

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092521\
 Data File : VN068693.D
 Acq On : 26 Sep 2021 4:04
 Operator : JC/MD
 Sample : VN0925WBSD02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0925WBSD02

Manual Integrations
 APPROVED

MMDadoda
 9/27/2021 11:01:39 AM

Quant Time: Sep 27 07:23:43 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	71821	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	428052	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.747	117	385876	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	187728	31.794	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 105.967%			
60) 4-Bromofluorobenzene	12.734	95	171001	29.010	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 96.700%			
63) Toluene-d8	10.443	98	529203	30.988	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.300%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.073	85	86039	21.662	ug/l	97
3) Chloromethane	2.303	50	111319	21.166	ug/l	97
4) Vinyl Chloride	2.443	62	128588	21.273	ug/l	99
5) Bromomethane	2.864	94	90226	22.871	ug/l	97
6) Chloroethane	3.022	64	96735	23.328	ug/l	96
7) Trichlorofluoromethane	3.376	101	148352	20.674	ug/l	98
8) Diethyl Ether	3.829	74	54098	20.941	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.216	101	80408	20.703	ug/l	86
10) 1,1-Dichloroethene	4.192	96	75393	20.174	ug/l	99
11) Methyl Iodide	4.425	142	91967	19.325	ug/l	99
12) Methyl Acetate	4.857	43	156798	19.494	ug/l	99
13) Acrolein	4.047	56	27664	111.808	ug/l #	32
14) Acrylonitrile	5.557	53	235402	99.720	ug/l	98
15) Acetone	4.285	58	57764	98.954	ug/l	96
16) Carbon Disulfide	4.535	76	222811	20.158	ug/l	98
17) Allyl chloride	4.846	41	141774	19.471	ug/l	95
18) Methylene Chloride	5.103	84	95220	20.866	ug/l	98
19) trans-1,2-Dichloroethene	5.602	96	83944	20.259	ug/l	98
20) Diisopropyl ether	6.495	45	363176	23.131	ug/l	94
21) 1,1-Dichloroethane	6.391	63	197607	23.529	ug/l	100
22) cis-1,2-Dichloroethene	7.329	96	102164	20.888	ug/l	99
23) tert-Butyl Alcohol	5.366	59	79384	100.313	ug/l #	100
24) Methyl tert-Butyl Ether	5.618	73	290537	20.669	ug/l	98
25) Chloroform	7.820	83	178830	20.304	ug/l	98
26) Cyclohexane	8.096	56	159152	19.486	ug/l #	96
29) 1,1-Dichloropropene	8.225	75	130761	18.125	ug/l #	69
30) 2-Butanone	7.335	43	346430	95.181	ug/l	100
31) 2,2-Dichloropropane	7.329	77	103385	17.128	ug/l	100
32) 1,1,1-Trichloroethane	8.016	97	177991	20.117	ug/l	100
33) Carbon Tetrachloride	8.206	117	140820	18.301	ug/l	100
34) Benzene	8.461	78	398704	18.876	ug/l	98
35) Methacrylonitrile	7.638	41	72933	18.583	ug/l	97
36) 1,2-Dichloroethane	8.531	62	153671	18.763	ug/l	100
37) Trichloroethene	9.218	130	94320	18.183	ug/l	98
38) Methylcyclohexane	9.462	83	148829	17.876	ug/l	98
39) 1,2-Dichloropropane	9.491	63	100585	18.093	ug/l	99
40) Dibromomethane	9.580	93	68696	17.274	ug/l	99
41) Bromodichloromethane	9.762	83	142856	17.830	ug/l	99
42) Vinyl Acetate	6.434	43	1439899m	108.854	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.415	43	141491	17.619	ug/l	99
44) Isopropyl Acetate	8.560	43	254696	18.218	ug/l	99
45) 1,4-Dioxane	9.569	88	31278	346.930	ug/l	96
46) Methyl methacrylate	9.561	41	110482	17.236	ug/l	98
47) n-amyl Acetate	12.390	43	175367	13.835	ug/l	98
48) t-1,3-Dichloropropene	10.719	75	141558	14.570	ug/l	98
49) cis-1,3-Dichloropropene	10.191	75	146922	14.936	ug/l	98
50) 1,1,2-Trichloroethane	10.902	97	95759	14.774	ug/l	99
51) Ethyl methacrylate	10.762	69	152607	14.059	ug/l	95
52) 1,3-Dichloropropane	11.047	76	165399	14.709	ug/l	100
53) Dibromochloromethane	11.240	129	104652	14.874	ug/l	100
54) 1,2-Dibromoethane	11.347	107	99139	14.857	ug/l	98
55) 2-Chloroethyl vinyl ether	10.044	63	141990	58.617	ug/l	100
56) Bromoform	12.460	173	70475	14.905	ug/l #	99
58) 4-Methyl-2-Pentanone	10.331	43	753403	100.088	ug/l	100
59) 2-Hexanone	11.087	43	544054	94.579	ug/l	99
61) Tetrachloroethene	10.980	164	88211	19.661	ug/l	99
62) Toluene	10.508	91	425503	20.194	ug/l	100
64) Chlorobenzene	11.773	112	256515	18.998	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.843	131	97911	19.382	ug/l	99
66) Ethyl Benzene	11.846	91	471483	19.317	ug/l	99
67) m/p-Xylenes	11.956	106	352668	38.501	ug/l	98
68) o-Xylene	12.283	106	171082	19.265	ug/l	98
69) Styrene	12.296	104	266534	18.720	ug/l	98
70) Isopropylbenzene	12.581	105	440262	19.412	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.827	83	133093	19.460	ug/l	99
72) 1,2,3-Trichloropropane	12.881	75	125812m	19.751	ug/l	
73) Bromobenzene	12.862	156	99236	19.492	ug/l	98
74) n-propylbenzene	12.921	91	496276	19.281	ug/l	99
75) 2-Chlorotoluene	13.007	91	297118	19.214	ug/l	99
76) 1,3,5-Trimethylbenzene	13.061	105	361066	19.845	ug/l	99
77) t-1,4-Dichloro-2-butene	12.626	75	33416	16.378	ug/l	96
78) 4-Chlorotoluene	13.106	91	278321	18.973	ug/l	98
79) tert-butylbenzene	13.326	119	338935	21.594	ug/l	98
80) 1,2,4-Trimethylbenzene	13.369	105	356205m	20.653	ug/l	
81) sec-Butylbenzene	13.503	105	435934	20.261	ug/l	100
82) p-Isopropyltoluene	13.619	119	350679	20.400	ug/l	99
83) 1,3-Dichlorobenzene	13.616	146	173195	20.548	ug/l	99
84) 1,4-Dichlorobenzene	13.696	146	162869	19.985	ug/l	99
85) n-Butylbenzene	13.943	91	270914	19.068	ug/l	100
86) Hexachloroethane	14.211	117	67753	20.118	ug/l	98
87) 1,2-Dichlorobenzene	13.989	146	165173	20.113	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.608	75	24513	20.039	ug/l	99
89) 1,2,4-Trichlorobenzene	15.265	180	79730	19.645	ug/l	99
90) Hexachlorobutadiene	15.373	225	44194	21.104	ug/l	99
91) Naphthalene	15.507	128	206960	18.606	ug/l	99
92) 1,2,3-Trichlorobenzene	15.703	180	79164	20.301	ug/l	99

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

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