

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN122818\
 Data File : VN053212.D
 Acq On : 28 Dec 2018 8:55
 Operator : MD\SY
 Sample : VSTDICCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 1/2/2019 9:48:00 AM

Quant Time: Dec 28 09:36:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N122818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 28 09:33:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	161924	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	949764	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	834035	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	312907	28.36	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	94.53%
60) 4-Bromofluorobenzene	12.40	95	378988	29.72	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.07%
63) Toluene-d8	10.09	98	1145002	29.61	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.70%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	219500	23.801	ug/l 98
3) Chloromethane	2.06	50	251540	20.567	ug/l 99
4) Vinyl Chloride	2.19	62	250152	20.265	ug/l 96
5) Bromomethane	2.58	94	156674	22.260	ug/l 99
6) Chloroethane	2.71	64	143384	19.532	ug/l 99
7) Trichlorofluoromethane	3.02	101	304392	19.980	ug/l 100
8) Diethyl Ether	3.41	74	111460	19.814	ug/l 94
9) 1,1,2-Trichlorotrifluoroet	3.77	101	191844	19.865	ug/l 97
10) 1,1-Dichloroethene	3.74	96	185614	20.441	ug/l 96
11) Methyl Iodide	3.96	142	270833	21.482	ug/l 97
12) Methyl Acetate	4.33	43	137344	17.802	ug/l 97
13) Acrolein	3.61	56	84030	92.720	ug/l 100
14) Acrylonitrile	4.99	53	326730	99.391	ug/l 98
15) Acetone	3.82	58	70689	83.032	ug/l 96
16) Carbon Disulfide	4.06	76	563463	19.600	ug/l 99
17) Allyl chloride	4.33	41	302873	19.126	ug/l 98
18) Methylene Chloride	4.55	84	212389	20.201	ug/l 94
19) trans-1,2-Dichloroethene	5.05	96	196458	20.104	ug/l 94
20) Diisopropyl ether	5.95	45	640249	19.239	ug/l 99
21) 1,1-Dichloroethane	5.85	63	365766	19.284	ug/l 98
22) cis-1,2-Dichloroethene	6.83	96	219772	19.624	ug/l 99
23) tert-Butyl Alcohol	4.78	59	52669	107.703	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	487507	20.465	ug/l 98
25) Chloroform	7.37	83	353982	19.345	ug/l 99
26) Cyclohexane	7.66	56	336925	18.834	ug/l # 97
29) 1,1-Dichloropropene	7.79	75	278218	19.182	ug/l 99
30) 2-Butanone	6.83	43	358588	92.396	ug/l 98
31) 2,2-Dichloropropane	6.83	77	270290	20.243	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	293766	19.465	ug/l 98
33) Carbon Tetrachloride	7.78	117	255948	19.383	ug/l 100
34) Benzene	8.04	78	853151	19.565	ug/l 98
35) Methacrylonitrile	7.18	41	93106	19.336	ug/l 93
36) 1,2-Dichloroethane	8.12	62	250496	18.957	ug/l 98
37) Trichloroethene	8.84	130	228923	20.703	ug/l 95
38) Methylcyclohexane	9.08	83	322241	17.948	ug/l 96
39) 1,2-Dichloropropane	9.12	63	221014	18.908	ug/l 96
40) Dibromomethane	9.21	93	124853	19.766	ug/l 95

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

41) Bromodichloromethane	9.40	83	264890	18.981	ug/l	98
42) Vinyl Acetate	5.90	43	1941754	92.470	ug/l	98
43) Ethyl Acetate	6.93	43	162870	19.736	ug/l #	68
44) Isopropyl Acetate	8.16	43	286969	19.827	ug/l	96
45) 1,4-Dioxane	9.20	88	35399	447.078	ug/l	92
46) Methyl methacrylate	9.20	41	145696	19.388	ug/l	92
47) n-amyl Acetate	12.07	43	245598	20.466	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	267696	19.783	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	317160	19.238	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	180439	20.152	ug/l	98
51) Ethyl methacrylate	10.43	69	227198	20.203	ug/l	94
52) 1,3-Dichloropropane	10.71	76	307601	19.300	ug/l	100
53) Dibromochloromethane	10.90	129	195547	19.837	ug/l	96
54) 1,2-Dibromoethane	11.01	107	180991	20.686	ug/l	96
55) 2-Chloroethyl vinyl ether	9.70	63	674009	102.392	ug/l	98
56) Bromoform	12.13	173	133451	20.711	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	807815	99.906	ug/l	98
59) 2-Hexanone	10.75	43	557587	100.948	ug/l	97
61) Tetrachloroethene	10.63	164	246672	24.014	ug/l	96
62) Toluene	10.16	91	904084	19.663	ug/l	100
64) Chlorobenzene	11.43	112	561407	20.005	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	197425	20.267	ug/l	99
66) Ethyl Benzene	11.51	91	973195	19.639	ug/l	100
67) m/p-Xylenes	11.62	106	740542	40.113	ug/l	98
68) o-Xylene	11.95	106	359417	20.058	ug/l	99
69) Styrene	11.96	104	582639	20.145	ug/l	99
70) Isopropylbenzene	12.25	105	941779	19.754	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	198770	19.166	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	181540m	20.391	ug/l	
73) Bromobenzene	12.53	156	244155	21.174	ug/l	93
74) n-propylbenzene	12.59	91	1059593	19.075	ug/l	98
75) 2-Chlorotoluene	12.67	91	637784	19.780	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	751938	19.527	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	58111	20.663	ug/l	96
78) 4-Chlorotoluene	12.77	91	641010	19.908	ug/l	100
79) tert-butylbenzene	12.99	119	651648	19.431	ug/l	97
80) 1,2,4-Trimethylbenzene	13.04	105	753751	19.562	ug/l	99
81) sec-Butylbenzene	13.17	105	854320	18.289	ug/l	100
82) p-Isopropyltoluene	13.29	119	745091	18.732	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	409599	20.197	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	399506	20.390	ug/l	99
85) n-Butylbenzene	13.62	91	594940	17.413	ug/l	99
86) Hexachloroethane	13.88	117	115224	17.097	ug/l	96
87) 1,2-Dichlorobenzene	13.65	146	393841	20.408	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	29034	19.986	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	176862	18.601	ug/l	99
90) Hexachlorobutadiene	15.01	225	119461	19.153	ug/l	100
91) Naphthalene	15.13	128	369100	19.223	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	157660	17.993	ug/l	97

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

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