

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080918\
 Data File : VN050505.D
 Acq On : 10 Aug 2018 00:06
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 8/10/2018 10:53:26 AM

Quant Time: Aug 10 07:59:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 15:21:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	133348	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	719124	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	631608	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	271287	29.93	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.77%
60) 4-Bromofluorobenzene	12.40	95	289449	29.83	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.43%
63) Toluene-d8	10.09	98	903449	29.95	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.83%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	137839	15.00	ug/l	94
3) Chloromethane	2.06	50	170128	17.96	ug/l	100
4) Vinyl Chloride	2.18	62	182500	18.09	ug/l	98
5) Bromomethane	2.57	94	102395	16.65	ug/l	99
6) Chloroethane	2.70	64	113201	18.98	ug/l	99
7) Trichlorofluoromethane	3.01	101	248084	18.82	ug/l	98
8) Diethyl Ether	3.41	74	83571	18.90	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.76	101	151339	18.87	ug/l	99
10) 1,1-Dichloroethene	3.74	96	137066	19.28	ug/l	93
11) Methyl Iodide	3.95	142	70101	6.70	ug/l	99
12) Methyl Acetate	4.33	43	127234	15.62	ug/l	99
13) Acrolein	3.61	56	42610	84.66	ug/l	96
14) Acrylonitrile	4.99	53	251116	92.40	ug/l	98
15) Acetone	3.82	58	74011	102.48	ug/l	98
16) Carbon Disulfide	4.05	76	395433	18.17	ug/l	99
17) Allyl chloride	4.33	41	201095	17.91	ug/l	98
18) Methylene Chloride	4.55	84	161613	19.70	ug/l	99
19) trans-1,2-Dichloroethene	5.05	96	146920	19.30	ug/l	99
20) Diisopropyl ether	5.96	45	468809	20.36	ug/l	98
21) 1,1-Dichloroethane	5.85	63	282916	19.54	ug/l	98
22) cis-1,2-Dichloroethene	6.83	96	167979	19.90	ug/l	96
23) tert-Butyl Alcohol	4.80	59	50715	83.52	ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	376043	19.39	ug/l	100
25) Chloroform	7.37	83	290479	19.82	ug/l	99
26) Cyclohexane	7.65	56	219311	19.06	ug/l	# 99
29) 1,1-Dichloropropene	7.80	75	207617	18.60	ug/l	99
30) 2-Butanone	6.84	43	349620	99.83	ug/l	99
31) 2,2-Dichloropropane	6.83	77	180186	14.61	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	246454	18.76	ug/l	100
33) Carbon Tetrachloride	7.78	117	216166	18.46	ug/l	99
34) Benzene	8.05	78	641543	18.93	ug/l	98
35) Methacrylonitrile	7.18	41	60630	15.21	ug/l	96
36) 1,2-Dichloroethane	8.13	62	204804	18.40	ug/l	99
37) Trichloroethene	8.84	130	172694	19.43	ug/l	94
38) Methylcyclohexane	9.08	83	205901	17.50	ug/l	99
39) 1,2-Dichloropropane	9.12	63	169590	18.99	ug/l	100
40) Dibromomethane	9.21	93	102456	18.57	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.41	83	215730	18.53	ug/l	99
42) Vinyl Acetate	5.90	43	1495398	90.74	ug/l	99
43) Ethyl Acetate	6.94	43	124567	17.03	ug/l	96
44) Isopropyl Acetate	8.17	43	227569	16.80	ug/l	# 82
45) 1,4-Dioxane	9.20	88	31505	353.42	ug/l	99
46) Methyl methacrylate	9.20	41	111544	16.99	ug/l	98
47) n-amyl Acetate	12.07	43	180689	17.14	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	194171	17.50	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	229895	17.63	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	147943	18.68	ug/l	99
51) Ethyl methacrylate	10.43	69	168734	17.55	ug/l	99
52) 1,3-Dichloropropane	10.71	76	241794	18.59	ug/l	100
53) Dibromochloromethane	10.90	129	162017	18.02	ug/l	99
54) 1,2-Dibromoethane	11.01	107	141146	18.19	ug/l	100
55) 2-Chloroethyl vinyl ether	9.70	63	411070	94.47	ug/l	99
56) Bromoform	12.13	173	107916	17.00	ug/l	98
58) 4-Methyl-2-Pentanone	9.99	43	803605	109.34	ug/l	99
59) 2-Hexanone	10.75	43	514992	102.71	ug/l	99
61) Tetrachloroethene	10.63	164	167175	19.54	ug/l	99
62) Toluene	10.16	91	690826	19.17	ug/l	99
64) Chlorobenzene	11.44	112	425720	19.48	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.51	131	163200	19.15	ug/l	99
66) Ethyl Benzene	11.51	91	692307	18.80	ug/l	99
67) m/p-Xylenes	11.62	106	548366	38.69	ug/l	99
68) o-Xylene	11.95	106	260103	19.29	ug/l	99
69) Styrene	11.97	104	419395	19.40	ug/l	100
70) Isopropylbenzene	12.25	105	684499	19.06	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	183197	18.58	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	148804m	17.67	ug/l	
73) Bromobenzene	12.53	156	180017	18.82	ug/l	99
74) n-propylbenzene	12.59	91	772547	18.47	ug/l	99
75) 2-Chlorotoluene	12.68	91	480451	19.13	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	568135	19.26	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	36064	13.10	ug/l	98
78) 4-Chlorotoluene	12.77	91	479824	19.27	ug/l	99
79) tert-butylbenzene	12.99	119	482542	19.14	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	576612	19.29	ug/l	99
81) sec-Butylbenzene	13.17	105	629992	18.39	ug/l	100
82) p-Isopropyltoluene	13.29	119	536296	18.35	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	312599	18.77	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	294398	18.70	ug/l	99
85) n-Butylbenzene	13.62	91	395885	16.69	ug/l	100
86) Hexachloroethane	13.88	117	90546	15.50	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	308534	18.95	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	24951	16.24	ug/l	99
89) 1,2,4-Trichlorobenzene	14.91	180	136129	17.50	ug/l	98
90) Hexachlorobutadiene	15.01	225	90101	17.57	ug/l	98
91) Naphthalene	15.13	128	269512	18.70	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	134711	17.03	ug/l	98

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

