

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121222\
 Data File : VX033364.D
 Acq On : 12 Dec 2022 10:58
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

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

Quant Time: Dec 12 12:25:45 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)

Internal Standards						
1) Bromochloromethane	4.897	128	13029	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	90878	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	98499	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	35027	27.867	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	92.900%	
60) 4-Bromofluorobenzene	11.079	95	54910	29.143	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	97.133%	
63) Toluene-d8	8.647	98	99264	29.862	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	99.533%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	19883	17.243	ug/l	94
3) Chloromethane	1.294	50	19403	16.957	ug/l	93
4) Vinyl Chloride	1.374	62	23113	17.864	ug/l	99
5) Bromomethane	1.618	94	16769	14.599	ug/l	97
6) Chloroethane	1.691	64	18057	17.669	ug/l	88
7) Trichlorofluoromethane	1.892	101	48729	19.537	ug/l	98
8) Diethyl Ether	2.136	74	16332	20.253	ug/l	77
9) 1,1,2-Trichlorotrifluo...	2.331	101	25879	19.506	ug/l	98
10) 1,1-Dichloroethene	2.325	96	24071	18.991	ug/l	96
11) Methyl Iodide	2.453	142	26630	19.543	ug/l	99
12) Methyl Acetate	2.709	43	32239	17.171	ug/l	91
13) Acrolein	2.239	56	27223	108.731	ug/l	98
14) Acrylonitrile	3.068	53	57462	85.374	ug/l	98
15) Acetone	2.392	58	22912	130.911	ug/l	87
16) Carbon Disulfide	2.514	76	62577	19.833	ug/l	98
17) Allyl chloride	2.666	41	37287	18.514	ug/l	91
18) Methylene Chloride	2.788	84	26179	17.910	ug/l	93
19) trans-1,2-Dichloroethene	3.093	96	26012	18.631	ug/l #	85
20) Diisopropyl ether	3.757	45	79032	17.501	ug/l	92
21) 1,1-Dichloroethane	3.611	63	45887	18.101	ug/l	98
22) cis-1,2-Dichloroethene	4.495	96	30290	18.580	ug/l	89
23) tert-Butyl Alcohol	3.008	59	24828m	113.609	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	81427	17.941	ug/l	94
25) Chloroform	5.093	83	53211	18.819	ug/l	96
26) Cyclohexane	5.470	56	40092	18.110	ug/l #	86
29) 1,1-Dichloropropene	5.690	75	37305	18.509	ug/l	97
30) 2-Butanone	4.562	43	91863	97.749	ug/l	92
31) 2,2-Dichloropropane	4.477	77	38630	22.411	ug/l	95
32) 1,1,1-Trichloroethane	5.385	97	48755	19.230	ug/l	95
33) Carbon Tetrachloride	5.678	117	44524	20.001	ug/l	95
34) Benzene	6.037	78	105920	18.651	ug/l	97
35) Methacrylonitrile	4.916	41	17447	16.391	ug/l	94
36) 1,2-Dichloroethane	6.086	62	42721	18.274	ug/l #	92
37) Trichloroethene	7.123	130	30330	19.091	ug/l	97
38) Methylcyclohexane	7.379	83	42899	18.997	ug/l	89
39) 1,2-Dichloropropane	7.434	63	26510	18.442	ug/l	96
40) Dibromomethane	7.580	93	20174	18.382	ug/l	98
41) Bromodichloromethane	7.824	83	42351	20.245	ug/l	98
42) Vinyl Acetate	3.721	43	301567	83.511	ug/l #	92

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	31101	16.451	ug/l #	87
44) Isopropyl Acetate	6.336	43	53102	16.761	ug/l	96
45) 1,4-Dioxane	7.708	88	13254	435.548	ug/l #	85
46) Methyl methacrylate	7.690	41	26499	16.615	ug/l	86
47) n-amyl Acetate	10.841	43	44627	15.845	ug/l	97
48) t-1,3-Dichloropropene	8.976	75	41715	19.438	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	44224	19.515	ug/l	93
50) 1,1,2-Trichloroethane	9.153	97	28416	18.831	ug/l	96
51) Ethyl methacrylate	9.116	69	39561	17.554	ug/l	90
52) 1,3-Dichloropropane	9.311	76	46641	18.905	ug/l	98
53) Dibromochloromethane	9.519	129	33921	20.670	ug/l	98
54) 1,2-Dibromoethane	9.610	107	31121	19.146	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	88114	80.906	ug/l	94
56) Bromoform	10.799	173	24298	20.681	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	166511	86.356	ug/l	94
59) 2-Hexanone	9.427	43	132247	93.153	ug/l	94
61) Tetrachloroethene	9.275	164	27167	19.735	ug/l	96
62) Toluene	8.720	91	123791	19.325	ug/l	98
64) Chlorobenzene	10.079	112	77325	19.525	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	30951	20.516	ug/l	99
66) Ethyl Benzene	10.195	91	139175	19.367	ug/l	96
67) m/p-Xylenes	10.299	106	108045	38.641	ug/l	89
68) o-Xylene	10.640	106	52883	19.275	ug/l	92
69) Styrene	10.652	104	87918	19.275	ug/l	96
70) Isopropylbenzene	10.963	105	141617	19.329	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.213	83	41589	18.718	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	38395m	19.897	ug/l	
73) Bromobenzene	11.201	156	34363	19.307	ug/l	90
74) n-propylbenzene	11.305	91	160648	19.298	ug/l	95
75) 2-Chlorotoluene	11.366	91	96678	19.182	ug/l	94
76) 1,3,5-Trimethylbenzene	11.451	105	118782	19.178	ug/l	97
77) t-1,4-Dichloro-2-butene	11.018	75	12060	20.481	ug/l	99
78) 4-Chlorotoluene	11.451	91	112324	19.347	ug/l	93
79) tert-butylbenzene	11.713	119	118094	19.620	ug/l	96
80) 1,2,4-Trimethylbenzene	11.750	105	117661	19.430	ug/l	94
81) sec-Butylbenzene	11.890	105	141006	19.459	ug/l	95
82) p-Isopropyltoluene	12.006	119	120125	19.670	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	64168	19.651	ug/l	97
84) 1,4-Dichlorobenzene	12.042	146	63837	19.467	ug/l	99
85) n-Butylbenzene	12.329	91	96551	18.654	ug/l	96
86) Hexachloroethane	12.536	117	20708	20.656	ug/l	94
87) 1,2-Dichlorobenzene	12.335	146	63369	19.521	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.939	75	9134	19.377	ug/l	82
89) 1,2,4-Trichlorobenzene	13.585	180	37172	18.646	ug/l	97
90) Hexachlorobutadiene	13.725	225	16245	20.246	ug/l	99
91) Naphthalene	13.774	128	123233	18.314	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	37723	18.814	ug/l	98

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

