

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090319\
 Data File : VN057663.D
 Acq On : 3 Sep 2019 15:14
 Operator : JC/SP
 Sample : VSTDICCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 9/5/2019 3:20:54 PM

Quant Time: Sep 04 01:53:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N090319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 04 01:42:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	57304	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	353932	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	304724	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	187870	39.73	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	132.43%
60) 4-Bromofluorobenzene	12.40	95	144637	30.70	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	102.33%
63) Toluene-d8	10.08	98	451766	31.69	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	105.63%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	78496	24.599	ug/l 100
3) Chloromethane	2.05	50	86041	28.724	ug/l 100
4) Vinyl Chloride	2.18	62	70561	17.651	ug/l 100
5) Bromomethane	2.54	94	46937m	13.460	ug/l
6) Chloroethane	2.69	64	52984m	19.443	ug/l
7) Trichlorofluoromethane	3.01	101	130540	15.353	ug/l 100
8) Diethyl Ether	3.40	74	45111	16.340	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.75	101	69190	13.935	ug/l 100
10) 1,1-Dichloroethene	3.73	96	63065	13.701	ug/l 100
11) Methyl Iodide	3.94	142	83081	10.754	ug/l 100
12) Methyl Acetate	4.31	43	95047	30.361	ug/l 100
13) Acrolein	3.59	56	28075	84.099	ug/l 100
14) Acrylonitrile	4.97	53	171146	143.844	ug/l 100
15) Acetone	3.80	58	46437	86.107	ug/l 98
16) Carbon Disulfide	4.04	76	150770	26.393	ug/l 100
17) Allyl chloride	4.31	41	125594	30.529	ug/l 100
18) Methylene Chloride	4.54	84	77622	25.203	ug/l 100
19) trans-1,2-Dichloroethene	5.02	96	66750	22.458	ug/l 100
20) Diisopropyl ether	5.93	45	298092	30.436	ug/l 100
21) 1,1-Dichloroethane	5.83	63	153003	26.110	ug/l 100
22) cis-1,2-Dichloroethene	6.82	96	83694	21.322	ug/l 100
23) tert-Butyl Alcohol	4.75	59	59449	137.473	ug/l # 100
24) Methyl tert-Butyl Ether	5.02	73	251482	25.357	ug/l 100
25) Chloroform	7.36	83	157632	22.913	ug/l 100
26) Cyclohexane	7.64	56	128964	26.370	ug/l # 100
29) 1,1-Dichloropropene	7.78	75	110194	22.401	ug/l 100
30) 2-Butanone	6.81	43	255402	147.484	ug/l 100
31) 2,2-Dichloropropane	6.81	77	131075	22.244	ug/l 100
32) 1,1,1-Trichloroethane	7.56	97	132011	20.454	ug/l 100
33) Carbon Tetrachloride	7.76	117	105108	19.356	ug/l 100
34) Benzene	8.03	78	316345	21.674	ug/l 100
35) Methacrylonitrile	7.15	41	42441	25.617	ug/l 100
36) 1,2-Dichloroethane	8.11	62	137086	24.656	ug/l # 100
37) Trichloroethene	8.83	130	73801	18.159	ug/l 100
38) Methylcyclohexane	9.07	83	119482	20.486	ug/l 100
39) 1,2-Dichloropropane	9.11	63	86647	23.591	ug/l 100
40) Dibromomethane	9.20	93	54728	20.247	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	115121	20.601	ug/l	100
42) Vinyl Acetate	5.87	43	1186359	152.687	ug/l	100
43) Ethyl Acetate	6.91	43	100473	29.874	ug/l	100
44) Isopropyl Acetate	8.15	43	196192	29.271	ug/l	100
45) 1,4-Dioxane	9.19	88	25629	475.324	ug/l	100
46) Methyl methacrylate	9.19	41	92342	29.712	ug/l	100
47) n-amyl Acetate	12.07	43	136839	25.630	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	120425	21.331	ug/l	100
49) cis-1,3-Dichloropropene	9.83	75	130749	21.468	ug/l	100
50) 1,1,2-Trichloroethane	10.56	97	74378	19.265	ug/l	100
51) Ethyl methacrylate	10.43	69	114891	22.008	ug/l	100
52) 1,3-Dichloropropane	10.70	76	132984	21.643	ug/l	100
53) Dibromochloromethane	10.90	129	71570	16.795	ug/l	100
54) 1,2-Dibromoethane	11.00	107	72363	18.248	ug/l	100
55) 2-Chloroethyl vinyl ether	9.69	63	169405	125.618	ug/l	100
56) Bromoform	12.13	173	41980	15.216	ug/l	100
58) 4-Methyl-2-Pentanone	9.98	43	551543	157.915	ug/l	100
59) 2-Hexanone	10.75	43	358012	148.347	ug/l	100
61) Tetrachloroethene	10.63	164	71804	18.798	ug/l	100
62) Toluene	10.15	91	336583	21.682	ug/l	100
64) Chlorobenzene	11.43	112	188462	19.185	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	68332	17.674	ug/l	100
66) Ethyl Benzene	11.51	91	374496	22.320	ug/l	100
67) m/p-Xylenes	11.62	106	252630	38.476	ug/l	100
68) o-Xylene	11.95	106	125982	19.067	ug/l	100
69) Styrene	11.96	104	192768	18.515	ug/l	100
70) Isopropylbenzene	12.25	105	353626	21.297	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	93166	20.751	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	83745m	21.722	ug/l	100
73) Bromobenzene	12.53	156	68544	16.506	ug/l	100
74) n-propylbenzene	12.59	91	369219	21.462	ug/l	100
75) 2-Chlorotoluene	12.68	91	232060	20.717	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	276922	19.877	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	22336	18.266	ug/l	100
78) 4-Chlorotoluene	12.77	91	205560	19.375	ug/l	100
79) tert-butylbenzene	12.99	119	239874	18.947	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	260015	19.926	ug/l	100
81) sec-Butylbenzene	13.17	105	305287	19.826	ug/l	100
82) p-Isopropyltoluene	13.29	119	252494	18.659	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	96168	14.492	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	88576	13.971	ug/l	100
85) n-Butylbenzene	13.62	91	225650	20.563	ug/l	100
86) Hexachloroethane	13.88	117	45714	17.411	ug/l	100
87) 1,2-Dichlorobenzene	13.66	146	90854	14.417	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.27	75	9605	14.935	ug/l	100
89) 1,2,4-Trichlorobenzene	14.91	180	18572	8.067	ug/l	100
90) Hexachlorobutadiene	15.01	225	38751	18.506	ug/l	100
91) Naphthalene	15.13	128	45281	7.214	ug/l	100
92) 1,2,3-Trichlorobenzene	15.30	180	18304	8.052	ug/l	100

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

