

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070822\
 Data File : VX029966.D
 Acq On : 08 Jul 2022 12:10
 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 07/11/2022
 Supervised By : Mahesh Dadoda 07/11/2022

Quant Time: Jul 08 13:23:59 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X070822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 08 13:22:30 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	31565	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	185368	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	162654	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	75753	37.737	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 125.800%#			
60) 4-Bromofluorobenzene	11.079	95	88212	34.873	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 116.233%#			
63) Toluene-d8	8.653	98	266763	38.715	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 129.033%#			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.166	85	45322	40.580	ug/l	98
3) Chloromethane	1.288	50	45795	52.014	ug/l	99
4) Vinyl Chloride	1.374	62	50447	45.073	ug/l	99
5) Bromomethane	1.611	94	24229	26.276	ug/l	99
6) Chloroethane	1.685	64	28728	33.330	ug/l	95
7) Trichlorofluoromethane	1.886	101	64326	26.285	ug/l	100
8) Diethyl Ether	2.136	74	26779	27.745	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.331	101	43550	30.260	ug/l	95
10) 1,1-Dichloroethene	2.319	96	44559	37.445	ug/l	94
11) Methyl Iodide	2.453	142	28114	17.590	ug/l	91
12) Methyl Acetate	2.709	43	71221	37.490	ug/l	94
13) Acrolein	2.239	56	40129	104.100	ug/l	98
14) Acrylonitrile	3.068	53	156380	180.811	ug/l	97
15) Acetone	2.386	58	42499	173.502	ug/l	82
16) Carbon Disulfide	2.514	76	112072	79.686	ug/l	99
17) Allyl chloride	2.666	41	76474	42.767	ug/l	96
18) Methylene Chloride	2.788	84	52349	34.238	ug/l	93
19) trans-1,2-Dichloroethene	3.093	96	47100	35.828	ug/l	96
20) Diisopropyl ether	3.764	45	152351	34.279	ug/l	95
21) 1,1-Dichloroethane	3.611	63	83900	31.939	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	56050	30.286	ug/l	97
23) tert-Butyl Alcohol	2.977	59	67339	144.163	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	140267	26.807	ug/l	98
25) Chloroform	5.099	83	81279	26.332	ug/l	90
26) Cyclohexane	5.471	56	75379	45.388	ug/l #	95
29) 1,1-Dichloropropene	5.690	75	60365	30.617	ug/l	97
30) 2-Butanone	4.562	43	211550	170.242	ug/l #	94
31) 2,2-Dichloropropane	4.477	77	58203	24.036	ug/l	92
32) 1,1,1-Trichloroethane	5.391	97	65854	23.755	ug/l	97
33) Carbon Tetrachloride	5.684	117	55255	23.423	ug/l	99
34) Benzene	6.037	78	202637	32.268	ug/l	97
35) Methacrylonitrile	4.922	41	42013	33.569	ug/l	95
36) 1,2-Dichloroethane	6.086	62	60488	25.846	ug/l #	93
37) Trichloroethene	7.129	130	53501	27.814	ug/l	95
38) Methylcyclohexane	7.385	83	79619	39.431	ug/l	96
39) 1,2-Dichloropropane	7.434	63	51489	31.192	ug/l	98
40) Dibromomethane	7.586	93	34304	27.093	ug/l	93
41) Bromodichloromethane	7.824	83	61656	25.661	ug/l	96
42) Vinyl Acetate	3.727	43	670784	174.179	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	81993m	35.260	ug/l	
44) Isopropyl Acetate	6.342	43	118138	31.509	ug/l	99
45) 1,4-Dioxane	7.677	88	28447	582.651	ug/l	93
46) Methyl methacrylate	7.696	41	55583	32.438	ug/l	97
47) n-amyl Acetate	10.842	43	96568	29.749	ug/l	97
48) t-1,3-Dichloropropene	8.982	75	64489	25.555	ug/l	95
49) cis-1,3-Dichloropropene	8.366	75	75206	27.735	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	51488	25.860	ug/l	99
51) Ethyl methacrylate	9.116	69	77429	27.177	ug/l	97
52) 1,3-Dichloropropane	9.311	76	82652	26.534	ug/l	99
53) Dibromochloromethane	9.525	129	45756	22.462	ug/l	99
54) 1,2-Dibromoethane	9.610	107	53142	25.657	ug/l	98
55) 2-Chloroethyl vinyl ether	8.244	63	204214	136.522	ug/l	96
56) Bromoform	10.799	173	31095	19.803	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	395520	167.157	ug/l	99
59) 2-Hexanone	9.433	43	306863	167.568	ug/l	98
61) Tetrachloroethene	9.275	164	50686	28.249	ug/l	97
62) Toluene	8.720	91	215270	30.516	ug/l	97
64) Chlorobenzene	10.079	112	127189	25.556	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	44689	22.990	ug/l	94
66) Ethyl Benzene	10.195	91	227107	27.306	ug/l	96
67) m/p-Xylenes	10.305	106	178686	53.595	ug/l	97
68) o-Xylene	10.646	106	89700	26.473	ug/l	94
69) Styrene	10.659	104	143718	25.396	ug/l	97
70) Isopropylbenzene	10.963	105	219924	24.948	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	80047	26.744	ug/l	99
72) 1,2,3-Trichloropropane	11.244	75	74621m	28.019	ug/l	
73) Bromobenzene	11.201	156	51978	21.868	ug/l	94
74) n-propylbenzene	11.305	91	260635	26.517	ug/l	98
75) 2-Chlorotoluene	11.366	91	155226	25.493	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	181796	24.594	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	23145	28.702	ug/l	78
78) 4-Chlorotoluene	11.457	91	172640	25.068	ug/l	100
79) tert-butylbenzene	11.719	119	175179	23.360	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	183410	24.719	ug/l	97
81) sec-Butylbenzene	11.890	105	237745	26.746	ug/l	98
82) p-Isopropyltoluene	12.012	119	191585	24.830	ug/l	97
83) 1,3-Dichlorobenzene	11.969	146	99855	22.398	ug/l	100
84) 1,4-Dichlorobenzene	12.043	146	101245	22.337	ug/l	99
85) n-Butylbenzene	12.335	91	171194	27.492	ug/l	96
86) Hexachloroethane	12.542	117	29959	24.675	ug/l	85
87) 1,2-Dichlorobenzene	12.335	146	99404	22.140	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	17470	27.326	ug/l	96
89) 1,2,4-Trichlorobenzene	13.591	180	60522	21.581	ug/l	97
90) Hexachlorobutadiene	13.725	225	22086	18.576	ug/l	98
91) Naphthalene	13.780	128	244165	24.914	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	60314	21.455	ug/l	98

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

