

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN053019\
 Data File : VN055898.D
 Acq On : 30 May 2019 14:13
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 5/31/2019 9:38:27 AM

Quant Time: May 31 05:05:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 23 05:54:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	51488	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	275741	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	242812	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	102559	30.47	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.57%
60) 4-Bromofluorobenzene	12.40	95	110311	29.20	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.33%
63) Toluene-d8	10.09	98	335129	30.20	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.67%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	42549	18.848	ug/l 99
3) Chloromethane	2.06	50	61159	19.046	ug/l 99
4) Vinyl Chloride	2.18	62	63438	19.357	ug/l 100
5) Bromomethane	2.53	94	44462m	23.172	ug/l
6) Chloroethane	2.68	64	40034	20.911	ug/l 94
7) Trichlorofluoromethane	3.00	101	82772	20.132	ug/l 100
8) Diethyl Ether	3.40	74	37705	20.861	ug/l 94
9) 1,1,2-Trichlorotrifluoroet	3.74	101	52526	20.219	ug/l 99
10) 1,1-Dichloroethene	3.72	96	52727	19.401	ug/l 94
11) Methyl Iodide	3.94	142	77265	19.929	ug/l 98
12) Methyl Acetate	4.33	43	66432	19.987	ug/l 98
13) Acrolein	3.60	56	42605	92.251	ug/l 99
14) Acrylonitrile	4.99	53	149194	98.454	ug/l 99
15) Acetone	3.82	58	51669	109.788	ug/l 99
16) Carbon Disulfide	4.03	76	128914	16.544	ug/l 99
17) Allyl chloride	4.31	41	88013	17.981	ug/l 95
18) Methylene Chloride	4.54	84	61796	19.854	ug/l 98
19) trans-1,2-Dichloroethene	5.03	96	56629	19.370	ug/l 95
20) Diisopropyl ether	5.96	45	180309	18.990	ug/l 95
21) 1,1-Dichloroethane	5.84	63	103984	19.377	ug/l 100
22) cis-1,2-Dichloroethene	6.82	96	67276	19.731	ug/l 97
23) tert-Butyl Alcohol	4.81	59	58517	87.927	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	178697	19.378	ug/l 98
25) Chloroform	7.37	83	104060	19.633	ug/l 98
26) Cyclohexane	7.65	56	94041	18.995	ug/l # 98
29) 1,1-Dichloropropene	7.79	75	76336	19.775	ug/l 99
30) 2-Butanone	6.84	43	211899	102.990	ug/l 99
31) 2,2-Dichloropropane	6.82	77	83741	18.642	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	88176	19.272	ug/l 100
33) Carbon Tetrachloride	7.77	117	74178	18.124	ug/l 98
34) Benzene	8.04	78	242664	20.362	ug/l 99
35) Methacrylonitrile	7.17	41	36854	19.407	ug/l 99
36) 1,2-Dichloroethane	8.12	62	79598	20.438	ug/l 99
37) Trichloroethene	8.83	130	67375	20.263	ug/l 99
38) Methylcyclohexane	9.08	83	95080	19.441	ug/l 99
39) 1,2-Dichloropropane	9.12	63	63421	19.796	ug/l 96
40) Dibromomethane	9.21	93	42536	20.561	ug/l 95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	77681	18.321	ug/l	100
42) Vinyl Acetate	5.90	43	763322	95.556	ug/l	100
43) Ethyl Acetate	6.93	43	79653	19.696	ug/l #	100
44) Isopropyl Acetate	8.17	43	126019	18.818	ug/l #	87
45) 1,4-Dioxane	9.20	88	25997	412.634	ug/l	97
46) Methyl methacrylate	9.20	41	59922	19.178	ug/l	99
47) n-amyl Acetate	12.07	43	103281	18.646	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	80908	17.287	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	93465	18.245	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	60807	20.190	ug/l	99
51) Ethyl methacrylate	10.43	69	92047	18.962	ug/l	99
52) 1,3-Dichloropropane	10.71	76	100212	20.187	ug/l	99
53) Dibromochloromethane	10.90	129	61817	17.375	ug/l	98
54) 1,2-Dibromoethane	11.00	107	62911	20.187	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	169612	89.800	ug/l	99
56) Bromoform	12.13	173	42653	14.615	ug/l	98
58) 4-Methyl-2-Pentanone	9.99	43	396687	98.687	ug/l	100
59) 2-Hexanone	10.75	43	284602	99.037	ug/l	100
61) Tetrachloroethene	10.63	164	65744	20.002	ug/l	98
62) Toluene	10.16	91	266525	20.412	ug/l	99
64) Chlorobenzene	11.43	112	160101	20.213	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.51	131	58524	18.338	ug/l	99
66) Ethyl Benzene	11.51	91	285197	19.991	ug/l	99
67) m/p-Xylenes	11.62	106	217394	40.112	ug/l	99
68) o-Xylene	11.95	106	107808	20.102	ug/l	98
69) Styrene	11.96	104	172654	19.513	ug/l	98
70) Isopropylbenzene	12.25	105	285798	20.367	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	85443	19.786	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	76048m	20.461	ug/l	
73) Bromobenzene	12.53	156	71891	19.366	ug/l	99
74) n-propylbenzene	12.59	91	299363	19.781	ug/l	100
75) 2-Chlorotoluene	12.67	91	189471	20.495	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	233755	20.153	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	21166	14.337	ug/l	85
78) 4-Chlorotoluene	12.77	91	170733	19.487	ug/l	99
79) tert-butylbenzene	12.99	119	209331	20.529	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	226742	19.692	ug/l	99
81) sec-Butylbenzene	13.17	105	265764	20.513	ug/l	99
82) p-Isopropyltoluene	13.29	119	236954	19.873	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	111410	19.145	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	103046	18.594	ug/l	99
85) n-Butylbenzene	13.61	91	171481	18.487	ug/l	98
86) Hexachloroethane	13.87	117	37333	15.919	ug/l	89
87) 1,2-Dichlorobenzene	13.65	146	113649	19.395	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	13421	16.397	ug/l	95
89) 1,2,4-Trichlorobenzene	14.91	180	46250	14.622	ug/l	97
90) Hexachlorobutadiene	15.01	225	40304	17.077	ug/l	98
91) Naphthalene	15.13	128	138566	16.033	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	54079	16.359	ug/l	98

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

