

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061419\
 Data File : VN056300.D
 Acq On : 14 Jun 2019 9:19
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 6/17/2019 9:46:02 AM

Quant Time: Jun 17 14:16:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jun 06 04:02:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	60215	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	322203	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	283436	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	124383	33.26	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	110.87%
60) 4-Bromofluorobenzene	12.40	95	124221	29.57	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.57%
63) Toluene-d8	10.09	98	409202	31.83	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	106.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	72712	21.469 ug/l	97
3) Chloromethane	2.06	50	79364	20.057 ug/l	100
4) Vinyl Chloride	2.19	62	82580	20.469 ug/l	100
5) Bromomethane	2.52	94	43788m	17.270 ug/l	
6) Chloroethane	2.68	64	46566m	20.406 ug/l	
7) Trichlorofluoromethane	3.00	101	104498	20.934 ug/l	98
8) Diethyl Ether	3.40	74	40945	19.340 ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.74	101	65898	21.386 ug/l	97
10) 1,1-Dichloroethene	3.72	96	61876	19.686 ug/l	99
11) Methyl Iodide	3.94	142	72752	14.670 ug/l	98
12) Methyl Acetate	4.33	43	75157	19.898 ug/l	100
13) Acrolein	3.60	56	20401	110.815 ug/l	98
14) Acrylonitrile	4.99	53	168847	100.241 ug/l	99
15) Acetone	3.82	58	70051	127.013 ug/l	98
16) Carbon Disulfide	4.04	76	154687	20.683 ug/l	100
17) Allyl chloride	4.31	41	100687	20.675 ug/l	98
18) Methylene Chloride	4.54	84	74184	20.387 ug/l	96
19) trans-1,2-Dichloroethene	5.03	96	67201	20.029 ug/l	100
20) Diisopropyl ether	5.95	45	207888	20.603 ug/l	98
21) 1,1-Dichloroethane	5.84	63	122659	20.918 ug/l	97
22) cis-1,2-Dichloroethene	6.83	96	77068	19.680 ug/l	97
23) tert-Butyl Alcohol	4.81	59	45255	69.025 ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	193494	19.316 ug/l	99
25) Chloroform	7.37	83	121781	20.798 ug/l	98
26) Cyclohexane	7.65	56	111157	20.432 ug/l #	97
29) 1,1-Dichloropropene	7.79	75	90523	20.770 ug/l	98
30) 2-Butanone	6.84	43	250850	109.329 ug/l	98
31) 2,2-Dichloropropane	6.82	77	81800	20.175 ug/l	98
32) 1,1,1-Trichloroethane	7.56	97	99859	20.738 ug/l	98
33) Carbon Tetrachloride	7.77	117	86067	21.097 ug/l	99
34) Benzene	8.04	78	283573	20.420 ug/l	96
35) Methacrylonitrile	7.17	41	43393m	22.396 ug/l	
36) 1,2-Dichloroethane	8.12	62	94552	21.738 ug/l	96
37) Trichloroethene	8.83	130	77589	19.967 ug/l	100
38) Methylcyclohexane	9.08	83	109608	19.837 ug/l	98
39) 1,2-Dichloropropane	9.12	63	75527	21.236 ug/l	94
40) Dibromomethane	9.21	93	48863	20.721 ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	91130	21.581	ug/l	100
42) Vinyl Acetate	5.89	43	821643	100.445	ug/l	98
43) Ethyl Acetate	6.93	43	84643	19.276	ug/l	94
44) Isopropyl Acetate	8.17	43	127166	18.651	ug/l	98
45) 1,4-Dioxane	9.21	88	26227	359.593	ug/l	92
46) Methyl methacrylate	9.20	41	67069	19.801	ug/l	94
47) n-amyl Acetate	12.07	43	100817	17.880	ug/l	94
48) t-1,3-Dichloropropene	10.38	75	84777	19.077	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	104766	20.133	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	71848	20.513	ug/l	99
51) Ethyl methacrylate	10.43	69	97143	18.332	ug/l	97
52) 1,3-Dichloropropane	10.71	76	117552	20.702	ug/l	99
53) Dibromochloromethane	10.90	129	70330	20.512	ug/l	99
54) 1,2-Dibromoethane	11.00	107	73129	20.008	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	152046	81.918	ug/l	99
56) Bromoform	12.13	173	49467	19.943	ug/l	98
58) 4-Methyl-2-Pentanone	9.99	43	425299	99.093	ug/l	97
59) 2-Hexanone	10.75	43	311342	101.492	ug/l	99
61) Tetrachloroethene	10.63	164	76558	19.380	ug/l	98
62) Toluene	10.15	91	305743	19.982	ug/l	100
64) Chlorobenzene	11.43	112	184653	19.896	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	68986	20.613	ug/l	99
66) Ethyl Benzene	11.51	91	319201	19.586	ug/l	99
67) m/p-Xylenes	11.62	106	240553	38.563	ug/l	94
68) o-Xylene	11.95	106	117225	19.196	ug/l	97
69) Styrene	11.96	104	186617	18.809	ug/l	98
70) Isopropylbenzene	12.25	105	312355	19.576	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	96201	19.998	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	76216m	18.302	ug/l	
73) Bromobenzene	12.53	156	80576	19.026	ug/l	97
74) n-propylbenzene	12.59	91	324080	19.247	ug/l	98
75) 2-Chlorotoluene	12.67	91	203631	19.497	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	253644	19.326	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	20587	17.325	ug/l	90
78) 4-Chlorotoluene	12.77	91	182473	18.708	ug/l	97
79) tert-butylbenzene	12.99	119	222898	19.169	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	241019	18.878	ug/l	99
81) sec-Butylbenzene	13.17	105	285712	19.423	ug/l	99
82) p-Isopropyltoluene	13.29	119	243479	18.308	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	118635	17.975	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	105506	16.782	ug/l	99
85) n-Butylbenzene	13.61	91	160468	16.167	ug/l	98
86) Hexachloroethane	13.87	117	42760	20.624	ug/l	95
87) 1,2-Dichlorobenzene	13.65	146	115745	17.253	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	13879	18.380	ug/l	94
89) 1,2,4-Trichlorobenzene	14.91	180	40532	17.167	ug/l	100
90) Hexachlorobutadiene	15.01	225	44372	18.118	ug/l	99
91) Naphthalene	15.13	128	108196	12.143	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	48713	13.871	ug/l	98

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

