

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN053019\
 Data File : VN055900.D
 Acq On : 30 May 2019 15:22
 Operator : JC/SP
 Sample : VN0530WBS02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0530WBS02

Manual Integrations
 APPROVED

MMDadoda
 5/31/2019 9:38:35 AM

Quant Time: May 31 05:10:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 23 05:54:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	48630	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	269724	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	234592	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	98103	30.86	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.87%
60) 4-Bromofluorobenzene	12.40	95	105881	29.01	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.70%
63) Toluene-d8	10.09	98	321135	29.95	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.83%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	41740	19.576	ug/l 96
3) Chloromethane	2.06	50	58596	19.321	ug/l 99
4) Vinyl Chloride	2.18	62	62229	20.104	ug/l 99
5) Bromomethane	2.54	94	43342m	23.916	ug/l
6) Chloroethane	2.69	64	38002	21.016	ug/l 98
7) Trichlorofluoromethane	3.00	101	82521	21.250	ug/l 99
8) Diethyl Ether	3.40	74	36754	21.530	ug/l 92
9) 1,1,2-Trichlorotrifluoroet	3.74	101	53098	21.640	ug/l 99
10) 1,1-Dichloroethene	3.72	96	51701	20.142	ug/l 98
11) Methyl Iodide	3.94	142	72850	19.895	ug/l 98
12) Methyl Acetate	4.33	43	63491	20.225	ug/l 98
13) Acrolein	3.60	56	37345	85.614	ug/l 99
14) Acrylonitrile	4.99	53	137794	96.275	ug/l 100
15) Acetone	3.82	58	47450	106.749	ug/l 99
16) Carbon Disulfide	4.04	76	123740	16.814	ug/l 99
17) Allyl chloride	4.31	41	85547	18.505	ug/l 97
18) Methylene Chloride	4.54	84	60847	20.698	ug/l 98
19) trans-1,2-Dichloroethene	5.03	96	55548	20.117	ug/l 99
20) Diisopropyl ether	5.95	45	173993	19.401	ug/l 99
21) 1,1-Dichloroethane	5.84	63	100261	19.781	ug/l 100
22) cis-1,2-Dichloroethene	6.82	96	65544	20.353	ug/l 96
23) tert-Butyl Alcohol	4.81	59	57199m	90.998	ug/l
24) Methyl tert-Butyl Ether	5.05	73	174728	20.062	ug/l 100
25) Chloroform	7.37	83	101277	20.231	ug/l 99
26) Cyclohexane	7.65	56	93171	19.926	ug/l # 97
29) 1,1-Dichloropropene	7.79	75	75796	20.073	ug/l 98
30) 2-Butanone	6.84	43	198490	98.625	ug/l 100
31) 2,2-Dichloropropane	6.82	77	83053	18.902	ug/l 100
32) 1,1,1-Trichloroethane	7.57	97	85696	19.148	ug/l 100
33) Carbon Tetrachloride	7.77	117	72091	18.007	ug/l 98
34) Benzene	8.04	78	236106	20.254	ug/l 100
35) Methacrylonitrile	7.17	41	33623	18.100	ug/l 97
36) 1,2-Dichloroethane	8.12	62	79462	20.859	ug/l 99
37) Trichloroethene	8.83	130	66093	20.320	ug/l 100
38) Methylcyclohexane	9.08	83	96425	20.156	ug/l 99
39) 1,2-Dichloropropane	9.12	63	61509	19.627	ug/l 96
40) Dibromomethane	9.21	93	40131	19.831	ug/l 95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.40	83	75665	18.244	ug/l	99
42) Vinyl Acetate	5.89	43	730902	93.539	ug/l	100
43) Ethyl Acetate	6.93	43	67641	17.099	ug/l #	100
44) Isopropyl Acetate	8.17	43	119062	18.175	ug/l #	86
45) 1,4-Dioxane	9.20	88	23811	386.368	ug/l	98
46) Methyl methacrylate	9.20	41	55938	18.302	ug/l	98
47) n-amyl Acetate	12.07	43	97513	17.997	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	78101	17.059	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	91680	18.295	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	58071	19.712	ug/l	98
51) Ethyl methacrylate	10.43	69	87556	18.439	ug/l	99
52) 1,3-Dichloropropane	10.71	76	95924	19.754	ug/l	99
53) Dibromochloromethane	10.90	129	58569	16.829	ug/l	97
54) 1,2-Dibromoethane	11.00	107	60941	19.991	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	163590	88.544	ug/l	100
56) Bromoform	12.13	173	40135	14.059	ug/l	98
58) 4-Methyl-2-Pentanone	9.99	43	367339	94.588	ug/l	100
59) 2-Hexanone	10.75	43	261060	94.028	ug/l	99
61) Tetrachloroethene	10.63	164	65668	20.679	ug/l	98
62) Toluene	10.15	91	259490	20.570	ug/l	100
64) Chlorobenzene	11.43	112	155859	20.367	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	57349	18.600	ug/l	99
66) Ethyl Benzene	11.51	91	277754	20.151	ug/l	99
67) m/p-Xylenes	11.62	106	215051	41.070	ug/l	98
68) o-Xylene	11.95	106	104261	20.122	ug/l	100
69) Styrene	11.96	104	166623	19.491	ug/l	99
70) Isopropylbenzene	12.25	105	277223	20.448	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	82018	19.658	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	72018m	20.056	ug/l	
73) Bromobenzene	12.53	156	70140	19.556	ug/l	99
74) n-propylbenzene	12.59	91	297369	20.338	ug/l	100
75) 2-Chlorotoluene	12.67	91	184794	20.690	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	233029	20.795	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	20605	14.446	ug/l	87
78) 4-Chlorotoluene	12.77	91	169967	20.079	ug/l	100
79) tert-butylbenzene	12.99	119	204710	20.779	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	225384	20.260	ug/l	99
81) sec-Butylbenzene	13.17	105	262294	20.955	ug/l	99
82) p-Isopropyltoluene	13.29	119	237252	20.595	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	112664	20.039	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	103807	19.387	ug/l	100
85) n-Butylbenzene	13.61	91	173419	19.351	ug/l	99
86) Hexachloroethane	13.87	117	36952	16.309	ug/l	88
87) 1,2-Dichlorobenzene	13.65	146	114525	20.229	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	12682	16.037	ug/l	97
89) 1,2,4-Trichlorobenzene	14.91	180	48862	15.989	ug/l	99
90) Hexachlorobutadiene	15.01	225	43875	19.242	ug/l	98
91) Naphthalene	15.13	128	126779	15.183	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	54440	17.045	ug/l	99

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

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