

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070319\
 Data File : VN056575.D
 Acq On : 3 Jul 2019 9:10
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 7/8/2019 10:04:42 AM

Quant Time: Jul 03 10:51:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N070319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 03 10:34:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	49167	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	265232	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	224449	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	101063	33.10	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	110.33%
60) 4-Bromofluorobenzene	12.40	95	95707	28.77	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.90%
63) Toluene-d8	10.09	98	323418	31.76	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	105.87%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	12105	4.377 ug/l	100
3) Chloromethane	2.06	50	18983	5.875 ug/l	100
4) Vinyl Chloride	2.18	62	17642	5.355 ug/l	93
5) Bromomethane	2.53	94	9458m	4.568 ug/l	
6) Chloroethane	2.68	64	9765m	5.241 ug/l	
7) Trichlorofluoromethane	3.01	101	22473	5.514 ug/l	93
8) Diethyl Ether	3.41	74	9361	5.415 ug/l	91
9) 1,1,2-Trichlorotrifluoroet	3.76	101	14532	5.776 ug/l	86
10) 1,1-Dichloroethene	3.73	96	13519	5.267 ug/l	97
11) Methyl Iodide	3.95	142	17687	4.368 ug/l	98
12) Methyl Acetate	4.33	43	23237m	7.535 ug/l	
13) Acrolein	3.61	56	10512	69.930 ug/l	94
14) Acrylonitrile	4.99	53	38717	28.150 ug/l	97
15) Acetone	3.82	58	11670	25.914 ug/l	95
16) Carbon Disulfide	4.05	76	29850	4.888 ug/l	99
17) Allyl chloride	4.32	41	23107	5.811 ug/l	98
18) Methylene Chloride	4.55	84	17173	5.780 ug/l	98
19) trans-1,2-Dichloroethene	5.04	96	15313	5.590 ug/l	99
20) Diisopropyl ether	5.95	45	49673	6.029 ug/l	92
21) 1,1-Dichloroethane	5.85	63	28347	5.920 ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	17890	5.595 ug/l	94
23) tert-Butyl Alcohol	4.79	59	17362m	32.432 ug/l	
24) Methyl tert-Butyl Ether	5.05	73	45809	5.601 ug/l #	82
25) Chloroform	7.37	83	28762	6.016 ug/l	98
26) Cyclohexane	7.65	56	25518	5.745 ug/l #	93
29) 1,1-Dichloropropene	7.79	75	20000	5.575 ug/l	99
30) 2-Butanone	6.84	43	56303	29.810 ug/l #	77
31) 2,2-Dichloropropane	6.82	77	19408	5.815 ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	21237	5.358 ug/l	97
33) Carbon Tetrachloride	7.77	117	17708	5.273 ug/l	95
34) Benzene	8.04	78	65927	5.767 ug/l #	79
35) Methacrylonitrile	7.18	41	9829	6.163 ug/l	97
36) 1,2-Dichloroethane	8.12	62	22123	6.179 ug/l #	83
37) Trichloroethene	8.83	130	16872	5.275 ug/l	96
38) Methylcyclohexane	9.08	83	24636	5.416 ug/l	95
39) 1,2-Dichloropropane	9.12	63	17538	5.990 ug/l	96
40) Dibromomethane	9.21	93	10654	5.488 ug/l	91

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

41) Bromodichloromethane	9.40	83	18730	5.388	ug/l	98
42) Vinyl Acetate	5.90	43	187185	27.798	ug/l	96
43) Ethyl Acetate	6.93	43	21859	6.047	ug/l	100
44) Isopropyl Acetate	8.17	43	33272	5.928	ug/l	95
45) 1,4-Dioxane	9.20	88	6866	114.359	ug/l #	90
46) Methyl methacrylate	9.20	41	16877	6.053	ug/l	95
47) n-amyl Acetate	12.07	43	24595	5.299	ug/l	93
48) t-1,3-Dichloropropene	10.38	75	18044	4.933	ug/l	96
49) cis-1,3-Dichloropropene	9.84	75	21777	5.084	ug/l	95
50) 1,1,2-Trichloroethane	10.56	97	15779	5.473	ug/l	95
51) Ethyl methacrylate	10.43	69	22909	5.252	ug/l	90
52) 1,3-Dichloropropane	10.71	76	27013	5.779	ug/l	97
53) Dibromochloromethane	10.90	129	13560	4.804	ug/l	96
54) 1,2-Dibromoethane	11.00	107	15827	5.260	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	56820	37.189	ug/l	97
56) Bromoform	12.13	173	9619	4.711	ug/l #	93
58) 4-Methyl-2-Pentanone	9.99	43	108499	31.924	ug/l	96
59) 2-Hexanone	10.75	43	78723	32.407	ug/l	96
61) Tetrachloroethene	10.63	164	15792	5.048	ug/l	96
62) Toluene	10.16	91	68879	5.685	ug/l	99
64) Chlorobenzene	11.43	112	40519	5.513	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	13879	5.237	ug/l	97
66) Ethyl Benzene	11.51	91	71412	5.534	ug/l	95
67) m/p-Xylenes	11.62	106	50752	10.274	ug/l	91
68) o-Xylene	11.95	106	26517	5.483	ug/l	96
69) Styrene	11.96	104	39936	5.083	ug/l	97
70) Isopropylbenzene	12.25	105	66253	5.244	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	23113	6.067	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	19908m	6.037	ug/l	
73) Bromobenzene	12.52	156	16849	5.024	ug/l	90
74) n-propylbenzene	12.59	91	72614	5.446	ug/l	98
75) 2-Chlorotoluene	12.67	91	45371	5.486	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	56157	5.403	ug/l	97
77) t-1,4-Dichloro-2-butene	12.30	75	4377	4.652	ug/l	92
78) 4-Chlorotoluene	12.77	91	40437	5.235	ug/l	97
79) tert-butylbenzene	12.99	119	49971	5.427	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	53381	5.280	ug/l	99
81) sec-Butylbenzene	13.17	105	62920	5.402	ug/l	97
82) p-Isopropyltoluene	13.29	119	53182	5.050	ug/l	98
83) 1,3-Dichlorobenzene	13.28	146	25469	4.873	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	23493	4.719	ug/l	100
85) n-Butylbenzene	13.61	91	40736	5.183	ug/l	96
86) Hexachloroethane	13.87	117	7487	4.560	ug/l	95
87) 1,2-Dichlorobenzene	13.65	146	26977	5.078	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	3567	5.965	ug/l	88
89) 1,2,4-Trichlorobenzene	14.91	180	10564	4.077	ug/l	96
90) Hexachlorobutadiene	15.00	225	9862	5.085	ug/l	97
91) Naphthalene	15.13	128	29140	4.130	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	12499	4.495	ug/l	100

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

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