

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071319\
 Data File : VN056682.D
 Acq On : 12 Jul 2019 11:45
 Operator : JC/SP
 Sample : VSTDICC150
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

MMDadoda
 7/16/2019 9:59:25 AM

Quant Time: Jul 12 23:59:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 12 23:38:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	51459	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	298068	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	269446	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	106672	30.25	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.83%
60) 4-Bromofluorobenzene	12.40	95	127883	30.76	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	102.53%
63) Toluene-d8	10.09	98	360814	28.88	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.27%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	468849	175.236	ug/l 99
3) Chloromethane	2.06	50	626076	163.914	ug/l 99
4) Vinyl Chloride	2.18	62	610058	167.893	ug/l 99
5) Bromomethane	2.53	94	363796m	184.497	ug/l
6) Chloroethane	2.68	64	343140m	170.049	ug/l
7) Trichlorofluoromethane	3.00	101	759566	163.202	ug/l 98
8) Diethyl Ether	3.41	74	318435	163.435	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	3.75	101	468057	159.130	ug/l 99
10) 1,1-Dichloroethene	3.73	96	476200	166.139	ug/l 96
11) Methyl Iodide	3.95	142	718318	176.285	ug/l 99
12) Methyl Acetate	4.32	43	582015	151.499	ug/l 97
13) Acrolein	3.60	56	202491	578.082	ug/l 100
14) Acrylonitrile	4.99	53	1424753	842.283	ug/l 99
15) Acetone	3.82	58	442937	856.377	ug/l 96
16) Carbon Disulfide	4.05	76	1318678	186.696	ug/l 100
17) Allyl chloride	4.32	41	852166	169.535	ug/l 97
18) Methylene Chloride	4.55	84	551251	162.448	ug/l 98
19) trans-1,2-Dichloroethene	5.04	96	506470	162.738	ug/l 99
20) Diisopropyl ether	5.95	45	1654982	160.653	ug/l 93
21) 1,1-Dichloroethane	5.85	63	937697	161.040	ug/l 100
22) cis-1,2-Dichloroethene	6.83	96	589782	161.375	ug/l 99
23) tert-Butyl Alcohol	4.79	59	499448	787.438	ug/l # 100
24) Methyl tert-Butyl Ether	5.04	73	1529412	162.148	ug/l 99
25) Chloroform	7.37	83	905918	158.429	ug/l 99
26) Cyclohexane	7.65	56	881859	163.200	ug/l # 99
29) 1,1-Dichloropropene	7.79	75	716628	158.242	ug/l 100
30) 2-Butanone	6.83	43	2003530	785.961	ug/l 99
31) 2,2-Dichloropropane	6.82	77	703236	161.430	ug/l 100
32) 1,1,1-Trichloroethane	7.57	97	768862	159.799	ug/l 99
33) Carbon Tetrachloride	7.77	117	675418	164.420	ug/l 98
34) Benzene	8.04	78	2175932	154.320	ug/l # 92
35) Methacrylonitrile	7.17	41	332495	158.362	ug/l 97
36) 1,2-Dichloroethane	8.12	62	684284	149.635	ug/l 99
37) Trichloroethene	8.83	130	592429	159.475	ug/l 98
38) Methylcyclohexane	9.08	83	919226	161.606	ug/l 98
39) 1,2-Dichloropropane	9.12	63	585044	154.561	ug/l 99
40) Dibromomethane	9.21	93	368946	156.869	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	717739	164.098	ug/l	99
42) Vinyl Acetate	5.89	43	7130243	802.104	ug/l	100
43) Ethyl Acetate	6.93	43	748815	155.402	ug/l	97
44) Isopropyl Acetate	8.16	43	1212774	161.841	ug/l	99
45) 1,4-Dioxane	9.20	88	231813	3114.466	ug/l	99
46) Methyl methacrylate	9.20	41	590821	160.204	ug/l	99
47) n-amyl Acetate	12.07	43	1061982	171.052	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	823824	175.380	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	914750	169.396	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	540164	156.485	ug/l	99
51) Ethyl methacrylate	10.43	69	897723	166.255	ug/l	97
52) 1,3-Dichloropropane	10.71	76	916265	155.563	ug/l	99
53) Dibromochloromethane	10.90	129	591169	173.492	ug/l	100
54) 1,2-Dibromoethane	11.00	107	584259	162.181	ug/l	97
55) 2-Chloroethyl vinyl ether	9.70	63	2142857	785.748	ug/l	99
56) Bromoform	12.13	173	463303	185.700	ug/l	98
58) 4-Methyl-2-Pentanone	9.99	43	3813139	775.177	ug/l	99
59) 2-Hexanone	10.75	43	2889137	780.832	ug/l	99
61) Tetrachloroethene	10.63	164	544643	154.813	ug/l	99
62) Toluene	10.16	91	2355921	153.692	ug/l	98
64) Chlorobenzene	11.43	112	1465840	158.523	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	545261	162.513	ug/l	100
66) Ethyl Benzene	11.51	91	2632536	158.220	ug/l	100
67) m/p-Xylenes	11.62	106	1977200	320.077	ug/l	100
68) o-Xylene	11.95	106	950580	156.838	ug/l	99
69) Styrene	11.96	104	1663128	165.057	ug/l	99
70) Isopropylbenzene	12.25	105	2528196	159.262	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	807667	154.739	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	719374m	164.282	ug/l	
73) Bromobenzene	12.53	156	671575	163.849	ug/l	99
74) n-propylbenzene	12.59	91	2938996	162.381	ug/l	99
75) 2-Chlorotoluene	12.67	91	1722217	159.591	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	2156947	159.485	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	280567	197.010	ug/l	89
78) 4-Chlorotoluene	12.77	91	1771975	169.195	ug/l	99
79) tert-butylbenzene	12.99	119	1834500	159.301	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	2168048	162.251	ug/l	99
81) sec-Butylbenzene	13.17	105	2458822	160.812	ug/l	100
82) p-Isopropyltoluene	13.29	119	2289514	165.777	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	1172478	171.657	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	1151847	175.209	ug/l	99
85) n-Butylbenzene	13.61	91	1990663	172.230	ug/l	99
86) Hexachloroethane	13.87	117	387605	184.527	ug/l	100
87) 1,2-Dichlorobenzene	13.65	146	1140764	165.741	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	158121	170.041	ug/l	98
89) 1,2,4-Trichlorobenzene	14.90	180	717102	188.980	ug/l	98
90) Hexachlorobutadiene	15.01	225	376014	156.931	ug/l	99
91) Naphthalene	15.13	128	2032001	194.491	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	717663	180.660	ug/l	99

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

