

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080321\
 Data File : VX023521.D
 Acq On : 03 Aug 2021 11:12
 Operator : JC/MD
 Sample : VSTDIC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC100

Manual Integrations
 APPROVED

MMDadoda
 8/6/2021 5:39:20 PM

Quant Time: Aug 03 11:40:16 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X080321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Aug 03 11:36:59 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.910	128	36983	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	209732	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.061	117	197092	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	86898	30.901	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.000%			
60) 4-Bromofluorobenzene	11.085	95	98799	31.030	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 103.433%			
63) Toluene-d8	8.653	98	259365	29.162	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 97.200%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	234942	106.845	ug/l	98
3) Chloromethane	1.294	50	261201	105.290	ug/l	99
4) Vinyl Chloride	1.374	62	264626	107.048	ug/l	98
5) Bromomethane	1.599	94	144161	96.350	ug/l	97
6) Chloroethane	1.672	64	166267	108.251	ug/l	97
7) Trichlorofluoromethane	1.880	101	426937	107.935	ug/l	96
8) Diethyl Ether	2.136	74	152789	107.662	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.325	101	235770	106.820	ug/l	100
10) 1,1-Dichloroethene	2.319	96	229008	107.501	ug/l	92
11) Methyl Iodide	2.453	142	354236	118.472	ug/l	97
12) Methyl Acetate	2.709	43	343624	107.274	ug/l	99
13) Acrolein	2.239	56	173590	476.205	ug/l	98
14) Acrylonitrile	3.075	53	764472	534.317	ug/l	98
15) Acetone	2.392	58	215022	514.446	ug/l	93
16) Carbon Disulfide	2.508	76	593949	115.242	ug/l	100
17) Allyl chloride	2.666	41	432949	110.911	ug/l	98
18) Methylene Chloride	2.794	84	262158	103.931	ug/l	99
19) trans-1,2-Dichloroethene	3.093	96	246211	108.175	ug/l	99
20) Diisopropyl ether	3.770	45	852192	108.327	ug/l	99
21) 1,1-Dichloroethane	3.617	63	464936	108.887	ug/l	99
22) cis-1,2-Dichloroethene	4.495	96	289681	107.987	ug/l	97
23) tert-Butyl Alcohol	2.989	59	339822	535.585	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	819262	108.114	ug/l	99
25) Chloroform	5.105	83	477811	108.311	ug/l	97
26) Cyclohexane	5.477	56	426361	108.086	ug/l #	100
29) 1,1-Dichloropropene	5.702	75	356118	109.905	ug/l	100
30) 2-Butanone	4.574	43	1143757	526.921	ug/l	100
31) 2,2-Dichloropropane	4.483	77	394151	110.234	ug/l	97
32) 1,1,1-Trichloroethane	5.391	97	427512	110.303	ug/l	99
33) Carbon Tetrachloride	5.684	117	376877	111.804	ug/l	98
34) Benzene	6.044	78	1037585	106.517	ug/l	98
35) Methacrylonitrile	4.928	41	233466	107.892	ug/l	99
36) 1,2-Dichloroethane	6.092	62	395814	107.239	ug/l	99
37) Trichloroethene	7.129	130	284062	107.912	ug/l	98
38) Methylcyclohexane	7.385	83	447331	108.347	ug/l	99
39) 1,2-Dichloropropane	7.440	63	274940	107.901	ug/l	97
40) Dibromomethane	7.586	93	193767	109.143	ug/l	97
41) Bromodichloromethane	7.830	83	367914	114.445	ug/l	100
42) Vinyl Acetate	3.733	43	3825804	541.946	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.727	43	434274	106.278	ug/l	99
44) Isopropyl Acetate	6.348	43	702721	109.020	ug/l	100
45) 1,4-Dioxane	7.665	88	138741	2094.002	ug/l	97
46) Methyl methacrylate	7.702	41	344994	111.084	ug/l	96
47) n-amyl Acetate	10.848	43	605482	111.821	ug/l	98
48) t-1,3-Dichloropropene	8.982	75	438646	116.825	ug/l	98
49) cis-1,3-Dichloropropene	8.372	75	453234	112.886	ug/l	98
50) 1,1,2-Trichloroethane	9.159	97	282782	109.459	ug/l	97
51) Ethyl methacrylate	9.122	69	467160	112.715	ug/l	99
52) 1,3-Dichloropropane	9.311	76	465712	108.753	ug/l	99
53) Dibromochloromethane	9.525	129	304149	119.699	ug/l	100
54) 1,2-Dibromoethane	9.616	107	308433	112.240	ug/l	100
55) 2-Chloroethyl vinyl ether	8.251	63	1173746	571.770	ug/l	100
56) Bromoform	10.805	173	218515	121.176	ug/l	99
58) 4-Methyl-2-Pentanone	8.580	43	2232177	530.383	ug/l	99
59) 2-Hexanone	9.439	43	1695007	519.268	ug/l	99
61) Tetrachloroethene	9.281	164	272752	103.616	ug/l	95
62) Toluene	8.726	91	1174562	105.679	ug/l	99
64) Chlorobenzene	10.086	112	748230	107.905	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	280279	112.371	ug/l	99
66) Ethyl Benzene	10.195	91	1330929	108.611	ug/l	99
67) m/p-Xylenes	10.305	106	1030898	219.902	ug/l	99
68) o-Xylene	10.646	106	510969	109.841	ug/l	100
69) Styrene	10.659	104	847290	112.360	ug/l	99
70) Isopropylbenzene	10.963	105	1344262	111.294	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.220	83	407649	104.890	ug/l	99
72) 1,2,3-Trichloropropane	11.244	75	379735m	104.500	ug/l	
73) Bromobenzene	11.201	156	323643	108.170	ug/l	96
74) n-propylbenzene	11.305	91	1566958	112.145	ug/l	99
75) 2-Chlorotoluene	11.366	91	917952	109.703	ug/l	98
76) 1,3,5-Trimethylbenzene	11.457	105	1107002	109.970	ug/l	99
77) t-1,4-Dichloro-2-butene	11.024	75	152676	119.772	ug/l	93
78) 4-Chlorotoluene	11.457	91	1050978	111.838	ug/l	99
79) tert-butylbenzene	11.719	119	1078565	110.092	ug/l	99
80) 1,2,4-Trimethylbenzene	11.756	105	1085089	108.968	ug/l	100
81) sec-Butylbenzene	11.896	105	1388353	110.971	ug/l	100
82) p-Isopropyltoluene	12.012	119	1146732	111.183	ug/l	99
83) 1,3-Dichlorobenzene	11.975	146	585969	109.945	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	580513	110.121	ug/l	98
85) n-Butylbenzene	12.335	91	1025273	112.302	ug/l	100
86) Hexachloroethane	12.542	117	195332	119.153	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	556694	108.670	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	100294	120.240	ug/l	98
89) 1,2,4-Trichlorobenzene	13.591	180	365401	115.300	ug/l	99
90) Hexachlorobutadiene	13.725	225	157701	111.178	ug/l	98
91) Naphthalene	13.780	128	1271939	115.804	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	369389	115.054	ug/l	98

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

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