

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080921\
 Data File : VX023622.D
 Acq On : 09 Aug 2021 18:45
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda

8/11/2021 5:17:18 PM

Quant Time: Aug 10 03:58:56 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X080321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Aug 03 12:05:42 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.910	128	41383	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	233485	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	209926	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	96616	30.189	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.633%			
60) 4-Bromofluorobenzene	11.085	95	102989	29.952	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.833%			
63) Toluene-d8	8.653	98	287234	30.402	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.333%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.173	85	46762	19.131	ug/l	98
3) Chloromethane	1.294	50	52197	18.928	ug/l	99
4) Vinyl Chloride	1.374	62	52361	18.984	ug/l	99
5) Bromomethane	1.605	94	34459	21.291	ug/l	100
6) Chloroethane	1.685	64	32423	18.774	ug/l	95
7) Trichlorofluoromethane	1.892	101	82795	18.587	ug/l	95
8) Diethyl Ether	2.142	74	29343	18.474	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	47063	18.913	ug/l	100
10) 1,1-Dichloroethene	2.325	96	45952	19.166	ug/l	91
11) Methyl Iodide	2.459	142	62472	18.545	ug/l	96
12) Methyl Acetate	2.715	43	69161	19.342	ug/l	96
13) Acrolein	2.239	56	38148	96.901	ug/l	100
14) Acrylonitrile	3.075	53	149241	94.345	ug/l	97
15) Acetone	2.392	58	40631	84.755	ug/l	93
16) Carbon Disulfide	2.514	76	100936	17.066	ug/l	100
17) Allyl chloride	2.672	41	82743	18.677	ug/l	97
18) Methylene Chloride	2.794	84	54847	19.451	ug/l	99
19) trans-1,2-Dichloroethene	3.099	96	48756	19.001	ug/l	98
20) Diisopropyl ether	3.770	45	171857	19.426	ug/l	98
21) 1,1-Dichloroethane	3.617	63	92551	19.207	ug/l	99
22) cis-1,2-Dichloroethene	4.501	96	57633	19.299	ug/l	98
23) tert-Butyl Alcohol	2.977	59	68180	94.985	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	164810	19.597	ug/l	98
25) Chloroform	5.105	83	96919	19.607	ug/l	99
26) Cyclohexane	5.477	56	82839	18.935	ug/l #	98
29) 1,1-Dichloropropene	5.702	75	69021	18.980	ug/l	99
30) 2-Butanone	4.568	43	218922	89.812	ug/l	99
31) 2,2-Dichloropropane	4.489	77	72585	17.656	ug/l #	76
32) 1,1,1-Trichloroethane	5.391	97	81671	18.565	ug/l	98
33) Carbon Tetrachloride	5.684	117	71394	18.659	ug/l	99
34) Benzene	6.050	78	206697	18.853	ug/l	96
35) Methacrylonitrile	4.934	41	45538	18.581	ug/l	98
36) 1,2-Dichloroethane	6.098	62	81318	19.410	ug/l	99
37) Trichloroethene	7.129	130	54141	18.176	ug/l	96
38) Methylcyclohexane	7.385	83	82507	17.837	ug/l	98
39) 1,2-Dichloropropane	7.440	63	55116	19.211	ug/l	96
40) Dibromomethane	7.586	93	37741	18.545	ug/l	99
41) Bromodichloromethane	7.830	83	67844	18.368	ug/l	98
42) Vinyl Acetate	3.733	43	763616	96.175	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.727	43	87009m	19.243	ug/l	
44) Isopropyl Acetate	6.354	43	137449	19.094	ug/l	100
45) 1,4-Dioxane	7.665	88	27120	363.065	ug/l	96
46) Methyl methacrylate	7.696	41	65145	18.765	ug/l	97
47) n-amyl Acetate	10.848	43	118591	19.363	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	78401	18.180	ug/l	100
49) cis-1,3-Dichloropropene	8.372	75	83097	18.170	ug/l	96
50) 1,1,2-Trichloroethane	9.159	97	55655	18.935	ug/l	98
51) Ethyl methacrylate	9.122	69	86400	18.644	ug/l	98
52) 1,3-Dichloropropane	9.311	76	92173	19.103	ug/l	98
53) Dibromochloromethane	9.525	129	51227	17.341	ug/l	100
54) 1,2-Dibromoethane	9.616	107	58204	18.713	ug/l	100
55) 2-Chloroethyl vinyl ether	8.251	63	216862	93.697	ug/l	99
56) Bromoform	10.805	173	35416	16.708	ug/l	99
58) 4-Methyl-2-Pentanone	8.580	43	445330	98.401	ug/l	100
59) 2-Hexanone	9.433	43	345749	98.381	ug/l	100
61) Tetrachloroethene	9.281	164	49448	17.531	ug/l	96
62) Toluene	8.726	91	229676	19.393	ug/l	98
64) Chlorobenzene	10.079	112	144544	19.290	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.165	131	51694	18.634	ug/l	98
66) Ethyl Benzene	10.195	91	251454	19.186	ug/l	98
67) m/p-Xylenes	10.305	106	190864	37.657	ug/l	100
68) o-Xylene	10.646	106	94740	18.960	ug/l	99
69) Styrene	10.659	104	152743	18.548	ug/l	100
70) Isopropylbenzene	10.963	105	249502	18.991	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	83222	19.801	ug/l	98
72) 1,2,3-Trichloropropane	11.244	75	78456m	19.859	ug/l	
73) Bromobenzene	11.201	156	61576	19.251	ug/l	96
74) n-propylbenzene	11.305	91	282370	18.560	ug/l	100
75) 2-Chlorotoluene	11.366	91	172674	19.014	ug/l	99
76) 1,3,5-Trimethylbenzene	11.457	105	207358	19.031	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	24456	17.342	ug/l	99
78) 4-Chlorotoluene	11.457	91	192375	18.747	ug/l	99
79) tert-butylbenzene	11.719	119	202498	19.132	ug/l	99
80) 1,2,4-Trimethylbenzene	11.756	105	204580	18.947	ug/l	100
81) sec-Butylbenzene	11.896	105	251012	18.516	ug/l	100
82) p-Isopropyltoluene	12.012	119	207074	18.590	ug/l	99
83) 1,3-Dichlorobenzene	11.975	146	107887	18.622	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	105218	18.374	ug/l	98
85) n-Butylbenzene	12.335	91	178418	18.106	ug/l	99
86) Hexachloroethane	12.542	117	31925	17.634	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	104095	18.619	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	16421	17.789	ug/l	97
89) 1,2,4-Trichlorobenzene	13.591	180	61474	17.775	ug/l	99
90) Hexachlorobutadiene	13.725	225	26298	16.952	ug/l	99
91) Naphthalene	13.780	128	222423	18.725	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	63738	18.344	ug/l	98

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

