

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050522\
 Data File : VX028537.D
 Acq On : 05 May 2022 16:37
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/06/2022
 Supervised By : Mahesh Dadoda 05/06/2022

Quant Time: May 06 02:27:40 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X042822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 29 06:09:36 2022
 Response via : Initial Calibration

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

Internal Standards						05/06/2022
1) Bromochloromethane	4.903	128	54208	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	295640	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	277439	30.000	ug/l	0.00
System Monitoring Compounds						05/06/2022
27) 1,2-Dichloroethane-d4	5.958	65	110076	31.930	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	106.433%
60) 4-Bromofluorobenzene	11.079	95	129434	29.999	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	100.000%
63) Toluene-d8	8.647	98	359276	30.569	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.900%
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	36869	19.222	ug/l	97
3) Chloromethane	1.294	50	31095	20.565	ug/l	99
4) Vinyl Chloride	1.374	62	40933	21.296	ug/l	97
5) Bromomethane	1.605	94	25755	16.264	ug/l	98
6) Chloroethane	1.684	64	32941	22.254	ug/l	96
7) Trichlorofluoromethane	1.886	101	88928	21.159	ug/l	98
8) Diethyl Ether	2.130	74	35265	21.275	ug/l	83
9) 1,1,2-Trichlorotrifluo...	2.331	101	49742	20.126	ug/l	95
10) 1,1-Dichloroethene	2.318	96	40122	19.633	ug/l	96
11) Methyl Iodide	2.453	142	31503	11.477	ug/l	98
12) Methyl Acetate	2.703	43	64351	19.724	ug/l	97
13) Acrolein	2.233	56	62652	94.639	ug/l	100
14) Acrylonitrile	3.062	53	147256	99.142	ug/l	100
15) Acetone	2.373	58	40231	95.637	ug/l	88
16) Carbon Disulfide	2.514	76	56556	23.416	ug/l	98
17) Allyl chloride	2.666	41	59312	19.315	ug/l	86
18) Methylene Chloride	2.788	84	52799	20.108	ug/l	93
19) trans-1,2-Dichloroethene	3.093	96	45673	20.230	ug/l	89
20) Diisopropyl ether	3.757	45	156964	20.565	ug/l	98
21) 1,1-Dichloroethane	3.611	63	92004	20.394	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	63432	19.958	ug/l	97
23) tert-Butyl Alcohol	2.953	59	63700	79.409	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	176772	19.672	ug/l	96
25) Chloroform	5.092	83	111076	20.954	ug/l	95
26) Cyclohexane	5.470	56	59365	20.814	ug/l #	94
29) 1,1-Dichloropropene	5.690	75	66220	21.059	ug/l	99
30) 2-Butanone	4.556	43	196958	99.380	ug/l	93
31) 2,2-Dichloropropane	4.477	77	72248	18.708	ug/l	95
32) 1,1,1-Trichloroethane	5.385	97	92302	20.876	ug/l	99
33) Carbon Tetrachloride	5.678	117	78098	20.758	ug/l	100
34) Benzene	6.037	78	211688	21.136	ug/l	99
35) Methacrylonitrile	4.916	41	40151	20.115	ug/l	91
36) 1,2-Dichloroethane	6.086	62	79614	21.330	ug/l	97
37) Trichloroethene	7.123	130	62579	20.399	ug/l	100
38) Methylcyclohexane	7.385	83	69798	21.674	ug/l	93
39) 1,2-Dichloropropane	7.433	63	56053	21.291	ug/l	100
40) Dibromomethane	7.586	93	43514	21.549	ug/l	95
41) Bromodichloromethane	7.824	83	84249	21.986	ug/l	98
42) Vinyl Acetate	3.721	43	650132	105.849	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	74712	20.145	ug/l	99
44) Isopropyl Acetate	6.342	43	120109	20.086	ug/l	100
45) 1,4-Dioxane	7.659	88	28513	366.173	ug/l	93
46) Methyl methacrylate	7.696	41	55492	20.306	ug/l	88
47) n-amyl Acetate	10.841	43	102664	19.830	ug/l	98
48) t-1,3-Dichloropropene	8.982	75	79524	19.759	ug/l	95
49) cis-1,3-Dichloropropene	8.366	75	87720	20.284	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	67728	21.328	ug/l	96
51) Ethyl methacrylate	9.116	69	91830	20.209	ug/l	95
52) 1,3-Dichloropropane	9.311	76	105969	21.331	ug/l	99
53) Dibromochloromethane	9.525	129	68969	21.229	ug/l	99
54) 1,2-Dibromoethane	9.610	107	69356	20.995	ug/l	97
55) 2-Chloroethyl vinyl ether	8.244	63	236021	98.933	ug/l	98
56) Bromoform	10.799	173	50817	20.292	ug/l	96
58) 4-Methyl-2-Pentanone	8.573	43	413134	102.363	ug/l	94
59) 2-Hexanone	9.433	43	312550	100.060	ug/l	94
61) Tetrachloroethene	9.275	164	62349	20.372	ug/l	96
62) Toluene	8.720	91	249627	20.746	ug/l	98
64) Chlorobenzene	10.079	112	175279	20.648	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.165	131	67155	20.254	ug/l	97
66) Ethyl Benzene	10.195	91	293592	20.695	ug/l	99
67) m/p-Xylenes	10.305	106	234811	41.291	ug/l	97
68) o-Xylene	10.640	106	117193	20.278	ug/l	96
69) Styrene	10.658	104	195091	20.211	ug/l	97
70) Isopropylbenzene	10.963	105	314069	20.888	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	108160	21.186	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	92795m	20.428	ug/l	
73) Bromobenzene	11.201	156	79324	19.566	ug/l	95
74) n-propylbenzene	11.305	91	358026	21.355	ug/l	100
75) 2-Chlorotoluene	11.366	91	214604	20.663	ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	264039	20.942	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	22349	16.248	ug/l	93
78) 4-Chlorotoluene	11.457	91	244415	20.806	ug/l	97
79) tert-butylbenzene	11.719	119	262237	20.501	ug/l	96
80) 1,2,4-Trimethylbenzene	11.756	105	260057	20.548	ug/l	96
81) sec-Butylbenzene	11.890	105	325279	21.453	ug/l	99
82) p-Isopropyltoluene	12.012	119	278270	21.144	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	154282	20.289	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	152830	19.768	ug/l	99
85) n-Butylbenzene	12.335	91	224694	21.155	ug/l	100
86) Hexachloroethane	12.542	117	40894	19.747	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	156666	20.457	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	21075	19.326	ug/l	98
89) 1,2,4-Trichlorobenzene	13.591	180	93602	19.568	ug/l	100
90) Hexachlorobutadiene	13.725	225	39906	19.677	ug/l	99
91) Naphthalene	13.780	128	319969	19.141	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	95439	19.903	ug/l	99

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

