

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092818\
 Data File : VN051619.D
 Acq On : 28 Sep 2018 17:09
 Operator : MD\SY
 Sample : VN0928WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0928WBS01

Manual Integrations
 APPROVED

MMDadoda
 10/3/2018 5:27:43 PM

Quant Time: Sep 29 05:07:20 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Sep 29 01:07:29 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	100523	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	547888	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	474292	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	215609	30.80	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.67%
60) 4-Bromofluorobenzene	12.40	95	214752	29.45	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.17%
63) Toluene-d8	10.09	98	683163	30.53	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.77%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	177641	20.137	ug/l 99
3) Chloromethane	2.06	50	188269	19.071	ug/l 99
4) Vinyl Chloride	2.19	62	181483	18.740	ug/l 97
5) Bromomethane	2.57	94	92394	18.367	ug/l 95
6) Chloroethane	2.70	64	87131	17.934	ug/l 98
7) Trichlorofluoromethane	3.01	101	222451	18.800	ug/l 97
8) Diethyl Ether	3.41	74	69279	18.641	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.76	101	133863	20.014	ug/l 97
10) 1,1-Dichloroethene	3.74	96	113011	18.619	ug/l 97
11) Methyl Iodide	3.95	142	141095	18.059	ug/l 99
12) Methyl Acetate	4.33	43	100325	18.728	ug/l 100
13) Acrolein	3.61	56	45982	77.695	ug/l 96
14) Acrylonitrile	4.99	53	198147	92.363	ug/l 99
15) Acetone	3.82	58	53774	95.600	ug/l 98
16) Carbon Disulfide	4.05	76	358156	18.311	ug/l 99
17) Allyl chloride	4.33	41	197958	18.232	ug/l 98
18) Methylene Chloride	4.55	84	131327	18.820	ug/l 99
19) trans-1,2-Dichloroethene	5.04	96	119071	18.480	ug/l 95
20) Diisopropyl ether	5.95	45	415964	19.311	ug/l 96
21) 1,1-Dichloroethane	5.85	63	243338	19.061	ug/l 100
22) cis-1,2-Dichloroethene	6.83	96	129219	18.363	ug/l 96
23) tert-Butyl Alcohol	4.79	59	36577	89.133	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	301508	18.901	ug/l 99
25) Chloroform	7.37	83	234401	19.203	ug/l 95
26) Cyclohexane	7.65	56	201756	18.263	ug/l 98
29) 1,1-Dichloropropene	7.79	75	173175	18.536	ug/l 99
30) 2-Butanone	6.84	43	241588	95.012	ug/l 100
31) 2,2-Dichloropropane	6.83	77	193838	19.224	ug/l 100
32) 1,1,1-Trichloroethane	7.57	97	200429	19.094	ug/l 98
33) Carbon Tetrachloride	7.77	117	179496	19.025	ug/l 98
34) Benzene	8.04	78	529143	19.090	ug/l 99
35) Methacrylonitrile	7.18	41	42732	14.948	ug/l 95
36) 1,2-Dichloroethane	8.13	62	168411	19.062	ug/l 99
37) Trichloroethene	8.84	130	132672	18.643	ug/l 99
38) Methylcyclohexane	9.08	83	195991	18.180	ug/l 98
39) 1,2-Dichloropropane	9.12	63	145868	19.206	ug/l 97
40) Dibromomethane	9.21	93	83348	19.755	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	173435	18.832	ug/l	99
42) Vinyl Acetate	5.90	43	1322433	93.420	ug/l	100
43) Ethyl Acetate	6.93	43	102117	18.973	ug/l	99
44) Isopropyl Acetate	8.17	43	191625	18.184	ug/l	99
45) 1,4-Dioxane	9.20	88	22673	397.723	ug/l	98
46) Methyl methacrylate	9.20	41	89431	18.243	ug/l	99
47) n-amyl Acetate	12.07	43	135812	17.224	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	164915	17.942	ug/l	96
49) cis-1,3-Dichloropropene	9.84	75	197796	18.406	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	113012	18.954	ug/l	99
51) Ethyl methacrylate	10.43	69	130326	18.016	ug/l	98
52) 1,3-Dichloropropane	10.71	76	195041	19.079	ug/l	99
53) Dibromochloromethane	10.90	129	126243	18.591	ug/l	98
54) 1,2-Dibromoethane	11.01	107	108310	18.932	ug/l	96
55) 2-Chloroethyl vinyl ether	9.70	63	331436	92.693	ug/l	100
56) Bromoform	12.13	173	82321	18.269	ug/l	98
58) 4-Methyl-2-Pentanone	9.99	43	525016	97.497	ug/l	99
59) 2-Hexanone	10.75	43	333524	94.147	ug/l	98
61) Tetrachloroethene	10.63	164	130821	19.482	ug/l	98
62) Toluene	10.16	91	553507	19.032	ug/l	100
64) Chlorobenzene	11.43	112	325352	18.503	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	126133	18.786	ug/l	99
66) Ethyl Benzene	11.51	91	540416	18.157	ug/l	99
67) m/p-Xylenes	11.62	106	426359	37.167	ug/l	99
68) o-Xylene	11.95	106	202426	18.486	ug/l	96
69) Styrene	11.96	104	316751	18.429	ug/l	99
70) Isopropylbenzene	12.25	105	541266	18.530	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	137565	19.466	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	123340m	20.413	ug/l	
73) Bromobenzene	12.53	156	133175	18.321	ug/l	98
74) n-propylbenzene	12.59	91	622493	18.306	ug/l	100
75) 2-Chlorotoluene	12.67	91	373311	18.385	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	456430	18.700	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	32867	17.175	ug/l	94
78) 4-Chlorotoluene	12.77	91	370119	18.453	ug/l	99
79) tert-butylbenzene	12.99	119	385114	18.212	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	453013	18.582	ug/l	100
81) sec-Butylbenzene	13.17	105	539710	18.477	ug/l	100
82) p-Isopropyltoluene	13.29	119	459247	18.395	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	235599	18.600	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	213828	17.959	ug/l	100
85) n-Butylbenzene	13.61	91	353788	17.265	ug/l	100
86) Hexachloroethane	13.87	117	89910	18.006	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	229898	18.554	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.27	75	19144	18.586	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	91272	15.738	ug/l	99
90) Hexachlorobutadiene	15.01	225	89415	18.911	ug/l	98
91) Naphthalene	15.13	128	159395	17.626	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	98776	16.935	ug/l	99

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

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