

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030322\
 Data File : VX027274.D
 Acq On : 03 Mar 2022 16:42
 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 03/04/2022
 Supervised By : Mahesh Dadoda 03/04/2022

Quant Time: Mar 04 00:47:43 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X030322W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 04 00:46:35 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.910	128	12007	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	66448	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	58997	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	24768	28.769	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	95.900%		
60) 4-Bromofluorobenzene	11.079	95	28175	29.518	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.400%		
63) Toluene-d8	8.647	98	83252	31.250	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	104.167%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	15986	22.737	ug/l	100
3) Chloromethane	1.301	50	12776	19.825	ug/l	100
4) Vinyl Chloride	1.380	62	12107	18.890	ug/l	100
5) Bromomethane	1.605	94	6988	22.708	ug/l	100
6) Chloroethane	1.691	64	7037	18.627	ug/l	100
7) Trichlorofluoromethane	1.892	101	20393	20.111	ug/l	100
8) Diethyl Ether	2.136	74	6337	17.833	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	14418	20.378	ug/l	100
10) 1,1-Dichloroethene	2.325	96	13753	19.933	ug/l	100
11) Methyl Iodide	2.459	142	13978	15.862	ug/l	100
12) Methyl Acetate	2.709	43	17913	18.026	ug/l	100
13) Acrolein	2.239	56	13645	82.161	ug/l	100
14) Acrylonitrile	3.069	53	40711	93.226	ug/l	100
15) Acetone	2.386	58	12209	102.330	ug/l	100
16) Carbon Disulfide	2.514	76	36246	19.912	ug/l	100
17) Allyl chloride	2.672	41	23005	18.721	ug/l	100
18) Methylene Chloride	2.794	84	15657	20.071	ug/l	100
19) trans-1,2-Dichloroethene	3.099	96	14872	19.726	ug/l	100
20) Diisopropyl ether	3.764	45	44503	18.527	ug/l	100
21) 1,1-Dichloroethane	3.611	63	25937	19.161	ug/l	100
22) cis-1,2-Dichloroethene	4.495	96	17211	19.853	ug/l	100
23) tert-Butyl Alcohol	2.965	59	15457	90.445	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	45948	19.098	ug/l	100
25) Chloroform	5.099	83	27677	19.810	ug/l	100
26) Cyclohexane	5.483	56	23089	18.561	ug/l #	100
29) 1,1-Dichloropropene	5.696	75	20092	19.354	ug/l	100
30) 2-Butanone	4.562	43	58302	94.724	ug/l	100
31) 2,2-Dichloropropane	4.477	77	19673	20.878	ug/l	100
32) 1,1,1-Trichloroethane	5.391	97	24270	19.591	ug/l	100
33) Carbon Tetrachloride	5.678	117	21935	20.048	ug/l	100
34) Benzene	6.038	78	59715	19.554	ug/l	100
35) Methacrylonitrile	4.928	41	12141	18.931	ug/l	100
36) 1,2-Dichloroethane	6.092	62	21785	19.786	ug/l	100
37) Trichloroethene	7.129	130	17412	19.400	ug/l	100
38) Methylcyclohexane	7.379	83	24718	19.326	ug/l	100
39) 1,2-Dichloropropane	7.434	63	14468	18.944	ug/l	100
40) Dibromomethane	7.580	93	10676	19.368	ug/l	100
41) Bromodichloromethane	7.824	83	20571	19.648	ug/l	100
42) Vinyl Acetate	3.727	43	193195	92.492	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	21248	18.214	ug/l	100
44) Isopropyl Acetate	6.342	43	32887	18.103	ug/l	100
45) 1,4-Dioxane	7.659	88	7557	401.408	ug/l	100
46) Methyl methacrylate	7.696	41	16513	18.499	ug/l	100
47) n-amyl Acetate	10.842	43	26580	18.363	ug/l	100
48) t-1,3-Dichloropropene	8.982	75	20364	19.426	ug/l	100
49) cis-1,3-Dichloropropene	8.366	75	23344	19.740	ug/l	100
50) 1,1,2-Trichloroethane	9.153	97	15144	20.030	ug/l	100
51) Ethyl methacrylate	9.116	69	23028	19.180	ug/l	100
52) 1,3-Dichloropropane	9.311	76	25341	19.570	ug/l	100
53) Dibromochloromethane	9.525	129	16180	20.251	ug/l	100
54) 1,2-Dibromoethane	9.610	107	16177	19.863	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	56963	94.473	ug/l	100
56) Bromoform	10.799	173	11131	19.942	ug/l	100
58) 4-Methyl-2-Pentanone	8.574	43	110237	93.867	ug/l	100
59) 2-Hexanone	9.433	43	83784	93.823	ug/l	100
61) Tetrachloroethene	9.275	164	17763	19.165	ug/l	100
62) Toluene	8.720	91	65209	19.817	ug/l	100
64) Chlorobenzene	10.079	112	41402	20.131	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	15320	20.037	ug/l	100
66) Ethyl Benzene	10.195	91	73242	20.113	ug/l	100
67) m/p-Xylenes	10.305	106	57496	40.769	ug/l	100
68) o-Xylene	10.640	106	28122	20.320	ug/l	100
69) Styrene	10.659	104	46655	20.305	ug/l	100
70) Isopropylbenzene	10.963	105	74353	20.660	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	21592	20.449	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	21064m	20.028	ug/l	
73) Bromobenzene	11.201	156	18385	20.781	ug/l	100
74) n-propylbenzene	11.305	91	83136	20.224	ug/l	100
75) 2-Chlorotoluene	11.366	91	50799	20.061	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	62529	20.712	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	5575	18.261	ug/l	100
78) 4-Chlorotoluene	11.457	91	57572	20.292	ug/l	100
79) tert-butylbenzene	11.713	119	60367	20.756	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	61476	20.458	ug/l	100
81) sec-Butylbenzene	11.890	105	75024	20.374	ug/l	100
82) p-Isopropyltoluene	12.012	119	65941	21.084	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	33535	20.397	ug/l	100
84) 1,4-Dichlorobenzene	12.043	146	33153	20.166	ug/l	100
85) n-Butylbenzene	12.335	91	51413	19.954	ug/l	100
86) Hexachloroethane	12.536	117	9507	19.283	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	33292	20.877	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.945	75	4840	18.857	ug/l	100
89) 1,2,4-Trichlorobenzene	13.591	180	20781	20.509	ug/l	100
90) Hexachlorobutadiene	13.725	225	8803	20.702	ug/l	100
91) Naphthalene	13.780	128	70981	20.129	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	20814	20.348	ug/l	100

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

