1,2,3-Trichlorobenzene	13.963	180	104866	48.749	ug/l	97

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

