

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042822\
 Data File : VX028405.D
 Acq On : 28 Apr 2022 17:34
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/29/2022
 Supervised By : Mahesh Dadoda 04/29/2022

Quant Time: Apr 29 05:40:39 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X042822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 29 05:39:20 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	70392	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	391967	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	350918	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	135090	28.110	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	93.700%		
60) 4-Bromofluorobenzene	11.079	95	163589	28.912	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	96.367%		
63) Toluene-d8	8.653	98	457061	30.296	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.000%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	50807	12.462	ug/l	96
3) Chloromethane	1.294	50	39600	12.107	ug/l	93
4) Vinyl Chloride	1.374	62	50036	15.344	ug/l	99
5) Bromomethane	1.605	94	40058	21.585	ug/l	100
6) Chloroethane	1.685	64	37961	18.815	ug/l	96
7) Trichlorofluoromethane	1.886	101	107426	18.477	ug/l	96
8) Diethyl Ether	2.136	74	42195	21.744	ug/l	85
9) 1,1,2-Trichlorotrifluo...	2.331	101	60519	15.482	ug/l	99
10) 1,1-Dichloroethene	2.319	96	50390	13.515	ug/l	93
11) Methyl Iodide	2.453	142	64134	14.189	ug/l	97
12) Methyl Acetate	2.703	43	84542	16.774	ug/l	99
13) Acrolein	2.233	56	81649	97.485	ug/l	99
14) Acrylonitrile	3.062	53	195001	85.596	ug/l	99
15) Acetone	2.374	58	54747	84.835	ug/l	99
16) Carbon Disulfide	2.514	76	57367	6.268	ug/l	100
17) Allyl chloride	2.666	41	76616	12.524	ug/l	86
18) Methylene Chloride	2.788	84	65693	15.310	ug/l	94
19) trans-1,2-Dichloroethene	3.093	96	56958	14.036	ug/l	92
20) Diisopropyl ether	3.757	45	195300	15.977	ug/l	98
21) 1,1-Dichloroethane	3.611	63	114347	15.978	ug/l	97
22) cis-1,2-Dichloroethene	4.495	96	80511	16.761	ug/l	97
23) tert-Butyl Alcohol	2.953	59	103494	107.515	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	228530	17.620	ug/l	97
25) Chloroform	5.099	83	134596	17.361	ug/l	95
26) Cyclohexane	5.471	56	73085	11.862	ug/l #	94
29) 1,1-Dichloropropene	5.690	75	82181	14.601	ug/l	97
30) 2-Butanone	4.556	43	266612	82.596	ug/l	93
31) 2,2-Dichloropropane	4.477	77	97701	16.729	ug/l	98
32) 1,1,1-Trichloroethane	5.385	97	112626	16.154	ug/l	99
33) Carbon Tetrachloride	5.678	117	95814	15.203	ug/l	98
34) Benzene	6.044	78	260259	15.688	ug/l	98
35) Methacrylonitrile	4.916	41	53833	16.031	ug/l	89
36) 1,2-Dichloroethane	6.086	62	97757	16.104	ug/l	96
37) Trichloroethene	7.129	130	78113	15.485	ug/l	93
38) Methylcyclohexane	7.385	83	83936	12.336	ug/l	94
39) 1,2-Dichloropropane	7.434	63	68488	16.581	ug/l	95
40) Dibromomethane	7.586	93	53005	17.016	ug/l	98
41) Bromodichloromethane	7.824	83	95124	16.032	ug/l	99
42) Vinyl Acetate	3.721	43	810140	75.858	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	98630	16.056	ug/l	100
44) Isopropyl Acetate	6.342	43	153471	16.170	ug/l	98
45) 1,4-Dioxane	7.659	88	41763	378.807	ug/l #	88
46) Methyl methacrylate	7.696	41	70321	15.160	ug/l	86
47) n-amyl Acetate	10.842	43	129815	16.461	ug/l	98
48) t-1,3-Dichloropropene	8.982	75	96873	15.713	ug/l	100
49) cis-1,3-Dichloropropene	8.366	75	108878	16.153	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	81714	18.189	ug/l	97
51) Ethyl methacrylate	9.116	69	115325	16.757	ug/l	93
52) 1,3-Dichloropropane	9.311	76	128986	17.372	ug/l	99
53) Dibromochloromethane	9.525	129	78231	16.231	ug/l	100
54) 1,2-Dibromoethane	9.610	107	85476	17.607	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	303699	90.157	ug/l	98
56) Bromoform	10.799	173	56117	15.785	ug/l	97
58) 4-Methyl-2-Pentanone	8.574	43	527898	86.650	ug/l	94
59) 2-Hexanone	9.433	43	410513	87.674	ug/l	95
61) Tetrachloroethene	9.275	164	76566	15.860	ug/l	98
62) Toluene	8.720	91	304745	16.667	ug/l	98
64) Chlorobenzene	10.079	112	213362	17.900	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	81077	17.826	ug/l	97
66) Ethyl Benzene	10.195	91	358007	17.236	ug/l	99
67) m/p-Xylenes	10.305	106	285907	35.051	ug/l	97
68) o-Xylene	10.640	106	144916	18.062	ug/l	97
69) Styrene	10.659	104	240411	18.023	ug/l	98
70) Isopropylbenzene	10.963	105	380800	18.066	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	129950	20.443	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	115857m	19.105	ug/l	
73) Bromobenzene	11.201	156	98679	18.652	ug/l	93
74) n-propylbenzene	11.305	91	417519	17.429	ug/l	98
75) 2-Chlorotoluene	11.366	91	260553	17.906	ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	317220	17.948	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	29900	16.687	ug/l	91
78) 4-Chlorotoluene	11.457	91	291541	17.636	ug/l	96
79) tert-butylbenzene	11.719	119	311462	18.058	ug/l	96
80) 1,2,4-Trimethylbenzene	11.750	105	315499	17.873	ug/l	96
81) sec-Butylbenzene	11.890	105	375208	17.185	ug/l	99
82) p-Isopropyltoluene	12.012	119	323490	17.396	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	186718	18.720	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	188423	18.845	ug/l	98
85) n-Butylbenzene	12.335	91	256375	16.828	ug/l	99
86) Hexachloroethane	12.542	117	46729	16.121	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	188063	19.452	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	26230	17.763	ug/l	97
89) 1,2,4-Trichlorobenzene	13.591	180	113390	17.959	ug/l	98
90) Hexachlorobutadiene	13.725	225	47824	18.057	ug/l	97
91) Naphthalene	13.774	128	408985	19.248	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	113186	17.890	ug/l	99

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

