

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071224\
 Data File : VX042313.D
 Acq On : 12 Jul 2024 19:17
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/15/2024
 Supervised By : Mahesh Dadoda 07/15/2024

Quant Time: Jul 15 04:34:17 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061424W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 15 04:02:59 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.903	128	26329	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	142840	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	133036	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	52200	28.801	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.000%		
60) 4-Bromofluorobenzene	11.079	95	62310	30.258	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.867%		
63) Toluene-d8	8.647	98	167691	29.462	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.200%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	29047	17.043	ug/l	98
3) Chloromethane	1.300	50	29415	15.439	ug/l	99
4) Vinyl Chloride	1.374	62	29290	15.721	ug/l	99
5) Bromomethane	1.599	94	14115	14.172	ug/l	95
6) Chloroethane	1.666	64	17982	22.590	ug/l	98
7) Trichlorofluoromethane	1.874	101	45544	19.410	ug/l	97
8) Diethyl Ether	2.136	74	18367	18.088	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.319	101	30197	18.931	ug/l	98
10) 1,1-Dichloroethene	2.312	96	28760	17.874	ug/l	94
11) Methyl Iodide	2.447	142	27793	13.271	ug/l	98
12) Methyl Acetate	2.709	43	48804	23.790	ug/l	92
13) Acrolein	2.239	56	35200	85.096	ug/l	98
14) Acrylonitrile	3.068	53	89394	91.809	ug/l	96
15) Acetone	2.386	58	23356	83.851	ug/l	96
16) Carbon Disulfide	2.501	76	55421	15.716	ug/l	100
17) Allyl chloride	2.660	41	45043	18.432	ug/l	95
18) Methylene Chloride	2.788	84	34095	18.473	ug/l	97
19) trans-1,2-Dichloroethene	3.087	96	29486	18.293	ug/l	97
20) Diisopropyl ether	3.763	45	95349	18.982	ug/l	91
21) 1,1-Dichloroethane	3.605	63	54253	18.909	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	36592	18.754	ug/l	99
23) tert-Butyl Alcohol	2.989	59	37901	104.697	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	96816	19.451	ug/l	99
25) Chloroform	5.092	83	57230	19.627	ug/l	97
26) Cyclohexane	5.464	56	42935	17.229	ug/l #	97
29) 1,1-Dichloropropene	5.690	75	34848	18.692	ug/l	99
30) 2-Butanone	4.562	43	121380	97.441	ug/l	99
31) 2,2-Dichloropropane	4.471	77	37105	18.164	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	48672	20.596	ug/l	99
33) Carbon Tetrachloride	5.672	117	42077	20.644	ug/l	98
34) Benzene	6.037	78	122537	19.731	ug/l	98
35) Methacrylonitrile	4.928	41	24102	19.263	ug/l	92
36) 1,2-Dichloroethane	6.086	62	40090	20.721	ug/l	98
37) Trichloroethene	7.129	130	34099	20.101	ug/l	99
38) Methylcyclohexane	7.379	83	44831	18.155	ug/l	97
39) 1,2-Dichloropropane	7.427	63	28927	19.554	ug/l	100
40) Dibromomethane	7.580	93	22157	20.247	ug/l	97
41) Bromodichloromethane	7.824	83	40665	20.742	ug/l	96
42) Vinyl Acetate	3.721	43	402459	96.523	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	46037	19.711	ug/l	97
44) Isopropyl Acetate	6.348	43	68180	19.489	ug/l	99
45) 1,4-Dioxane	7.665	88	13567	318.160	ug/l #	83
46) Methyl methacrylate	7.696	41	33427	19.543	ug/l	95
47) n-amyl Acetate	10.841	43	60250	19.190	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	38954	19.297	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	44834	19.800	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	33709	21.184	ug/l	99
51) Ethyl methacrylate	9.116	69	49444	19.560	ug/l	96
52) 1,3-Dichloropropane	9.311	76	53662	20.628	ug/l	99
53) Dibromochloromethane	9.518	129	36107	20.735	ug/l	97
54) 1,2-Dibromoethane	9.610	107	34523	20.573	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	136188	115.747	ug/l	99
56) Bromoform	10.799	173	28639	20.169	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	237680	99.702	ug/l	99
59) 2-Hexanone	9.433	43	182842	99.372	ug/l	100
61) Tetrachloroethene	9.275	164	32683	19.523	ug/l	99
62) Toluene	8.720	91	136570	20.286	ug/l	100
64) Chlorobenzene	10.079	112	91173	19.888	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	33495	21.156	ug/l	98
66) Ethyl Benzene	10.195	91	143937	19.556	ug/l	98
67) m/p-Xylenes	10.299	106	117567	39.712	ug/l	98
68) o-Xylene	10.640	106	59695	20.225	ug/l	96
69) Styrene	10.652	104	99006	20.073	ug/l	99
70) Isopropylbenzene	10.963	105	150990	20.345	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	53123	20.683	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	41304m	19.855	ug/l	
73) Bromobenzene	11.195	156	43937	20.297	ug/l	97
74) n-propylbenzene	11.305	91	161026	19.752	ug/l	99
75) 2-Chlorotoluene	11.366	91	103209	19.937	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	124964	20.099	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	12734	16.547	ug/l	94
78) 4-Chlorotoluene	11.451	91	112843	19.622	ug/l	99
79) tert-butylbenzene	11.713	119	134826	20.429	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	126596	20.381	ug/l	98
81) sec-Butylbenzene	11.890	105	153545	19.947	ug/l	99
82) p-Isopropyltoluene	12.006	119	134539	19.945	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	76809	19.900	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	74793	19.468	ug/l	99
85) n-Butylbenzene	12.335	91	96969	18.590	ug/l	98
86) Hexachloroethane	12.536	117	21110	19.163	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	78247	20.046	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	10435	19.642	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	50446	19.092	ug/l	97
90) Hexachlorobutadiene	13.725	225	25802	19.817	ug/l	98
91) Naphthalene	13.774	128	154069	19.297	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	53477	19.542	ug/l	98

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

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