

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102318\
 Data File : VN051967.D
 Acq On : 23 Oct 2018 16:40
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 10/24/2018 10:09:43 AM

Quant Time: Oct 24 07:33:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 12 10:23:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	164395	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	928115	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	853927	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	295205	29.51	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.37%
60) 4-Bromofluorobenzene	12.40	95	367520	29.85	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.50%
63) Toluene-d8	10.09	98	1094648	29.52	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	139946	21.912	ug/l 100
3) Chloromethane	2.06	50	123727	18.330	ug/l 99
4) Vinyl Chloride	2.19	62	157990	15.673	ug/l 99
5) Bromomethane	2.58	94	161786	18.165	ug/l 86
6) Chloroethane	2.71	64	117720	16.205	ug/l 99
7) Trichlorofluoromethane	3.03	101	292099	20.325	ug/l 94
8) Diethyl Ether	3.42	74	85050	20.329	ug/l 71
9) 1,1,2-Trichlorotrifluoroet	3.77	101	171241m	20.923	ug/l
10) 1,1-Dichloroethene	3.74	96	158713	20.969	ug/l 82
11) Methyl Iodide	3.96	142	255042	23.180	ug/l 95
12) Methyl Acetate	4.33	43	91179	19.400	ug/l 92
13) Acrolein	3.61	56	11922m	38.499	ug/l
14) Acrylonitrile	4.99	53	203810	97.023	ug/l # 62
15) Acetone	3.82	58	50390	97.039	ug/l 97
16) Carbon Disulfide	4.06	76	364722	18.348	ug/l 97
17) Allyl chloride	4.33	41	151999	16.915	ug/l 72
18) Methylene Chloride	4.55	84	181104	21.400	ug/l # 84
19) trans-1,2-Dichloroethene	5.05	96	175672	20.326	ug/l 84
20) Diisopropyl ether	5.95	45	380820	19.028	ug/l # 85
21) 1,1-Dichloroethane	5.86	63	277425	19.839	ug/l # 98
22) cis-1,2-Dichloroethene	6.83	96	208722	20.561	ug/l # 79
23) tert-Butyl Alcohol	4.78	59	44796	80.970	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	416018	19.078	ug/l # 67
25) Chloroform	7.37	83	339354	20.455	ug/l 96
26) Cyclohexane	7.66	56	219980	18.555	ug/l # 69
29) 1,1-Dichloropropene	7.79	75	240262	20.083	ug/l 93
30) 2-Butanone	6.84	43	223408	89.345	ug/l # 85
31) 2,2-Dichloropropane	6.83	77	262733	18.668	ug/l # 79
32) 1,1,1-Trichloroethane	7.57	97	313695	19.778	ug/l 94
33) Carbon Tetrachloride	7.78	117	272951	19.021	ug/l 93
34) Benzene	8.04	78	715210	20.211	ug/l # 66
35) Methacrylonitrile	7.17	41	47311	14.401	ug/l # 73
36) 1,2-Dichloroethane	8.13	62	226430	19.969	ug/l 96
37) Trichloroethene	8.84	130	228428	20.794	ug/l 93
38) Methylcyclohexane	9.08	83	283112	18.450	ug/l 78
39) 1,2-Dichloropropane	9.12	63	162193	19.462	ug/l 93
40) Dibromomethane	9.21	93	125892	20.353	ug/l 94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	247792	19.395	ug/l	93
42) Vinyl Acetate	5.90	43	1275112	90.586	ug/l #	88
43) Ethyl Acetate	6.93	43	89366	16.459	ug/l	96
44) Isopropyl Acetate	8.17	43	189065	17.434	ug/l	96
45) 1,4-Dioxane	9.20	88	34534	396.580	ug/l #	74
46) Methyl methacrylate	9.20	41	91995	18.391	ug/l	69
47) n-amyl Acetate	12.07	43	173321	19.091	ug/l #	73
48) t-1,3-Dichloropropene	10.38	75	224146	17.991	ug/l	97
49) cis-1,3-Dichloropropene	9.84	75	262148	19.087	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	176770	20.684	ug/l	94
51) Ethyl methacrylate	10.43	69	184549	18.862	ug/l	83
52) 1,3-Dichloropropane	10.71	76	266137	20.178	ug/l	97
53) Dibromochloromethane	10.90	129	195308	18.474	ug/l	95
54) 1,2-Dibromoethane	11.00	107	177346	19.770	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	484852	115.921	ug/l #	91
56) Bromoform	12.13	173	114418	16.410	ug/l #	93
58) 4-Methyl-2-Pentanone	9.98	43	521281	91.222	ug/l #	87
59) 2-Hexanone	10.75	43	353317	91.647	ug/l #	88
61) Tetrachloroethene	10.63	164	214717	19.662	ug/l	97
62) Toluene	10.16	91	853426	20.118	ug/l	98
64) Chlorobenzene	11.43	112	574443	20.676	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.51	131	205308	19.253	ug/l	98
66) Ethyl Benzene	11.51	91	929362	19.822	ug/l	100
67) m/p-Xylenes	11.62	106	752396	39.583	ug/l	95
68) o-Xylene	11.95	106	371843	19.844	ug/l	86
69) Styrene	11.96	104	585542	20.366	ug/l	95
70) Isopropylbenzene	12.25	105	988553	19.783	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	196953	19.958	ug/l	96
72) 1,2,3-Trichloropropane	12.55	75	152585m	19.655	ug/l	
73) Bromobenzene	12.53	156	262802	21.233	ug/l	79
74) n-propylbenzene	12.59	91	1056359	19.653	ug/l	93
75) 2-Chlorotoluene	12.67	91	621864	19.734	ug/l	92
76) 1,3,5-Trimethylbenzene	12.73	105	803034	19.434	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	39278	15.298	ug/l	96
78) 4-Chlorotoluene	12.77	91	639434	20.653	ug/l	90
79) tert-butylbenzene	12.99	119	741895	19.523	ug/l	93
80) 1,2,4-Trimethylbenzene	13.04	105	825626	19.992	ug/l	97
81) sec-Butylbenzene	13.17	105	976491	19.643	ug/l	95
82) p-Isopropyltoluene	13.29	119	884083	19.874	ug/l	96
83) 1,3-Dichlorobenzene	13.28	146	477400	21.859	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	471255	22.920	ug/l	99
85) n-Butylbenzene	13.62	91	683646	20.380	ug/l	94
86) Hexachloroethane	13.87	117	124841	16.276	ug/l	92
87) 1,2-Dichlorobenzene	13.65	146	457228	21.624	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	28105	19.071	ug/l #	69
89) 1,2,4-Trichlorobenzene	14.91	180	259080	26.293	ug/l	99
90) Hexachlorobutadiene	15.01	225	138553	20.334	ug/l	96
91) Naphthalene	15.13	128	566003	28.105	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	246708	25.646	ug/l	92

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

