

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090321\
 Data File : VN068405.D
 Acq On : 3 Sep 2021 13:50
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN090321

Manual Integrations
 APPROVED

Quant Time: Sep 04 03:10:06 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 03 13:24:01 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.662	128	113359	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	606253	30.000	ug/l	# 0.00
57) Chlorobenzene-d5	11.747	117	544897	30.000	ug/l	# 0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.440	65	208146	30.971	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 103.233%	
60) 4-Bromofluorobenzene	12.734	95	235973	30.580	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 101.933%	
63) Toluene-d8	10.443	98	738095	30.417	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 101.400%	

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9/7/2021 4:39:12 PM

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.078	85	121563	21.179	ug/l	97
3) Chloromethane	2.309	50	108404	20.874	ug/l	98
4) Vinyl Chloride	2.451	62	160875	20.789	ug/l	91
5) Bromomethane	2.859	94	166441	23.457	ug/l	92
6) Chloroethane	3.025	64	117726m	21.325	ug/l	
7) Trichlorofluoromethane	3.384	101	220577	20.839	ug/l	96
8) Diethyl Ether	3.832	74	68212	20.288	ug/l	77
9) 1,1,2-Trichlorotrifluo...	4.221	101	124847	20.746	ug/l	82
10) 1,1-Dichloroethene	4.191	96	114831	20.308	ug/l	# 77
11) Methyl Iodide	4.433	142	162268	17.838	ug/l	85
12) Methyl Acetate	4.859	43	114652	20.146	ug/l	# 83
13) Acrolein	4.047	56	43583	85.441	ug/l	# 60
14) Acrylonitrile	5.559	53	234514	101.619	ug/l	99
15) Acetone	4.291	58	79276	116.875	ug/l	80
16) Carbon Disulfide	4.540	76	303221	20.521	ug/l	99
17) Allyl chloride	4.851	41	144701	20.892	ug/l	89
18) Methylene Chloride	5.103	84	128042	20.691	ug/l	# 82
19) trans-1,2-Dichloroethene	5.608	96	126078	20.003	ug/l	# 77
20) Diisopropyl ether	6.498	45	313204	20.691	ug/l	# 93
21) 1,1-Dichloroethane	6.393	63	203037	20.282	ug/l	# 93
22) cis-1,2-Dichloroethene	7.327	96	146817	20.047	ug/l	# 79
23) tert-Butyl Alcohol	5.364	59	96383	113.787	ug/l	# 100
24) Methyl tert-Butyl Ether	5.618	73	368728	20.071	ug/l	# 89
25) Chloroform	7.820	83	235323	20.014	ug/l	99
26) Cyclohexane	8.099	56	179841	20.509	ug/l	# 80
29) 1,1-Dichloropropene	8.225	75	170845	19.644	ug/l	90
30) 2-Butanone	7.335	43	313914	100.881	ug/l	# 87
31) 2,2-Dichloropropane	7.329	77	197477	19.938	ug/l	# 83
32) 1,1,1-Trichloroethane	8.016	97	221750	19.412	ug/l	92
33) Carbon Tetrachloride	8.209	117	201910	19.131	ug/l	96
34) Benzene	8.461	78	499755	19.440	ug/l	# 93
35) Methacrylonitrile	7.635	41	58691	19.306	ug/l	84
36) 1,2-Dichloroethane	8.531	62	169020	19.636	ug/l	# 94
37) Trichloroethene	9.220	130	159836	19.451	ug/l	# 75
38) Methylcyclohexane	9.462	83	221750	19.641	ug/l	84
39) 1,2-Dichloropropane	9.491	63	116587	19.130	ug/l	100
40) Dibromomethane	9.580	93	94674	19.630	ug/l	76
41) Bromodichloromethane	9.765	83	179922	19.309	ug/l	# 99
42) Vinyl Acetate	6.436	43	1153940	98.050	ug/l	# 91

