

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100620\
 Data File : VN063888.D
 Acq On : 6 Oct 2020 10:00
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 10/7/2020 12:11:27 PM

Quant Time: Oct 06 12:30:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N100620W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Oct 06 12:20:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	50937	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	269623	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	258116	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.98	65	144491	38.07	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	126.90%
60) 4-Bromofluorobenzene	12.38	95	123522	29.83	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.43%
63) Toluene-d8	10.06	98	347870	29.45	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.17%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	15349	4.153 ug/l	97
3) Chloromethane	2.04	50	17427	4.354 ug/l	93
4) Vinyl Chloride	2.16	62	17683	4.384 ug/l	94
5) Bromomethane	2.54	94	12355	4.942 ug/l	98
6) Chloroethane	2.68	64	11965	4.969 ug/l	92
7) Trichlorofluoromethane	2.99	101	30586	5.942 ug/l	99
8) Diethyl Ether	3.37	74	8960	5.260 ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.72	101	16311	5.854 ug/l	76
10) 1,1-Dichloroethene	3.70	96	14326	5.699 ug/l	89
11) Methyl Iodide	3.91	142	14694	4.299 ug/l	92
12) Methyl Acetate	4.28	43	15745	4.800 ug/l	96
13) Acrolein	3.56	56	5806m	17.857 ug/l	
14) Acrylonitrile	4.93	53	33023	23.427 ug/l	95
15) Acetone	3.78	58	10258	24.973 ug/l	78
16) Carbon Disulfide	4.01	76	42306	6.135 ug/l	97
17) Allyl chloride	4.27	41	25530	5.414 ug/l	97
18) Methylene Chloride	4.50	84	17410	5.114 ug/l	94
19) trans-1,2-Dichloroethene	4.99	96	16467	5.962 ug/l	87
20) Diisopropyl ether	5.89	45	51205m	4.909 ug/l	
21) 1,1-Dichloroethane	5.79	63	32830	5.574 ug/l	98
22) cis-1,2-Dichloroethene	6.77	96	18013	5.351 ug/l	95
23) tert-Butyl Alcohol	4.73	59	15377m	31.221 ug/l	
24) Methyl tert-Butyl Ether	4.99	73	44329	4.886 ug/l #	66
25) Chloroform	7.33	83	34253	5.768 ug/l	97
26) Cyclohexane	7.61	56	21874	4.515 ug/l	94
29) 1,1-Dichloropropene	7.75	75	23345	5.548 ug/l	99
30) 2-Butanone	6.78	43	56586	28.706 ug/l #	98
31) 2,2-Dichloropropane	6.77	77	30557	5.980 ug/l #	80
32) 1,1,1-Trichloroethane	7.52	97	31818	6.192 ug/l	99
33) Carbon Tetrachloride	7.73	117	27813	6.315 ug/l	98
34) Benzene	8.00	78	68892	5.274 ug/l #	64
35) Methacrylonitrile	7.12	41	9470	5.187 ug/l	95
36) 1,2-Dichloroethane	8.08	62	32655	6.905 ug/l #	90
37) Trichloroethene	8.80	130	19878	6.154 ug/l	93
38) Methylcyclohexane	9.05	83	19190	3.944 ug/l	96
39) 1,2-Dichloropropane	9.08	63	19231	5.117 ug/l	100
40) Dibromomethane	9.17	93	13439	5.906 ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	27616	5.582	ug/l	96
42) Vinyl Acetate	5.84	43	218752	28.344	ug/l	99
43) Ethyl Acetate	6.88	43	24642	6.425	ug/l #	78
44) Isopropyl Acetate	8.12	43	38201	5.828	ug/l #	100
45) 1,4-Dioxane	9.17	88	5385	96.445	ug/l	86
46) Methyl methacrylate	9.17	41	17223	5.331	ug/l	98
47) n-amyl Acetate	12.05	43	30860	5.352	ug/l	98
48) t-1,3-Dichloropropene	10.35	75	27288	5.180	ug/l	96
49) cis-1,3-Dichloropropene	9.80	75	29050	5.164	ug/l	97
50) 1,1,2-Trichloroethane	10.53	97	17947	5.320	ug/l	96
51) Ethyl methacrylate	10.40	69	20407	4.369	ug/l	97
52) 1,3-Dichloropropane	10.68	76	30479	5.442	ug/l	99
53) Dibromochloromethane	10.87	129	18576	4.948	ug/l	94
54) 1,2-Dibromoethane	10.98	107	17670	5.344	ug/l	97
55) 2-Chloroethyl vinyl ether	9.66	63	63846	49.839	ug/l	99
56) Bromoform	12.10	173	12284	4.533	ug/l	96
58) 4-Methyl-2-Pentanone	9.95	43	115744	28.340	ug/l	100
59) 2-Hexanone	10.72	43	86551	29.402	ug/l	95
61) Tetrachloroethene	10.60	164	17773	5.901	ug/l	95
62) Toluene	10.12	91	75250	5.277	ug/l	97
64) Chlorobenzene	11.41	112	46400	5.292	ug/l	93
65) 1,1,1,2-Tetrachloroethane	11.48	131	17978	5.177	ug/l	98
66) Ethyl Benzene	11.48	91	76552	4.898	ug/l	100
67) m/p-Xylenes	11.60	106	56383	9.645	ug/l	99
68) o-Xylene	11.92	106	26978	4.827	ug/l	97
69) Styrene	11.94	104	42572	4.382	ug/l	98
70) Isopropylbenzene	12.22	105	69473	4.589	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.48	83	23738	4.943	ug/l	99
72) 1,2,3-Trichloropropane	12.53	75	25029m	5.651	ug/l	
73) Bromobenzene	12.50	156	19430	4.843	ug/l	95
74) n-propylbenzene	12.57	91	83297	4.607	ug/l	98
75) 2-Chlorotoluene	12.65	91	50263	4.647	ug/l	99
76) 1,3,5-Trimethylbenzene	12.71	105	57228	4.447	ug/l	99
77) t-1,4-Dichloro-2-butene	12.28	75	7475	4.781	ug/l	93
78) 4-Chlorotoluene	12.75	91	53118	4.733	ug/l	98
79) tert-butylbenzene	12.97	119	47952	4.459	ug/l	96
80) 1,2,4-Trimethylbenzene	13.01	105	55626	4.397	ug/l	99
81) sec-Butylbenzene	13.14	105	60565	4.120	ug/l	95
82) p-Isopropyltoluene	13.26	119	53566	4.103	ug/l	98
83) 1,3-Dichlorobenzene	13.26	146	34257	4.863	ug/l	94
84) 1,4-Dichlorobenzene	13.34	146	33032	4.776	ug/l	96
85) n-Butylbenzene	13.59	91	45415	4.101	ug/l	98
86) Hexachloroethane	13.85	117	10189	4.078	ug/l	98
87) 1,2-Dichlorobenzene	13.63	146	33199	4.890	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.24	75	5333	6.283	ug/l	96
89) 1,2,4-Trichlorobenzene	14.88	180	14691	4.287	ug/l	93
90) Hexachlorobutadiene	14.98	225	8894	3.757	ug/l	91
91) Naphthalene	15.11	128	37120	4.487	ug/l	97
92) 1,2,3-Trichlorobenzene	15.29	180	13965	4.103	ug/l	99

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

