

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072518\
 Data File : VN050038.D
 Acq On : 25 Jul 2018 9:21
 Operator : MD\SY
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 7/26/2018 3:53:49 PM

Quant Time: Jul 26 15:13:16 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	137889	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	712947	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	643688	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	279673	29.37	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.90%
60) 4-Bromofluorobenzene	12.40	95	300340	30.74	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	102.47%
63) Toluene-d8	10.09	98	918762	29.11	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.03%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	488641	45.55	ug/l	97
3) Chloromethane	2.06	50	486062	47.40	ug/l	99
4) Vinyl Chloride	2.18	62	517198	46.96	ug/l	98
5) Bromomethane	2.56	94	304803	46.15	ug/l	98
6) Chloroethane	2.70	64	299726	46.37	ug/l	98
7) Trichlorofluoromethane	3.01	101	667967	45.65	ug/l	100
8) Diethyl Ether	3.41	74	228444	50.74	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.75	101	398480	44.62	ug/l	99
10) 1,1-Dichloroethene	3.73	96	364069	47.42	ug/l	96
11) Methyl Iodide	3.95	142	556924	50.83	ug/l	99
12) Methyl Acetate	4.33	43	422049	48.03	ug/l	98
13) Acrolein	3.61	56	116177	250.37	ug/l	99
14) Acrylonitrile	5.00	53	709517	254.12	ug/l	99
15) Acetone	3.82	58	187071	237.57	ug/l	96
16) Carbon Disulfide	4.05	76	1094291	47.02	ug/l	100
17) Allyl chloride	4.32	41	580168	49.99	ug/l	99
18) Methylene Chloride	4.55	84	411076	46.76	ug/l	99
19) trans-1,2-Dichloroethene	5.04	96	393557	48.07	ug/l	97
20) Diisopropyl ether	5.96	45	1214632	48.92	ug/l	99
21) 1,1-Dichloroethane	5.85	63	733068	47.40	ug/l	98
22) cis-1,2-Dichloroethene	6.83	96	434304	48.87	ug/l	99
23) tert-Butyl Alcohol	4.81	59	154185	250.03	ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	1023760	50.41	ug/l	100
25) Chloroform	7.37	83	742378	46.93	ug/l	100
26) Cyclohexane	7.65	56	601031	49.31	ug/l	# 99
29) 1,1-Dichloropropene	7.80	75	558247	48.11	ug/l	100
30) 2-Butanone	6.84	43	881778	257.39	ug/l	99
31) 2,2-Dichloropropane	6.83	77	602422	47.56	ug/l	100
32) 1,1,1-Trichloroethane	7.57	97	634606	47.35	ug/l	99
33) Carbon Tetrachloride	7.78	117	569263	48.07	ug/l	99
34) Benzene	8.04	78	1668971	48.11	ug/l	# 94
35) Methacrylonitrile	7.18	41	195654	52.34	ug/l	96
36) 1,2-Dichloroethane	8.13	62	540432	47.51	ug/l	99
37) Trichloroethene	8.84	130	428118	47.44	ug/l	99
38) Methylcyclohexane	9.08	83	580136	49.87	ug/l	99
39) 1,2-Dichloropropane	9.12	63	435407	47.75	ug/l	98
40) Dibromomethane	9.21	93	271296	48.94	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.41	83	566651	48.28	ug/l	99
42) Vinyl Acetate	5.90	43	4236725	261.34	ug/l	100
43) Ethyl Acetate	6.94	43	366960	49.65	ug/l	96
44) Isopropyl Acetate	8.17	43	673368	49.79	ug/l	98
45) 1,4-Dioxane	9.20	88	90824	1027.16	ug/l	98
46) Methyl methacrylate	9.20	41	331359	51.48	ug/l	99
47) n-amyl Acetate	12.07	43	550377	57.13	ug/l	99
48) t-1,3-Dichloropropene	7.80	75	558247	48.02	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	655731	50.55	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	385702	48.45	ug/l	99
51) Ethyl methacrylate	10.43	69	495149	55.82	ug/l	99
52) 1,3-Dichloropropane	10.71	76	641891	49.08	ug/l	99
53) Dibromochloromethane	10.90	129	436549	49.04	ug/l	99
54) 1,2-Dibromoethane	11.01	107	382196	49.83	ug/l	100
55) 2-Chloroethyl vinyl ether	9.70	63	1148054	273.45	ug/l	99
56) Bromoform	12.13	173	314593	51.54	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	1911948	250.14	ug/l	99
59) 2-Hexanone	10.75	43	1320811	259.17	ug/l	100
61) Tetrachloroethene	10.63	164	420834	45.12	ug/l	99
62) Toluene	10.16	91	1802722	47.15	ug/l	100
64) Chlorobenzene	11.44	112	1101257	48.46	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	424519	47.25	ug/l	100
66) Ethyl Benzene	11.51	91	1912128	50.51	ug/l	99
67) m/p-Xylenes	11.62	106	1487720	98.91	ug/l	100
68) o-Xylene	11.95	106	704413	50.99	ug/l	99
69) Styrene	11.97	104	1154485	51.05	ug/l	99
70) Isopropylbenzene	12.25	105	1883257	50.26	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	497856	49.45	ug/l	98
72) 1,2,3-Trichloropropane	12.56	75	400028m	49.44	ug/l	
73) Bromobenzene	12.53	156	486799	49.54	ug/l	98
74) n-propylbenzene	12.59	91	2183479	49.54	ug/l	99
75) 2-Chlorotoluene	12.68	91	1302942	49.41	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	1565234	49.62	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	142740	54.58	ug/l	96
78) 4-Chlorotoluene	12.78	91	1296247	49.69	ug/l	99
79) tert-butylbenzene	12.99	119	1323914	50.61	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	1606883	50.25	ug/l	100
81) sec-Butylbenzene	13.17	105	1795383	49.60	ug/l	99
82) p-Isopropyltoluene	13.29	119	1565876	50.83	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	856192	49.70	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	823218	50.54	ug/l	99
85) n-Butylbenzene	13.62	91	1274801	53.15	ug/l	100
86) Hexachloroethane	13.88	117	288522	47.51	ug/l	99
87) 1,2-Dichlorobenzene	13.65	146	851554	49.38	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.27	75	79096	50.86	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	425721	56.84	ug/l	100
90) Hexachlorobutadiene	15.01	225	257432	45.93	ug/l	99
91) Naphthalene	15.14	128	943894	64.07	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	425121	53.99	ug/l	98

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

