

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082818\
 Data File : VN050909.D
 Acq On : 28 Aug 2018 12:50
 Operator : MD\SY
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 8/29/2018 11:09:55 AM

Quant Time: Aug 29 01:29:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 29 01:19:11 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	122418	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	646943	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	578435	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	229207	29.34	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.80%
60) 4-Bromofluorobenzene	12.40	95	265943	30.92	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	103.07%
63) Toluene-d8	10.09	98	808685	29.98	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.93%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	398986	52.48	ug/l	100
3) Chloromethane	2.06	50	450447	50.18	ug/l	100
4) Vinyl Chloride	2.18	62	446369	50.32	ug/l	99
5) Bromomethane	2.56	94	263940	48.82	ug/l	98
6) Chloroethane	2.70	64	258543	49.42	ug/l	99
7) Trichlorofluoromethane	3.01	101	581000	49.41	ug/l	99
8) Diethyl Ether	3.41	74	207605	50.08	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.76	101	359820	49.41	ug/l	100
10) 1,1-Dichloroethene	3.73	96	328602	49.68	ug/l	99
11) Methyl Iodide	3.95	142	313852	50.85	ug/l	100
12) Methyl Acetate	4.33	43	382149	49.96	ug/l	99
13) Acrolein	3.61	56	37966	224.16	ug/l	93
14) Acrylonitrile	4.99	53	646229	249.88	ug/l	98
15) Acetone	3.82	58	149990	226.65	ug/l	92
16) Carbon Disulfide	4.05	76	982153	49.38	ug/l	99
17) Allyl chloride	4.32	41	518109	49.78	ug/l	99
18) Methylene Chloride	4.55	84	381222	49.10	ug/l	100
19) trans-1,2-Dichloroethene	5.04	96	351109	49.82	ug/l	98
20) Diisopropyl ether	5.96	45	1102607	51.04	ug/l	98
21) 1,1-Dichloroethane	5.85	63	650924	49.14	ug/l	100
22) cis-1,2-Dichloroethene	6.83	96	392095	49.25	ug/l	98
23) tert-Butyl Alcohol	4.79	59	131403	238.92	ug/l	100
24) Methyl tert-Butyl Ether	5.05	73	915344	50.59	ug/l	99
25) Chloroform	7.37	83	655022	49.54	ug/l	98
26) Cyclohexane	7.66	56	559094	50.94	ug/l	99
29) 1,1-Dichloropropene	7.80	75	496701	51.28	ug/l	99
30) 2-Butanone	6.84	43	722633	242.53	ug/l	99
31) 2,2-Dichloropropane	6.83	77	463224	49.15	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	553216	50.37	ug/l	100
33) Carbon Tetrachloride	7.78	117	497102	50.26	ug/l	97
34) Benzene	8.04	78	1509396	50.38	ug/l #	93
35) Methacrylonitrile	7.17	41	156458	47.93	ug/l	98
36) 1,2-Dichloroethane	8.13	62	454087	50.11	ug/l	100
37) Trichloroethene	8.84	130	390546	49.87	ug/l	99
38) Methylcyclohexane	9.08	83	530009	50.95	ug/l	98
39) 1,2-Dichloropropane	9.12	63	392313	50.13	ug/l	99
40) Dibromomethane	9.21	93	237550	50.39	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.41	83	501196	50.44	ug/l	100
42) Vinyl Acetate	5.90	43	3580926	260.93	ug/l	99
43) Ethyl Acetate	6.93	43	310810	50.92	ug/l	94
44) Isopropyl Acetate	8.17	43	550377	51.10	ug/l	100
45) 1,4-Dioxane	9.20	88	82534	1031.57	ug/l	96
46) Methyl methacrylate	9.20	41	277546	51.45	ug/l	98
47) n-amyl Acetate	12.07	43	460031	53.13	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	497481	51.07	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	572751	51.19	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	347186	50.69	ug/l	99
51) Ethyl methacrylate	10.43	69	438265	52.30	ug/l	99
52) 1,3-Dichloropropane	10.71	76	572110	50.43	ug/l	99
53) Dibromochloromethane	10.90	129	390961	50.20	ug/l	99
54) 1,2-Dibromoethane	11.01	107	343333	50.70	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	911305	261.36	ug/l	100
56) Bromoform	12.13	173	280344	50.61	ug/l	100
58) 4-Methyl-2-Pentanone	9.99	43	1627581	245.92	ug/l	99
59) 2-Hexanone	10.75	43	1069808	247.30	ug/l	99
61) Tetrachloroethene	10.63	164	363420	50.42	ug/l	99
62) Toluene	10.16	91	1626750	50.41	ug/l	100
64) Chlorobenzene	11.44	112	1005613	50.28	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	380168	50.34	ug/l	99
66) Ethyl Benzene	11.51	91	1737039	51.97	ug/l	99
67) m/p-Xylenes	11.62	106	1341998	104.35	ug/l	100
68) o-Xylene	11.95	106	646729	52.63	ug/l	100
69) Styrene	11.97	104	1040574	53.26	ug/l	99
70) Isopropylbenzene	12.25	105	1704825	52.21	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	447189	50.58	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	386668m	50.85	ug/l	
73) Bromobenzene	12.53	156	437311	50.90	ug/l	99
74) n-propylbenzene	12.59	91	1940583	52.56	ug/l	100
75) 2-Chlorotoluene	12.68	91	1161632	51.79	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	1408228	52.77	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	110787	50.98	ug/l	98
78) 4-Chlorotoluene	12.77	91	1166350	52.81	ug/l	100
79) tert-butylbenzene	12.99	119	1210057	52.21	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	1423545	53.51	ug/l	99
81) sec-Butylbenzene	13.17	105	1592930	52.53	ug/l	100
82) p-Isopropyltoluene	13.29	119	1393311	53.23	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	769462	52.97	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	735262	53.42	ug/l	99
85) n-Butylbenzene	13.62	91	1087942	54.48	ug/l	99
86) Hexachloroethane	13.88	117	251413	50.04	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	752626	52.64	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	65357	52.84	ug/l	93
89) 1,2,4-Trichlorobenzene	14.91	180	352496	55.38	ug/l	98
90) Hexachlorobutadiene	15.01	225	226059	52.27	ug/l	99
91) Naphthalene	15.14	128	747028	54.76	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	347466	54.40	ug/l	100

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

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