

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN112618\
 Data File : VN052465.D
 Acq On : 26 Nov 2018 18:04
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 11/27/2018 3:52:16 PM

Quant Time: Nov 27 01:12:29 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:48:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	172564	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	1000141	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	867355	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	353456	30.06	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.20%
60) 4-Bromofluorobenzene	12.40	95	397662	29.99	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.97%
63) Toluene-d8	10.09	98	1211046	30.11	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.37%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	190647	19.40	ug/l	97
3) Chloromethane	2.06	50	254548	19.53	ug/l	100
4) Vinyl Chloride	2.19	62	259005	19.69	ug/l	95
5) Bromomethane	2.58	94	157034	20.94	ug/l	98
6) Chloroethane	2.71	64	155078	19.82	ug/l	98
7) Trichlorofluoromethane	3.02	101	318905	19.64	ug/l	100
8) Diethyl Ether	3.41	74	118756	19.81	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	196524	19.09	ug/l	97
10) 1,1-Dichloroethene	3.74	96	189792	19.61	ug/l	98
11) Methyl Iodide	3.96	142	253780	18.89	ug/l	98
12) Methyl Acetate	4.32	43	161602	19.65	ug/l	100
13) Acrolein	3.61	56	94078	97.41	ug/l	99
14) Acrylonitrile	4.99	53	346722	98.97	ug/l	97
15) Acetone	3.82	58	78743	86.79	ug/l	99
16) Carbon Disulfide	4.06	76	586493	19.14	ug/l	100
17) Allyl chloride	4.33	41	303618	17.99	ug/l	98
18) Methylene Chloride	4.56	84	222708	19.88	ug/l	97
19) trans-1,2-Dichloroethene	5.05	96	205401	19.72	ug/l	97
20) Diisopropyl ether	5.95	45	703811	19.85	ug/l	99
21) 1,1-Dichloroethane	5.85	63	401736	19.87	ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	234304	19.63	ug/l	99
23) tert-Butyl Alcohol	4.78	59	45209	86.75	ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	520453	20.50	ug/l	99
25) Chloroform	7.37	83	386072	19.80	ug/l	99
26) Cyclohexane	7.66	56	367792	19.29	ug/l #	100
29) 1,1-Dichloropropene	7.79	75	295588	19.35	ug/l	99
30) 2-Butanone	6.84	43	381421	93.33	ug/l	100
31) 2,2-Dichloropropane	6.83	77	264064	18.78	ug/l	100
32) 1,1,1-Trichloroethane	7.57	97	314275	19.78	ug/l	98
33) Carbon Tetrachloride	7.78	117	272270	19.58	ug/l	99
34) Benzene	8.04	78	908323	19.78	ug/l	100
35) Methacrylonitrile	7.17	41	107938	21.29	ug/l	97
36) 1,2-Dichloroethane	8.13	62	276507	19.87	ug/l	100
37) Trichloroethene	8.84	130	226534	19.45	ug/l	99
38) Methylcyclohexane	9.08	83	364053	19.26	ug/l	98
39) 1,2-Dichloropropane	9.12	63	242039	19.66	ug/l	98
40) Dibromomethane	9.21	93	132391	19.90	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	283086	19.26	ug/l	99
42) Vinyl Acetate	5.90	43	2200022	99.49	ug/l	99
43) Ethyl Acetate	6.93	43	189284m	21.78	ug/l	
44) Isopropyl Acetate	8.17	43	313485	20.57	ug/l	96
45) 1,4-Dioxane	9.20	88	27682	332.01	ug/l	94
46) Methyl methacrylate	9.20	41	161157	20.37	ug/l	98
47) n-amyl Acetate	12.07	43	242685	19.20	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	273040	19.16	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	335816	19.34	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	192186	20.38	ug/l	99
51) Ethyl methacrylate	10.43	69	232532	19.64	ug/l	99
52) 1,3-Dichloropropane	10.71	76	334818	19.95	ug/l	100
53) Dibromochloromethane	10.90	129	202160	19.47	ug/l	97
54) 1,2-Dibromoethane	11.01	107	186492	20.24	ug/l	97
55) 2-Chloroethyl vinyl ether	9.70	63	692217	99.86	ug/l	100
56) Bromoform	12.13	173	130389	19.22	ug/l	98
58) 4-Methyl-2-Pentanone	9.99	43	868313	103.26	ug/l	99
59) 2-Hexanone	10.75	43	561148	97.69	ug/l	99
61) Tetrachloroethene	10.63	164	212760	19.92	ug/l	99
62) Toluene	10.16	91	954942	19.97	ug/l	100
64) Chlorobenzene	11.44	112	584512	20.03	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	200377	19.78	ug/l	99
66) Ethyl Benzene	11.51	91	1016043	19.72	ug/l	98
67) m/p-Xylenes	11.62	106	759950	39.58	ug/l	100
68) o-Xylene	11.95	106	372484	19.99	ug/l	99
69) Styrene	11.97	104	589642	19.60	ug/l	99
70) Isopropylbenzene	12.25	105	990054	19.97	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	222972	20.67	ug/l	100
72) 1,2,3-Trichloropropane	12.56	75	192454m	20.79	ug/l	
73) Bromobenzene	12.53	156	238463	19.89	ug/l	98
74) n-propylbenzene	12.59	91	1127851	19.52	ug/l	99
75) 2-Chlorotoluene	12.68	91	670219	19.99	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	797974	19.93	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	55055	18.82	ug/l	96
78) 4-Chlorotoluene	12.78	91	651248	19.45	ug/l	100
79) tert-butylbenzene	12.99	119	701179	20.10	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	797602	19.90	ug/l	99
81) sec-Butylbenzene	13.17	105	954893	19.66	ug/l	100
82) p-Isopropyltoluene	13.29	119	802971	19.41	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	409336	19.41	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	397478	19.51	ug/l	99
85) n-Butylbenzene	13.62	91	667535	18.79	ug/l	99
86) Hexachloroethane	13.88	117	134764	19.23	ug/l	98
87) 1,2-Dichlorobenzene	13.66	146	407431	20.30	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	30601	20.26	ug/l	99
89) 1,2,4-Trichlorobenzene	14.91	180	187635	18.98	ug/l	98
90) Hexachlorobutadiene	15.01	225	127335	19.63	ug/l	99
91) Naphthalene	15.14	128	387203	19.39	ug/l	100
92) 1,2,3-Trichlorobenzene	15.32	180	179540	19.70	ug/l	97

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

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