

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100518\
 Data File : VN051674.D
 Acq On : 5 Oct 2018 9:36
 Operator : MD\SY
 Sample : VSTDICCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 10/8/2018 3:58:46 PM

Quant Time: Oct 05 10:48:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N100518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 05 10:47:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	108362	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	632105	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	555847	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	227779	30.72	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.40%
60) 4-Bromofluorobenzene	12.40	95	235403	28.05	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.50%
63) Toluene-d8	10.09	98	754202	28.32	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	94.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	155913	29.600	ug/l 98
3) Chloromethane	2.06	50	140392	15.321	ug/l 99
4) Vinyl Chloride	2.19	62	200222	20.316	ug/l 99
5) Bromomethane	2.57	94	146447	22.857	ug/l 89
6) Chloroethane	2.70	64	134586	22.034	ug/l 99
7) Trichlorofluoromethane	3.01	101	218251	16.931	ug/l 95
8) Diethyl Ether	3.41	74	62402	16.323	ug/l 82
9) 1,1,2-Trichlorotrifluoroet	3.76	101	121850	18.710	ug/l # 39
10) 1,1-Dichloroethene	3.73	96	109526	18.404	ug/l 92
11) Methyl Iodide	3.95	142	122972	13.838	ug/l 94
12) Methyl Acetate	4.33	43	81909	15.769	ug/l 96
13) Acrolein	3.61	56	29139	41.121	ug/l 93
14) Acrylonitrile	4.99	53	161474	75.902	ug/l # 60
15) Acetone	3.82	58	40464	77.998	ug/l 76
16) Carbon Disulfide	4.05	76	310077	16.522	ug/l 99
17) Allyl chloride	4.32	41	158076	15.145	ug/l 79
18) Methylene Chloride	4.55	84	118937	16.698	ug/l 96
19) trans-1,2-Dichloroethene	5.04	96	118407	18.275	ug/l 87
20) Diisopropyl ether	5.95	45	335874	15.814	ug/l # 93
21) 1,1-Dichloroethane	5.85	63	212224	16.756	ug/l 95
22) cis-1,2-Dichloroethene	6.83	96	136499	18.761	ug/l 90
23) tert-Butyl Alcohol	4.79	59	45168	113.511	ug/l # 100
24) Methyl tert-Butyl Ether	5.04	73	337650	20.804	ug/l # 58
25) Chloroform	7.37	83	235840	18.611	ug/l 99
26) Cyclohexane	7.65	56	180996	16.816	ug/l # 82
29) 1,1-Dichloropropene	7.79	75	166959	15.913	ug/l 95
30) 2-Butanone	6.84	43	203858	76.421	ug/l 95
31) 2,2-Dichloropropane	6.82	77	219170	19.595	ug/l # 82
32) 1,1,1-Trichloroethane	7.57	97	223292	18.636	ug/l 97
33) Carbon Tetrachloride	7.77	117	204724	18.719	ug/l 91
34) Benzene	8.04	78	491418	15.732	ug/l # 72
35) Methacrylonitrile	7.18	41	42397	12.585	ug/l 83
36) 1,2-Dichloroethane	8.12	62	164880	16.379	ug/l 98
37) Trichloroethene	8.83	130	142399	17.276	ug/l 96
38) Methylcyclohexane	9.08	83	212960	17.725	ug/l 84
39) 1,2-Dichloropropane	9.12	63	125340	14.752	ug/l 96
40) Dibromomethane	9.21	93	82279	17.016	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	185776	17.519	ug/l	92
42) Vinyl Acetate	5.90	43	1182128	78.852	ug/l #	95
43) Ethyl Acetate	6.93	43	87770	15.629	ug/l	98
44) Isopropyl Acetate	8.17	43	190406	17.699	ug/l	96
45) 1,4-Dioxane	9.20	88	21797m	331.328	ug/l	
46) Methyl methacrylate	9.20	41	82414	15.431	ug/l	85
47) n-amyl Acetate	12.07	43	145919m	17.072	ug/l	
48) t-1,3-Dichloropropene	10.38	75	182897	17.523	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	200401	16.437	ug/l	94
50) 1,1,2-Trichloroethane	10.56	97	111269	16.142	ug/l	93
51) Ethyl methacrylate	10.43	69	144158	17.860	ug/l	87
52) 1,3-Dichloropropane	10.71	76	183365	15.757	ug/l	98
53) Dibromochloromethane	10.90	129	143005	18.035	ug/l	97
54) 1,2-Dibromoethane	11.01	107	116657	17.621	ug/l	97
55) 2-Chloroethyl vinyl ether	9.70	63	302129	75.052	ug/l	96
56) Bromoform	12.13	173	95974	18.062	ug/l #	91
58) 4-Methyl-2-Pentanone	9.99	43	459327	79.939	ug/l #	94
59) 2-Hexanone	10.75	43	308187	82.379	ug/l	97
61) Tetrachloroethene	10.63	164	131154	17.211	ug/l	97
62) Toluene	10.16	91	554962	16.540	ug/l	99
64) Chlorobenzene	11.43	112	348826	16.988	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.51	131	139800	17.584	ug/l	99
66) Ethyl Benzene	11.51	91	609233	17.669	ug/l	99
67) m/p-Xylenes	11.62	106	480559	35.848	ug/l	99
68) o-Xylene	11.95	106	238694	18.736	ug/l	91
69) Styrene	11.96	104	365564	18.119	ug/l	98
70) Isopropylbenzene	12.25	105	621528	18.200	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	132379	16.717	ug/l	96
72) 1,2,3-Trichloropropane	12.55	75	109508m	15.967	ug/l	
73) Bromobenzene	12.53	156	145431	17.058	ug/l	90
74) n-propylbenzene	12.59	91	687517	17.387	ug/l	96
75) 2-Chlorotoluene	12.67	91	400388	17.122	ug/l	95
76) 1,3,5-Trimethylbenzene	12.73	105	528757	18.719	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	37203	17.401	ug/l	99
78) 4-Chlorotoluene	12.77	91	392804	16.912	ug/l	95
79) tert-butylbenzene	12.99	119	470875	19.246	ug/l	97
80) 1,2,4-Trimethylbenzene	13.04	105	520657	18.275	ug/l	98
81) sec-Butylbenzene	13.17	105	638427	18.937	ug/l	99
82) p-Isopropyltoluene	13.29	119	551979	18.949	ug/l	98
83) 1,3-Dichlorobenzene	13.28	146	254346	17.009	ug/l	96
84) 1,4-Dichlorobenzene	13.36	146	239362	17.017	ug/l	98
85) n-Butylbenzene	13.62	91	434307	18.401	ug/l	96
86) Hexachloroethane	13.87	117	109862	18.994	ug/l	85
87) 1,2-Dichlorobenzene	13.65	146	250323	17.489	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	21025	18.109	ug/l #	79
89) 1,2,4-Trichlorobenzene	14.91	180	104379	15.080	ug/l	98
90) Hexachlorobutadiene	15.01	225	81540	14.984	ug/l	95
91) Naphthalene	15.13	128	221963	17.457	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	107755	15.440	ug/l	93

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

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