

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092521\
 Data File : VN068690.D
 Acq On : 26 Sep 2021 1:58
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVU092521

Manual Integrations
 APPROVED

MMDadoda
 9/27/2021 11:01:36 AM

Quant Time: Sep 27 07:15:52 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N092521W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Sep 27 07:10:18 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.662	128	92416	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	526082	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.746	117	489932	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	253707	33.392	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 111.300%#			
60) 4-Bromofluorobenzene	12.733	95	230554	30.806	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.700%			
63) Toluene-d8	10.443	98	703269	32.435	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 108.100%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.072	85	123819	24.226	ug/l	94
3) Chloromethane	2.303	50	183640	27.136	ug/l	96
4) Vinyl Chloride	2.445	62	200861	25.825	ug/l	99
5) Bromomethane	2.861	94	120483	23.735	ug/l	94
6) Chloroethane	3.022	64	121037	22.684	ug/l	100
7) Trichlorofluoromethane	3.376	101	226987	24.583	ug/l	99
8) Diethyl Ether	3.829	74	80268	24.147	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.218	101	118574	23.726	ug/l	98
10) 1,1-Dichloroethene	4.189	96	112403	23.375	ug/l	96
11) Methyl Iodide	4.427	142	124325	20.303	ug/l	94
12) Methyl Acetate	4.856	43	244448	23.618	ug/l	98
13) Acrolein	4.044	56	41749	131.132	ug/l #	87
14) Acrylonitrile	5.554	53	357683	117.753	ug/l	99
15) Acetone	4.290	58	88822	118.250	ug/l	80
16) Carbon Disulfide	4.537	76	333818	23.471	ug/l	99
17) Allyl chloride	4.848	41	223405	23.844	ug/l	97
18) Methylene Chloride	5.098	84	136613	23.265	ug/l	96
19) trans-1,2-Dichloroethene	5.602	96	123604	23.182	ug/l	90
20) Diisopropyl ether	6.498	45	483307	23.923	ug/l	98
21) 1,1-Dichloroethane	6.393	63	252669	23.381	ug/l	99
22) cis-1,2-Dichloroethene	7.326	96	129928	20.644	ug/l	96
23) tert-Butyl Alcohol	5.366	59	126070	123.806	ug/l #	100
24) Methyl tert-Butyl Ether	5.618	73	434436	24.018	ug/l	95
25) Chloroform	7.820	83	232761	20.537	ug/l	99
26) Cyclohexane	8.096	56	197829	18.824	ug/l #	99
29) 1,1-Dichloropropene	8.225	75	166242	18.749	ug/l	99
30) 2-Butanone	7.335	43	464653	103.874	ug/l	99
31) 2,2-Dichloropropane	7.326	77	148071	19.960	ug/l	98
32) 1,1,1-Trichloroethane	8.018	97	208667	19.189	ug/l	99
33) Carbon Tetrachloride	8.209	117	183181	19.370	ug/l	98
34) Benzene	8.464	78	498775	19.213	ug/l	98
35) Methacrylonitrile	7.638	41	92676	19.213	ug/l	97
36) 1,2-Dichloroethane	8.533	62	203288	20.196	ug/l	98
37) Trichloroethene	9.217	130	120174	18.850	ug/l	95
38) Methylcyclohexane	9.464	83	194007	18.960	ug/l	97
39) 1,2-Dichloropropane	9.491	63	129073	18.891	ug/l	97
40) Dibromomethane	9.579	93	89742	18.362	ug/l	97
41) Bromodichloromethane	9.764	83	181413	18.423	ug/l	97
42) Vinyl Acetate	6.436	43	1899753	116.856	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.412	43	190768	19.329	ug/l	100
44) Isopropyl Acetate	8.563	43	329227	19.161	ug/l	99
45) 1,4-Dioxane	9.569	88	41071	370.664	ug/l	94
46) Methyl methacrylate	9.561	41	143327	18.194	ug/l	97
47) n-amyl Acetate	12.390	43	235531	15.119	ug/l	100
48) t-1,3-Dichloropropene	10.719	75	189708	15.887	ug/l	99
49) cis-1,3-Dichloropropene	10.191	75	196187	16.228	ug/l	95
50) 1,1,2-Trichloroethane	10.899	97	122549	15.384	ug/l	94
51) Ethyl methacrylate	10.762	69	201142	15.077	ug/l	97
52) 1,3-Dichloropropane	11.046	76	212751	15.395	ug/l	99
53) Dibromochloromethane	11.239	129	134834	15.592	ug/l	99
54) 1,2-Dibromoethane	11.347	107	129327	15.770	ug/l	98
55) 2-Chloroethyl vinyl ether	10.043	63	186594	62.677	ug/l	99
56) Bromoform	12.460	173	90507	15.575	ug/l #	99
58) 4-Methyl-2-Pentanone	10.333	43	999364	104.566	ug/l	99
59) 2-Hexanone	11.087	43	711044	97.356	ug/l	99
61) Tetrachloroethene	10.979	164	111093	19.502	ug/l	96
62) Toluene	10.507	91	560551	20.953	ug/l	100
64) Chlorobenzene	11.773	112	331558	19.341	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.843	131	128155	19.981	ug/l	99
66) Ethyl Benzene	11.846	91	606927	19.585	ug/l	99
67) m/p-Xylenes	11.956	106	456493	39.251	ug/l	96
68) o-Xylene	12.283	106	222860	19.765	ug/l	93
69) Styrene	12.296	104	352569	19.504	ug/l	97
70) Isopropylbenzene	12.580	105	584041	20.283	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.827	83	173331	19.961	ug/l	99
72) 1,2,3-Trichloropropane	12.884	75	160414m	19.834	ug/l	
73) Bromobenzene	12.862	156	128538	19.885	ug/l	96
74) n-propylbenzene	12.921	91	651342	19.931	ug/l	99
75) 2-Chlorotoluene	13.010	91	395959	20.168	ug/l	97
76) 1,3,5-Trimethylbenzene	13.061	105	478856	20.730	ug/l	98
77) t-1,4-Dichloro-2-butene	12.626	75	47499	18.336	ug/l	92
78) 4-Chlorotoluene	13.106	91	379042	20.351	ug/l	99
79) tert-butylbenzene	13.326	119	417311	20.941	ug/l	99
80) 1,2,4-Trimethylbenzene	13.369	105	462493m	21.120	ug/l	
81) sec-Butylbenzene	13.503	105	566349	20.731	ug/l	99
82) p-Isopropyltoluene	13.618	119	453644	20.785	ug/l	99
83) 1,3-Dichlorobenzene	13.616	146	222878	20.826	ug/l	99
84) 1,4-Dichlorobenzene	13.696	146	217478	21.018	ug/l	99
85) n-Butylbenzene	13.946	91	362863	20.115	ug/l	99
86) Hexachloroethane	14.214	117	88840	20.777	ug/l	98
87) 1,2-Dichlorobenzene	13.991	146	219106	21.014	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.605	75	33904	21.829	ug/l	93
89) 1,2,4-Trichlorobenzene	15.265	180	103335	20.054	ug/l	99
90) Hexachlorobutadiene	15.372	225	54149	20.366	ug/l	98
91) Naphthalene	15.507	128	295811	20.945	ug/l	99
92) 1,2,3-Trichlorobenzene	15.702	180	103383	20.881	ug/l	99

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

