

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN033021\
 Data File : VN066420.D
 Acq On : 30 Mar 2021 14:10
 Operator : JC/MD
 Sample : VN0330WBSD01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0330WBSD01

Manual Integrations
 APPROVED

MMDadoda
 3/31/2021 1:36:48 PM

Quant Time: Mar 31 02:54:24 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N032421W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 25 05:52:50 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.104	128	66372	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.513	114	344037	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.347	117	313710	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.947	65	146756	28.77	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	95.90%		
60) 4-Bromofluorobenzene	12.345	95	144189	29.45	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.17%		
63) Toluene-d8	10.025	98	434923	29.54	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.47%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.816	85	68090	18.34	ug/l	97
3) Chloromethane	2.017	50	90060	19.30	ug/l	97
4) Vinyl Chloride	2.146	62	95913	19.55	ug/l	99
5) Bromomethane	2.508	94	71718	20.66	ug/l	96
6) Chloroethane	2.647	64	63635	20.26	ug/l	96
7) Trichlorofluoromethane	2.958	101	132680	18.76	ug/l	99
8) Diethyl Ether	3.342	74	43901	18.37	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.682	101	65196	18.83	ug/l	98
10) 1,1-Dichloroethene	3.664	96	60597	17.68	ug/l	90
11) Methyl Iodide	3.873	142	85421	17.33	ug/l	98
12) Methyl Acetate	4.232	43	111095	20.88	ug/l	98
13) Acrolein	3.529	56	30204	92.58	ug/l	91
14) Acrylonitrile	4.878	53	214361	97.68	ug/l	99
15) Acetone	3.733	58	61187	95.75	ug/l	86
16) Carbon Disulfide	3.972	76	167045	17.60	ug/l	99
17) Allyl chloride	4.229	41	101644	16.41	ug/l	97
18) Methylene Chloride	4.455	84	77158	18.84	ug/l	97
19) trans-1,2-Dichloroethene	4.935	96	68529	18.18	ug/l	97
20) Diisopropyl ether	5.847	45	255264	18.78	ug/l	92
21) 1,1-Dichloroethane	5.745	63	140865	19.15	ug/l	99
22) cis-1,2-Dichloroethene	6.729	96	83265	18.45	ug/l	100
23) tert-Butyl Alcohol	4.675	59	80899m	89.80	ug/l	
24) Methyl tert-Butyl Ether	4.935	73	240970	18.43	ug/l	97
25) Chloroform	7.284	83	140286	18.88	ug/l	98
26) Cyclohexane	7.571	56	114754	17.59	ug/l #	97
29) 1,1-Dichloropropene	7.711	75	96780	18.81	ug/l	98
30) 2-Butanone	6.732	43	294112	97.53	ug/l	99
31) 2,2-Dichloropropane	6.729	77	121712m	19.10	ug/l	
32) 1,1,1-Trichloroethane	7.483	97	117155	18.79	ug/l	99
33) Carbon Tetrachloride	7.689	117	97767	18.57	ug/l	95
34) Benzene	7.963	78	309620	19.74	ug/l	99
35) Methacrylonitrile	7.086	41	51744m	20.29	ug/l	
36) 1,2-Dichloroethane	8.046	62	112330	19.55	ug/l	99
37) Trichloroethene	8.765	130	76408	18.68	ug/l	98
38) Methylcyclohexane	9.011	83	114562	18.00	ug/l	99
39) 1,2-Dichloropropane	9.049	63	85183	20.07	ug/l	98
40) Dibromomethane	9.140	93	55693	20.41	ug/l	98
41) Bromodichloromethane	9.336	83	110852	19.19	ug/l	99
42) Vinyl Acetate	5.790	43	1096335	96.47	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.831	43	119330	20.55	ug/l #	100
44) Isopropyl Acetate	8.089	43	196241	18.92	ug/l #	100
45) 1,4-Dioxane	9.135	88	24922	376.72	ug/l	97
46) Methyl methacrylate	9.132	41	86114	17.78	ug/l	93
47) n-amyl Acetate	12.023	43	69612	15.75	ug/l	96
48) t-1,3-Dichloropropene	10.320	75	121211	19.32	ug/l	100
49) cis-1,3-Dichloropropene	9.773	75	128952	19.12	ug/l	96
50) 1,1,2-Trichloroethane	10.503	97	80303	20.56	ug/l	99
51) Ethyl methacrylate	10.368	69	113026	18.49	ug/l	96
52) 1,3-Dichloropropane	10.645	76	132209	20.31	ug/l	100
53) Dibromochloromethane	10.841	129	84583	19.28	ug/l	100
54) 1,2-Dibromoethane	10.945	107	81184	20.20	ug/l	99
55) 2-Chloroethyl vinyl ether	9.631	63	85808	94.42	ug/l	99
56) Bromoform	12.072	173	61803	19.20	ug/l #	99
58) 4-Methyl-2-Pentanone	9.918	43	614018	97.69	ug/l	99
59) 2-Hexanone	10.693	43	411818	95.22	ug/l	99
61) Tetrachloroethene	10.572	164	75815	17.55	ug/l	95
62) Toluene	10.092	91	331293	19.08	ug/l	100
64) Chlorobenzene	11.374	112	196867	19.29	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.449	131	76755	19.17	ug/l	99
66) Ethyl Benzene	11.455	91	353283	18.88	ug/l	98
67) m/p-Xylenes	11.565	106	262234	37.71	ug/l	98
68) o-Xylene	11.892	106	129291	18.84	ug/l	100
69) Styrene	11.908	104	202174	18.39	ug/l	98
70) Isopropylbenzene	12.192	105	337687	18.70	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.447	83	118994	20.58	ug/l	99
72) 1,2,3-Trichloropropane	12.498	75	111636m	20.00	ug/l	
73) Bromobenzene	12.468	156	85447	19.20	ug/l	100
74) n-propylbenzene	12.536	91	377451	18.91	ug/l	100
75) 2-Chlorotoluene	12.616	91	229521	18.99	ug/l	100
76) 1,3,5-Trimethylbenzene	12.678	105	278089	18.72	ug/l	99
77) t-1,4-Dichloro-2-butene	12.246	75	32474	17.93	ug/l	99
78) 4-Chlorotoluene	12.718	91	223838	18.88	ug/l	99
79) tert-butylbenzene	12.938	119	239314	18.53	ug/l	98
80) 1,2,4-Trimethylbenzene	12.983	105	264892	18.38	ug/l	99
81) sec-Butylbenzene	13.115	105	311306	18.88	ug/l	99
82) p-Isopropyltoluene	13.233	119	271720	18.71	ug/l	99
83) 1,3-Dichlorobenzene	13.227	146	143477	19.66	ug/l	99
84) 1,4-Dichlorobenzene	13.308	146	138584	19.51	ug/l	98
85) n-Butylbenzene	13.560	91	217971	18.40	ug/l	99
86) Hexachloroethane	13.815	117	51562	19.23	ug/l	97
87) 1,2-Dichlorobenzene	13.598	146	144933	20.07	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.217	75	22211	18.83	ug/l	99
89) 1,2,4-Trichlorobenzene	14.853	180	89714	19.47	ug/l	99
90) Hexachlorobutadiene	14.947	225	48339	19.36	ug/l	98
91) Naphthalene	15.070	128	274644	19.58	ug/l	100
92) 1,2,3-Trichlorobenzene	15.250	180	88009	19.50	ug/l	98

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

