

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101119\
 Data File : VN058668.D
 Acq On : 10 Oct 2019 16:44
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 10/11/2019 3:25:51 PM

Quant Time: Oct 11 04:19:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 11 04:10:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.17	128	71635	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	403969	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	362123	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	189310	30.13	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.43%
60) 4-Bromofluorobenzene	12.40	95	180391	28.64	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.47%
63) Toluene-d8	10.08	98	518231	29.95	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.83%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	20578	4.857 ug/l	99
3) Chloromethane	2.04	50	30278	5.982 ug/l	95
4) Vinyl Chloride	2.17	62	29998	5.905 ug/l	99
5) Bromomethane	2.54	94	19481	6.726 ug/l	94
6) Chloroethane	2.68	64	19860	6.553 ug/l	99
7) Trichlorofluoromethane	3.00	101	37102	6.180 ug/l	99
8) Diethyl Ether	3.39	74	14214	5.449 ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.73	101	21850	5.454 ug/l	84
10) 1,1-Dichloroethene	3.71	96	22283	5.679 ug/l	96
11) Methyl Iodide	3.93	142	27528	6.306 ug/l	96
12) Methyl Acetate	4.30	43	34896	6.416 ug/l	97
13) Acrolein	3.58	56	20333	82.495 ug/l	97
14) Acrylonitrile	4.96	53	63269	28.683 ug/l #	87
15) Acetone	3.80	58	19502	31.935 ug/l	83
16) Carbon Disulfide	4.03	76	64268	5.759 ug/l	99
17) Allyl chloride	4.30	41	41103	5.528 ug/l	95
18) Methylene Chloride	4.53	84	26801	5.771 ug/l	93
19) trans-1,2-Dichloroethene	5.02	96	23186	5.288 ug/l	86
20) Diisopropyl ether	5.93	45	81391m	5.180 ug/l	
21) 1,1-Dichloroethane	5.82	63	47148	5.381 ug/l	96
22) cis-1,2-Dichloroethene	6.81	96	27298	5.338 ug/l	98
23) tert-Butyl Alcohol	4.75	59	26516m	31.707 ug/l	
24) Methyl tert-Butyl Ether	5.02	73	76102	5.361 ug/l	99
25) Chloroform	7.35	83	47130	5.318 ug/l	98
26) Cyclohexane	7.64	56	39892	4.941 ug/l	97
29) 1,1-Dichloropropene	7.78	75	34349	5.200 ug/l	99
30) 2-Butanone	6.82	43	92432	29.644 ug/l	99
31) 2,2-Dichloropropane	6.80	77	44155	6.348 ug/l	96
32) 1,1,1-Trichloroethane	7.55	97	41092	5.663 ug/l	99
33) Carbon Tetrachloride	7.75	117	34356	5.551 ug/l	94
34) Benzene	8.03	78	105006	5.568 ug/l #	73
35) Methacrylonitrile	7.16	41	14597m	5.337 ug/l	
36) 1,2-Dichloroethane	8.11	62	40196	5.446 ug/l	99
37) Trichloroethene	8.82	130	25312	5.371 ug/l	94
38) Methylcyclohexane	9.07	83	39121	4.927 ug/l	98
39) 1,2-Dichloropropane	9.11	63	28367	5.476 ug/l	100
40) Dibromomethane	9.20	93	17663	5.419 ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.39	83	34933	5.366	ug/l	97
42) Vinyl Acetate	5.87	43	332768	28.448	ug/l	99
43) Ethyl Acetate	6.91	43	38979	6.234	ug/l #	84
44) Isopropyl Acetate	8.15	43	59282	5.446	ug/l #	89
45) 1,4-Dioxane	9.19	88	9056	101.478	ug/l	96
46) Methyl methacrylate	9.19	41	26129	5.093	ug/l	96
47) n-amyl Acetate	12.07	43	46927	4.916	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	39161	5.425	ug/l	96
49) cis-1,3-Dichloropropene	9.83	75	41019	5.189	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	25063	5.483	ug/l	98
51) Ethyl methacrylate	10.43	69	34809	4.800	ug/l	96
52) 1,3-Dichloropropane	10.71	76	44993	5.548	ug/l	99
53) Dibromochloromethane	10.90	129	24848	5.302	ug/l	98
54) 1,2-Dibromoethane	11.00	107	25013	5.342	ug/l	95
55) 2-Chloroethyl vinyl ether	9.69	63	87949	27.302	ug/l	100
56) Bromoform	12.13	173	16102	5.309	ug/l	100
58) 4-Methyl-2-Pentanone	9.98	43	179527	30.512	ug/l	99
59) 2-Hexanone	10.75	43	133395	29.786	ug/l	100
61) Tetrachloroethene	10.63	164	22416	5.781	ug/l	99
62) Toluene	10.15	91	108699	5.461	ug/l	100
64) Chlorobenzene	11.43	112	65097	5.319	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	23782	5.432	ug/l	99
66) Ethyl Benzene	11.51	91	116794	5.393	ug/l	100
67) m/p-Xylenes	11.62	106	83382	10.014	ug/l	100
68) o-Xylene	11.95	106	41334	5.111	ug/l	100
69) Styrene	11.97	104	62859	4.665	ug/l	100
70) Isopropylbenzene	12.25	105	110915	5.285	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.51	83	38410	5.630	ug/l	98
72) 1,2,3-Trichloropropane	12.56	75	34759m	5.882	ug/l	
73) Bromobenzene	12.53	156	28045	5.475	ug/l	96
74) n-propylbenzene	12.59	91	128667	5.302	ug/l	98
75) 2-Chlorotoluene	12.68	91	77642	5.121	ug/l	99
76) 1,3,5-Trimethylbenzene	12.74	105	93764	5.185	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	11266	5.550	ug/l	95
78) 4-Chlorotoluene	12.78	91	77348	4.981	ug/l	97
79) tert-butylbenzene	13.00	119	79000	5.024	ug/l	99
80) 1,2,4-Trimethylbenzene	13.05	105	89827	4.990	ug/l	99
81) sec-Butylbenzene	13.18	105	106139	5.171	ug/l	99
82) p-Isopropyltoluene	13.29	119	91381	4.933	ug/l	100
83) 1,3-Dichlorobenzene	13.29	146	46583	4.939	ug/l	97
84) 1,4-Dichlorobenzene	13.37	146	46949	4.984	ug/l	99
85) n-Butylbenzene	13.62	91	80558	4.700	ug/l	99
86) Hexachloroethane	13.88	117	16774	5.378	ug/l	98
87) 1,2-Dichlorobenzene	13.66	146	47516	5.164	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.28	75	8158	5.878	ug/l	95
89) 1,2,4-Trichlorobenzene	14.92	180	28068	4.645	ug/l	98
90) Hexachlorobutadiene	15.02	225	15949	5.411	ug/l	97
91) Naphthalene	15.13	128	80584	4.790	ug/l	100
92) 1,2,3-Trichlorobenzene	15.30	180	27962	4.800	ug/l	96

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

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