

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121018\
 Data File : VN052764.D
 Acq On : 10 Dec 2018 20:04
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 12/11/2018 12:46:00 PM

Quant Time: Dec 11 01:18:38 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	161168	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	931232	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	815708	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	322619	29.38	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.93%
60) 4-Bromofluorobenzene	12.40	95	370847	29.74	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.13%
63) Toluene-d8	10.09	98	1096574	28.99	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.63%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	160258	17.459	ug/l 99
3) Chloromethane	2.06	50	212496	17.456	ug/l 97
4) Vinyl Chloride	2.19	62	223071	18.156	ug/l 97
5) Bromomethane	2.58	94	118742	16.950	ug/l 100
6) Chloroethane	2.71	64	136025	18.617	ug/l 98
7) Trichlorofluoromethane	3.03	101	288675	19.038	ug/l 99
8) Diethyl Ether	3.41	74	112165	20.033	ug/l 94
9) 1,1,2-Trichlorotrifluoroet	3.77	101	176734	18.386	ug/l 96
10) 1,1-Dichloroethene	3.74	96	172267	19.060	ug/l 97
11) Methyl Iodide	3.96	142	215483	17.172	ug/l 99
12) Methyl Acetate	4.33	43	161811	21.071	ug/l 98
13) Acrolein	3.61	56	51139	56.692	ug/l 96
14) Acrylonitrile	4.99	53	336438	102.824	ug/l 98
15) Acetone	3.82	58	76332	90.081	ug/l 97
16) Carbon Disulfide	4.06	76	479915	16.772	ug/l 100
17) Allyl chloride	4.33	41	271509	17.226	ug/l 98
18) Methylene Chloride	4.56	84	204293	19.522	ug/l 95
19) trans-1,2-Dichloroethene	5.05	96	186808	19.206	ug/l 94
20) Diisopropyl ether	5.95	45	634388	19.152	ug/l 98
21) 1,1-Dichloroethane	5.85	63	363606	19.260	ug/l 98
22) cis-1,2-Dichloroethene	6.83	96	219099	19.655	ug/l 97
23) tert-Butyl Alcohol	4.77	59	58509	120.206	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	501364	21.146	ug/l 98
25) Chloroform	7.37	83	354726	19.477	ug/l 99
26) Cyclohexane	7.66	56	317760	17.846	ug/l # 97
29) 1,1-Dichloropropene	7.80	75	269488	18.950	ug/l 99
30) 2-Butanone	6.84	43	376699	98.994	ug/l 98
31) 2,2-Dichloropropane	6.83	77	248179	18.956	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	296070	20.009	ug/l 97
33) Carbon Tetrachloride	7.78	117	252592	19.509	ug/l 97
34) Benzene	8.04	78	830951	19.435	ug/l 98
35) Methacrylonitrile	7.17	41	96349	20.408	ug/l 97
36) 1,2-Dichloroethane	8.12	62	254335	19.630	ug/l 98
37) Trichloroethene	8.84	130	222992	20.568	ug/l 96
38) Methylcyclohexane	9.08	83	312562	17.755	ug/l 97
39) 1,2-Dichloropropane	9.12	63	221111	19.293	ug/l 98
40) Dibromomethane	9.21	93	126859	20.483	ug/l 96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	266119	19.448	ug/l	99
42) Vinyl Acetate	5.90	43	1914984	93.010	ug/l	98
43) Ethyl Acetate	6.93	43	169700	20.973	ug/l #	69
44) Isopropyl Acetate	8.16	43	344454m	24.273	ug/l	
45) 1,4-Dioxane	9.20	88	32127	413.829	ug/l	93
46) Methyl methacrylate	9.20	41	153938	20.892	ug/l	97
47) n-amyl Acetate	12.07	43	261566	22.230	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	259120	19.530	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	310234	19.192	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	182243	20.759	ug/l	99
51) Ethyl methacrylate	10.43	69	239180	21.692	ug/l	96
52) 1,3-Dichloropropane	10.71	76	315615	20.197	ug/l	99
53) Dibromochloromethane	10.90	129	196280	20.307	ug/l	96
54) 1,2-Dibromoethane	11.01	107	178510	20.808	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	679195	105.233	ug/l	98
56) Bromoform	12.13	173	131192	20.766	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	865113	109.396	ug/l	99
59) 2-Hexanone	10.75	43	575137	106.465	ug/l	98
61) Tetrachloroethene	10.63	164	233873	23.279	ug/l	96
62) Toluene	10.16	91	882112	19.617	ug/l	100
64) Chlorobenzene	11.43	112	549360	20.015	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	192740	20.231	ug/l	99
66) Ethyl Benzene	11.51	91	941905	19.435	ug/l	99
67) m/p-Xylenes	11.62	106	716467	39.681	ug/l	98
68) o-Xylene	11.95	106	352960	20.141	ug/l	99
69) Styrene	11.96	104	561893	19.864	ug/l	100
70) Isopropylbenzene	12.25	105	933144	20.012	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	211296	20.832	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	185314m	21.283	ug/l	
73) Bromobenzene	12.53	156	234807	20.821	ug/l	96
74) n-propylbenzene	12.59	91	1053139	19.385	ug/l	99
75) 2-Chlorotoluene	12.67	91	631319	20.020	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	747996	19.861	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	53422	19.422	ug/l	99
78) 4-Chlorotoluene	12.77	91	629517	19.990	ug/l	99
79) tert-butylbenzene	12.99	119	668111	20.370	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	774335	20.547	ug/l	99
81) sec-Butylbenzene	13.17	105	893545	19.559	ug/l	100
82) p-Isopropyltoluene	13.29	119	772755	19.864	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	406335	20.487	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	400123	20.880	ug/l	99
85) n-Butylbenzene	13.62	91	624188	18.680	ug/l	99
86) Hexachloroethane	13.88	117	125386	19.023	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	400791	21.235	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	32393	22.799	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	211222	22.714	ug/l	99
90) Hexachlorobutadiene	15.01	225	119796	19.638	ug/l	99
91) Naphthalene	15.13	128	470108	25.034	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	196624	22.944	ug/l	98

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