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.413	43	126782	20.489	ug/l #	74
44) Isopropyl Acetate	8.560	43	219254	19.504	ug/l	91
45) 1,4-Dioxane	9.572	88	41070	408.717	ug/l #	85
46) Methyl methacrylate	9.561	41	88425	18.605	ug/l	83
47) n-amyl Acetate	12.388	43	144625	18.804	ug/l #	88
48) t-1,3-Dichloropropene	10.722	75	178534	19.469	ug/l	100
49) cis-1,3-Dichloropropene	10.191	75	196713	19.449	ug/l #	83
50) 1,1,2-Trichloroethane	10.899	97	131847	19.379	ug/l	95
51) Ethyl methacrylate	10.762	69	167854	19.189	ug/l	80
52) 1,3-Dichloropropane	11.047	76	201926	19.657	ug/l	98
53) Dibromochloromethane	11.240	129	158704	19.355	ug/l	97
54) 1,2-Dibromoethane	11.347	107	139259	19.582	ug/l	99
55) 2-Chloroethyl vinyl ether	10.044	63	55576	94.020	ug/l #	93
56) Bromoform	12.460	173	116795	18.614	ug/l #	98
58) 4-Methyl-2-Pentanone	10.331	43	637533	100.545	ug/l #	89
59) 2-Hexanone	11.087	43	449538	102.159	ug/l	88
61) Tetrachloroethene	10.980	164	162456	19.283	ug/l	89
62) Toluene	10.508	91	591674	19.790	ug/l	99
64) Chlorobenzene	11.773	112	375930	19.503	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.843	131	149007	19.308	ug/l	98
66) Ethyl Benzene	11.846	91	628299	19.523	ug/l	92
67) m/p-Xylenes	11.956	106	520596	39.451	ug/l	77
68) o-Xylene	12.283	106	253095	19.802	ug/l	76
69) Styrene	12.296	104	392071	19.429	ug/l #	90
70) Isopropylbenzene	12.581	105	653814	19.860	ug/l	94
71) 1,1,2,2-Tetrachloroethane	12.830	83	167653	19.913	ug/l	98
72) 1,2,3-Trichloropropane	12.884	75	140510m	20.358	ug/l	
73) Bromobenzene	12.862	156	177090	19.437	ug/l	51
74) n-propylbenzene	12.924	91	707622	19.899	ug/l	88
75) 2-Chlorotoluene	13.010	91	422080	20.001	ug/l #	100
76) 1,3,5-Trimethylbenzene	13.061	105	540215	19.834	ug/l	90
77) t-1,4-Dichloro-2-butene	12.626	75	39895	19.066	ug/l	85
78) 4-Chlorotoluene	13.106	91	406185	19.630	ug/l	80
79) tert-butylbenzene	13.326	119	496132	19.924	ug/l	81
80) 1,2,4-Trimethylbenzene	13.369	105	528915m	19.992	ug/l	
81) sec-Butylbenzene	13.503	105	663037	19.835	ug/l	90
82) p-Isopropyltoluene	13.619	119	564773	19.632	ug/l	89
83) 1,3-Dichlorobenzene	13.619	146	317264	19.720	ug/l	90
84) 1,4-Dichlorobenzene	13.696	146	306508	19.761	ug/l	91
85) n-Butylbenzene	13.943	91	405571	18.908	ug/l	95
86) Hexachloroethane	14.211	117	91619	18.827	ug/l	71
87) 1,2-Dichlorobenzene	13.991	146	299332	19.573	ug/l	92
88) 1,2-Dibromo-3-Chloropr...	14.603	75	27714	19.019	ug/l #	28
89) 1,2,4-Trichlorobenzene	15.265	180	148301	18.053	ug/l	96
90) Hexachlorobutadiene	15.370	225	93772	19.424	ug/l	96
91) Naphthalene	15.507	128	331505	19.091	ug/l	99
92) 1,2,3-Trichlorobenzene	15.703	180	141109	18.060	ug/l	93

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

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