

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092518\
 Data File : VN051478.D
 Acq On : 25 Sep 2018 11:38
 Operator : MD\SY
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 10/1/2018 11:21:30 AM

Quant Time: Sep 26 01:51:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 26 01:19:41 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	86835	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	466598	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	391187	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	184743	30.91	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.03%
60) 4-Bromofluorobenzene	12.40	95	159055	27.69	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	92.30%
63) Toluene-d8	10.09	98	575498	30.68	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.27%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	32145	8.643	ug/l 98
3) Chloromethane	2.06	50	48785	7.629	ug/l 95
4) Vinyl Chloride	2.18	62	50637	7.422	ug/l 98
5) Bromomethane	2.57	94	35668	7.998	ug/l 88
6) Chloroethane	2.70	64	29451	7.003	ug/l 93
7) Trichlorofluoromethane	3.02	101	63517	7.172	ug/l 93
8) Diethyl Ether	3.41	74	16652	6.254	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.75	101	31966m	7.108	ug/l
10) 1,1-Dichloroethene	3.73	96	28140	6.869	ug/l 89
11) Methyl Iodide	3.96	142	31412	5.200	ug/l 96
12) Methyl Acetate	4.33	43	25266	7.017	ug/l # 84
13) Acrolein	3.61	56	13789	28.720	ug/l 87
14) Acrylonitrile	4.99	53	43962	30.058	ug/l # 61
15) Acetone	3.82	58	12978	36.028	ug/l 84
16) Carbon Disulfide	4.06	76	94994	7.311	ug/l 98
17) Allyl chloride	4.32	41	46208	6.390	ug/l 97
18) Methylene Chloride	4.55	84	33771	6.903	ug/l 98
19) trans-1,2-Dichloroethene	5.04	96	29091	6.560	ug/l 99
20) Diisopropyl ether	5.95	45	85509	5.955	ug/l 91
21) 1,1-Dichloroethane	5.85	63	57997	6.705	ug/l 95
22) cis-1,2-Dichloroethene	6.83	96	31876	6.424	ug/l 95
23) tert-Butyl Alcohol	4.80	59	8940m	32.459	ug/l
24) Methyl tert-Butyl Ether	5.05	73	68793	6.166	ug/l 98
25) Chloroform	7.37	83	56883	6.594	ug/l 89
26) Cyclohexane	7.66	56	41882	5.688	ug/l # 92
29) 1,1-Dichloropropene	7.79	75	39954	6.081	ug/l 99
30) 2-Butanone	6.85	43	53977	31.807	ug/l # 55
31) 2,2-Dichloropropane	6.83	77	45322m	6.467	ug/l
32) 1,1,1-Trichloroethane	7.57	97	47989	6.398	ug/l 99
33) Carbon Tetrachloride	7.78	117	44369	6.447	ug/l 95
34) Benzene	8.04	78	126028	6.461	ug/l 94
35) Methacrylonitrile	7.18	41	9578	3.917	ug/l 82
36) 1,2-Dichloroethane	8.13	62	41792	6.580	ug/l 100
37) Trichloroethene	8.84	130	34012	6.579	ug/l 97
38) Methylcyclohexane	9.08	83	42959	5.641	ug/l 97
39) 1,2-Dichloropropane	9.12	63	34140	6.434	ug/l 95
40) Dibromomethane	9.21	93	19377	6.416	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.40	83	41556	6.259	ug/l	97
42) Vinyl Acetate	5.90	43	260131	27.567	ug/l	100
43) Ethyl Acetate	6.93	43	16703	4.730	ug/l #	92
44) Isopropyl Acetate	8.17	43	40388	5.947	ug/l	99
45) 1,4-Dioxane	9.20	88	4706	113.905	ug/l	93
46) Methyl methacrylate	9.20	41	17850	5.308	ug/l	97
47) n-amyl Acetate	12.07	43	23990	4.421	ug/l #	75
48) t-1,3-Dichloropropene	10.38	75	37405	5.673	ug/l	96
49) cis-1,3-Dichloropropene	9.84	75	43656	5.720	ug/l	95
50) 1,1,2-Trichloroethane	10.56	97	28000	6.484	ug/l	96
51) Ethyl methacrylate	10.43	69	25649	5.019	ug/l	94
52) 1,3-Dichloropropane	10.71	76	44893	6.163	ug/l	96
53) Dibromochloromethane	10.90	129	29022	5.843	ug/l	95
54) 1,2-Dibromoethane	11.01	107	25275	6.066	ug/l	94
55) 2-Chloroethyl vinyl ether	9.70	63	62566	24.793	ug/l	99
56) Bromoform	12.13	173	18934	5.654	ug/l	94
58) 4-Methyl-2-Pentanone	9.99	43	100405	29.206	ug/l	97
59) 2-Hexanone	10.75	43	65537	28.965	ug/l	98
61) Tetrachloroethene	10.63	164	29576	6.499	ug/l	96
62) Toluene	10.16	91	128557	6.419	ug/l	98
64) Chlorobenzene	11.43	112	76725	6.249	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.51	131	30512	6.428	ug/l	99
66) Ethyl Benzene	11.51	91	116739	5.651	ug/l	97
67) m/p-Xylenes	11.62	106	87295	10.976	ug/l	98
68) o-Xylene	11.95	106	42214	5.573	ug/l	96
69) Styrene	11.96	104	61573	5.146	ug/l	99
70) Isopropylbenzene	12.25	105	110060	5.429	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	30592	6.410	ug/l	96
72) 1,2,3-Trichloropropane	12.55	75	25540m	6.787	ug/l	
73) Bromobenzene	12.53	156	29958	5.863	ug/l	95
74) n-propylbenzene	12.59	91	122998	5.219	ug/l	99
75) 2-Chlorotoluene	12.68	91	79101	5.687	ug/l	97
76) 1,3,5-Trimethylbenzene	12.73	105	86576	5.175	ug/l	96
77) t-1,4-Dichloro-2-butene	12.30	75	6125	4.719	ug/l	86
78) 4-Chlorotoluene	12.77	91	74108	5.372	ug/l	98
79) tert-butylbenzene	12.99	119	79030	5.426	ug/l	97
80) 1,2,4-Trimethylbenzene	13.04	105	85307	5.073	ug/l	100
81) sec-Butylbenzene	13.17	105	104636	5.223	ug/l	99
82) p-Isopropyltoluene	13.29	119	83798	4.845	ug/l	97
83) 1,3-Dichlorobenzene	13.28	146	49075	5.476	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	43301	5.145	ug/l	97
85) n-Butylbenzene	13.61	91	60458	4.257	ug/l	98
86) Hexachloroethane	13.87	117	21373	6.167	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	47519	5.593	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	14.27	75	4291	6.092	ug/l	97
89) 1,2,4-Trichlorobenzene	14.91	180	14476	3.421	ug/l	97
90) Hexachlorobutadiene	15.01	225	20492	6.248	ug/l	98
91) Naphthalene	15.13	128	26133	3.273	ug/l #	92
92) 1,2,3-Trichlorobenzene	15.32	180	18243	4.271	ug/l	94

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

