

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111618\
 Data File : VN052352.D
 Acq On : 16 Nov 2018 8:52
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 11/19/2018 12:45:40 PM

Quant Time: Nov 16 23:01:32 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	46746	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	277976	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.40	117	244773	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	116378	33.54	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	111.80%
60) 4-Bromofluorobenzene	12.40	95	117239	29.94	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.80%
63) Toluene-d8	10.09	98	345959	30.06	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	75069	24.044 ug/l	98
3) Chloromethane	2.06	50	81737	22.907 ug/l	99
4) Vinyl Chloride	2.19	62	71285	20.365 ug/l	99
5) Bromomethane	2.56	94	42645	17.849 ug/l	98
6) Chloroethane	2.71	64	39734	17.753 ug/l	99
7) Trichlorofluoromethane	3.02	101	101054	21.319 ug/l	99
8) Diethyl Ether	3.41	74	35300	22.056 ug/l	81
9) 1,1,2-Trichlorotrifluoroet	3.76	101	63647	22.973 ug/l	97
10) 1,1-Dichloroethene	3.74	96	52467	20.296 ug/l	95
11) Methyl Iodide	3.96	142	75999	20.333 ug/l	97
12) Methyl Acetate	4.32	43	58670	26.964 ug/l	100
13) Acrolein	3.60	56	27399	118.718 ug/l	99
14) Acrylonitrile	4.98	53	105253	109.078 ug/l	98
15) Acetone	3.82	58	31795	139.418 ug/l #	66
16) Carbon Disulfide	4.06	76	134896	17.673 ug/l	99
17) Allyl chloride	4.33	41	105178	23.963 ug/l	97
18) Methylene Chloride	4.55	84	66518	20.847 ug/l	87
19) trans-1,2-Dichloroethene	5.04	96	57052	20.143 ug/l	93
20) Diisopropyl ether	5.95	45	240614	25.227 ug/l	99
21) 1,1-Dichloroethane	5.85	63	125394	22.497 ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	68636	20.752 ug/l	91
23) tert-Butyl Alcohol	4.77	59	14458m	96.167 ug/l	
24) Methyl tert-Butyl Ether	5.04	73	160955	21.962 ug/l	93
25) Chloroform	7.37	83	132743	23.718 ug/l	94
26) Cyclohexane	7.65	56	107723	21.559 ug/l #	87
29) 1,1-Dichloropropene	7.79	75	90032	20.400 ug/l	98
30) 2-Butanone	6.83	43	149171	126.923 ug/l #	82
31) 2,2-Dichloropropane	6.82	77	96535	21.234 ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	104990	21.262 ug/l	96
33) Carbon Tetrachloride	7.77	117	88835	20.229 ug/l	95
34) Benzene	8.04	78	264698	20.484 ug/l	96
35) Methacrylonitrile	7.17	41	34478	21.388 ug/l #	79
36) 1,2-Dichloroethane	8.12	62	97930	22.666 ug/l	97
37) Trichloroethene	8.83	130	66587	20.588 ug/l	84
38) Methylcyclohexane	9.08	83	102312	19.004 ug/l	95
39) 1,2-Dichloropropane	9.12	63	74659	21.704 ug/l	94
40) Dibromomethane	9.21	93	42363	19.980 ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	93187	21.481	ug/l	100
42) Vinyl Acetate	5.89	43	802849	116.686	ug/l	97
43) Ethyl Acetate	6.83	43	149171	25.256	ug/l #	86
44) Isopropyl Acetate	8.16	43	116452m	23.813	ug/l	
45) 1,4-Dioxane	9.19	88	7167	321.264	ug/l #	85
46) Methyl methacrylate	9.20	41	58461	24.016	ug/l	89
47) n-amyl Acetate	12.07	43	97204	21.929	ug/l #	100
48) t-1,3-Dichloropropene	10.38	75	90253	20.951	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	107341	21.589	ug/l #	84
50) 1,1,2-Trichloroethane	10.56	97	57593	20.542	ug/l	95
51) Ethyl methacrylate	10.43	69	73716	20.344	ug/l	81
52) 1,3-Dichloropropane	10.71	76	101093	20.700	ug/l	99
53) Dibromochloromethane	10.90	129	63614	21.017	ug/l	98
54) 1,2-Dibromoethane	11.00	107	54126	19.037	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	209202	105.432	ug/l	98
56) Bromoform	12.12	173	34741	19.872	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	303578	115.743	ug/l	95
59) 2-Hexanone	10.75	43	220336	122.007	ug/l	94
61) Tetrachloroethene	10.63	164	59050	22.182	ug/l	91
62) Toluene	10.15	91	285886	20.806	ug/l	99
64) Chlorobenzene	11.43	112	176431	20.260	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	61355	20.700	ug/l	96
66) Ethyl Benzene	11.51	91	312042	21.024	ug/l	98
67) m/p-Xylenes	11.62	106	231826	40.570	ug/l	97
68) o-Xylene	11.94	106	111638	20.492	ug/l	97
69) Styrene	11.96	104	180937	20.610	ug/l	97
70) Isopropylbenzene	12.25	105	309930	21.192	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	67647	21.029	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	62048m	21.938	ug/l	
73) Bromobenzene	12.52	156	68154	21.031	ug/l	96
74) n-propylbenzene	12.59	91	366411	21.515	ug/l	98
75) 2-Chlorotoluene	12.67	91	209983	21.386	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	255479	21.785	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	17151	19.380	ug/l	85
78) 4-Chlorotoluene	12.77	91	211478	21.388	ug/l	98
79) tert-butylbenzene	12.99	119	220234	21.559	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	253839	21.727	ug/l	99
81) sec-Butylbenzene	13.17	105	305984	21.765	ug/l	100
82) p-Isopropyltoluene	13.29	119	255209	21.481	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	125937	21.971	ug/l	96
84) 1,4-Dichlorobenzene	13.36	146	119285	21.021	ug/l	98
85) n-Butylbenzene	13.61	91	220711	21.464	ug/l	98
86) Hexachloroethane	13.87	117	44694	22.292	ug/l	93
87) 1,2-Dichlorobenzene	13.65	146	121308	22.275	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	14.27	75	9305	21.154	ug/l	94
89) 1,2,4-Trichlorobenzene	14.91	180	47679	21.567	ug/l	98
90) Hexachlorobutadiene	15.01	225	31385	25.949	ug/l	98
91) Naphthalene	15.13	128	94058	18.459	ug/l	98
92) 1,2,3-Trichlorobenzene	15.31	180	41427	21.501	ug/l	99

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

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