

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110818\
 Data File : VN052215.D
 Acq On : 8 Nov 2018 10:55
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 11/9/2018 11:48:58 AM

Quant Time: Nov 08 11:18:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110118W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 02 05:39:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	64935	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	381596	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	345955	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	142811	29.63	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.77%
60) 4-Bromofluorobenzene	12.40	95	157149	28.40	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.67%
63) Toluene-d8	10.09	98	482461	29.66	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.87%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	97475	22.476	ug/l 96
3) Chloromethane	2.06	50	102912	20.762	ug/l 97
4) Vinyl Chloride	2.19	62	100305	20.629	ug/l 99
5) Bromomethane	2.58	94	66744	20.110	ug/l 96
6) Chloroethane	2.71	64	59055	18.994	ug/l 98
7) Trichlorofluoromethane	3.02	101	140411	21.324	ug/l 91
8) Diethyl Ether	3.41	74	47143	21.205	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	3.76	101	85366	22.182	ug/l 96
10) 1,1-Dichloroethene	3.74	96	75101	20.914	ug/l 95
11) Methyl Iodide	3.96	142	108458	20.890	ug/l 100
12) Methyl Acetate	4.33	43	66275	21.927	ug/l 99
13) Acrolein	3.61	56	28021	87.404	ug/l 95
14) Acrylonitrile	4.99	53	144494	107.800	ug/l 97
15) Acetone	3.82	58	38110	120.299	ug/l 86
16) Carbon Disulfide	4.06	76	209096	19.721	ug/l 97
17) Allyl chloride	4.33	41	130592	21.419	ug/l 98
18) Methylene Chloride	4.55	84	88335	19.930	ug/l 93
19) trans-1,2-Dichloroethene	5.05	96	81394	20.687	ug/l 95
20) Diisopropyl ether	5.95	45	284442	21.469	ug/l 99
21) 1,1-Dichloroethane	5.85	63	156560	20.220	ug/l 97
22) cis-1,2-Dichloroethene	6.83	96	96734	21.055	ug/l 96
23) tert-Butyl Alcohol	4.78	59	25080	120.091	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	214082	21.029	ug/l 97
25) Chloroform	7.37	83	161025	20.712	ug/l 94
26) Cyclohexane	7.65	56	146216	21.066	ug/l # 96
29) 1,1-Dichloropropene	7.79	75	123628	20.406	ug/l 97
30) 2-Butanone	6.83	43	182147	112.896	ug/l # 77
31) 2,2-Dichloropropane	6.82	77	123884	19.851	ug/l 97
32) 1,1,1-Trichloroethane	7.57	97	137117	20.228	ug/l 98
33) Carbon Tetrachloride	7.77	117	121906	20.222	ug/l 96
34) Benzene	8.04	78	363367	20.484	ug/l 98
35) Methacrylonitrile	7.20	41	65182m	29.455	ug/l
36) 1,2-Dichloroethane	8.12	62	120707	20.351	ug/l 99
37) Trichloroethene	8.84	130	92774	20.896	ug/l 87
38) Methylcyclohexane	9.08	83	150235	20.328	ug/l 97
39) 1,2-Dichloropropane	9.12	63	98466	20.852	ug/l 97
40) Dibromomethane	9.21	93	60026	20.623	ug/l 94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	117254	19.689	ug/l	100
42) Vinyl Acetate	5.90	43	984337	104.216	ug/l	100
43) Ethyl Acetate	6.83	43	182147	22.465	ug/l #	87
44) Isopropyl Acetate	8.17	43	143319	21.349	ug/l	95
45) 1,4-Dioxane	9.20	88	14800	483.270	ug/l #	80
46) Methyl methacrylate	9.20	41	72809	21.788	ug/l	94
47) n-amyl Acetate	12.07	43	126423	20.776	ug/l #	100
48) t-1,3-Dichloropropene	10.38	75	119777	20.255	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	137832	20.194	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	80303	20.864	ug/l	95
51) Ethyl methacrylate	10.43	69	102955	20.697	ug/l	98
52) 1,3-Dichloropropane	10.71	76	137733	20.544	ug/l	100
53) Dibromochloromethane	10.90	129	84259	20.278	ug/l	98
54) 1,2-Dibromoethane	11.00	107	79090	20.264	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	279996	102.792	ug/l	98
56) Bromoform	12.13	173	49902	20.794	ug/l	97
58) 4-Methyl-2-Pentanone	9.98	43	411411	110.980	ug/l	98
59) 2-Hexanone	10.75	43	286003	112.050	ug/l	100
61) Tetrachloroethene	10.63	164	84757	22.527	ug/l	92
62) Toluene	10.16	91	394873	20.333	ug/l	99
64) Chlorobenzene	11.43	112	249157	20.243	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	89565	21.380	ug/l	98
66) Ethyl Benzene	11.51	91	428464	20.425	ug/l	99
67) m/p-Xylenes	11.62	106	335329	41.520	ug/l	96
68) o-Xylene	11.95	106	159883	20.764	ug/l	94
69) Styrene	11.96	104	256014	20.633	ug/l	98
70) Isopropylbenzene	12.25	105	424647	20.544	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	97508	21.447	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	74821m	18.717	ug/l	
73) Bromobenzene	12.53	156	98576	21.522	ug/l	87
74) n-propylbenzene	12.59	91	488184	20.281	ug/l	98
75) 2-Chlorotoluene	12.67	91	278742	20.086	ug/l	97
76) 1,3,5-Trimethylbenzene	12.73	105	343354	20.716	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	23550	18.828	ug/l	90
78) 4-Chlorotoluene	12.77	91	283765	20.305	ug/l	97
79) tert-butylbenzene	12.99	119	297549	20.608	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	349334	21.156	ug/l	98
81) sec-Butylbenzene	13.17	105	418054	21.040	ug/l	98
82) p-Isopropyltoluene	13.29	119	356272	21.217	ug/l	98
83) 1,3-Dichlorobenzene	13.28	146	172282	21.265	ug/l	97
84) 1,4-Dichlorobenzene	13.36	146	169955	21.191	ug/l	97
85) n-Butylbenzene	13.62	91	297224	20.451	ug/l	99
86) Hexachloroethane	13.87	117	58808	20.753	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	168834	21.934	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.27	75	13780	22.165	ug/l	89
89) 1,2,4-Trichlorobenzene	14.91	180	70373	22.522	ug/l	98
90) Hexachlorobutadiene	15.01	225	42119	24.639	ug/l	97
91) Naphthalene	15.13	128	170901	23.730	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	66716	24.499	ug/l	99

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

