

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110718\
 Data File : VN052211.D
 Acq On : 7 Nov 2018 16:58
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 11/9/2018 10:39:46 AM

Quant Time: Nov 08 07:26:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110118W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 02 05:39:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	66470	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	387389	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	342905	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	141196	28.62	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	95.40%
60) 4-Bromofluorobenzene	12.40	95	151541	27.63	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	92.10%
63) Toluene-d8	10.09	98	472682	29.31	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.70%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	95571	21.528	ug/l 100
3) Chloromethane	2.06	50	102623	20.226	ug/l 96
4) Vinyl Chloride	2.19	62	96381	19.364	ug/l 97
5) Bromomethane	2.58	94	66246	19.499	ug/l 97
6) Chloroethane	2.71	64	57190	17.970	ug/l 98
7) Trichlorofluoromethane	3.02	101	133152	19.755	ug/l 96
8) Diethyl Ether	3.42	74	46411	20.393	ug/l 94
9) 1,1,2-Trichlorotrifluoroet	3.77	101	79684m	20.227	ug/l
10) 1,1-Dichloroethene	3.74	96	73780	20.072	ug/l 89
11) Methyl Iodide	3.96	142	104816	19.722	ug/l 99
12) Methyl Acetate	4.33	43	60650	19.603	ug/l 97
13) Acrolein	3.61	56	29524	89.965	ug/l 93
14) Acrylonitrile	4.99	53	130023	94.764	ug/l # 86
15) Acetone	3.82	58	32691	100.811	ug/l 98
16) Carbon Disulfide	4.06	76	200209	18.446	ug/l 100
17) Allyl chloride	4.33	41	118669	19.014	ug/l 98
18) Methylene Chloride	4.55	84	82911	18.274	ug/l 90
19) trans-1,2-Dichloroethene	5.05	96	80761	20.052	ug/l 91
20) Diisopropyl ether	5.95	45	265870	19.604	ug/l 97
21) 1,1-Dichloroethane	5.85	63	151966	19.174	ug/l 97
22) cis-1,2-Dichloroethene	6.84	96	92693	19.709	ug/l 97
23) tert-Butyl Alcohol	4.78	59	22963	107.415	ug/l # 99
24) Methyl tert-Butyl Ether	5.05	73	196803m	18.885	ug/l
25) Chloroform	7.37	83	152528	19.166	ug/l 94
26) Cyclohexane	7.66	56	136172	19.166	ug/l # 96
29) 1,1-Dichloropropene	7.80	75	115891	18.843	ug/l 97
30) 2-Butanone	6.84	43	155058	94.669	ug/l # 71
31) 2,2-Dichloropropane	6.83	77	116743	18.427	ug/l 97
32) 1,1,1-Trichloroethane	7.57	97	128075	18.611	ug/l 96
33) Carbon Tetrachloride	7.78	117	114096	18.643	ug/l 99
34) Benzene	8.04	78	342930	19.043	ug/l 98
35) Methacrylonitrile	7.20	41	60248m	26.818	ug/l
36) 1,2-Dichloroethane	8.13	62	108885	18.084	ug/l 98
37) Trichloroethene	8.84	130	88692	19.677	ug/l 85
38) Methylcyclohexane	9.08	83	137998	18.393	ug/l 98
39) 1,2-Dichloropropane	9.12	63	92022	19.196	ug/l 96
40) Dibromomethane	9.21	93	55145	18.663	ug/l 92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	112018	18.528	ug/l	100
42) Vinyl Acetate	5.90	43	907489	94.643	ug/l	100
43) Ethyl Acetate	6.84	43	234008m	28.429	ug/l	
44) Isopropyl Acetate	8.17	43	132478	19.439	ug/l #	83
45) 1,4-Dioxane	9.20	88	11907	382.990	ug/l #	81
46) Methyl methacrylate	9.20	41	66520	19.609	ug/l	96
47) n-amyl Acetate	12.07	43	111457	18.042	ug/l #	100
48) t-1,3-Dichloropropene	10.38	75	108088	18.005	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	130289	18.803	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	74221	18.996	ug/l	98
51) Ethyl methacrylate	10.43	69	93085	18.433	ug/l	96
52) 1,3-Dichloropropane	10.71	76	128221	18.839	ug/l	99
53) Dibromochloromethane	10.90	129	79029	18.735	ug/l	100
54) 1,2-Dibromoethane	11.01	107	73945	18.663	ug/l	100
55) 2-Chloroethyl vinyl ether	9.70	63	263887	95.430	ug/l	99
56) Bromoform	12.13	173	45145	18.530	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	356132	96.922	ug/l	99
59) 2-Hexanone	10.75	43	240537	95.076	ug/l	99
61) Tetrachloroethene	10.63	164	75364	20.209	ug/l	96
62) Toluene	10.16	91	368742	19.156	ug/l	98
64) Chlorobenzene	11.44	112	231465	18.973	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	84255	20.291	ug/l	100
66) Ethyl Benzene	11.51	91	394527	18.974	ug/l	100
67) m/p-Xylenes	11.62	106	297434	37.156	ug/l	98
68) o-Xylene	11.95	106	145193	19.024	ug/l	96
69) Styrene	11.96	104	228045	18.542	ug/l	97
70) Isopropylbenzene	12.25	105	383536	18.720	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	87030	19.312	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	66094m	16.681	ug/l	
73) Bromobenzene	12.53	156	91680	20.195	ug/l	87
74) n-propylbenzene	12.59	91	432945	18.146	ug/l	97
75) 2-Chlorotoluene	12.67	91	250480	18.210	ug/l	96
76) 1,3,5-Trimethylbenzene	12.73	105	302402	18.407	ug/l	96
77) t-1,4-Dichloro-2-butene	12.30	75	21135	17.047	ug/l	97
78) 4-Chlorotoluene	12.77	91	251238	18.138	ug/l	98
79) tert-butylbenzene	12.99	119	270818	18.924	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	307533	18.790	ug/l	98
81) sec-Butylbenzene	13.17	105	364273	18.496	ug/l	98
82) p-Isopropyltoluene	13.29	119	311447	18.712	ug/l	98
83) 1,3-Dichlorobenzene	13.28	146	157576	19.623	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	151598	19.070	ug/l	96
85) n-Butylbenzene	13.62	91	255706	17.751	ug/l	99
86) Hexachloroethane	13.87	117	49763	17.717	ug/l	92
87) 1,2-Dichlorobenzene	13.65	146	154207	20.212	ug/l	94
88) 1,2-Dibromo-3-Chloropropan	14.27	75	11379	18.466	ug/l #	84
89) 1,2,4-Trichlorobenzene	14.91	180	65656	21.200	ug/l	98
90) Hexachlorobutadiene	15.01	225	38410	22.669	ug/l	99
91) Naphthalene	15.13	128	156907	21.981	ug/l	98
92) 1,2,3-Trichlorobenzene	15.31	180	63894	23.672	ug/l	98

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

