

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX110421\
 Data File : VX025070.D
 Acq On : 04 Nov 2021 12:04
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/08/2021
 Supervised By : Mahesh Dadoda 11/10/2021

Quant Time: Nov 07 00:00:21 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X110421W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Nov 03 23:52:56 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	23749	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	6.763	114	132470	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	116128	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	76322	33.673	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	= 112.233%#		
60) 4-Bromofluorobenzene	11.085	95	64842	30.603	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	= 102.000%		
63) Toluene-d8	8.653	98	164391	30.650	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	= 102.167%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	36700	20.180	ug/l	97
3) Chloromethane	1.288	50	17359	18.169	ug/l	98
4) Vinyl Chloride	1.374	62	21644	19.754	ug/l	95
5) Bromomethane	1.617	94	17067	18.973	ug/l	98
6) Chloroethane	1.691	64	11783	19.073	ug/l	98
7) Trichlorofluoromethane	1.892	101	53343	20.172	ug/l	90
8) Diethyl Ether	2.136	74	12540	20.011	ug/l	80
9) 1,1,2-Trichlorotrifluo...	2.337	101	29542	21.416	ug/l	91
10) 1,1-Dichloroethene	2.325	96	24067	20.576	ug/l	93
11) Methyl Iodide	2.453	142	28501	21.622	ug/l	81
12) Methyl Acetate	2.703	43	47052	19.146	ug/l	98
13) Acrolein	2.239	56	10981	98.101	ug/l	96
14) Acrylonitrile	3.068	53	68233	98.573	ug/l	95
15) Acetone	2.386	58	24217	114.504	ug/l	96
16) Carbon Disulfide	2.514	76	61154	20.483	ug/l	96
17) Allyl chloride	2.666	41	39590	21.219	ug/l	95
18) Methylene Chloride	2.788	84	27953	20.417	ug/l	87
19) trans-1,2-Dichloroethene	3.093	96	26421	20.548	ug/l	93
20) Diisopropyl ether	3.763	45	84052	20.823	ug/l #	86
21) 1,1-Dichloroethane	3.611	63	54240	20.250	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	30397	19.922	ug/l	86
23) tert-Butyl Alcohol	2.983	59	39185m	93.088	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	104099	21.056	ug/l #	89
25) Chloroform	5.092	83	61759	19.885	ug/l	97
26) Cyclohexane	5.477	56	48801	22.838	ug/l #	89
29) 1,1-Dichloropropene	5.696	75	47009	22.069	ug/l	92
30) 2-Butanone	4.562	43	105754	98.434	ug/l #	95
31) 2,2-Dichloropropane	4.471	77	57675	21.316	ug/l #	89
32) 1,1,1-Trichloroethane	5.385	97	57435	18.743	ug/l	98
33) Carbon Tetrachloride	5.678	117	53471	19.885	ug/l	97
34) Benzene	6.037	78	108908	20.046	ug/l	96
35) Methacrylonitrile	4.928	41	24031	22.681	ug/l	95
36) 1,2-Dichloroethane	6.086	62	50888	19.331	ug/l #	92
37) Trichloroethene	7.129	130	31134	20.504	ug/l	97
38) Methylcyclohexane	7.379	83	48478	21.193	ug/l	99
39) 1,2-Dichloropropane	7.434	63	28655	19.327	ug/l	97
40) Dibromomethane	7.586	93	23185	20.073	ug/l	92
41) Bromodichloromethane	7.824	83	46606	19.004	ug/l	99
42) Vinyl Acetate	3.721	43	316310	98.403	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	40747m	19.787	ug/l	
44) Isopropyl Acetate	6.342	43	60604	18.815	ug/l	94
45) 1,4-Dioxane	7.696	88	11922	348.550	ug/l	90
46) Methyl methacrylate	7.690	41	29126	18.496	ug/l	91
47) n-amyl Acetate	10.848	43	48765	18.774	ug/l	94
48) t-1,3-Dichloropropene	8.982	75	51416	19.463	ug/l	100
49) cis-1,3-Dichloropropene	8.366	75	50461	19.135	ug/l #	87
50) 1,1,2-Trichloroethane	9.153	97	30185	19.300	ug/l	91
51) Ethyl methacrylate	9.116	69	48333	19.174	ug/l	84
52) 1,3-Dichloropropane	9.311	76	53031	19.843	ug/l	98
53) Dibromochloromethane	9.525	129	35005	19.604	ug/l	99
54) 1,2-Dibromoethane	9.610	107	33186	18.997	ug/l	96
55) 2-Chloroethyl vinyl ether	8.244	63	108130	96.398	ug/l	98
56) Bromoform	10.799	173	22496	18.976	ug/l #	96
58) 4-Methyl-2-Pentanone	8.574	43	192680	98.424	ug/l	92
59) 2-Hexanone	9.433	43	152900	101.648	ug/l	92
61) Tetrachloroethene	9.275	164	29214	21.469	ug/l	97
62) Toluene	8.720	91	122958	20.699	ug/l	94
64) Chlorobenzene	10.079	112	73435	20.467	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	32247	20.119	ug/l	96
66) Ethyl Benzene	10.195	91	146891	20.913	ug/l	97
67) m/p-Xylenes	10.305	106	101162	41.886	ug/l	81
68) o-Xylene	10.646	106	48676	20.639	ug/l	78
69) Styrene	10.659	104	84832	21.173	ug/l	93
70) Isopropylbenzene	10.963	105	146984	21.450	ug/l	93
71) 1,1,2,2-Tetrachloroethane	11.213	83	45799	20.247	ug/l	99
72) 1,2,3-Trichloropropane	11.244	75	44639m	20.375	ug/l	
73) Bromobenzene	11.201	156	31754	20.738	ug/l	84
74) n-propylbenzene	11.305	91	170156	20.938	ug/l	98
75) 2-Chlorotoluene	11.366	91	106232	20.859	ug/l	92
76) 1,3,5-Trimethylbenzene	11.451	105	125471	20.995	ug/l	91
77) t-1,4-Dichloro-2-butene	11.018	75	14418	19.545	ug/l	98
78) 4-Chlorotoluene	11.457	91	118982	20.470	ug/l	95
79) tert-butylbenzene	11.719	119	118354	21.020	ug/l	93
80) 1,2,4-Trimethylbenzene	11.756	105	120579	20.517	ug/l	96
81) sec-Butylbenzene	11.890	105	153135	21.860	ug/l	98
82) p-Isopropyltoluene	12.012	119	122892	21.150	ug/l	94
83) 1,3-Dichlorobenzene	11.969	146	57560	20.215	ug/l	96
84) 1,4-Dichlorobenzene	12.042	146	55232	19.478	ug/l	95
85) n-Butylbenzene	12.335	91	106056	20.013	ug/l	95
86) Hexachloroethane	12.542	117	21310	20.572	ug/l	87
87) 1,2-Dichlorobenzene	12.335	146	51399	18.334	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	12.945	75	12469	20.153	ug/l #	76
89) 1,2,4-Trichlorobenzene	13.591	180	36830	21.687	ug/l	94
90) Hexachlorobutadiene	13.725	225	18493	21.553	ug/l	98
91) Naphthalene	13.780	128	115781	19.949	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	35759	20.644	ug/l	97

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

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