

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090319\
 Data File : VN057662.D
 Acq On : 3 Sep 2019 14:44
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 9/5/2019 3:20:48 PM

Quant Time: Sep 04 01:51:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N090319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 04 01:47:16 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	64036	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	385734	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	321452	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	202291	38.28	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	127.60%
60) 4-Bromofluorobenzene	12.40	95	137907	27.75	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	92.50%
63) Toluene-d8	10.08	98	481683	32.03	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	106.77%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	21657	6.073 ug/l	97
3) Chloromethane	2.05	50	24915	7.443 ug/l	91
4) Vinyl Chloride	2.18	62	19732	4.417 ug/l	98
5) Bromomethane	2.54	94	14527m	3.728 ug/l	
6) Chloroethane	2.69	64	15030	4.936 ug/l	98
7) Trichlorofluoromethane	3.01	101	39308	4.137 ug/l	89
8) Diethyl Ether	3.40	74	12556	4.070 ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.75	101	20832	3.754 ug/l	90
10) 1,1-Dichloroethene	3.73	96	18232	3.545 ug/l	95
11) Methyl Iodide	3.95	142	22716	2.631 ug/l	98
12) Methyl Acetate	4.31	43	28363	8.108 ug/l	96
13) Acrolein	3.60	56	7979	21.389 ug/l	96
14) Acrylonitrile	4.98	53	48188	36.243 ug/l #	83
15) Acetone	3.80	58	14788	24.538 ug/l	95
16) Carbon Disulfide	4.05	76	43845	6.868 ug/l	100
17) Allyl chloride	4.31	41	37936	8.252 ug/l	98
18) Methylene Chloride	4.54	84	25351m	7.366 ug/l	
19) trans-1,2-Dichloroethene	5.02	96	19331	5.820 ug/l	96
20) Diisopropyl ether	5.94	45	82042	7.496 ug/l #	95
21) 1,1-Dichloroethane	5.83	63	44345	6.772 ug/l	97
22) cis-1,2-Dichloroethene	6.82	96	23544	5.368 ug/l	99
23) tert-Butyl Alcohol	4.76	59	16782m	34.728 ug/l	
24) Methyl tert-Butyl Ether	5.02	73	72889m	6.577 ug/l	
25) Chloroform	7.36	83	44079	5.734 ug/l	91
26) Cyclohexane	7.64	56	38046	6.962 ug/l #	100
29) 1,1-Dichloropropene	7.78	75	31268	5.832 ug/l	98
30) 2-Butanone	6.82	43	70630	37.423 ug/l #	98
31) 2,2-Dichloropropane	6.81	77	37796m	5.885 ug/l	
32) 1,1,1-Trichloroethane	7.56	97	36271	5.156 ug/l	97
33) Carbon Tetrachloride	7.76	117	29276	4.947 ug/l	98
34) Benzene	8.03	78	90380	5.682 ug/l #	63
35) Methacrylonitrile	7.16	41	9395m	5.203 ug/l	
36) 1,2-Dichloroethane	8.11	62	40368	6.662 ug/l #	100
37) Trichloroethene	8.83	130	21122	4.769 ug/l	98
38) Methylcyclohexane	9.08	83	36137	5.685 ug/l	97
39) 1,2-Dichloropropane	9.11	63	24723	6.176 ug/l	92
40) Dibromomethane	9.20	93	15824	5.372 ug/l	97

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

41) Bromodichloromethane	9.39	83	31352	5.148	ug/l #	92
42) Vinyl Acetate	5.88	43	322025	38.028	ug/l	100
43) Ethyl Acetate	6.91	43	28209	7.696	ug/l #	84
44) Isopropyl Acetate	8.16	43	53299	7.296	ug/l #	90
45) 1,4-Dioxane	9.19	88	6983	118.832	ug/l #	82
46) Methyl methacrylate	9.19	41	25268	7.460	ug/l	94
47) n-amyl Acetate	12.07	43	36499	6.273	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	30933	5.027	ug/l	97
49) cis-1,3-Dichloropropene	9.83	75	35299	5.318	ug/l	93
50) 1,1,2-Trichloroethane	10.56	97	21377	5.081	ug/l	98
51) Ethyl methacrylate	10.43	69	31328	5.506	ug/l	99
52) 1,3-Dichloropropane	10.70	76	37803	5.645	ug/l	98
53) Dibromochloromethane	10.90	129	18551	3.994	ug/l	97
54) 1,2-Dibromoethane	11.00	107	19687	4.555	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	44843	30.511	ug/l	99
56) Bromoform	12.13	173	10361	3.446	ug/l #	96
58) 4-Methyl-2-Pentanone	9.98	43	149472	40.569	ug/l	98
59) 2-Hexanone	10.75	43	102397	40.221	ug/l	100
61) Tetrachloroethene	10.63	164	20786	5.159	ug/l	95
62) Toluene	10.15	91	98266	6.001	ug/l	98
64) Chlorobenzene	11.43	112	54818	5.290	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	18770	4.602	ug/l	96
66) Ethyl Benzene	11.51	91	103655	5.856	ug/l	95
67) m/p-Xylenes	11.62	106	68586	9.902	ug/l	99
68) o-Xylene	11.95	106	34889	5.006	ug/l	98
69) Styrene	11.96	104	46878	4.268	ug/l	98
70) Isopropylbenzene	12.25	105	95208	5.436	ug/l #	51
71) 1,1,2,2-Tetrachloroethane	12.51	83	23809	5.027	ug/l	94
72) 1,2,3-Trichloropropane	12.56	75	24581m	6.044	ug/l	
73) Bromobenzene	12.53	156	18542	4.233	ug/l	98
74) n-propylbenzene	12.59	91	104579	5.763	ug/l	100
75) 2-Chlorotoluene	12.68	91	62174	5.262	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	78175	5.319	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	4880	3.783	ug/l	89
78) 4-Chlorotoluene	12.77	91	55450	4.955	ug/l	99
79) tert-butylbenzene	12.99	119	68321	5.116	ug/l	97
80) 1,2,4-Trimethylbenzene	13.04	105	69989	5.084	ug/l	97
81) sec-Butylbenzene	13.17	105	83562	5.144	ug/l	99
82) p-Isopropyltoluene	13.29	119	71418	5.003	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	22906	3.272	ug/l	97
84) 1,4-Dichlorobenzene	13.37	146	20702	3.095	ug/l	94
85) n-Butylbenzene	13.62	91	56358	4.869	ug/l	98
86) Hexachloroethane	13.88	117	11036	3.985	ug/l	98
87) 1,2-Dichlorobenzene	13.66	146	20712	3.116	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.27	75	2475	3.648	ug/l #	79
89) 1,2,4-Trichlorobenzene	14.91	180	4308	1.774	ug/l	96
90) Hexachlorobutadiene	15.01	225	9860	4.464	ug/l	95
91) Naphthalene	15.13	128	10249	1.548	ug/l #	92
92) 1,2,3-Trichlorobenzene	15.30	180	4380	1.827	ug/l	88

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

