

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN112618\
 Data File : VN052455.D
 Acq On : 26 Nov 2018 12:51
 Operator : MD\SY
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 11/27/2018 3:52:09 PM

Quant Time: Nov 27 00:40:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:15:57 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	157533	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	920924	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	787805	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	326559	30.42	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.40%
60) 4-Bromofluorobenzene	12.40	95	339589	28.17	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.90%
63) Toluene-d8	10.09	98	1117226	30.58	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.93%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	44027	4.91	ug/l	96
3) Chloromethane	2.06	50	58862	4.95	ug/l	100
4) Vinyl Chloride	2.19	62	58762	4.89	ug/l	93
5) Bromomethane	2.58	94	34349	5.02	ug/l	96
6) Chloroethane	2.71	64	34913	4.89	ug/l	95
7) Trichlorofluoromethane	3.03	101	75255	5.08	ug/l	96
8) Diethyl Ether	3.41	74	27177	4.97	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.76	101	48317	5.14	ug/l	98
10) 1,1-Dichloroethene	3.74	96	42920	4.86	ug/l	97
11) Methyl Iodide	3.96	142	47701	3.89	ug/l	99
12) Methyl Acetate	4.33	43	35753	4.76	ug/l	97
13) Acrolein	3.61	56	20254	22.97	ug/l	98
14) Acrylonitrile	5.00	53	72864	22.78	ug/l	99
15) Acetone	3.82	58	20536	24.79	ug/l	99
16) Carbon Disulfide	4.06	76	137151	4.90	ug/l	100
17) Allyl chloride	4.33	41	68159	4.42	ug/l	100
18) Methylene Chloride	4.55	84	52844	5.17	ug/l	96
19) trans-1,2-Dichloroethene	5.05	96	46356	4.88	ug/l	97
20) Diisopropyl ether	5.95	45	153457	4.74	ug/l	95
21) 1,1-Dichloroethane	5.85	63	89806	4.87	ug/l	100
22) cis-1,2-Dichloroethene	6.83	96	52151	4.79	ug/l	98
23) tert-Butyl Alcohol	4.78	59	10477	22.02	ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	107331	4.63	ug/l #	76
25) Chloroform	7.37	83	89363	5.02	ug/l	96
26) Cyclohexane	7.66	56	81800	4.70	ug/l #	100
29) 1,1-Dichloropropene	7.80	75	65332	4.65	ug/l	98
30) 2-Butanone	6.84	43	87738	23.32	ug/l #	97
31) 2,2-Dichloropropane	6.82	77	60277	4.66	ug/l	100
32) 1,1,1-Trichloroethane	7.57	97	70330	4.81	ug/l	98
33) Carbon Tetrachloride	7.77	117	60387	4.72	ug/l	98
34) Benzene	8.04	78	204462	4.84	ug/l #	73
35) Methacrylonitrile	7.18	41	20024	3.08	ug/l	97
36) 1,2-Dichloroethane	8.12	62	63861	4.98	ug/l	100
37) Trichloroethene	8.84	130	53111	4.95	ug/l	94
38) Methylcyclohexane	9.08	83	82530	4.74	ug/l	99
39) 1,2-Dichloropropane	9.12	63	54591	4.82	ug/l	97
40) Dibromomethane	9.21	93	29360	4.79	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	65407	4.83	ug/l	97
42) Vinyl Acetate	5.90	43	444371	21.82	ug/l	99
43) Ethyl Acetate	6.93	43	35747	2.14	ug/l #	67
44) Isopropyl Acetate	8.16	43	60605	4.32	ug/l	99
45) 1,4-Dioxane	9.20	88	6881	89.63	ug/l #	93
46) Methyl methacrylate	9.20	41	30519	4.19	ug/l	97
47) n-amyl Acetate	12.07	43	43159	3.71	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	54948	4.19	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	70977	4.44	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	40892	4.71	ug/l	98
51) Ethyl methacrylate	10.43	69	45712	4.19	ug/l	98
52) 1,3-Dichloropropane	10.71	76	73916	4.78	ug/l	97
53) Dibromochloromethane	10.90	129	42993	4.50	ug/l	96
54) 1,2-Dibromoethane	11.01	107	37840	4.46	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	132871	20.82	ug/l	100
56) Bromoform	12.13	173	27145	4.34	ug/l	97
58) 4-Methyl-2-Pentanone	9.99	43	173610	22.73	ug/l	99
59) 2-Hexanone	10.75	43	116858	22.40	ug/l	98
61) Tetrachloroethene	10.63	164	50342	5.19	ug/l	96
62) Toluene	10.16	91	216625	4.99	ug/l	100
64) Chlorobenzene	11.43	112	129497	4.89	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	44441	4.83	ug/l	96
66) Ethyl Benzene	11.51	91	219471	4.69	ug/l	98
67) m/p-Xylenes	11.62	106	163445	9.37	ug/l	98
68) o-Xylene	11.95	106	80553	4.76	ug/l	98
69) Styrene	11.97	104	120064	4.39	ug/l	99
70) Isopropylbenzene	12.25	105	210356	4.67	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	45552	4.65	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	40455m	4.95	ug/l	
73) Bromobenzene	12.53	156	50234	4.61	ug/l	99
74) n-propylbenzene	12.59	91	238307	4.54	ug/l	100
75) 2-Chlorotoluene	12.68	91	141652	4.65	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	168849	4.64	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	10386	3.91	ug/l	100
78) 4-Chlorotoluene	12.77	91	134816	4.43	ug/l	99
79) tert-butylbenzene	12.99	119	146468	4.62	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	161741	4.44	ug/l	100
81) sec-Butylbenzene	13.17	105	203954	4.62	ug/l	97
82) p-Isopropyltoluene	13.29	119	166937	4.44	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	84543	4.41	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	78271	4.23	ug/l	99
85) n-Butylbenzene	13.62	91	132280	4.10	ug/l	97
86) Hexachloroethane	13.88	117	28445	4.47	ug/l	99
87) 1,2-Dichlorobenzene	13.65	146	82435	4.52	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	5702	4.16	ug/l	97
89) 1,2,4-Trichlorobenzene	14.91	180	27531	3.07	ug/l	97
90) Hexachlorobutadiene	15.01	225	28301	4.80	ug/l	98
91) Naphthalene	15.14	128	52483	2.89	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	27850	3.36	ug/l	97

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

