

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092419\
 Data File : VN058347.D
 Acq On : 24 Sep 2019 15:46
 Operator : JC/SP
 Sample : VN0924WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0924WBSD01

Manual Integrations
 APPROVED

MMDadoda
 9/25/2019 8:24:13 AM

Quant Time: Sep 25 02:02:47 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	79534	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	476007	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	417909	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	215482	30.65	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.17%
60) 4-Bromofluorobenzene	12.41	95	211465	29.24	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.47%
63) Toluene-d8	10.08	98	610691	30.62	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.07%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	99681	20.841	ug/l 100
3) Chloromethane	2.04	50	115668	20.945	ug/l 98
4) Vinyl Chloride	2.17	62	114762	20.825	ug/l 95
5) Bromomethane	2.55	94	60890	20.350	ug/l 100
6) Chloroethane	2.69	64	70709	21.712	ug/l 99
7) Trichlorofluoromethane	3.00	101	139003	21.423	ug/l 99
8) Diethyl Ether	3.39	74	58718	20.357	ug/l 96
9) 1,1,2-Trichlorotrifluoroet	3.74	101	94304	21.114	ug/l 97
10) 1,1-Dichloroethene	3.72	96	90825	20.802	ug/l 95
11) Methyl Iodide	3.93	142	95265	21.281	ug/l 97
12) Methyl Acetate	4.30	43	120584	20.736	ug/l 96
13) Acrolein	3.59	56	20910	126.452	ug/l 92
14) Acrylonitrile	4.96	53	247112	102.915	ug/l 99
15) Acetone	3.80	58	71149	106.867	ug/l 97
16) Carbon Disulfide	4.03	76	237224	19.551	ug/l 100
17) Allyl chloride	4.30	41	165203	20.257	ug/l 92
18) Methylene Chloride	4.53	84	107458	20.863	ug/l 96
19) trans-1,2-Dichloroethene	5.02	96	97892	19.999	ug/l 99
20) Diisopropyl ether	5.93	45	358156	20.610	ug/l 98
21) 1,1-Dichloroethane	5.83	63	204173	20.996	ug/l 99
22) cis-1,2-Dichloroethene	6.81	96	117450	20.657	ug/l 99
23) tert-Butyl Alcohol	4.76	59	86614	97.715	ug/l # 100
24) Methyl tert-Butyl Ether	5.02	73	316844	20.217	ug/l 100
25) Chloroform	7.36	83	202776	20.593	ug/l 100
26) Cyclohexane	7.64	56	182013	20.026	ug/l # 99
29) 1,1-Dichloropropene	7.78	75	153655	19.776	ug/l 98
30) 2-Butanone	6.82	43	353014	100.059	ug/l 99
31) 2,2-Dichloropropane	6.81	77	161621	20.204	ug/l 99
32) 1,1,1-Trichloroethane	7.55	97	167811	20.024	ug/l 99
33) Carbon Tetrachloride	7.76	117	140943	19.795	ug/l 99
34) Benzene	8.03	78	445722	20.222	ug/l 98
35) Methacrylonitrile	7.15	41	59135	19.487	ug/l 92
36) 1,2-Dichloroethane	8.11	62	176028	20.387	ug/l 100
37) Trichloroethene	8.82	130	108213	19.610	ug/l 98
38) Methylcyclohexane	9.07	83	184115	19.596	ug/l 97
39) 1,2-Dichloropropane	9.11	63	121071	20.137	ug/l 96
40) Dibromomethane	9.20	93	78140	20.592	ug/l 96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	145644	19.418	ug/l	97
42) Vinyl Acetate	5.87	43	1470619	109.172	ug/l	100
43) Ethyl Acetate	6.91	43	145032	20.704	ug/l	99
44) Isopropyl Acetate	8.15	43	242111	19.307	ug/l	98
45) 1,4-Dioxane	9.19	88	42130	398.252	ug/l	99
46) Methyl methacrylate	9.19	41	115255	19.394	ug/l	96
47) n-amyl Acetate	12.08	43	206052	18.878	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	154785	18.887	ug/l	99
49) cis-1,3-Dichloropropene	9.83	75	173383	19.001	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	104620	19.728	ug/l	96
51) Ethyl methacrylate	10.43	69	159877	19.054	ug/l	98
52) 1,3-Dichloropropane	10.71	76	190115	20.185	ug/l	99
53) Dibromochloromethane	10.90	129	99224	18.624	ug/l	99
54) 1,2-Dibromoethane	11.00	107	108457	20.041	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	356581	100.365	ug/l	99
56) Bromoform	12.13	173	60662	18.051	ug/l	100
58) 4-Methyl-2-Pentanone	9.98	43	720877	110.089	ug/l	99
59) 2-Hexanone	10.75	43	520406	105.126	ug/l	100
61) Tetrachloroethene	10.63	164	89693	20.486	ug/l	98
62) Toluene	10.15	91	477640	20.869	ug/l	100
64) Chlorobenzene	11.43	112	285384	20.290	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	99538	20.188	ug/l	98
66) Ethyl Benzene	11.51	91	532000	21.317	ug/l	100
67) m/p-Xylenes	11.62	106	388636	40.561	ug/l	100
68) o-Xylene	11.95	106	187009	20.072	ug/l	98
69) Styrene	11.97	104	310093	19.903	ug/l	98
70) Isopropylbenzene	12.25	105	506742	20.988	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	153392	19.989	ug/l	100
72) 1,2,3-Trichloropropane	12.56	75	137901m	20.896	ug/l	
73) Bromobenzene	12.53	156	116539	19.928	ug/l	98
74) n-propylbenzene	12.60	91	604263	21.709	ug/l	99
75) 2-Chlorotoluene	12.68	91	349944	20.099	ug/l	100
76) 1,3,5-Trimethylbenzene	12.74	105	429973	20.682	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	37801	17.560	ug/l	95
78) 4-Chlorotoluene	12.78	91	355548	19.924	ug/l	99
79) tert-butylbenzene	13.00	119	371317	20.629	ug/l	98
80) 1,2,4-Trimethylbenzene	13.05	105	425647	20.512	ug/l	98
81) sec-Butylbenzene	13.18	105	497913	21.090	ug/l	100
82) p-Isopropyltoluene	13.30	119	445370	20.948	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	210514	19.511	ug/l	99
84) 1,4-Dichlorobenzene	13.37	146	210411	19.594	ug/l	99
85) n-Butylbenzene	13.62	91	402777	20.391	ug/l	99
86) Hexachloroethane	13.88	117	65864	19.180	ug/l	99
87) 1,2-Dichlorobenzene	13.66	146	208356	19.776	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.28	75	28359	18.935	ug/l	99
89) 1,2,4-Trichlorobenzene	14.92	180	128571	18.679	ug/l	99
90) Hexachlorobutadiene	15.02	225	64574	19.389	ug/l	98
91) Naphthalene	15.14	128	377402	19.966	ug/l	100
92) 1,2,3-Trichlorobenzene	15.30	180	119065	18.011	ug/l	99

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

