

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070319\
 Data File : VN056583.D
 Acq On : 3 Jul 2019 12:38
 Operator : JC/SP
 Sample : VN0703WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0703WBS01

Manual Integrations
 APPROVED

MMDadoda
 7/8/2019 10:05:09 AM

Quant Time: Jul 03 22:27:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N070319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 03 11:05:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	50177	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	278037	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	239506	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	103066	29.80	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.33%
60) 4-Bromofluorobenzene	12.40	95	108626	29.52	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.40%
63) Toluene-d8	10.09	98	338814	30.44	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.47%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	49556	19.694	ug/l 100
3) Chloromethane	2.06	50	71387	19.547	ug/l 99
4) Vinyl Chloride	2.18	62	67501	19.638	ug/l 99
5) Bromomethane	2.53	94	42342m	23.088	ug/l
6) Chloroethane	2.68	64	36794	19.330	ug/l 95
7) Trichlorofluoromethane	3.00	101	86403	19.584	ug/l 98
8) Diethyl Ether	3.41	74	37028	19.785	ug/l 96
9) 1,1,2-Trichlorotrifluoroet	3.76	101	55304	19.783	ug/l 95
10) 1,1-Dichloroethene	3.73	96	53398	19.469	ug/l 97
11) Methyl Iodide	3.95	142	71551	18.242	ug/l 98
12) Methyl Acetate	4.33	43	68346	18.477	ug/l 99
13) Acrolein	3.61	56	31960	88.494	ug/l 99
14) Acrylonitrile	4.99	53	163299	100.544	ug/l 99
15) Acetone	3.82	58	44425	98.033	ug/l 89
16) Carbon Disulfide	4.05	76	121560	18.432	ug/l 98
17) Allyl chloride	4.32	41	90065	18.764	ug/l 98
18) Methylene Chloride	4.55	84	64633	19.930	ug/l 94
19) trans-1,2-Dichloroethene	5.04	96	56654	19.044	ug/l 94
20) Diisopropyl ether	5.95	45	194648	19.629	ug/l 95
21) 1,1-Dichloroethane	5.85	63	110289	19.716	ug/l 98
22) cis-1,2-Dichloroethene	6.83	96	68414	19.556	ug/l 94
23) tert-Butyl Alcohol	4.79	59	62057	102.142	ug/l # 100
24) Methyl tert-Butyl Ether	5.04	73	178448	19.670	ug/l 99
25) Chloroform	7.37	83	109047	19.888	ug/l 97
26) Cyclohexane	7.65	56	100645	19.533	ug/l # 94
29) 1,1-Dichloropropene	7.79	75	81167	19.769	ug/l 96
30) 2-Butanone	6.84	43	220938	97.069	ug/l 98
31) 2,2-Dichloropropane	6.82	77	72922	18.472	ug/l 95
32) 1,1,1-Trichloroethane	7.57	97	83868	19.162	ug/l 98
33) Carbon Tetrachloride	7.77	117	70834	19.091	ug/l 99
34) Benzene	8.04	78	255880	19.931	ug/l 99
35) Methacrylonitrile	7.18	41	40538	20.055	ug/l 95
36) 1,2-Dichloroethane	8.13	62	80925	19.393	ug/l 97
37) Trichloroethene	8.84	130	64901	19.383	ug/l 96
38) Methylcyclohexane	9.08	83	98997	19.240	ug/l 98
39) 1,2-Dichloropropane	9.12	63	68543	19.833	ug/l 100
40) Dibromomethane	9.21	93	41607	19.476	ug/l 93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	75181	18.988	ug/l	99
42) Vinyl Acetate	5.90	43	803007	99.083	ug/l	98
43) Ethyl Acetate	6.93	43	88780	20.164	ug/l	93
44) Isopropyl Acetate	8.17	43	134934	19.643	ug/l	100
45) 1,4-Dioxane	9.21	88	27344	406.815	ug/l	87
46) Methyl methacrylate	9.20	41	65218	19.322	ug/l	96
47) n-amyl Acetate	12.07	43	109855	19.240	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	77890	18.355	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	92572	18.913	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	62594	19.889	ug/l	97
51) Ethyl methacrylate	10.43	69	95681	19.303	ug/l	95
52) 1,3-Dichloropropane	10.71	76	106322	19.881	ug/l	99
53) Dibromochloromethane	10.90	129	57264	18.564	ug/l	99
54) 1,2-Dibromoethane	11.01	107	63617	19.400	ug/l	100
55) 2-Chloroethyl vinyl ether	9.70	63	237654	94.090	ug/l	98
56) Bromoform	12.13	173	39288	17.528	ug/l #	99
58) 4-Methyl-2-Pentanone	9.99	43	438949	101.933	ug/l	97
59) 2-Hexanone	10.75	43	314248	98.342	ug/l	98
61) Tetrachloroethene	10.63	164	60790	20.222	ug/l	98
62) Toluene	10.16	91	267929	20.044	ug/l	99
64) Chlorobenzene	11.43	112	160058	19.875	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	56907	19.621	ug/l	99
66) Ethyl Benzene	11.51	91	287667	19.848	ug/l	99
67) m/p-Xylenes	11.62	106	213729	39.959	ug/l	94
68) o-Xylene	11.95	106	106663	20.165	ug/l	97
69) Styrene	11.96	104	170814	19.409	ug/l	98
70) Isopropylbenzene	12.25	105	279526	20.254	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.50	83	90885	19.919	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	79797m	20.796	ug/l	
73) Bromobenzene	12.53	156	69270	19.461	ug/l	90
74) n-propylbenzene	12.59	91	305603	19.517	ug/l	98
75) 2-Chlorotoluene	12.67	91	184132	19.666	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	232563	19.900	ug/l	97
77) t-1,4-Dichloro-2-butene	12.30	75	21143	17.203	ug/l	89
78) 4-Chlorotoluene	12.77	91	176942	19.432	ug/l	97
79) tert-butylbenzene	12.99	119	197576	19.787	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	227010	19.667	ug/l	99
81) sec-Butylbenzene	13.17	105	261507	19.750	ug/l	99
82) p-Isopropyltoluene	13.29	119	234132	19.667	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	112711	19.068	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	106730	18.718	ug/l	99
85) n-Butylbenzene	13.61	91	183732	18.365	ug/l	98
86) Hexachloroethane	13.87	117	33104	18.442	ug/l	95
87) 1,2-Dichlorobenzene	13.65	146	115259	19.201	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	14810	18.114	ug/l	92
89) 1,2,4-Trichlorobenzene	14.91	180	54946	16.561	ug/l	97
90) Hexachlorobutadiene	15.01	225	38285	18.573	ug/l	99
91) Naphthalene	15.13	128	155226	16.671	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	61263	17.589	ug/l	98

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

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