

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072518\
 Data File : VN050039.D
 Acq On : 25 Jul 2018 9:46
 Operator : MD\SY
 Sample : VSTDICC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 7/26/2018 3:53:55 PM

Quant Time: Jul 26 15:13:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 12:20:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	143518	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	760108	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	686779	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	286406	28.89	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.30%
60) 4-Bromofluorobenzene	12.40	95	328766	31.53	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	105.10%
63) Toluene-d8	10.09	98	967265	28.72	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	95.73%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	1007373	90.23	ug/l	98
3) Chloromethane	2.06	50	1001838	93.86	ug/l	100
4) Vinyl Chloride	2.18	62	1063702	92.78	ug/l	97
5) Bromomethane	2.55	94	637453	92.74	ug/l	99
6) Chloroethane	2.69	64	611584	90.90	ug/l	99
7) Trichlorofluoromethane	3.00	101	1354601	88.94	ug/l	100
8) Diethyl Ether	3.41	74	478488	102.11	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.75	101	815154	87.70	ug/l	99
10) 1,1-Dichloroethene	3.73	96	750655	93.94	ug/l	95
11) Methyl Iodide	3.95	142	1189767	104.33	ug/l	99
12) Methyl Acetate	4.33	43	884528	96.71	ug/l	99
13) Acrolein	3.61	56	249905	517.44	ug/l	96
14) Acrylonitrile	4.99	53	1532990	527.51	ug/l	99
15) Acetone	3.82	58	382943	467.25	ug/l	100
16) Carbon Disulfide	4.05	76	2277116	94.00	ug/l	100
17) Allyl chloride	4.32	41	1243860	102.98	ug/l	99
18) Methylene Chloride	4.55	84	850957	92.99	ug/l	99
19) trans-1,2-Dichloroethene	5.04	96	812707	95.37	ug/l	97
20) Diisopropyl ether	5.96	45	2569101	99.40	ug/l	98
21) 1,1-Dichloroethane	5.85	63	1508261	93.70	ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	921561	99.64	ug/l	100
23) tert-Butyl Alcohol	4.80	59	348735	543.34	ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	2194715	103.83	ug/l	100
25) Chloroform	7.37	83	1524291	92.58	ug/l	100
26) Cyclohexane	7.65	56	1310640	103.31	ug/l	# 99
29) 1,1-Dichloropropene	7.79	75	1177833	95.21	ug/l	100
30) 2-Butanone	6.84	43	1893242	518.35	ug/l	98
31) 2,2-Dichloropropane	6.83	77	1245120	92.21	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	1327455	92.89	ug/l	99
33) Carbon Tetrachloride	7.78	117	1188833	94.16	ug/l	100
34) Benzene	8.04	78	3499171	94.60	ug/l	# 91
35) Methacrylonitrile	7.18	41	431447	108.27	ug/l	97
36) 1,2-Dichloroethane	8.13	62	1112657	91.75	ug/l	99
37) Trichloroethene	8.84	130	908427	94.41	ug/l	99
38) Methylcyclohexane	9.08	83	1290920	104.08	ug/l	98
39) 1,2-Dichloropropane	9.12	63	916447	94.28	ug/l	100
40) Dibromomethane	9.21	93	564924	95.59	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.41	83	1192439	95.30	ug/l	99
42) Vinyl Acetate	5.90	43	9209868	532.85	ug/l	100
43) Ethyl Acetate	6.93	43	802103	101.80	ug/l	93
44) Isopropyl Acetate	8.17	43	1446713	100.34	ug/l	100
45) 1,4-Dioxane	9.20	88	200695	2128.91	ug/l	98
46) Methyl methacrylate	9.20	41	742412	108.19	ug/l	99
47) n-amyl Acetate	12.07	43	1270744	123.73	ug/l	99
48) t-1,3-Dichloropropene	7.79	75	1177833	95.03	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	1414690	102.30	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	809113	95.32	ug/l	98
51) Ethyl methacrylate	10.43	69	1113260	117.72	ug/l	99
52) 1,3-Dichloropropane	10.71	76	1364545	97.87	ug/l	99
53) Dibromochloromethane	10.90	129	943319	99.40	ug/l	99
54) 1,2-Dibromoethane	11.01	107	829001	101.39	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	2544548	568.47	ug/l	100
56) Bromoform	12.13	173	686457	105.49	ug/l	100
58) 4-Methyl-2-Pentanone	9.99	43	4147826	508.60	ug/l	99
59) 2-Hexanone	10.75	43	2891076	531.70	ug/l	99
61) Tetrachloroethene	10.63	164	857994	86.22	ug/l	96
62) Toluene	10.16	91	3804838	93.28	ug/l	100
64) Chlorobenzene	11.44	112	2347132	96.80	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	898852	93.78	ug/l	99
66) Ethyl Benzene	11.51	91	4184044	103.58	ug/l	99
67) m/p-Xylenes	11.62	106	3177671	198.01	ug/l	100
68) o-Xylene	11.95	106	1532058	103.94	ug/l	100
69) Styrene	11.97	104	2511446	104.08	ug/l	100
70) Isopropylbenzene	12.25	105	4086281	102.22	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	1058871	98.58	ug/l	98
72) 1,2,3-Trichloropropane	12.56	75	937056m	108.55	ug/l	
73) Bromobenzene	12.53	156	1048914	100.04	ug/l	98
74) n-propylbenzene	12.59	91	4741985	100.84	ug/l	100
75) 2-Chlorotoluene	12.68	91	2773089	98.56	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	3327959	98.89	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	329578	118.12	ug/l	97
78) 4-Chlorotoluene	12.78	91	2806087	100.81	ug/l	100
79) tert-butylbenzene	12.99	119	2858520	102.42	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	3384825	99.21	ug/l	100
81) sec-Butylbenzene	13.17	105	3852568	99.76	ug/l	100
82) p-Isopropyltoluene	13.29	119	3396574	103.33	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	1851717	100.74	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	1786660	102.80	ug/l	99
85) n-Butylbenzene	13.62	91	2858753	111.71	ug/l	99
86) Hexachloroethane	13.88	117	628077	96.93	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	1795740	97.61	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	170542	102.78	ug/l	99
89) 1,2,4-Trichlorobenzene	14.91	180	999920	125.13	ug/l	99
90) Hexachlorobutadiene	15.01	225	535620	89.56	ug/l	98
91) Naphthalene	15.14	128	2387775	151.91	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	978670	116.48	ug/l	99

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

