

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030119\
 Data File : VN054030.D
 Acq On : 1 Mar 2019 15:26
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 3/6/2019 10:24:00 AM

Quant Time: Mar 02 00:11:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N030119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 01 11:11:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	114431	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	620054	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	538961	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	241517	30.06	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.20%
60) 4-Bromofluorobenzene	12.40	95	250859	30.41	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.37%
63) Toluene-d8	10.09	98	785207	30.28	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.93%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	128829	19.912	ug/l 99
3) Chloromethane	2.06	50	176234	20.477	ug/l 98
4) Vinyl Chloride	2.19	62	172132	19.973	ug/l 98
5) Bromomethane	2.57	94	105522	19.904	ug/l 96
6) Chloroethane	2.71	64	100927	19.891	ug/l 91
7) Trichlorofluoromethane	3.02	101	212291	20.274	ug/l 99
8) Diethyl Ether	3.41	74	79698	20.238	ug/l 96
9) 1,1,2-Trichlorotrifluoroet	3.76	101	132950	19.749	ug/l 97
10) 1,1-Dichloroethene	3.74	96	124707	19.771	ug/l 92
11) Methyl Iodide	3.96	142	175982	18.810	ug/l 99
12) Methyl Acetate	4.33	43	106841	20.090	ug/l 98
13) Acrolein	3.61	56	36481	79.722	ug/l 99
14) Acrylonitrile	4.99	53	258949	101.325	ug/l 98
15) Acetone	3.82	58	63202	85.815	ug/l 96
16) Carbon Disulfide	4.06	76	399077	19.501	ug/l 99
17) Allyl chloride	4.33	41	227967	20.436	ug/l 97
18) Methylene Chloride	4.55	84	147049	20.189	ug/l 99
19) trans-1,2-Dichloroethene	5.05	96	135658	19.825	ug/l 97
20) Diisopropyl ether	5.95	45	448403	20.095	ug/l 97
21) 1,1-Dichloroethane	5.85	63	264691	20.085	ug/l 100
22) cis-1,2-Dichloroethene	6.83	96	152617	20.034	ug/l 97
23) tert-Butyl Alcohol	4.79	59	51963	113.520	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	353228	20.686	ug/l 100
25) Chloroform	7.37	83	253780	19.958	ug/l 99
26) Cyclohexane	7.66	56	244367	20.375	ug/l # 98
29) 1,1-Dichloropropene	7.80	75	195354	20.114	ug/l 99
30) 2-Butanone	6.84	43	300300	97.927	ug/l 98
31) 2,2-Dichloropropane	6.83	77	180047	18.800	ug/l # 77
32) 1,1,1-Trichloroethane	7.57	97	211077	20.205	ug/l 99
33) Carbon Tetrachloride	7.78	117	183811	19.872	ug/l 99
34) Benzene	8.04	78	581037	20.130	ug/l 97
35) Methacrylonitrile	7.18	41	63862m	18.625	ug/l
36) 1,2-Dichloroethane	8.13	62	188456	20.332	ug/l 99
37) Trichloroethene	8.84	130	154903	20.558	ug/l 100
38) Methylcyclohexane	9.08	83	225204	19.646	ug/l 98
39) 1,2-Dichloropropane	9.12	63	160350	20.278	ug/l 99
40) Dibromomethane	9.21	93	91995	20.294	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	191082	19.866	ug/l	99
42) Vinyl Acetate	5.90	43	1593772	100.600	ug/l	100
43) Ethyl Acetate	6.93	43	126577	19.706	ug/l #	69
44) Isopropyl Acetate	8.17	43	232609	20.638	ug/l	96
45) 1,4-Dioxane	9.20	88	30301	456.073	ug/l	96
46) Methyl methacrylate	9.20	41	108373	20.018	ug/l	97
47) n-amyl Acetate	12.07	43	169096	20.424	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	182972	18.973	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	220191	19.444	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	131521	20.683	ug/l	99
51) Ethyl methacrylate	10.43	69	153138	20.005	ug/l	98
52) 1,3-Dichloropropane	10.71	76	220966	20.247	ug/l	98
53) Dibromochloromethane	10.90	129	137088	19.620	ug/l	98
54) 1,2-Dibromoethane	11.01	107	120826	19.947	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	361669	101.811	ug/l	99
56) Bromoform	12.13	173	88790	19.138	ug/l	98
58) 4-Methyl-2-Pentanone	9.99	43	637100	104.906	ug/l	95
59) 2-Hexanone	10.75	43	402136	101.348	ug/l	97
61) Tetrachloroethene	10.63	164	152242	20.319	ug/l	96
62) Toluene	10.16	91	611841	20.313	ug/l	99
64) Chlorobenzene	11.44	112	366253	19.969	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	134410	19.958	ug/l	100
66) Ethyl Benzene	11.51	91	627706	19.937	ug/l	100
67) m/p-Xylenes	11.62	106	484417	40.865	ug/l	99
68) o-Xylene	11.95	106	232535	20.236	ug/l	99
69) Styrene	11.96	104	367647	20.205	ug/l	99
70) Isopropylbenzene	12.25	105	613108	20.329	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	151299	20.325	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	127642m	22.583	ug/l	
73) Bromobenzene	12.53	156	149920	19.716	ug/l	99
74) n-propylbenzene	12.59	91	719170	20.025	ug/l	100
75) 2-Chlorotoluene	12.67	91	431404	20.513	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	516837	20.231	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	36876	18.334	ug/l	99
78) 4-Chlorotoluene	12.77	91	427800	20.329	ug/l	100
79) tert-butylbenzene	12.99	119	444886	19.873	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	519755	20.442	ug/l	99
81) sec-Butylbenzene	13.17	105	609283	19.845	ug/l	99
82) p-Isopropyltoluene	13.29	119	518664	19.784	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	268935	20.052	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	249435	19.479	ug/l	100
85) n-Butylbenzene	13.62	91	435345	19.054	ug/l	98
86) Hexachloroethane	13.87	117	87151	17.781	ug/l	98
87) 1,2-Dichlorobenzene	13.65	146	260731	20.045	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	21932	20.364	ug/l	99
89) 1,2,4-Trichlorobenzene	14.91	180	124937	18.907	ug/l	99
90) Hexachlorobutadiene	15.01	225	89520	18.646	ug/l	99
91) Naphthalene	15.13	128	250823	20.880	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	127186	19.490	ug/l	97

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

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