

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051524\
 Data File : VX041548.D
 Acq On : 15 May 2024 18:38
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/16/2024
 Supervised By : Mahesh Dadoda 05/16/2024

Quant Time: May 16 05:29:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 16 05:13:13 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	28946	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	157910	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	145292	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	66156	29.022	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	96.733%	
60) 4-Bromofluorobenzene	11.079	95	68960	30.404	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	101.333%	
63) Toluene-d8	8.647	98	189106	30.363	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	101.200%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	28842	19.050	ug/l	99
3) Chloromethane	1.294	50	30895	18.635	ug/l	95
4) Vinyl Chloride	1.374	62	30581	17.520	ug/l	96
5) Bromomethane	1.599	94	20418	18.391	ug/l	99
6) Chloroethane	1.666	64	17683	20.037	ug/l	96
7) Trichlorofluoromethane	1.868	101	50209	18.950	ug/l	96
8) Diethyl Ether	2.136	74	17748	17.938	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.319	101	30487	19.843	ug/l	98
10) 1,1-Dichloroethene	2.306	96	29984	20.247	ug/l	97
11) Methyl Iodide	2.441	142	39241	22.247	ug/l	98
12) Methyl Acetate	2.709	43	43559	19.530	ug/l	100
13) Acrolein	2.239	56	19500	71.815	ug/l	98
14) Acrylonitrile	3.069	53	92570	94.399	ug/l	99
15) Acetone	2.392	58	23830	90.697	ug/l	92
16) Carbon Disulfide	2.502	76	61916	18.517	ug/l	100
17) Allyl chloride	2.660	41	49036	18.658	ug/l	98
18) Methylene Chloride	2.788	84	34868	19.796	ug/l	95
19) trans-1,2-Dichloroethene	3.087	96	31132	18.332	ug/l	99
20) Diisopropyl ether	3.764	45	103766	18.792	ug/l	96
21) 1,1-Dichloroethane	3.605	63	57691	18.615	ug/l	100
22) cis-1,2-Dichloroethene	4.483	96	38051	18.439	ug/l	98
23) tert-Butyl Alcohol	3.001	59	39942m	95.981	ug/l	
24) Methyl tert-Butyl Ether	3.117	73	102628	18.562	ug/l	99
25) Chloroform	5.086	83	61847	18.733	ug/l	95
26) Cyclohexane	5.464	56	47167	18.251	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	38789	18.570	ug/l	97
30) 2-Butanone	4.568	43	132562	95.610	ug/l	99
31) 2,2-Dichloropropane	4.471	77	43186	17.616	ug/l	97
32) 1,1,1-Trichloroethane	5.385	97	53404	19.054	ug/l	99
33) Carbon Tetrachloride	5.678	117	44913	18.728	ug/l	97
34) Benzene	6.038	78	128669	19.504	ug/l	99
35) Methacrylonitrile	4.928	41	27603	19.736	ug/l	98
36) 1,2-Dichloroethane	6.086	62	48214	19.585	ug/l	99
37) Trichloroethene	7.123	130	34678	18.867	ug/l	100
38) Methylcyclohexane	7.379	83	48468	18.274	ug/l	100
39) 1,2-Dichloropropane	7.428	63	29753	19.079	ug/l	95
40) Dibromomethane	7.580	93	23566	19.201	ug/l	99
41) Bromodichloromethane	7.818	83	43162	18.732	ug/l	96
42) Vinyl Acetate	3.721	43	466319	96.938	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	48357	18.076	ug/l	96
44) Isopropyl Acetate	6.342	43	77714	19.217	ug/l	99
45) 1,4-Dioxane	7.665	88	16858m	369.642	ug/l	
46) Methyl methacrylate	7.696	41	39153	19.459	ug/l	99
47) n-amyl Acetate	10.842	43	68376	18.645	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	41414	17.898	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	45604	18.196	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	33214	19.454	ug/l	99
51) Ethyl methacrylate	9.116	69	51575	18.767	ug/l	98
52) 1,3-Dichloropropane	9.305	76	55034	19.507	ug/l	99
53) Dibromochloromethane	9.519	129	35285	18.164	ug/l	99
54) 1,2-Dibromoethane	9.610	107	35058	19.364	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	118184	88.106	ug/l	99
56) Bromoform	10.799	173	27935	17.949	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	268109	100.994	ug/l	99
59) 2-Hexanone	9.433	43	205154	97.006	ug/l	99
61) Tetrachloroethene	9.275	164	33992	19.122	ug/l	92
62) Toluene	8.720	91	140439	19.426	ug/l	100
64) Chlorobenzene	10.079	112	96097	19.569	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	33019	18.997	ug/l	99
66) Ethyl Benzene	10.195	91	156937	19.549	ug/l	99
67) m/p-Xylenes	10.299	106	123421	39.316	ug/l	98
68) o-Xylene	10.640	106	60908	19.275	ug/l	100
69) Styrene	10.653	104	101491	19.156	ug/l	99
70) Isopropylbenzene	10.963	105	159161	19.933	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	55110	20.091	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	50363m	20.359	ug/l	
73) Bromobenzene	11.195	156	45561	19.419	ug/l	99
74) n-propylbenzene	11.305	91	173951	19.320	ug/l	100
75) 2-Chlorotoluene	11.366	91	110935	19.621	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	133112	19.531	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	13210	16.990	ug/l	93
78) 4-Chlorotoluene	11.451	91	124100	19.271	ug/l	99
79) tert-butylbenzene	11.713	119	134804	18.584	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	126028	18.449	ug/l	99
81) sec-Butylbenzene	11.890	105	163498	19.289	ug/l	99
82) p-Isopropyltoluene	12.006	119	142189	19.163	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	78836	18.736	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	80345	18.897	ug/l	99
85) n-Butylbenzene	12.329	91	107907	18.073	ug/l	99
86) Hexachloroethane	12.536	117	20822	16.668	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	82305	19.164	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	11552	19.177	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	52638	18.241	ug/l	98
90) Hexachlorobutadiene	13.725	225	26514	18.833	ug/l	99
91) Naphthalene	13.774	128	166847	19.345	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	56968	19.322	ug/l	99

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

