

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102418\
 Data File : VN051997.D
 Acq On : 24 Oct 2018 19:20
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

apatel
 10/25/2018 9:24:32 AM

Quant Time: Oct 25 01:43:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 12 10:23:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	167562	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	949384	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	852012	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	292278	28.67	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	95.57%
60) 4-Bromofluorobenzene	12.40	95	351567	28.62	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.40%
63) Toluene-d8	10.09	98	1082602	29.26	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.53%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	134355	20.639	ug/l 98
3) Chloromethane	2.06	50	118095	17.165	ug/l 97
4) Vinyl Chloride	2.19	62	147638	14.370	ug/l 100
5) Bromomethane	2.55	94	149581	16.477	ug/l 86
6) Chloroethane	2.70	64	113399	15.315	ug/l 97
7) Trichlorofluoromethane	3.02	101	288759	19.713	ug/l 94
8) Diethyl Ether	3.42	74	85651	20.086	ug/l 67
9) 1,1,2-Trichlorotrifluoroet	3.77	101	177372	21.263	ug/l # 40
10) 1,1-Dichloroethene	3.74	96	158925	20.600	ug/l # 78
11) Methyl Iodide	3.96	142	263886	23.530	ug/l 95
12) Methyl Acetate	4.33	43	97403	20.332	ug/l # 89
13) Acrolein	3.61	56	8357m	26.477	ug/l
14) Acrylonitrile	4.99	53	190284	88.872	ug/l # 60
15) Acetone	3.82	58	41540	78.484	ug/l 99
16) Carbon Disulfide	4.06	76	320179	15.803	ug/l 97
17) Allyl chloride	4.33	41	144322	15.757	ug/l 72
18) Methylene Chloride	4.55	84	184383	21.376	ug/l 87
19) trans-1,2-Dichloroethene	5.05	96	173272	19.670	ug/l # 79
20) Diisopropyl ether	5.95	45	380926	18.674	ug/l # 82
21) 1,1-Dichloroethane	5.85	63	272411	19.112	ug/l # 98
22) cis-1,2-Dichloroethene	6.83	96	208155	20.118	ug/l # 77
23) tert-Butyl Alcohol	4.78	59	28233m	50.068	ug/l
24) Methyl tert-Butyl Ether	5.05	73	406010	18.267	ug/l 97
25) Chloroform	7.37	83	336653	19.909	ug/l 98
26) Cyclohexane	7.66	56	209476	17.335	ug/l # 68
29) 1,1-Dichloropropene	7.80	75	229026	18.715	ug/l 92
30) 2-Butanone	6.84	43	193658	75.712	ug/l # 84
31) 2,2-Dichloropropane	6.83	77	229041	15.910	ug/l # 77
32) 1,1,1-Trichloroethane	7.57	97	302080	18.619	ug/l 94
33) Carbon Tetrachloride	7.78	117	265909	18.115	ug/l 91
34) Benzene	8.04	78	705522	19.490	ug/l # 65
35) Methacrylonitrile	7.17	41	40967	12.191	ug/l # 69
36) 1,2-Dichloroethane	8.13	62	222662	19.197	ug/l 96
37) Trichloroethene	8.84	130	225916	20.105	ug/l 93
38) Methylcyclohexane	9.08	83	267288	17.029	ug/l 78
39) 1,2-Dichloropropane	9.12	63	161580	18.954	ug/l 98
40) Dibromomethane	9.21	93	125099	19.772	ug/l 93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	232438	17.786	ug/l	95
42) Vinyl Acetate	5.90	43	1192272	82.804	ug/l #	88
43) Ethyl Acetate	6.92	43	96705	17.412	ug/l	97
44) Isopropyl Acetate	8.17	43	176892	15.946	ug/l	94
45) 1,4-Dioxane	9.20	88	20281	227.684	ug/l #	71
46) Methyl methacrylate	9.20	41	86308	16.867	ug/l	71
47) n-amyl Acetate	12.07	43	153325m	16.510	ug/l	
48) t-1,3-Dichloropropene	10.38	75	209650	16.451	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	242136	17.235	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	171792	19.652	ug/l	95
51) Ethyl methacrylate	10.43	69	177317	17.717	ug/l	81
52) 1,3-Dichloropropane	10.71	76	258156	19.134	ug/l	99
53) Dibromochloromethane	10.90	129	178746	16.528	ug/l	96
54) 1,2-Dibromoethane	11.01	107	171264	18.665	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	482590	112.795	ug/l #	91
56) Bromoform	12.13	173	100129	14.039	ug/l #	93
58) 4-Methyl-2-Pentanone	9.99	43	471597	82.713	ug/l #	86
59) 2-Hexanone	10.75	43	305929	79.534	ug/l #	89
61) Tetrachloroethene	10.63	164	206661	18.967	ug/l	96
62) Toluene	10.16	91	837140	19.778	ug/l	99
64) Chlorobenzene	11.43	112	559872	20.197	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.51	131	199361	18.737	ug/l	100
66) Ethyl Benzene	11.51	91	880403	18.820	ug/l	98
67) m/p-Xylenes	11.62	106	721810	38.059	ug/l	96
68) o-Xylene	11.95	106	354616	18.967	ug/l	85
69) Styrene	11.96	104	549584	19.159	ug/l	95
70) Isopropylbenzene	12.25	105	929629	18.646	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.50	83	159439	16.193	ug/l	92
72) 1,2,3-Trichloropropane	12.55	75	124697m	16.099	ug/l	
73) Bromobenzene	12.53	156	245917	19.913	ug/l	75
74) n-propylbenzene	12.59	91	983930	18.347	ug/l	93
75) 2-Chlorotoluene	12.67	91	575060	18.290	ug/l	89
76) 1,3,5-Trimethylbenzene	12.73	105	736142	17.855	ug/l	97
77) t-1,4-Dichloro-2-butene	12.30	75	31494	12.294	ug/l	94
78) 4-Chlorotoluene	12.77	91	574498	18.598	ug/l	88
79) tert-butylbenzene	12.99	119	682679	18.005	ug/l	92
80) 1,2,4-Trimethylbenzene	13.04	105	735720	17.855	ug/l	96
81) sec-Butylbenzene	13.17	105	872384	17.588	ug/l	95
82) p-Isopropyltoluene	13.29	119	781194	17.601	ug/l	94
83) 1,3-Dichlorobenzene	13.28	146	414811	19.036	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	400513	19.523	ug/l	99
85) n-Butylbenzene	13.61	91	564138	16.856	ug/l	94
86) Hexachloroethane	13.87	117	104884	13.705	ug/l	93
87) 1,2-Dichlorobenzene	13.65	146	386265	18.309	ug/l	95
88) 1,2-Dibromo-3-Chloropropan	14.27	75	14337	9.750	ug/l #	60
89) 1,2,4-Trichlorobenzene	14.91	180	117290	16.151	ug/l	99
90) Hexachlorobutadiene	15.01	225	88615	13.034	ug/l	98
91) Naphthalene	15.13	128	197611	15.382	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	88133	9.182	ug/l	94

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

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