

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091321\
 Data File : VN068463.D
 Acq On : 13 Sep 2021 17:52
 Operator : JC/MD
 Sample : VN0913WBSD01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0913WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/14/2021
 Supervised By : Mahesh Dadoda 09/14/2021

Quant Time: Sep 14 04:28:34 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N091321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Sep 14 04:23:31 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.659	128	93578	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	482578	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.746	117	444154	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	171558	31.043	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.467%			
60) 4-Bromofluorobenzene	12.733	95	192363	30.386	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.300%			
63) Toluene-d8	10.443	98	588371	30.451	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.500%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.073	85	76861	18.033	ug/l	98
3) Chloromethane	2.303	50	75691	18.358	ug/l	99
4) Vinyl Chloride	2.443	62	118035	18.063	ug/l	100
5) Bromomethane	2.861	94	123457	19.020	ug/l	98
6) Chloroethane	3.019	64	86942	18.641	ug/l	98
7) Trichlorofluoromethane	3.373	101	144961	17.996	ug/l	98
8) Diethyl Ether	3.827	74	47045	18.517	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.213	101	83797	18.264	ug/l	99
10) 1,1-Dichloroethene	4.186	96	74870	17.557	ug/l	99
11) Methyl Iodide	4.425	142	112745	17.028	ug/l	98
12) Methyl Acetate	4.856	43	84102	18.964	ug/l	97
13) Acrolein	4.047	56	30875	86.551	ug/l	98
14) Acrylonitrile	5.556	53	172758	89.878	ug/l	98
15) Acetone	4.291	58	47671	91.006	ug/l	92
16) Carbon Disulfide	4.535	76	188536	17.131	ug/l	98
17) Allyl chloride	4.843	41	97966	18.398	ug/l	99
18) Methylene Chloride	5.101	84	92757	18.171	ug/l	94
19) trans-1,2-Dichloroethene	5.599	96	82774	17.324	ug/l	96
20) Diisopropyl ether	6.498	45	226880	19.209	ug/l	97
21) 1,1-Dichloroethane	6.388	63	144202	18.370	ug/l	99
22) cis-1,2-Dichloroethene	7.329	96	104738	18.231	ug/l	97
23) tert-Butyl Alcohol	5.369	59	71667	92.263	ug/l #	100
24) Methyl tert-Butyl Ether	5.615	73	271324	18.685	ug/l	100
25) Chloroform	7.820	83	174010	18.523	ug/l	99
26) Cyclohexane	8.099	56	116273	17.520	ug/l #	99
29) 1,1-Dichloropropene	8.225	75	116104	17.951	ug/l	99
30) 2-Butanone	7.335	43	228862	92.707	ug/l #	98
31) 2,2-Dichloropropane	7.327	77	133201	17.895	ug/l	98
32) 1,1,1-Trichloroethane	8.019	97	157318	17.911	ug/l	98
33) Carbon Tetrachloride	8.209	117	143356	17.461	ug/l	99
34) Benzene	8.464	78	359835	18.243	ug/l	97
35) Methacrylonitrile	7.638	41	46982	19.733	ug/l	97
36) 1,2-Dichloroethane	8.531	62	127732	19.234	ug/l #	91
37) Trichloroethene	9.217	130	111126	17.582	ug/l	99
38) Methylcyclohexane	9.461	83	150323	18.081	ug/l	99
39) 1,2-Dichloropropane	9.491	63	85948	18.515	ug/l	99
40) Dibromomethane	9.577	93	71485	18.743	ug/l	99
41) Bromodichloromethane	9.762	83	137794	18.694	ug/l	94
42) Vinyl Acetate	6.436	43	853523	93.839	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.412	43	105481m	20.258	ug/l	
44) Isopropyl Acetate	8.563	43	169250	18.990	ug/l	100
45) 1,4-Dioxane	9.571	88	35043	388.845	ug/l #	86
46) Methyl methacrylate	9.561	41	67616	18.756	ug/l	97
47) n-amyl Acetate	12.393	43	112883	18.038	ug/l	97
48) t-1,3-Dichloropropene	10.722	75	135361	18.138	ug/l	97
49) cis-1,3-Dichloropropene	10.191	75	143900	17.941	ug/l	99
50) 1,1,2-Trichloroethane	10.899	97	102597	18.614	ug/l	97
51) Ethyl methacrylate	10.762	69	129510	18.301	ug/l	96
52) 1,3-Dichloropropane	11.046	76	152938	18.659	ug/l	99
53) Dibromochloromethane	11.240	129	123195	18.177	ug/l	100
54) 1,2-Dibromoethane	11.350	107	107335	18.158	ug/l	97
55) 2-Chloroethyl vinyl ether	10.043	63	92381	77.116	ug/l	99
56) Bromoform	12.460	173	90812	16.683	ug/l #	99
58) 4-Methyl-2-Pentanone	10.333	43	496923	95.042	ug/l	100
59) 2-Hexanone	11.087	43	341758	94.314	ug/l	100
61) Tetrachloroethene	10.979	164	116221	18.199	ug/l	99
62) Toluene	10.507	91	421979	18.051	ug/l	99
64) Chlorobenzene	11.773	112	278599	18.070	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.843	131	113360	18.016	ug/l	100
66) Ethyl Benzene	11.848	91	452587	17.814	ug/l	100
67) m/p-Xylenes	11.956	106	383261	36.598	ug/l	99
68) o-Xylene	12.283	106	185841	17.974	ug/l	100
69) Styrene	12.296	104	292118	17.817	ug/l	98
70) Isopropylbenzene	12.581	105	471813	17.972	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.830	83	134402	18.808	ug/l	98
72) 1,2,3-Trichloropropane	12.884	75	107989m	18.153	ug/l	
73) Bromobenzene	12.862	156	130797	17.551	ug/l	98
74) n-propylbenzene	12.924	91	508521	17.962	ug/l	100
75) 2-Chlorotoluene	13.010	91	313310	18.388	ug/l	99
76) 1,3,5-Trimethylbenzene	13.063	105	397503	18.136	ug/l	99
77) t-1,4-Dichloro-2-butene	12.629	75	33608	17.121	ug/l	97
78) 4-Chlorotoluene	13.106	91	304858	18.644	ug/l	100
79) tert-butylbenzene	13.326	119	369837	18.367	ug/l	97
80) 1,2,4-Trimethylbenzene	13.372	105	389951m	18.390	ug/l	
81) sec-Butylbenzene	13.506	105	476478	17.901	ug/l	99
82) p-Isopropyltoluene	13.618	119	403940	17.693	ug/l	99
83) 1,3-Dichlorobenzene	13.618	146	234905	18.134	ug/l	99
84) 1,4-Dichlorobenzene	13.696	146	223935	18.046	ug/l	98
85) n-Butylbenzene	13.946	91	276540	17.030	ug/l	99
86) Hexachloroethane	14.214	117	73200	17.455	ug/l	99
87) 1,2-Dichlorobenzene	13.991	146	226117	18.165	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.605	75	22326	18.477	ug/l	98
89) 1,2,4-Trichlorobenzene	15.268	180	98346	16.352	ug/l	99
90) Hexachlorobutadiene	15.373	225	64765	17.026	ug/l	98
91) Naphthalene	15.509	128	215019	16.573	ug/l	99
92) 1,2,3-Trichlorobenzene	15.702	180	93991	16.594	ug/l	99

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

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