

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102318\
 Data File : VN051972.D
 Acq On : 23 Oct 2018 19:32
 Operator : MD\SY
 Sample : VN1023WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VN1023WBSD01

Manual Integrations
 APPROVED

MMDadoda
 10/24/2018 10:10:11 AM

Quant Time: Oct 24 07:48:54 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	161117	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	909881	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	821010	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	288589	29.44	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.13%
60) 4-Bromofluorobenzene	12.40	95	348969	29.48	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.27%
63) Toluene-d8	10.09	98	1060328	29.74	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.13%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.85	85	133926	21.396	ug/l	98
3) Chloromethane	2.06	50	118347	17.890	ug/l	96
4) Vinyl Chloride	2.19	62	149628	15.146	ug/l	97
5) Bromomethane	2.57	94	152126	17.428	ug/l	83
6) Chloroethane	2.71	64	116647	16.384	ug/l	98
7) Trichlorofluoromethane	3.03	101	280973	19.949	ug/l	96
8) Diethyl Ether	3.41	74	82070	20.016	ug/l	68
9) 1,1,2-Trichlorotrifluoroet	3.77	101	164573	20.517	ug/l #	35
10) 1,1-Dichloroethene	3.74	96	153530	20.697	ug/l #	79
11) Methyl Iodide	3.96	142	247841	22.983	ug/l	95
12) Methyl Acetate	4.33	43	87810	19.063	ug/l	95
13) Acrolein	3.62	56	8378m	27.605	ug/l	
14) Acrylonitrile	4.99	53	186857	90.763	ug/l #	59
15) Acetone	3.82	58	42653	83.810	ug/l	92
16) Carbon Disulfide	4.06	76	336940	17.295	ug/l	96
17) Allyl chloride	4.33	41	142458	16.176	ug/l	73
18) Methylene Chloride	4.55	84	172215	20.764	ug/l	87
19) trans-1,2-Dichloroethene	5.05	96	168179	19.855	ug/l #	78
20) Diisopropyl ether	5.95	45	367590	18.741	ug/l #	85
21) 1,1-Dichloroethane	5.85	63	267165	19.494	ug/l #	97
22) cis-1,2-Dichloroethene	6.83	96	199489	20.051	ug/l #	79
23) tert-Butyl Alcohol	4.77	59	34710	64.016	ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	389334	18.217	ug/l #	65
25) Chloroform	7.37	83	329765	20.282	ug/l	98
26) Cyclohexane	7.66	56	208973	17.985	ug/l #	71
29) 1,1-Dichloropropene	7.80	75	221039	18.846	ug/l	93
30) 2-Butanone	6.84	43	199630	81.436	ug/l #	84
31) 2,2-Dichloropropane	6.83	77	231485m	16.778	ug/l	
32) 1,1,1-Trichloroethane	7.57	97	303494	19.518	ug/l #	93
33) Carbon Tetrachloride	7.78	117	258425	18.370	ug/l	92
34) Benzene	8.04	78	686465	19.787	ug/l #	65
35) Methacrylonitrile	7.18	41	51449	15.975	ug/l	82
36) 1,2-Dichloroethane	8.13	62	221200	19.899	ug/l	97
37) Trichloroethene	8.84	130	216824	20.133	ug/l	97
38) Methylcyclohexane	9.08	83	267330	17.771	ug/l	78
39) 1,2-Dichloropropane	9.12	63	158071	19.347	ug/l	93
40) Dibromomethane	9.21	93	120769	19.916	ug/l	94

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41) Bromodichloromethane	9.40	83	230714	18.420	ug/l	95
42) Vinyl Acetate	5.90	43	1191680	86.356	ug/l #	89
43) Ethyl Acetate	6.93	43	89934	16.896	ug/l	99
44) Isopropyl Acetate	8.17	43	175678	16.524	ug/l	96
45) 1,4-Dioxane	9.20	88	25981	304.339	ug/l #	74
46) Methyl methacrylate	9.20	41	85745	17.485	ug/l	72
47) n-amyl Acetate	12.07	43	168565m	18.939	ug/l	
48) t-1,3-Dichloropropene	10.38	75	203521	16.663	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	241697	17.951	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	166139	19.830	ug/l	94
51) Ethyl methacrylate	10.43	69	172032	17.935	ug/l	85
52) 1,3-Dichloropropane	10.71	76	254041	19.647	ug/l	98
53) Dibromochloromethane	10.90	129	178602	17.232	ug/l	96
54) 1,2-Dibromoethane	11.01	107	169780	19.306	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	469033	114.386	ug/l #	93
56) Bromoform	12.13	173	102731	15.029	ug/l #	93
58) 4-Methyl-2-Pentanone	9.99	43	471957	85.902	ug/l #	85
59) 2-Hexanone	10.75	43	315567	85.137	ug/l	90
61) Tetrachloroethene	10.63	164	203466	19.379	ug/l	97
62) Toluene	10.16	91	807122	19.789	ug/l	97
64) Chlorobenzene	11.43	112	541070	20.256	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.51	131	193058	18.830	ug/l	99
66) Ethyl Benzene	11.51	91	888582	19.712	ug/l	99
67) m/p-Xylenes	11.62	106	720882	39.446	ug/l	95
68) o-Xylene	11.95	106	347725	19.301	ug/l	90
69) Styrene	11.96	104	551654	19.957	ug/l	96
70) Isopropylbenzene	12.25	105	930898	19.376	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	180159	18.988	ug/l	96
72) 1,2,3-Trichloropropane	12.55	75	145667m	19.516	ug/l	
73) Bromobenzene	12.53	156	251065	21.098	ug/l	77
74) n-propylbenzene	12.59	91	1008624	19.517	ug/l	94
75) 2-Chlorotoluene	12.67	91	585250	19.317	ug/l	91
76) 1,3,5-Trimethylbenzene	12.73	105	756966	19.053	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	34895	14.136	ug/l	93
78) 4-Chlorotoluene	12.77	91	601288	20.200	ug/l	91
79) tert-butylbenzene	12.99	119	697629	19.094	ug/l	94
80) 1,2,4-Trimethylbenzene	13.04	105	768198	19.347	ug/l	97
81) sec-Butylbenzene	13.17	105	900439	18.840	ug/l	96
82) p-Isopropyltoluene	13.29	119	805376	18.831	ug/l	96
83) 1,3-Dichlorobenzene	13.28	146	439568	20.934	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	427645	21.633	ug/l	99
85) n-Butylbenzene	13.61	91	609100	18.886	ug/l	94
86) Hexachloroethane	13.87	117	110142	14.935	ug/l	90
87) 1,2-Dichlorobenzene	13.65	146	414950	20.412	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	14.27	75	20385	14.387	ug/l #	61
89) 1,2,4-Trichlorobenzene	14.91	180	179862	21.133	ug/l	99
90) Hexachlorobutadiene	15.01	225	100810	15.388	ug/l	96
91) Naphthalene	15.13	128	340580	20.782	ug/l	98
92) 1,2,3-Trichlorobenzene	15.31	180	149281	16.140	ug/l	93

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

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