

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092419\
 Data File : VN058346.D
 Acq On : 24 Sep 2019 15:24
 Operator : JC/SP
 Sample : VN0924WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0924WBS01

Manual Integrations
 APPROVED

MMDadoda
 9/25/2019 8:24:09 AM

Quant Time: Sep 25 02:01:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092419W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 25 01:36:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	79809	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	470438	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	421282	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	217174	30.78	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.60%
60) 4-Bromofluorobenzene	12.41	95	211675	29.04	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.80%
63) Toluene-d8	10.08	98	601156	29.90	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.67%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	99793	20.793	ug/l 99
3) Chloromethane	2.04	50	114573	20.675	ug/l 100
4) Vinyl Chloride	2.17	62	114265	20.664	ug/l 97
5) Bromomethane	2.55	94	58801	19.584	ug/l 98
6) Chloroethane	2.69	64	67440	20.637	ug/l 96
7) Trichlorofluoromethane	3.00	101	136874	21.023	ug/l 100
8) Diethyl Ether	3.39	74	60373	20.858	ug/l 93
9) 1,1,2-Trichlorotrifluoroet	3.74	101	94343	21.050	ug/l 89
10) 1,1-Dichloroethene	3.72	96	90088	20.562	ug/l 93
11) Methyl Iodide	3.93	142	90841	20.223	ug/l 99
12) Methyl Acetate	4.30	43	115577	19.806	ug/l 99
13) Acrolein	3.59	56	17569	105.881	ug/l 99
14) Acrylonitrile	4.96	53	238903	99.153	ug/l 98
15) Acetone	3.80	58	75260	112.652	ug/l 98
16) Carbon Disulfide	4.03	76	236238	19.403	ug/l 100
17) Allyl chloride	4.30	41	164853	20.144	ug/l 94
18) Methylene Chloride	4.53	84	108806	21.052	ug/l 93
19) trans-1,2-Dichloroethene	5.01	96	100890	20.540	ug/l 91
20) Diisopropyl ether	5.93	45	353584	20.277	ug/l 98
21) 1,1-Dichloroethane	5.82	63	201930	20.694	ug/l 99
22) cis-1,2-Dichloroethene	6.81	96	118921	20.844	ug/l 98
23) tert-Butyl Alcohol	4.76	59	86863	97.658	ug/l # 100
24) Methyl tert-Butyl Ether	5.02	73	323199	20.551	ug/l 100
25) Chloroform	7.36	83	203821	20.628	ug/l 99
26) Cyclohexane	7.64	56	180964	19.842	ug/l 100
29) 1,1-Dichloropropene	7.78	75	155474	20.247	ug/l 99
30) 2-Butanone	6.81	43	356570	102.264	ug/l 100
31) 2,2-Dichloropropane	6.80	77	160302	20.277	ug/l 99
32) 1,1,1-Trichloroethane	7.55	97	166983	20.161	ug/l 99
33) Carbon Tetrachloride	7.76	117	139673	19.849	ug/l 99
34) Benzene	8.02	78	441231	20.255	ug/l 97
35) Methacrylonitrile	7.15	41	48373	16.129	ug/l 89
36) 1,2-Dichloroethane	8.11	62	171331	20.078	ug/l 100
37) Trichloroethene	8.82	130	109478	20.075	ug/l 100
38) Methylcyclohexane	9.07	83	183100	19.719	ug/l 98
39) 1,2-Dichloropropane	9.11	63	122018	20.535	ug/l 99
40) Dibromomethane	9.20	93	77085	20.555	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.39	83	147875	19.949	ug/l	97
42) Vinyl Acetate	5.87	43	1454429	109.248	ug/l	100
43) Ethyl Acetate	6.91	43	143286	20.697	ug/l #	85
44) Isopropyl Acetate	8.15	43	238805	19.269	ug/l #	85
45) 1,4-Dioxane	9.19	88	40458	386.974	ug/l	97
46) Methyl methacrylate	9.19	41	112874	19.218	ug/l	97
47) n-amyl Acetate	12.08	43	200324	18.570	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	159017	19.633	ug/l	100
49) cis-1,3-Dichloropropene	9.83	75	179881	19.947	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	106258	20.274	ug/l	98
51) Ethyl methacrylate	10.43	69	162367	19.580	ug/l	98
52) 1,3-Dichloropropane	10.71	76	189234	20.329	ug/l	98
53) Dibromochloromethane	10.90	129	99980	18.988	ug/l	98
54) 1,2-Dibromoethane	11.00	107	108030	20.198	ug/l	96
55) 2-Chloroethyl vinyl ether	9.69	63	394711	112.412	ug/l	99
56) Bromoform	12.13	173	62646	18.862	ug/l	100
58) 4-Methyl-2-Pentanone	9.98	43	717850	108.749	ug/l	100
59) 2-Hexanone	10.75	43	523488	104.902	ug/l	99
61) Tetrachloroethene	10.63	164	89411	20.258	ug/l	99
62) Toluene	10.15	91	479715	20.792	ug/l	100
64) Chlorobenzene	11.44	112	288160	20.324	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	97640	19.644	ug/l	99
66) Ethyl Benzene	11.51	91	538781	21.415	ug/l	99
67) m/p-Xylenes	11.62	106	388774	40.250	ug/l	99
68) o-Xylene	11.95	106	186334	19.839	ug/l	96
69) Styrene	11.97	104	317119	20.191	ug/l	99
70) Isopropylbenzene	12.26	105	522819	21.481	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	157577	20.370	ug/l	97
72) 1,2,3-Trichloropropane	12.56	75	134072m	20.153	ug/l	
73) Bromobenzene	12.53	156	116484	19.759	ug/l	96
74) n-propylbenzene	12.60	91	616421	21.969	ug/l	99
75) 2-Chlorotoluene	12.68	91	357271	20.355	ug/l	99
76) 1,3,5-Trimethylbenzene	12.74	105	441969	21.089	ug/l	100
77) t-1,4-Dichloro-2-butene	12.31	75	37712	17.378	ug/l	98
78) 4-Chlorotoluene	12.78	91	369098	20.518	ug/l	99
79) tert-butylbenzene	13.00	119	372150	20.510	ug/l	100
80) 1,2,4-Trimethylbenzene	13.05	105	436290	20.856	ug/l	98
81) sec-Butylbenzene	13.18	105	505415	21.237	ug/l	99
82) p-Isopropyltoluene	13.30	119	450948	21.041	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	215727	19.834	ug/l	100
84) 1,4-Dichlorobenzene	13.37	146	216633	20.012	ug/l	99
85) n-Butylbenzene	13.62	91	413483	20.765	ug/l	99
86) Hexachloroethane	13.88	117	66324	19.159	ug/l	99
87) 1,2-Dichlorobenzene	13.66	146	210112	19.783	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.28	75	26880	17.804	ug/l	98
89) 1,2,4-Trichlorobenzene	14.92	180	132756	19.133	ug/l	99
90) Hexachlorobutadiene	15.02	225	66521	19.814	ug/l	95
91) Naphthalene	15.14	128	421670	22.129	ug/l	100
92) 1,2,3-Trichlorobenzene	15.30	180	119443	17.923	ug/l	99

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

