

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100518\
 Data File : VN051675.D
 Acq On : 5 Oct 2018 10:00
 Operator : MD\SY
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 10/8/2018 3:58:47 PM

Quant Time: Oct 05 10:49:31 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	115824	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	670805	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	628659	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	243830	30.77	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.57%
60) 4-Bromofluorobenzene	12.40	95	308126	32.46	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	108.20%
63) Toluene-d8	10.09	98	821309	27.27	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	90.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	336269	59.727	ug/l 100
3) Chloromethane	2.06	50	348343	35.565	ug/l 100
4) Vinyl Chloride	2.18	62	531088	50.416	ug/l 99
5) Bromomethane	2.56	94	397232	58.005	ug/l 88
6) Chloroethane	2.70	64	358614	54.929	ug/l 97
7) Trichlorofluoromethane	3.01	101	558016	40.499	ug/l 97
8) Diethyl Ether	3.41	74	157391	38.517	ug/l 82
9) 1,1,2-Trichlorotrifluoroet	3.76	101	297348	42.716	ug/l 42
10) 1,1-Dichloroethene	3.74	96	268716	42.245	ug/l 96
11) Methyl Iodide	3.95	142	380288	40.037	ug/l 94
12) Methyl Acetate	4.33	43	217973	39.260	ug/l 99
13) Acrolein	3.61	56	74704	98.630	ug/l 90
14) Acrylonitrile	4.99	53	454097	199.701	ug/l # 61
15) Acetone	3.82	58	107645	194.127	ug/l 95
16) Carbon Disulfide	4.05	76	789274	39.346	ug/l 99
17) Allyl chloride	4.32	41	409446	36.701	ug/l 77
18) Methylene Chloride	4.55	84	315935	41.499	ug/l 97
19) trans-1,2-Dichloroethene	5.04	96	309129	44.636	ug/l 92
20) Diisopropyl ether	5.95	45	887509	39.095	ug/l # 88
21) 1,1-Dichloroethane	5.85	63	571846	42.242	ug/l # 96
22) cis-1,2-Dichloroethene	6.83	96	364190	46.832	ug/l 90
23) tert-Butyl Alcohol	4.79	59	125543	295.175	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	876057	50.501	ug/l # 57
25) Chloroform	7.37	83	632625	46.706	ug/l 98
26) Cyclohexane	7.65	56	485549	42.205	ug/l # 83
29) 1,1-Dichloropropene	7.79	75	461473	41.445	ug/l 97
30) 2-Butanone	6.84	43	546156	192.927	ug/l # 92
31) 2,2-Dichloropropane	6.83	77	563982	47.514	ug/l # 81
32) 1,1,1-Trichloroethane	7.57	97	596414	46.904	ug/l 97
33) Carbon Tetrachloride	7.78	117	554660	47.790	ug/l 90
34) Benzene	8.04	78	1377958m	41.569	ug/l
35) Methacrylonitrile	7.17	41	117746m	32.935	ug/l
36) 1,2-Dichloroethane	8.13	62	459758	43.037	ug/l 99
37) Trichloroethene	8.84	130	379466	43.382	ug/l 99
38) Methylcyclohexane	9.08	83	578895	45.402	ug/l 84
39) 1,2-Dichloropropane	9.12	63	339362	37.636	ug/l 96
40) Dibromomethane	9.21	93	233325	45.471	ug/l 99

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

41) Bromodichloromethane	9.40	83	518229	46.050	ug/l	93
42) Vinyl Acetate	5.90	43	3264652	205.200	ug/l #	94
43) Ethyl Acetate	6.93	43	250661	42.060	ug/l	98
44) Isopropyl Acetate	8.17	43	522749	45.789	ug/l	98
45) 1,4-Dioxane	9.20	88	68303	978.348	ug/l #	82
46) Methyl methacrylate	9.20	41	238342	42.052	ug/l	83
47) n-amyl Acetate	12.07	43	466854m	51.469	ug/l	
48) t-1,3-Dichloropropene	10.38	75	540525	48.799	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	566316	43.771	ug/l	91
50) 1,1,2-Trichloroethane	10.56	97	331396	45.302	ug/l	96
51) Ethyl methacrylate	10.43	69	418574	48.865	ug/l	88
52) 1,3-Dichloropropane	10.71	76	528085	42.761	ug/l	97
53) Dibromochloromethane	10.90	129	427817	50.841	ug/l	96
54) 1,2-Dibromoethane	11.01	107	345400	49.164	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	876189	205.098	ug/l	96
56) Bromoform	12.13	173	318654	56.510	ug/l	94
58) 4-Methyl-2-Pentanone	9.99	43	1322265	203.467	ug/l #	93
59) 2-Hexanone	10.75	43	900620	212.855	ug/l	95
61) Tetrachloroethene	10.63	164	365546	42.414	ug/l	98
62) Toluene	10.16	91	1604770	42.288	ug/l	99
64) Chlorobenzene	11.43	112	1028374	44.282	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.51	131	416023	46.266	ug/l	99
66) Ethyl Benzene	11.51	91	1821613	46.712	ug/l	100
67) m/p-Xylenes	11.62	106	1516289	100.009	ug/l	100
68) o-Xylene	11.95	106	736792	51.136	ug/l	93
69) Styrene	11.96	104	1210782	53.061	ug/l	99
70) Isopropylbenzene	12.25	105	2024623	52.420	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	415890	46.436	ug/l	95
72) 1,2,3-Trichloropropane	12.55	75	331005m	42.674	ug/l	
73) Bromobenzene	12.53	156	484420	50.239	ug/l	88
74) n-propylbenzene	12.59	91	2279382	50.967	ug/l	95
75) 2-Chlorotoluene	12.67	91	1332209	50.372	ug/l	95
76) 1,3,5-Trimethylbenzene	12.73	105	1778156	55.660	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	134256	55.524	ug/l	93
78) 4-Chlorotoluene	12.77	91	1386388	52.778	ug/l	94
79) tert-butylbenzene	12.99	119	1587826	57.383	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	1802503	55.940	ug/l	97
81) sec-Butylbenzene	13.17	105	2183847	57.275	ug/l	98
82) p-Isopropyltoluene	13.29	119	1928450	58.536	ug/l	97
83) 1,3-Dichlorobenzene	13.28	146	939565	55.555	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	909492	57.168	ug/l	97
85) n-Butylbenzene	13.62	91	1541192	57.734	ug/l	95
86) Hexachloroethane	13.87	117	373178	57.045	ug/l	87
87) 1,2-Dichlorobenzene	13.65	146	920287	56.848	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.27	75	72861	55.487	ug/l #	84
89) 1,2,4-Trichlorobenzene	14.91	180	387397	49.488	ug/l	98
90) Hexachlorobutadiene	15.01	225	249774	40.582	ug/l	97
91) Naphthalene	15.13	128	814619	56.647	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	370822	46.979	ug/l	94

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

