

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060123\
 Data File : VX035947.D
 Acq On : 01 Jun 2023 09:56
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/02/2023
 Supervised By : Semsettin Yesilyurt 06/02/2023

Quant Time: Jun 02 01:35:26 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X052323W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 23 11:36:37 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	35496	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	213135	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	192307	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	92900	31.499	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 105.000%			
60) 4-Bromofluorobenzene	11.079	95	100871	31.260	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 104.200%			
63) Toluene-d8	8.647	98	255106	30.007	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.033%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.166	85	50132	27.619	ug/l	99
3) Chloromethane	1.294	50	45119	20.262	ug/l	96
4) Vinyl Chloride	1.373	62	43571	20.821	ug/l	95
5) Bromomethane	1.617	94	28966	20.575	ug/l	96
6) Chloroethane	1.690	64	28163	21.347	ug/l	96
7) Trichlorofluoromethane	1.886	101	70229	22.137	ug/l	96
8) Diethyl Ether	2.129	74	26111	19.796	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	43414	25.435	ug/l	97
10) 1,1-Dichloroethene	2.318	96	37966	21.337	ug/l	90
11) Methyl Iodide	2.453	142	41662	19.382	ug/l	98
12) Methyl Acetate	2.709	43	104302	20.745	ug/l	98
13) Acrolein	2.245	56	46528	117.068	ug/l	98
14) Acrylonitrile	3.068	53	129858	103.030	ug/l	99
15) Acetone	2.404	58	42661	113.160	ug/l	92
16) Carbon Disulfide	2.514	76	87180	22.576	ug/l	100
17) Allyl chloride	2.666	41	77059	21.467	ug/l	94
18) Methylene Chloride	2.788	84	45668	19.708	ug/l	96
19) trans-1,2-Dichloroethene	3.093	96	42299	21.088	ug/l	92
20) Diisopropyl ether	3.757	45	159610	20.596	ug/l	99
21) 1,1-Dichloroethane	3.605	63	86430	21.278	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	50196	20.224	ug/l	96
23) tert-Butyl Alcohol	3.026	59	53893m	117.139	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	154046	21.480	ug/l	94
25) Chloroform	5.086	83	89647	21.507	ug/l	98
26) Cyclohexane	5.470	56	70978	23.105	ug/l #	96
29) 1,1-Dichloropropene	5.690	75	63533	21.406	ug/l	98
30) 2-Butanone	4.568	43	200768	103.335	ug/l	99
31) 2,2-Dichloropropane	4.470	77	71831	22.527	ug/l	96
32) 1,1,1-Trichloroethane	5.385	97	76275	22.007	ug/l	99
33) Carbon Tetrachloride	5.678	117	63963	23.371	ug/l	96
34) Benzene	6.037	78	185510	19.813	ug/l	98
35) Methacrylonitrile	4.916	41	41326	19.933	ug/l	97
36) 1,2-Dichloroethane	6.086	62	74199	20.362	ug/l	99
37) Trichloroethene	7.122	130	47538	20.199	ug/l	99
38) Methylcyclohexane	7.378	83	71952	22.106	ug/l	98
39) 1,2-Dichloropropane	7.427	63	48518	19.251	ug/l	98
40) Dibromomethane	7.580	93	33313	19.544	ug/l	99
41) Bromodichloromethane	7.817	83	65751	21.338	ug/l	97
42) Vinyl Acetate	3.721	43	555337	97.309	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060123\
 Data File : VX035947.D
 Acq On : 01 Jun 2023 09:56
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/02/2023
 Supervised By : Semsettin Yesilyurt 06/02/2023

Quant Time: Jun 02 01:35:26 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X052323W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 23 11:36:37 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	66802	18.029	ug/l	97
44) Isopropyl Acetate	6.336	43	111531	18.466	ug/l	99
45) 1,4-Dioxane	7.738	88	25605m	446.343	ug/l	
46) Methyl methacrylate	7.689	41	55508	19.021	ug/l	99
47) n-amyl Acetate	10.841	43	91902	18.115	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	67307	19.744	ug/l	100
49) cis-1,3-Dichloropropene	8.366	75	75967	20.192	ug/l	93
50) 1,1,2-Trichloroethane	9.153	97	49318	20.224	ug/l	95
51) Ethyl methacrylate	9.116	69	72298	19.233	ug/l	95
52) 1,3-Dichloropropane	9.305	76	84751	19.943	ug/l	99
53) Dibromochloromethane	9.518	129	46978	21.006	ug/l	99
54) 1,2-Dibromoethane	9.610	107	50468	19.920	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	198989	99.748	ug/l	98
56) Bromoform	10.799	173	30606	21.111	ug/l	96
58) 4-Methyl-2-Pentanone	8.573	43	359192	96.161	ug/l	98
59) 2-Hexanone	9.433	43	277624	98.777	ug/l	98
61) Tetrachloroethene	9.274	164	40712	21.982	ug/l	95
62) Toluene	8.720	91	202726	20.470	ug/l	99
64) Chlorobenzene	10.079	112	126485	20.167	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.159	131	44397	20.247	ug/l	97
66) Ethyl Benzene	10.195	91	229877	20.755	ug/l	99
67) m/p-Xylenes	10.299	106	176526	42.108	ug/l	98
68) o-Xylene	10.640	106	86919	20.728	ug/l	100
69) Styrene	10.652	104	142531	20.595	ug/l	100
70) Isopropylbenzene	10.963	105	229770	21.467	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	74256	19.586	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	63054m	19.096	ug/l	
73) Bromobenzene	11.195	156	53326	20.507	ug/l	96
74) n-propylbenzene	11.305	91	266084	20.856	ug/l	100
75) 2-Chlorotoluene	11.366	91	166319	21.223	ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	194907	21.441	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	18447	18.520	ug/l	96
78) 4-Chlorotoluene	11.451	91	187905	21.047	ug/l	100
79) tert-butylbenzene	11.713	119	186394	21.239	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	191539	20.966	ug/l	99
81) sec-Butylbenzene	11.890	105	232463	20.980	ug/l	99
82) p-Isopropyltoluene	12.006	119	194844	21.138	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	102157	20.757	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	102841	20.819	ug/l	99
85) n-Butylbenzene	12.335	91	168033	20.490	ug/l	99
86) Hexachloroethane	12.536	117	29146	20.079	ug/l	95
87) 1,2-Dichlorobenzene	12.335	146	100027	20.743	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	16400	22.634	ug/l	93
89) 1,2,4-Trichlorobenzene	13.585	180	62081	21.482	ug/l	97
90) Hexachlorobutadiene	13.725	225	25466	23.904	ug/l	97
91) Naphthalene	13.774	128	213227	21.321	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	60748	21.054	ug/l	98

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

