

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN073118\
 Data File : VN050204.D
 Acq On : 31 Jul 2018 9:37
 Operator : MD\SY
 Sample : VN0731WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0731WBS01

Manual Integrations
 APPROVED

MMDadoda
 8/1/2018 11:13:55 AM

Quant Time: Jul 31 17:50:15 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 15:21:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	127516	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	704962	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	606236	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	261596	30.18	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.60%
60) 4-Bromofluorobenzene	12.40	95	271555	29.16	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.20%
63) Toluene-d8	10.09	98	877461	30.30	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	179989	20.483	ug/l 96
3) Chloromethane	2.06	50	166487	18.376	ug/l 99
4) Vinyl Chloride	2.18	62	185599	19.241	ug/l 100
5) Bromomethane	2.57	94	58692	9.982	ug/l 97
6) Chloroethane	2.70	64	108910	19.091	ug/l 98
7) Trichlorofluoromethane	3.01	101	255550	20.275	ug/l 99
8) Diethyl Ether	3.41	74	80180	18.964	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	160987	20.995	ug/l 98
10) 1,1-Dichloroethene	3.74	96	134188	19.737	ug/l 97
11) Methyl Iodide	3.95	142	69886	6.986	ug/l 100
12) Methyl Acetate	4.33	43	159589	20.492	ug/l 99
13) Acrolein	3.61	56	13858	28.792	ug/l 97
14) Acrylonitrile	4.99	53	223106	85.852	ug/l 99
15) Acetone	3.82	58	63222	91.540	ug/l 92
16) Carbon Disulfide	4.05	76	382938	18.405	ug/l 100
17) Allyl chloride	4.33	41	207067	19.286	ug/l 99
18) Methylene Chloride	4.55	84	157112	20.026	ug/l 98
19) trans-1,2-Dichloroethene	5.04	96	141590	19.452	ug/l 100
20) Diisopropyl ether	5.95	45	450259	20.452	ug/l 99
21) 1,1-Dichloroethane	5.85	63	281395	20.328	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	162595	20.143	ug/l 99
23) tert-Butyl Alcohol	4.79	59	44952m	77.412	ug/l
24) Methyl tert-Butyl Ether	5.05	73	346932	18.711	ug/l 99
25) Chloroform	7.37	83	287036	20.483	ug/l 98
26) Cyclohexane	7.65	56	217193	19.744	ug/l # 98
29) 1,1-Dichloropropene	7.79	75	205957	18.825	ug/l 100
30) 2-Butanone	6.84	43	271575	79.105	ug/l 99
31) 2,2-Dichloropropane	6.83	77	230649	19.073	ug/l 100
32) 1,1,1-Trichloroethane	7.57	97	240046	18.641	ug/l 98
33) Carbon Tetrachloride	7.77	117	215962	18.813	ug/l 100
34) Benzene	8.04	78	635573	19.129	ug/l 98
35) Methacrylonitrile	7.17	41	42695	10.923	ug/l 94
36) 1,2-Dichloroethane	8.13	62	201358	18.457	ug/l 99
37) Trichloroethene	8.84	130	163914	18.810	ug/l 94
38) Methylcyclohexane	9.08	83	211058	18.299	ug/l 100
39) 1,2-Dichloropropane	9.12	63	170798	19.514	ug/l 100
40) Dibromomethane	9.21	93	98058	18.127	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	215544	18.889	ug/l	97
42) Vinyl Acetate	5.90	43	1349785	83.551	ug/l	99
43) Ethyl Acetate	6.93	43	110921	15.473	ug/l	96
44) Isopropyl Acetate	8.17	43	241390	18.177	ug/l	92
45) 1,4-Dioxane	9.20	88	26028	297.843	ug/l	94
46) Methyl methacrylate	9.20	41	103003	16.000	ug/l	98
47) n-amyl Acetate	12.07	43	151528	14.664	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	196807	18.095	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	235400	18.419	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	141264	18.193	ug/l	99
51) Ethyl methacrylate	10.43	69	151816	16.108	ug/l	99
52) 1,3-Dichloropropane	10.71	76	229113	17.968	ug/l	99
53) Dibromochloromethane	10.90	129	155062	17.596	ug/l	97
54) 1,2-Dibromoethane	11.01	107	133308	17.529	ug/l	100
55) 2-Chloroethyl vinyl ether	9.70	63	338368	79.327	ug/l	99
56) Bromoform	12.13	173	100114	16.089	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	586371	83.124	ug/l	99
59) 2-Hexanone	10.75	43	377659	78.475	ug/l	99
61) Tetrachloroethene	10.63	164	159651	19.442	ug/l	99
62) Toluene	10.16	91	671848	19.424	ug/l	99
64) Chlorobenzene	11.44	112	408598	19.481	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	160037	19.562	ug/l	100
66) Ethyl Benzene	11.51	91	677109	19.156	ug/l	100
67) m/p-Xylenes	11.62	106	527867	38.806	ug/l	99
68) o-Xylene	11.95	106	246319	19.032	ug/l	98
69) Styrene	11.96	104	389431	18.770	ug/l	98
70) Isopropylbenzene	12.25	105	671789	19.490	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	164170	17.347	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	135632m	16.780	ug/l	
73) Bromobenzene	12.53	156	166922	18.179	ug/l	97
74) n-propylbenzene	12.59	91	764330	19.039	ug/l	99
75) 2-Chlorotoluene	12.67	91	467295	19.380	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	551752	19.489	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	37900	14.342	ug/l	92
78) 4-Chlorotoluene	12.77	91	456036	19.086	ug/l	100
79) tert-butylbenzene	12.99	119	475621	19.650	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	561669	19.581	ug/l	99
81) sec-Butylbenzene	13.17	105	636634	19.362	ug/l	99
82) p-Isopropyltoluene	13.29	119	538573	19.197	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	296752	18.561	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	277523	18.368	ug/l	99
85) n-Butylbenzene	13.62	91	410788	18.042	ug/l	99
86) Hexachloroethane	13.88	117	104465	18.633	ug/l	96
87) 1,2-Dichlorobenzene	13.65	146	292996	18.748	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	23029	15.620	ug/l	95
89) 1,2,4-Trichlorobenzene	14.91	180	116312	15.582	ug/l	98
90) Hexachlorobutadiene	15.01	225	94728	19.248	ug/l	98
91) Naphthalene	15.14	128	209132	16.579	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	120586	15.884	ug/l	97

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

